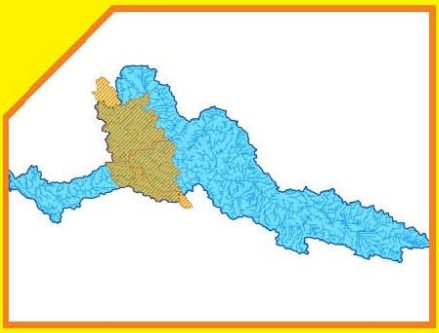
A Village Level Climate Change Vulnerability Analysis and Indicative Adaptation Plan Framework



Satluj River Basin

Kinnaur, Lahaul & Spiti

Himachal Pradesh





Department of Environment, Science & Technology
Government of Himachal Pradesh

Department of Science & Technology
Ministry of Science & Technology
Government of India

NMSHE NATIONAL MISSION FOR SUSTAINING HIMALAYAN ECOSYSTEM



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A Village Level Climate Change Vulnerability Analysis and Indicative Adaptation Plan Framework

Satluj River Basin – District Kinnaur, Lahaul & Spiti Himachal Pradesh

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1

Introduction

1. Introduction

Himachal Pradesh is a small mountainous state located in North India.As per 2011 census its population stood at 68.65 lakhs. Most of peoplelive in its villages and only 9% area is urbanized. Out of the total land geographical area only 10% area is under agriculture while close to 70% area in under the category of 'Forest land'. Agriculture & horticulture is the main source of livelihood in state with over 93% of the population dependent on it.

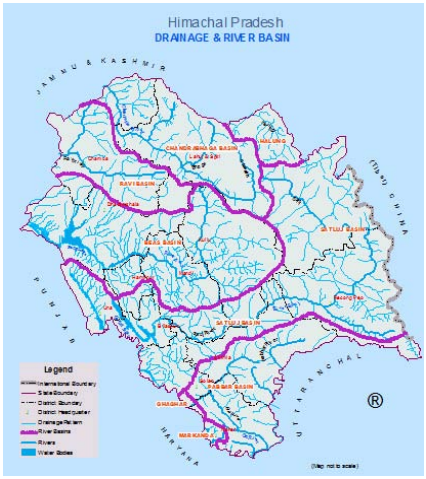


Figure 1: Drainage & River System HP

Agriculture & horticulture is made possible due to the irrigation from river channels or natural springs. The health of the forests directly determines the health of the surface and ground water systems which in turn determines the viability of agriculture and horticulture. Horticulture and cash based agriculture was pushed by the government in the late 70s and 80s. Today the state has massive apple cultivation, apart from commercial vegetable cultivation, which is an important source of income for the farmers.

Himachal Pradesh a mountain state in Indian Himalaya, covering an area of over fifty five thousand square kilometres, has 5 major river basins Satluj, Ravi, Beas, Chenab and Yamuna. Yamuna crosses only the south-eastern border of the state, and but its tributaries originating in Himachal include Giri and Tons which form a part of the Ganga river basin flowing westward. The other four rivers are major tributaries of the eastward flowing Indus River, the longest in the world (2000 miles or 3200 kilometres) with a flow twice the size of the Nile. The Indus becomes a much larger river once it is joined by what are known as the 'Punjab' (literally meaning 5 rivers – Satluj, Ravi, Beas, Chenab and Jhelum).

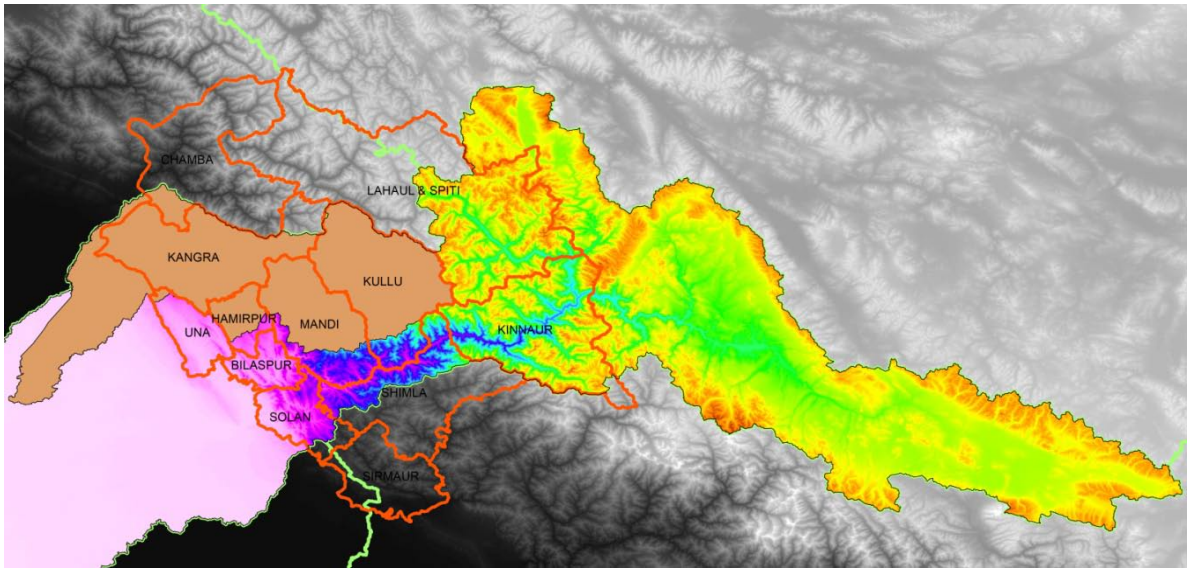
Out of the five majorrivers, except Satluj which has its source in Tibet, the rest originate within the boundaries of the State of Himachal Pradesh. While the Satluj meets Beas meet within India, it joins the Chenab in Pakistan. Ravi too joins the Chenab in Pakistan. Chenab then goes on to meet the Jhelum and then the merged rivers meet the Indus at Mithankot in Pakistan followed by its confluence with the Arabian Sea. Himachal's unique geography and variation in altitude produces a wide spectrum of climates from hot and sub-humid tropical in the southern tracts to cold, alpine and glacial in the northern and eastern mountain ranges. There is a vast diversity of communities that reside in this landscape.

While the large rivers are referred to by them locally as *dariya*, their tributaries (glacial and snow fed) are smaller rivers are called *khad*, and smaller streams are known as *nallahs*. The, *khads* and *nallahs*, are critical components of the riverine ecosystem, even from the point of view of the local communities, who have a direct relationship with these for their day to day use – drinking water, irrigation, running watermills and fishing. It is rare to find communities residing very close to the larger rivers or dariyas, except in some parts of Lahaul-Spiti or then lower down in the valleys.

1. 1 Project Details

There are five river basins in the State contributing to Indus & Ganges river basins. These five river basins are *Beas, Satluj, Yamuna, Ravi* & *Chenab*. The major activity under HP knowledge cell is to map and analyse small watershed of river basin scale using hydrological modelling to simulate the quality & quantity of surface and ground water, to predict the environmental impact of land use management practices & climate change. The climate change vulnerability assessment using Micro watershed approach is useful in assessing soil erosion prevention and control in regional

management of watershed. Based upon the assessment of climate change vulnerability the micro watershed based climate change adaptation plan framework at village/panchayat level is to be formulated and developed which will be further useful for formulating all developmental plans at regional level.



Map 1.1: Satluj River System

This activity is an accomplishment of the objective of undertaking climate change vulnerability analysis of all the river basins of the State of Himachal Pradesh. The major tasks to be undertaken through the present assignment as follows:

Activity 1 Micro watershed, hydrological modelling based vulnerability analysis of the Satluj river basin

Activity 2 Preparation of district wise indicative adaptation plan framework.

Activity No: 1: Micro Watershed, Hydrological modelling based vulnerability analysis of the Satluj river basin:

Under this activity Hydrological modelling based vulnerability analysis of all the districts taking into account of exposure, sensitivity and adaptive capacity and would be different from conventional planning. The study will coverentire Satluj basin covering Kinnaur, Lahaul & Spiti, Shimla, Kullu, Mandi, Solan, Bilaspur & Una districts of HP along with the suitable resource persons/experts to carry out and prepare a detailed vulnerability indexing and report with 34 years perspectives (Modeling).

The vulnerability analysis will encompass the following task;

1. Assessment of climate change hazard scenarios (short term, medium term and long term) for the region based upon historical information on all major hazard events over the past with focus on agriculture/Horti./Forests and water sector
2. Development of Exposure, Sensitivity and Adaptive Capacity Database of Block level with resolution of micro watershed and panchayat level different from conventional planning.
3. Vulnerability Assessment (Physical, Economic, Social and Environment, Climate Change)
4. Risk assessment encompassing Agriculture/Horti./Forests & Water sector.
5. Capacity Assessment at Panchayats and district levels and associated vulnerability w.r.t. Agri./Horti./Forests & Water sector.

Activity 2: Preparation of Distt wise indicative Adaptation Plan Framework.

Under this part district wise indicative Adaptation Plan Framework of all the districts located in Satluj River basin of HP covering Kinnaur, Lahaul & Spiti, Shimla, Kullu, Mandi, Solan, Bilaspur & Una districts of HP

This volume of report will cover areas of Lahaul & Spiti district and Kinnaur district covering areas of Satluj river basin.

2

Satluj River Basin: District Kinnaur, Lahaul & Spiti

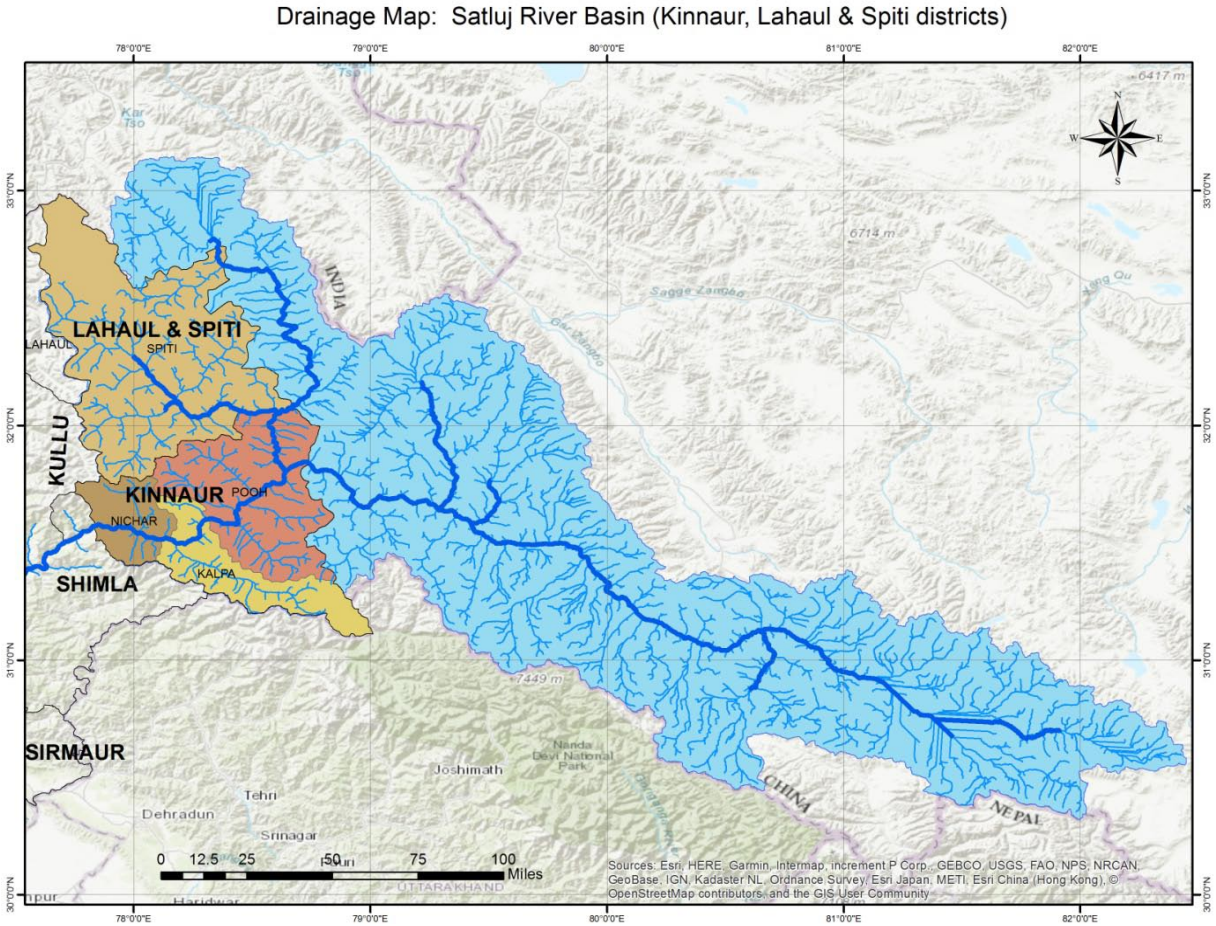
2. Satluj River Basin: District Kinnaur, Lahaul & Spiti

2.1 Satluj River Basin - Profile

The Sutlej River originates beyond Indian boarders in the Southern slopes of the Kailash Mountain in near the Mansarovar Lake from Rakastal Lake, as Longcchen Khabab River (inTibet) at 4572 minthe Tibetan Plateau. It is one of the main tributaries of the Indus River and flows through different area shaving different climatic and topographic features. The important right bank streams of Sutlej in the Tibet region are Iwang Chu, Chowak, Sumna and Trapa. The major left bank tributaries are Largchin and Manglantransu.

In Tibet, Sutlej flows 640 km and enters India at Shipkila. The fall of Sutlej from its source inTibetin to Indian territory is very uniform and averages about 6 m perkm. The river bed elevation of Sutlej is 4572 m at the Rakastal Lake, 3048 m near Shipkila, 914 m at Rampur, 500 m at Bilaspur.

In Himachal Pradesh it has a total length of about 320 km.The catchment area of Sutlej including the portion of Parechu River is 51600 km^2. In India, upto the tailrace outfall of Rampur HP the Sutlej catchment covers approx. 13787 km^2.



Map 2.1: Satluj River Basin – Himachal Pradesh

Spiti: Spiti is on the northern border of Kinnaur the boundary being formed by the rivers Spiti and Pare Chu near the Indo-Tibetan border. The geographical limits of the Spiti basin falls within latitude 30°45’ N to 33° N and longitude 77°33’ E to 79°E and is one of the largest tributary of the Sutlej River in Himachal with its source far north on the eastern slopes of the mountain range between Lahaul and Spiti. It continues in Kinnaur district up to a place known as Namgia (Khab) and is about 14 km upstream of Pooh (Kinnaur), where it joins the Sutlej. The Spiti catchment (10071 km2) experiences

extensive snowfall due to westerly weather disturbances in the winter months that contribute to the Sutlej flow in spring (Singh and Kumar, 1997). The Sipti river flows in an eastern direction for about 40 km, by the time it reaches Kiato, it follows south-eastern direction on receiving tiny streams from both sides. Near Pangmo flat ground and Morang village, the Gyundi nallah joins it from southwest. At Rangrik, Shilla Nala and Rongtong nallah join from east and south-west, respectively. Thereafter, the bed of the river widens considerably due to meandering. Near Lidang village, the Lingti River joins it from North-East and about 4 km further down the Pin River, largest tributary joins it from south-west near Kankhar fort.



From Mane village, the river takes an easterly bend, flows in well defined banks with Poh, Pangrang, Lidang and Tabo villages, situated on its banks. From Sumdo onwards the Spiti River takes a southern direction and flows in Hangrang valley of Kinnaur district and ultimately joins the river Sutlej at Khab. Lingti is one of the most important tributaries on the left side of the Spiti River. It is medium sized stream with catchment area of 1220 km^2 and the water of river is tapped for irrigation occasionally. The Pin is the largest tributary of the Spiti River from the right side, which joins the river at Silug village. It brings down the entire drainage of south-western portion of the watershed and the water is used for irrigation along the lower reaches. Spiti River flows in deep chasms and gorges for most of its length and the catchment area at upstream of Khab is about 10170 km^2.

The Spiti River originates from Kunzum range and travels 150 km in Kinnaur district before its confluence with Sutlej at Khab. In its initial stretch it flows as Takche Nala, which also receives water from the Chandra Tal lake. Further downstream near Lossar, Takche Nala receives water from Pinglung Tokpo and Kabjima Nala on its left bank. Downstream of Losar, numerous streams join the Spiti valley on its either bank. The left bank streams are Thanmo Nala, Takling Nala, Parang Nala, Shila Nala, Shaman Nala, Karathi Nala and Parechu River. Important right bank streams of Spiti are Ratang River, Pin River and Yang Cho.

Tirung khad: Tirung Khad is a left bank tributary of Sutlej which originates from a 5362 m high peak. It is a glacier fed and snow fed stream which receives water from several small streams joining it on either bank. In its initial stretch it is known as Charang Khad. The left bank tributaries are Dipgyamba Khad, Mangla Khad, Lungsho Khad, Domuna, Lambar Khad, Gara Khad and Duba Khad. The streams joining it on its right bank are Jongchhutanso, Kuna Khad, Shakutang, Shangchang, Shankvi Khad and Rovang.

Baspa river: Baspa a major tributary of Sutlej originates at Arsomang and Baspa Bamak glaciers and travels 72 km through the valley before joining the Sutlej River at Karcham. Its 1102 km2 catchment

is situated in the orogenic interior and glaciers cover 20% of the catchment. This river has a catchment of 1000 km2. Baspa receives water from many smaller channels draining snow and glacier waters. The left bank tributaries of Baspa are Karu, Shanchay, Jorya Garang, Janpa Garang, Nardu Garang, Shaune Garang, Hurba Khad, Rokti Khad, Shaung Khad and Brua Khad. The streams joining Baspa on its right bank are smaller compared to the left bank streams. Some important tributary streams on the right bank are: Tumar, Rimdarang, Shilpya, Shushang, Mangsa and Gor Garang.

Ropa Khad: It is a glacier fed right bank tributary which drains an oval shaped basin around Gibong.

Tagta Khad: This is a glacier fed stream which confluences with Sutlej River on its left bank at 2280 m. In its initial stretch it flows from Topuk Cave as Gyamthing Gad. Most of the streams in its left bank receive water from glaciers.

Sumun Khad: This is a small spring fed and snow fed stream which originates on the southern slope of 3240 m peak and flows for 8.16 km. Catchment below 2450 m has barren rocky slopes, cultivated terraces and settlements. In the lower reach it drains the slopes of Shikarwah PF and confluences with Sutlej River on its right bank Nogli Khad at 980 m.

Nogli Khad: Nogli Khad is a snow fed and rain fed stream which join Sutlej at Nogli. In its initial course it flows from east to west between Jalsu Thorna – Buj Dhar – Pal Dhar – Tracha Dhar – Krunshi Kharag Dhar ridge in the south and Gangdapi Dhar – Jang Dhar –Dhaola Dhar ridge in the north. It originates as Sageti Gad in the east of a 5236 m high peak on Kumashi Kharang Dhar, flows for 38 km and finally merges with Sutlej on its right bank at 910 m near Nogli village.

Kurpan Khad: It is a snow fed and spring fed stream. It originates as Umli Gad on the southern slopes of a 5048 m high peak. It flows 37 km in and confluences with Sutlej River on its left bank at 865 m.

Machhad Khad: Machhad khad originates from Maral Kanda (3732 m) peak and flows 23 km towards northwest and drains into Sutlej at 870 m.

Naharu nala: It is a spring fed stream which flows towards southwest from a 3022 m high peak. Naharu Nala joins the Sutlej River on its right bank at 860 m in the downstream of Shanah village.

Nanti khad: It joins Sutlej River on left bank. In its initial stretch it flows westward and then south to north. Total length of Nauti Khad is nearly 40 km. Badeog Nal is small tributary and is spring fed. It joins Sutlej River on the right bank at nearly 20 km downstream of proposed Nanti power house site.

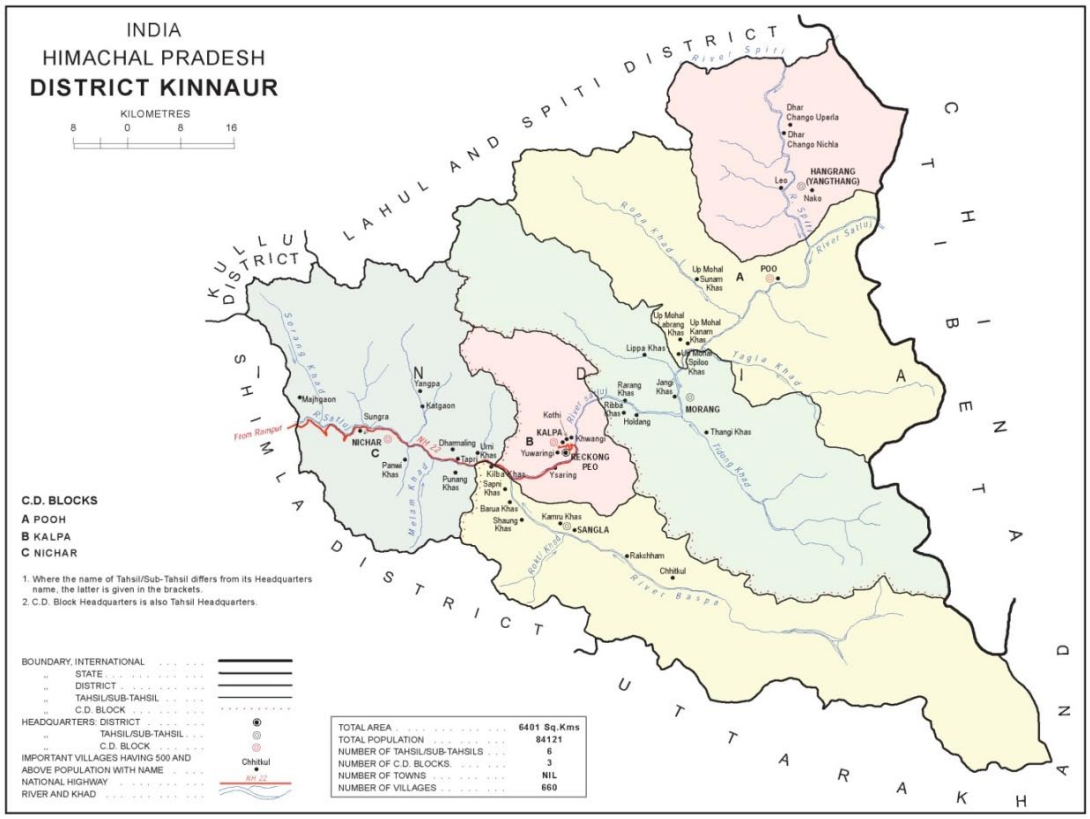
The climate change vulnerability assessment study will cover three developmental blocks of Kinnaur district, one developmental block of Lahaul & Spiti district out of total eight districts fall in Satluj River Basin in the State.

2.2 Kinnaur, Lahaul & Spiti Districts: At a Glance

2.2.1 Introduction – Kinnaur district

Kinnaur district constitutes the southern part of Trans Himalayan Zone. It lies between 31^{o} 05' 55" and 32^{o} 5' 20" north latitude and 77^{o} 45' 0" and 79^{o} 10' 50" east longitude. The district is bounded by Lahul & Spiti in the north, Kullu district in the north-west, Shimla district in the west and in the southwest, state of Uttarakhand in the south while Tibet (China) makes its eastern boundary. Reckong Peo, the present headquarters of the district, situated at an elevation of 2,290 metres, is located at a distance of 13 kms. from Kalpa, the earlier headquarters. Total area of the district is

6,401 sq. kms. It ranks 3rd in terms of area and 11th in order of population among the districts of state.



Map 2.2: Kinnaur district administrative map

Table 1: Developmental Blocks of Kinnaur District

Name of DevelopmentBlock	Numberof Villages
1. Pooh	278
2. Nichar	188
3. Kalpa	194
Total:	**660**

Physiography:

The physiography of the district is characterised by a series of high mountain ranges, deep and narrow valley and river basins. There are three parallel mountain ranges viz., the Zaskar, the Great Himalaya and the Dhaula Dhar which successively cross river Satluj during its journey through the district. Elevation in the district varies from 1,973 metres to 6,791 metres above the mean sea level. The Zaskar range lies in the eastern extreme and has peaks over 6,500 metres. Leo Pargial with 6,791 metres attains the maximum height in the district. Mani range (6,593 M) and Kinner Kailash (6,473 M) peaks are located in the Greater Himalaya. The mountain peaks are covered with perpetual snow. There are many glaciers over the Zaskar and the great Himalaya ranges. Satluj is the principal river in the district. It has its origin in the distant highland of Tibet. It crosses the indo-Tibetan border near Shipkila and flows in the district from north-east to south-west direction. Main tributaries of Satluj river in the district are Sorang Khad, Wangar Khad, Ropa Khad and Spiti river on the right bank and Tagla Khad, Tidong Gad and Baspa river on the left bank of Satluj river.



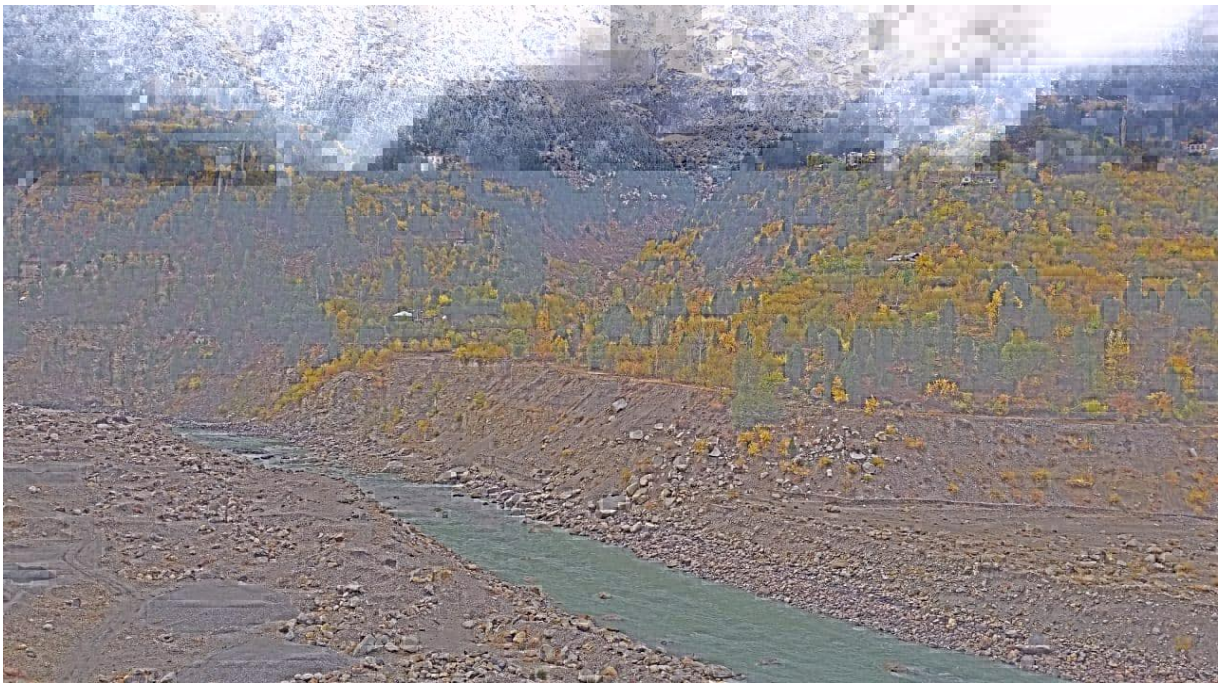
The climate of the district varies with elevation and it ranges from the hot tropical type to almost the freezing temperature type of winter. There is a general decrease in rainfall as one goes from west to east. In eastern part of the district, there is no rainfall during monsoon. In the months of May to October the district has a very low relative humidity are considered as the drought months. The narrow and closed valleys experience higher temperatures during summer.

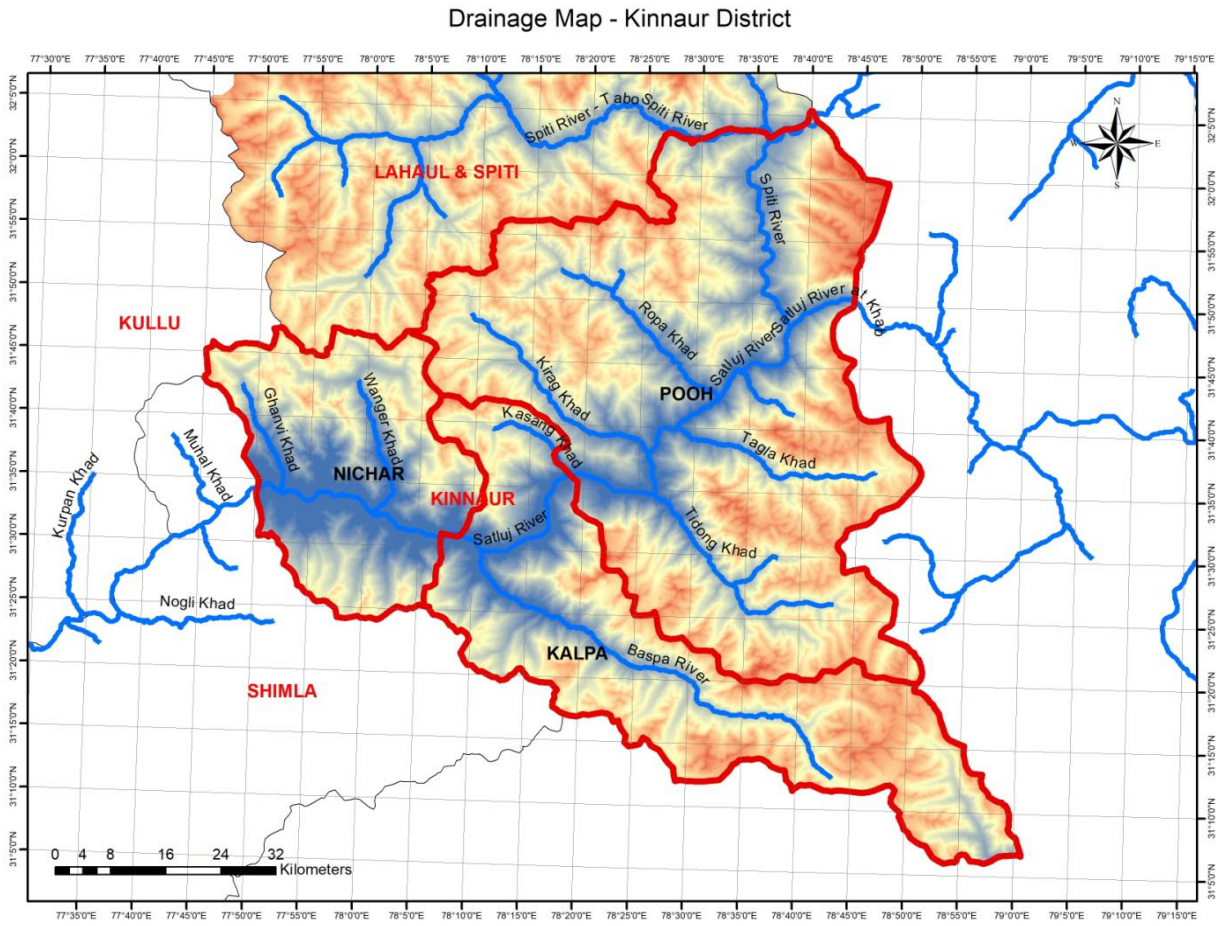
The geology of the district is mainly composed of Haimanta Group and Granities (unclassified). While Blaini/Infra-Krol formations, Nagthat Group, Triassie formations and Jutogh group of geological formations are also found in the district. The soil of the district as classified by National Bureau of Soil Survey and Land Use Planning (I.C.A.R.) Nagpur, are Udalfs (20), Orthents-Ochrepts (58), Orthents- Ochrepts–Udalfs (82) and Glaciers and Snow Cap (103) types of soils. In this district, scattered vegetation of Himalayan Moist temperate mixed forests and Dry Alpine scrub or grass lands are found in the lower Satluj basin. Higher slopes are rocky and barren and without vegetation cover.

Drainage (River System):

The important rivers and streams draining various parts of Kinnaur district is Satluj and itstributaries. Sutlej the principal river of the district arises in the Himalayas and has plenty water and perennial source of water. It enters Kinnaur district from the Tibetan territory by a pass and reaches the border of Shimla district near Rampur. This river is called Shatararu in Sanskrit literature, Sutundri in vedic literature, Zaradros or Heisidrus in Greek, Zungtee and Muksung in Tibetan, as well as others being Sampoo, Sumu drung and Sutoodra. It rises from the lake Mann Sarovar on the Tibetan high land and cuts the Zaskar range at shipkila and enters the district of Kinnaur. The tributaries of river Satluj in this district are Spiti river (razing torrent at Khab village) Ropa, Taiti, Keshang, Mulgoon, Yula, Wanger, Shorang and Rupi on the right bank where as Tirung, Gyanthing, Baspa, Duling and Saol dung are its left bank tributaries.

Spiti (Lee): It is the second major river of the district. It has its source in the far-north on the eastern slopes of the mountain ranges which run between Lahul & Spiti. Before meeting Satluj at a place called Khab, at an altitude of 2,598 metres, Spiti is joined by several feeders which meet the river both at right and left banks. The Chaladokpo, the Yulang, the Lipak and the Tirasang are its main tributaries. The only mentionable tributary on the left bank is Chaladokpo existing between Chango and Changrizang, whereas on the right side are the Yulang, the Lipak and the Tirasang.





Map 2.3: Kinnaur District

Baspa: The Baspa river, another feeder of the Satluj, rises from Dhaula Dhar mountain of the Himalayas and passes through the valley by its name and meets the Satluj at a place called karchham, at an elevation of 5,945 feet, after a distance of about 72 kilometres. Its channel is wide and forms many island of stones and pebbles over grown with streams and streamlets on both the right and left sides. Zupkia, Thathang, Boring, Rukti and Suthi are its important tributaries. Yulang originating between Shiakhar and Leo joins Spiti river after coursing for about 13 kilometres. Ropa

Khad rises on the south–western slope of a range which bounds Kinnaur on the side of Lahul & Spiti and after coursing for about 45 kilometres, it falls into Satluj near Shiaso village. The Pojur or Raiti is one of the largest feeders of Satluj which runs for about forty kilometres independently in a south-easterly direction through its journey. Kashang, a hill torrent with considerable water volume has a south easterly direction and joins Satluj. Mulagoon is a large torrent which after crossing for about 24 kilometres in a south-easterly direction falls into Satluj. It rises on the range that separates Kinnaur from Lahul & Spiti. The Hindustan Tibet road crosses it near Pangi whereas it is crossed by National Highway-22 near the point the Kalpa link road bifurcates the National Highway. Yula originates on the eastern slope of the range forming the boundary between Kinnaur and Lahul & Spiti district. It flows independently for a distance of 23 kilometres and then joins Satluj river. Tidong rises on south-east frontier, towards Garhwal and holding north-westerly course along the northwestern base of the huge Ruldung range. It falls into the Satluj near Rispa on the left bank.

Lakes and springs: There is no large sized lake in the district. There is one lake in Nako situated on the western declivity of the large mountain of Leo Pargial about 1.6 kms. above the left bank of the Spiti river. Another small lake, locally called Sorang, is situated above the village of Ramni and Jamni in Nichar tahsil. A small lake is also situated above Labrang village of Poo tahsil which is locally called Tomchho. Springs mostly originate from snow are scattered all over the district. The water of spring is used for drinking purposes as well as for irrigation by constructing Kuhls. There are number of hot water springs in Nichar tahsil. One such spring is found at Nathpa and one at Joktiaring hamlet about five kilometres towards east of Nichar.

Climate:

Climate plays a vital role in the field of life style and economic growth of the state, especially the performance of agriculture, horticulture and tourism sector is closely related to the performance of rain and snowfall during the season. Kinnaur, due to its geographical situation has a long winter from October to May and a short summer from June to September. It has two distinct climatic zones, the wet and the arid. Only the area south of the great Himalaya receives monsoon rains. This area roughly covers Baspa valley and the lower reaches of Sutlej valley. In the upper reaches of the district, the monsoon showers decline progressively and one can notice the beginning of the complete arid Zone from the place called Spilo at a distance of 255 kms. from Shimla, situated at an elevation of about 2,276 metres above the sea level. The vegetation above Kalpa rapidly becomes sparser and ultimately confines along the river. Along the valley of Satluj uptoWangtu, the rainfall does not vary much from Shimla, but beyond Wangtu the difference is considerable. The rainfall becomes gradully less and less till Shipki is approached and because of it the climate of the upper Kinnaur is semi-arid.

Agriculture:

Agriculture is the main Occupation of the people of Himachal Pradesh. It has an important place in the economy of the state. It provides direct employment of 70 per cent of the total workers of the state. It also a premier source of state income (GSDP). About 17 per cent of GSDP comes from agriculture and its allied sectors. Kinnaur is predominantly an agricultural district. Agriculture in the hilly areas possess peculiar problems due to steep and difficult terrain, small and scattered holdings, depleting fertility of soil, by constant erosion, the crop yield are very low. The crop season is limited to only six months due to intensive cold and snowfall. However, the economy of the district is highly agro-pasturage. Land holdings are generally small and scattered; almost every family has a piece of land. Soils generally consist of sand, sandy-loam, clay-loam, sandy and gravel. Wheat, barley, maize, potato, vegetables and pulses are the main crops of the district.



Horticulture is of great significance to the people of the state. It goes a long way in improving the economic condition of the people. The climatic conditions prevailing in the district are very useful for the development of horticulture and apples in particular. With the introduction and availability of improved techniques, expertise in the field of horticulture and transportation facilities, the production of fruits is also increasing year by year. Kinnaur district has a distinct place in the country for its quality apples and temperate fruits like walnuts, almonds, chilgoza or neoza (pinus gerardiana) , raisin, apricot etc. The main commercial varieties of apple grown are Royal Delicious, Rich Red, Red Delicious and Golden Delicious.



Forest:

The forest plays a vital role in shaping the climatic conditions of an area. Besides this it also influence the socio-economic life of the people. The forest provides valuable timber, various kinds of medicinal herbs, raw material to industries etc. Forests not only provide employment but also play a vital role in conserving the soil and control the climate calendar of the region.



Fishery:

Himachal Pradesh is one of the states of country which has been gifted by Nature with beautiful rivers emanating from glaciers which traverse through hilly terrains. There is a vast network of perennial rivers, streams and khads in the district which provide a great scope for the development of fish culture. For incubating the trout eggs, government has established a Trout farm at Sangla which is situated on the banks of Baspa river.

Animal husbandry:

Rearing of livestock is an integral component of rural economy. It is the main wealth next to agriculture of a large chunk of rural population in the state. Livestock thus is an important integral to the sustainability of economy not only of the district but of Himachal Pradesh also. Dairy production is an integral part of the animal husbandry and forms a part of the earning of small farm holder in the district.

The recent trend toward the development of a market oriented economy emphasized the importance of milk production, especially in areas falling in the vicinity of urban consumption centres. This has motivated farmers to replace local non-descript breeds of cows with the cross-breeds cows. Up gradation of indigenous cattle is being carried out by cross breeding with Jersay and Holstein. In buffalo up gradation with Murrah bull is being popularized. Artificial insemination with the latest technology of Deep Frozen Semen is being practiced.

Industry:

Though Himachal Pradesh is a hilly state even then it has made a significant achievement in the field of industrialization during the past few years. With the ushering of liberalized economy and consequent delicensing and further notification of especial package of incentives for Himachal Pradesh, the flow of investment in the state has increased manifold resulting in good response for setting up new industrial ventures in the state. Up growing industrial environment also provide employment to lacs of people in the state.

Tourism:

Tourism in Himachal Pradesh has been recognized as one of the most important sectors of theeconomy as it is being realized as a major engine for growth for future. Himachal Pradesh as a whole isendowed with all the basic resources necessary for thriving tourism activity like geographical and culturaldiversity, clean, peaceful and beautiful streams, sacred shrines, historic monuments, lush green forestsand above all friendly and hospitable people.

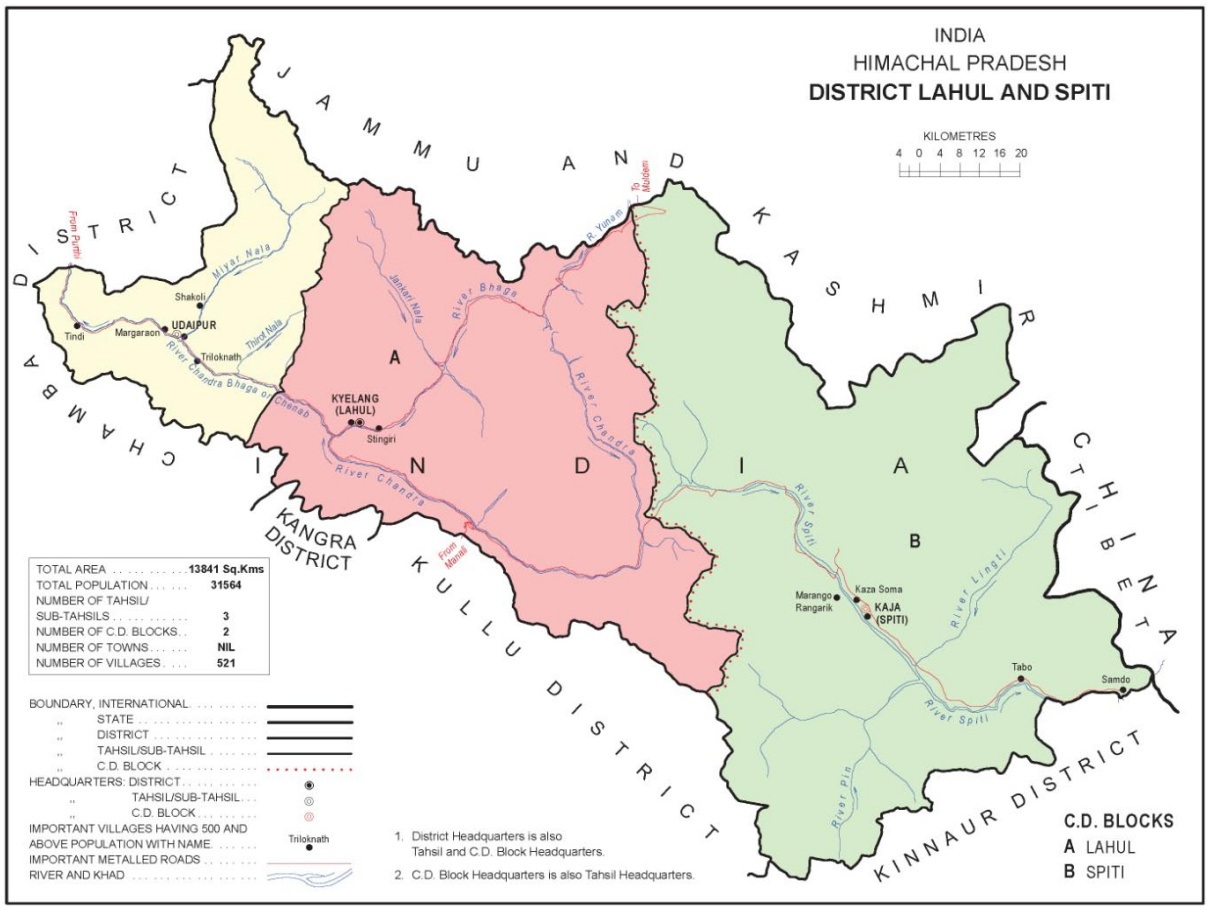
Tourism industry in Himachal Pradesh has been given veryhigh priority and has developed appropriate infrastructure for its development which include provision ofpublic utility services, road, communication network, airports, transport facilities, water supply and civicamenities etc. The district of Kinnaur has also created its impact on the tourist map of the state as a part oftribal circuit tourism. In spite of secluded, rugged and mountainous terrain Kinnaur with its rare beauty, distinct culture of Trans Himalayan Buddhism and hospitality of its people has attracted varied number oftourists from all over the world to its fold.

2.2.2 Introduction – Lahaul & Spiti district

The district is situated in the northern and north eastern part of Himachal Pradesh. Itis located amidst the grandeur of the great Himalayas interspersed with beautiful landscapes andpermanently glowing snowcapped mountain peaks, glaciers, lakes and two river valleys of Chandra Bhagaand Spiti. The sharp mountain peaks ranges between 1,582 metres and 7,010 metres above mean sea level.It touches Tibet on its eastern border and north to it lies the Ladakh, on the western and southern side itborders with Chamba, Kangra and Kullu districts.

On the south eastern side is Kinnaur. It is locatedbetween the latitudes of 31°44'57'' and 32°59'57'' in north and between 76°46'29'' and 78°41'34'' eastlongitudes. Lahul and Spiti district has an area of 13,841 sq. km's which constitutes 24.85 per cent of totalgeographical area of the state. The district is biggest one of the State in terms of area. It extends betweenD.P.F. Thuthiyalain the west to Samdu in the east, Baralacha Pass and its parallel ranges in the north toBhabha, Parvati, Hamta, Rohtang and Kugti and Sach pass in the south. The two valleys of Lahul andSpiti have tenuous link over the Kunzam pass (4,520 metres) the sole access to Lahul lies over the 3,978metres high Rohtang pass while Spiti is linked with motorable roads via the Sutluj valley of Kinnaurdistrict.

The Lahul & Spiti valleys differ from each other in their physical features to some extent. Spiti valleyis broad enchanting and completely rugged without any verdure worth the name, the Lahul valley isnarrow and steep but scattered with green patches of poplar, willow and other coniferous forests. The Spitivalley has minimum altitude of about 10,000 ft. at the entrance to 16,000 ft. near Kunzum La. The Lahulvalley has a low elevation broadly ranging between about 6,500 ft. at the Aratnallah to about 14,000 ft.near the source of Chandra Bhaga. Both the valleys have very high rugged mountains covered with snowand glaciers rising as high as 20,000 ft. above the mean sea level.



Map 2.4: District Lahaul & Spiti

Developmental Blocks of Lahaul & Spiti District

Name of DevelopmentBlock	Numberof Villages
1. Lahaul	290
2. Spiti	231
Total:	**521**

Physiography:

The district of Lahul & Spiti forms a northern part of Trans Himalayan Zone of HimachalPradesh and is situated in the northern and north eastern part of the state. It is totally rural and has lowestdensity of population with 2 persons per sq. km. in the state. It is characterised with high mountains, snowcovered peaks and deep valleys. Two valleys of Lahul & Spiti form the district but both these valleys aredifferent to each other in physical character.

Spiti valley which is formed by Spiti river in the southern andsouth-eastern part of the district is broad and has tough terrain while Lahul valley which is formed by Chandra Bhaga river is narrow. The whole water of the district is drained by these two rivers and their tributaries.

The special feature of this district is the existence of glaciers and the high snowy mountainranges. Geology of this district is fossil rich rocks. These rocks are Lurian age chiefly schists slates andblaini conglomerates. Principal rock is conglomerates in Spiti area sandGruvite and slate in Lahul area.These rockshave been formed as a result of volcanic eruptions which have come up in the mountainbuilding process in different phases over the millennia.

Soil erosion is the biggest problem of the districtas tree cover is missing due to scanty rainfall and high altitude. This district lies in the alpine Himalayanmountain system which is a major earth quake prone belt of the earth. Due to high elevation and toughclimatic conditions, this district does not possess forests of any commercial significance.



Lithological area is comprised of sand, stones, shells, slates, phyllite andlimestones and the depth of the soil cap is generally shallow in the upland areas. The soil at any place isderived from the rocks, which crop out in its neighborhood and varies as rapidly as its parent rocks.

Themica schist's most commonly give a stiff reddish loam or stiff red clay. This type of soil is mainlysiliceous and aluminous. It is poor in lime, magnesia and phosphorus nitrogen but fairly rich in potash, insome parts being quite rich in potassium derived from the muscovite of the schist's. The quartzites arevery resistant to weathering and predominantly siliceous.

Little or no soil accumulates on the surface of pure quartzites because the debris from it contains no binding matter and is easily washed away as quicklyas it is formed. The shales, slates and phyllite are rather soft and decay more easily.

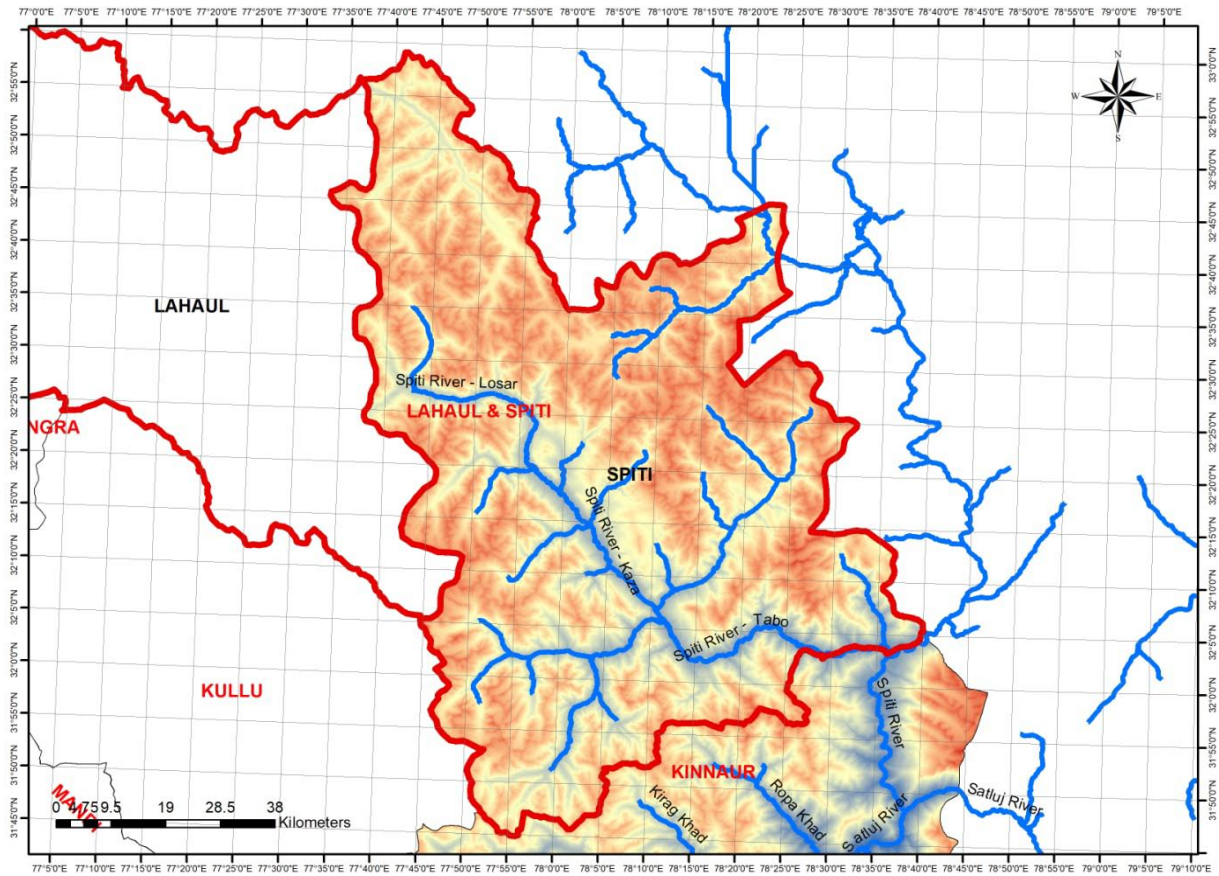
They are in most caseswell covered with soil which supports vegetation's. The limestones mostly occur in broken hilly areas andsuch hills are dry without any useful forest cover.

Drainage:

Spiti river originates from the heights of Kunzum La and swallows on its way numerous rivers and rivulets. The Pin river which has its source near Bhabha Pass also joins the Spiti river.



Drainage Map - Lahaul & Spiti District



Map 2.5: Drainage Map District Lahaul & Spiti

Climate:

The climate of the district is characterized by general dryness throughout the year as the districtlies between the eastern or main Himalaya on the north and the mid Himalaya on the south. The generalelevation in the district is above 2,700 metres with the greater part of the area having elevations rangingfrom about 4,000 metres to 6,000 metres and some of the peaks are above 6,400

metres. The seasons aremore like the temperate zone. The winter season start from about the middle of November to March isfollowed by the spring which last up to the end of May.The next four months may be termed as summer season. Spiti region of the district is comparativelymore difficult than Lahul and Udaipur in terms of terrain, climate and habitation.

The climate of Lahul andUdaipur area is however more refreshing and the air is crisp and clean especially in the valley of ChandraBhaga. From June to middle of September, the day temperature rises considerably and it is fairly warm butthe nights are quite cold and pleasant. Snow starts falling from October onwards and December to Marchare the severely cold months and it snows regularly. In the valley of Chandra Bhaga, the climate istemperate in summer and semi arctic in winter.

The snow fall even start in the month of October but tillDecember it generally melts and does not get piled up.The monsoon hardly penetrates into the district as its enormous mid Himalayan mountain rangesalmost divert the monsoon waves. Spiti region of the district is also typical mountainous desert and rainsreach there in the form of a misty drizzles. The district receives the lower precipitation in comparison toother districts of the State.The winter is the only season when precipitation is normally received in theform of snow.

Agriculture:

Agriculture in Lahul and Spiti district is the predominant occupation of the overwhelmingnumber of households. The traditional crops on the uneconomic holdings used to be barley and buckwheat and pulses like peas, oil seeds etc. However, with the opening of the vehicular roads the peoplehave shifted from cereal crops to commercial crops like seed potatoes, vegetables, hops and kuthetc. Lahulsub-division produces seed potatoes which are known for its disease freeness and popular throughout thecountry.



The people of the district have also adopted apple cultivation particularly in the Pattan valley and Spiti valley. During last decade Apple cultivation and floriculture have been got boost. Thereare five horticultural extension centers working in the district which provide technical knowledge of various horticulture operations to be carried out and to distribute various horticultural inputs on 50 percent to 75 percents subsidy to them.

The other fruit like pear, plums, almond, apricot, cherry, walnuts, andstrawberry are also growing popularity among farmers. The Hops which was hit commercial crop earlier, now losing interest among farmer because of low pricing and huge production cost.

Both Kharif and rabi crops at the same time with a difference of half month of sowing and harvestingis sown in the area and the district has to some extent been dependent on food grains imported fromoutside its jurisdiction. The wheat crop is harvested in the plains in the month of April in Lahul valley.The area could be utilized for multiplication of high yielding variety seeds and has earned name fordevelopment of hybrid wheat seed and production of hops crop. It is also known for the commercialcultivation of off season vegetables and come up on the national front as a market of top quality diseasefree seed potato and is abundantly exported to other states.

Forest:

As the district is situated in the inner Himalayas and its deep valleys is dry, rugged and barrenand there is noscope for afforestation of economically useful forests. The greatest problem is conservationof soil and to preventthe erosion. There is a poor forest in the district in comparison with the vast area, there are only a few and smallforests of Kail, Deodar and Birch owing to difficult climatic conditions andhigh elevation.

The principal treespecies in the forest areas are Kail, Deodar, Pencil Cedar, Birch, Willow, Juniper, Bird Cherry and poplar are metwith in various places in the form of small cluster of trees. Kail,the most valuable tree of Lahul is found atintervals along the left bank of river Chandra between Koksar toSissu, upto Tandi along the Chandrabhaga downto Chamba border and little beyond Nainghar inThirotnallah. In the Bhaga, it occurs on its left bank in Kardangand Cheling on northern slope. Except inMooling where there are some big trees, Kail is generally of small sizeand mostly occurs either in banksof canopied trees or scattered amongst the cliffs where the soil is sufficient forthem to grow.Deodar, the most common tree of Lahul division is chiefly found in Kothis of Gumrang andKolong near Jaspa and in the Pattan valley in Kothijalma on the right bank of river Chandrabhaga. Thescattered trees on thesmall patches are found in the right bank of Bhaga.

There are few trees of spruce nearGuru Ghantal monastery inthe Jhalma Nallah and Thirot Nallah mixed with Kail. Willow is largelycultivated near villages where irrigationis available. Willow trees are much valued by the people and usedfor fodder and fuel.



Lombardy Poplars were introduced by the Moravian Mission and are doing very wellin Lahul. The vegetation cover of the entire area ofSpiti is very sparse but due to its dry Alpine nature it ismost varied and attractive. It falls in Dry Temperate Zone, Alpine Zone and Zone of perpetual snow, thetreeless, rugged and badly denuded tract of Spiti calls forafforestation and soil conservation

measures. Salix and poplar trees are growing up nicely where irrigation isavailable.The Poplar and Willow trees are popular for afforestation in Lahul & Spiti valleys.

The nursery farms are located at Tabo and Pooh in which cutting of various species are being raised. Communityplantation is alsobeing emphasized which is subsidized by the government up to fifty per cent on fencingand plantation. Theforests in the district are managed by Divisional Forest Officer, Lahul, Kaza and Udaipur. The efforts arecontinuing to bring more area under forests and Government has launched DesertDevelopment Project, andwater shed project etc. with the sole aim of bringing more area under forest.

Animal Husbandry:

The people of Lahul region are primarily dependent on agro-commercial activitywhile the Spitians are predominantly agro-pastoral with livestock population out numbering the humanpopulation. The nature of the terrain of the district is very rugged and mountainous and thecommunication system is still not regular throughout the year.

These factors have necessitated the rearingof animals for transportation of goods, ploughing of fields, obtaining raw wool/hair for warm clothweaving and mating and for milk and mutton purposesThe declining trend of livestock's is perhaps due to diversification of occupational structure in thedistrict and attention of people is attracting towards growing theoff season vegetables which fetchesenumerative returns in the market. Besides this, supply of fodder to the cattle is also one of biggestproblem which is discouraging factor.

Industries:

In the district there are small scale household industries like carpet making, carding of wool and weaving of woolen and pashmina shawls and other clothes. There are few carpets weaving training centre at Keylong, wool spinning and weaving centre at Keylong and sub centre at Junda, Government Pashmina Spinning and weaving centre at Chhiljam in Spiti with sub-centre at Hikam. Since the region is known for its naturally grown herbs and almost all big industries fetch and use herbs in production of various health products there is a potential for the medicine and herb based industries in the district.

Tourism:

Lahul and Spiti district has one of the most spectacular valleys with ancient monasteries and natural formations. It consists of the two formerly separate districts of Lahul and Spiti. The present administrative head quarter is Keylong in Lahul. Earlier, Kardang was the capital of Lahul, and Dhankar the capital of Spiti. One can visit this place either from Delhi via Manali or from Kalpa via Shimla. The important tourist destinations spread across the Lahul Spiti valley are Triloknath temple, Udaipur, Kaza, Tabo, Nako, Keylong, Key Monastery, Kibber, Dhankar, Pin Valley, Kunzum Pass, Chandertal Lake and others.

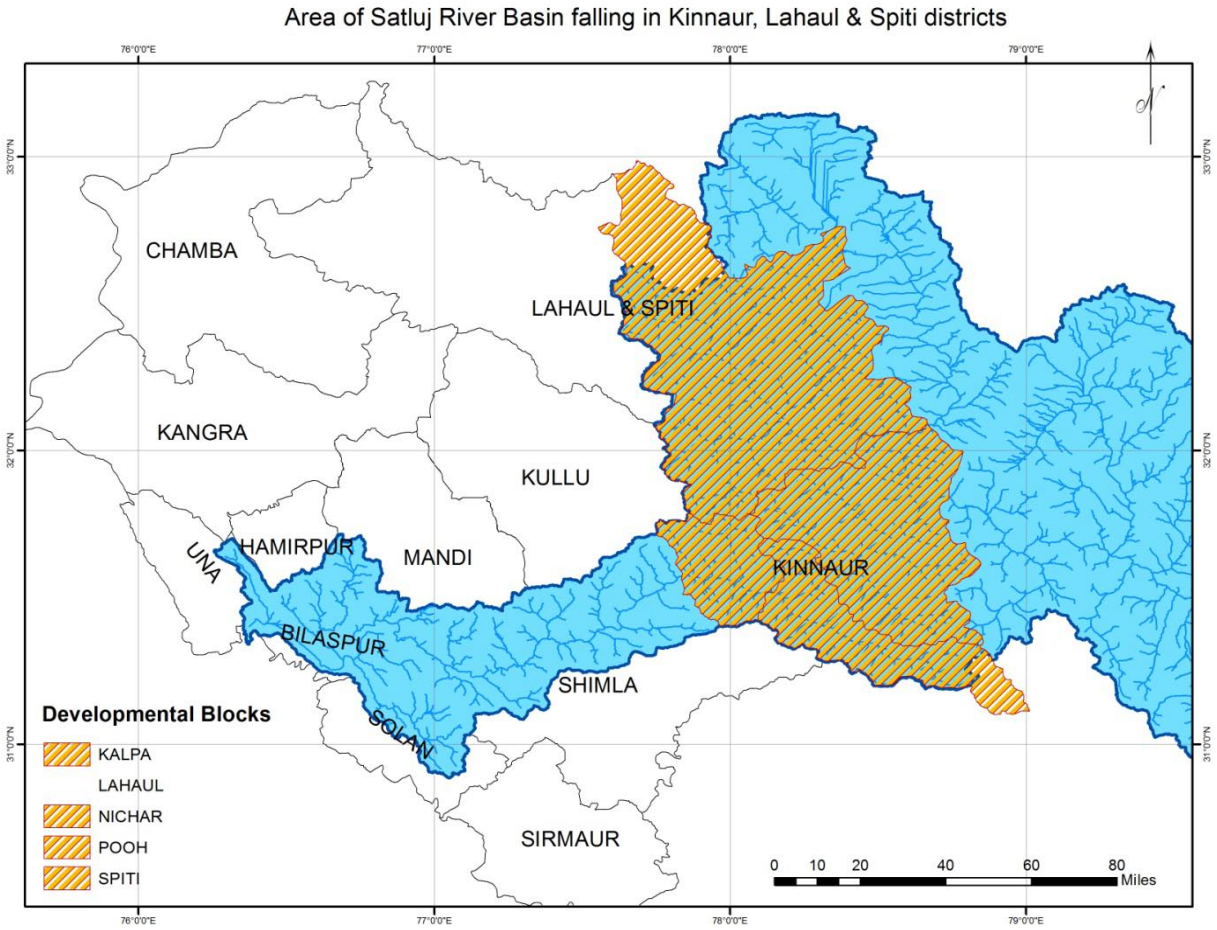
Atal Tunnel Rohtang (previously known as Rohtang tunnel) has become a new tourist destination due to tunnel being an engineering marvel, world's longest highway tunnel above 10,000ft, and being located at picturesque place amidst snow-capped mountain peaks and glaciers. Negative aspects of heavy tourism activities is that with the opening of Lahaul and Spiti, there will be a larger influx of tourist's reaulting heavy infrastructure development & tourism, which may cause change in its ecology, environment and climate.

3

Blocks Profile - Satluj River Basin: District Kinnaur, Lahaul & Spiti

3. Blocks Profile-Satluj River Basin: District Kinnaur, Lahaul & Spiti

Three developmental blocks Pooh, Nichar & Kalpa of Kinnaur district and one developmental block Spiti of Lahaul & Spiti district are covered under Satluj River basin. The total area is covering 891 villages falling in 4 developmental blocks of 2 districts.



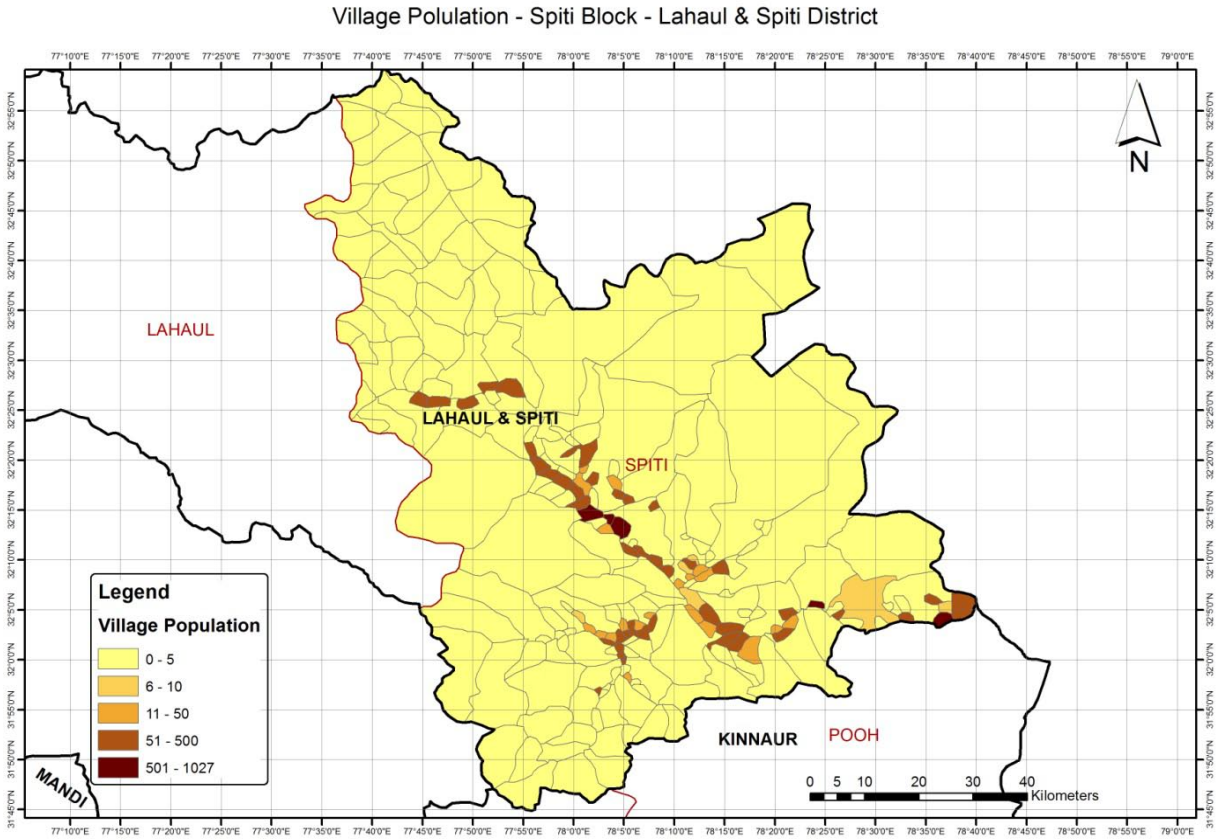
Map 3.1: Area of Satluj River Basin – Kinnaur, Lahaul & Spiti Districts

Developmental Blocks of Kinnaur, Lahaul & Spiti districts falling under Satluj River Basin

Name of District &DevelopmentBlock	Total Villages & Towns	Villages & Town within Satluj Basin
District Lahaul & Spiti	**231**	**208**
1. Developmental block Spiti	231	211
District Kinnaur	**660**	**657**
1. Developmental Block Pooh	278	188
2. Developmental Block Nichar	188	188
3. Developmental Block Kalpa	194	191
Total:	**891**	**865**

3.1 Profile: Development Block Spiti - District Lahaul & Spiti

Spiti is one of the development blocksof the Lahul & Spiti District of Himachal Pradesh. Total area of Spiti block is about 705245.36 hectures. Spiti has a population of 12,457 peoples. There are 2,583 houses in the sub-district. There are about 229 villages in Spiti block.



Map 3.2: Villages of Spiti Block – District Lahaul & Spiti

S#	Code	Village Name	Area (Ha.)	Households	Population
1	012614	Dhar Dum Bachen (158)	19705.94		0
2	012431	Dhar Chhomo (5)	3509.71		0
3	012427	Dhar Sajam (1)	3377.98		0
4	012430	Dhar Gompa (4)	5022.88		0
5	012428	Dhar Chharp Samba (2)	3164.01		0
6	012429	Dhar Lagmi Chhumik (3)	4618.33		0
7	012432	Dhar Takshan (6)	4265.46		0
8	012433	Dhar Lamaguru (7)	4993.50		0
9	012434	Dhar Umnag (8)	1567.04		0
10	012435	Dhar Spiti Sarchu (9)	3061.80		0
11	012439	Dhar Chhumjar (13)	3645.97		0
12	012440	Dhar Sar Marvo (14)	2533.37		0
13	012441	Dhar Kurp Ruveru (15)	6820.99		0
14	012443	Dhar Richheso (17)	8828.66		0
15	012444	Dhar Pangvo (18)	3148.07		0
16	012442	Dhar Tho Chhungari (16)	10024.71		0
17	012447	Dhar Lunger (21)	4027.62		0
18	012438	Dhar Dhakar (12)	2505.34		0
19	012436	Dhar Pangri (10)	4623.19		0
20	012437	Dhar Kabzima Gyapma (11)	3081.09		0
21	012452	Dhar Nijom (26)	2855.91		0
22	012453	Dhar Kabjima (27)	4119.60		0
23	012454	Dhar Tangne (28)	1956.02		0
24	012455	Dhar Sumdo (29)	2735.30		0
25	012456	Dhar Vitung Nakpo (30)	1567.66		0

S#	Code	Village Name	Area (Ha.)	Households	Population
26	012617	Dhar Nusbosamdo (161)	15946.85		0
27	012616	Dhar Parang (160)	48711.92		0
28	012445	Dhar Dagduk (19)	2333.42		0
29	012446	Dhar Malung Samdo (20)	5664.83		0
30	012448	Dhar Nimademo (22)	5439.00		0
31	012449	Dhar Rilosar (23)	4506.24		0
32	012450	Dhar Dojam Gyapma (24)	6229.34		0
33	012451	Dhar Dojam (25)	5972.75		0
34	012458	Dhar Tanve (32)	2771.92		0
35	012460	Dhar Pallamo (34)	1202.40		0
36	012457	Dhar Lungmochhe (31)	1935.35		0
37	012461	Dhar Thachakarpo (35)	1163.54		0
38	012462	Dhar Siti Khud (36)	3182.25		0
39	012464	Dhar Fagdansa (38)	2876.39		0
40	012463	Dhar Nimaloksa (37)	6694.26		0
41	012466	Losar Khas (40/1)	359.95	65	320
42	012467	Chichong (40/2)	491.93	28	144
43	012465	Dhar Dindi (39)	1140.65		0
44	012470	Dhar Latothanmo (43)	6404.39		0
45	012469	Kyamo (42)	361.05	26	127
46	012468	Dhar Pang Kyamo (41)	4115.91		0
47	012471	Hansa (44)	251.37	61	209
48	012474	Dhar Tamba Kurkur (47)	335.16		0
49	012472	Dhar Soksa (45)	8316.75		0
50	012473	Kaito (46)	426.73	34	135
51	012475	Dhar Paldar (48)	1625.11		0
52	012615	Dhar Takling (159)	27387.35		0
53	012618	Dhar Chhavigya (162)	41284.00		0
54	012622	Yul Shikpo (163/4)	10.22		0
55	012623	Phibuk Dogri (163/5)	4.02		0
56	012621	Kibri (163/3)	95.00	1	2
57	012624	Dhar Chokula (164)	29675.32		0
58	012620	Phanve (163/2)	195.00		0
59	012619	Lalung Khas (163/1)	160.00	70	295
60	012600	Rama Khas (151/1)	94.47	12	49
61	012602	Tarbole (151/3)	7.25		0
62	012655	Kauirik (183/1)	60.01	35	288
63	012656	Samdo (183/2)	221.92	19	598
64	012650	Lirit (180/2)	45.25	2	8
65	012649	Gipu (180/1)	185.16	43	223
66	012653	Hurling (181)	93.51	39	218
67	012652	Hiche (180/4)	43.06		0
68	012641	Lapcha (174/2)	11.40	1	1
69	012654	Dhar Karjenpa (182)	10787.58		0
70	012651	Kun (180/3)	52.08		0
71	012648	Dhar Kargyupa (179)	13214.81		0
72	012642	Dhar Angla (175)	9208.47		0
73	012645	Duphuk (177/2)	49.76	1	1
74	012644	Lari (177/1)	225.33	46	209

S#	Code	Village Name	Area (Ha.)	Households	Population
75	012647	Dhar Chhochhodun (178)	8900.12	6	9
76	012646	Tipta (177/3)	34.90		0
77	012643	Dhar Jhanda Choksa (176)	7384.92		0
78	012635	Dhar Pomrang (172)	10914.77		0
79	012634	Dhar Mane Rang (171)	6670.07		0
80	012633	Dhar Gunla (170)	6530.12		0
81	012630	Dogsa (167/4)	116.59		0
82	012631	Piyuche (168)	91.42	3	5
83	012629	Lar (167/3)	359.84		0
84	012628	Kaley (167/2)	354.28	4	27
85	012638	Nidang (173/3)	113.65	13	60
86	012637	Pomrang (173/2)	192.65	3	12
87	012636	Poh (173/1)	113.26	68	313
88	012639	Qurith (173/4)	82.37	3	14
89	012627	Mane Yogma (167/1)	226.68	49	257
90	012632	Mane Kogma (169)	514.26	44	183
91	012580	Dhar Sinsa (137)	3118.61		0
92	012579	Dhar Turwand (136)	4093.36		0
93	012578	Dhar Sechin (135)	2221.36		0
94	012577	Dhar Jamaro (134)	1282.41		0
95	012562	Dhar Mahavaldar (122)	4305.07		0
96	012561	Dhar Tegvaldar (121)	4578.54		0
97	012560	Dhar Chhorak (120)	5152.49		0
98	012558	Dhar Sonpat (118)	3307.56		0
99	012557	Dhar Thagpat (117)	6597.86		0
100	012556	Dhar Lakhang (116)	3982.88		0
101	012559	Dhar Chho Chho Dain (119)	2157.31		0
102	012564	Dhar Larang (124)	2157.46		0
103	012563	Dhar Jikvaldar (123)	2968.36		0
104	012566	Shan (126)	193.06		0
105	012553	Dhar Devsa (113)	7174.28		0
106	012554	Dhar Noor (114)	8648.97		0
107	012555	Dhar Kilung (115)	4728.39		0
108	012565	Dhar Tarpak (125)	2097.35		0
109	012567	Dhar Sarval (127)	1610.64		0
110	012576	Dhar Mallam (133)	1869.12		0
111	012550	Dhar Togseluganwa (110)	2294.70		0
112	012549	Dhar Changlung (109)	1241.50		0
113	012546	Thango (106/4)	44.62		0
114	012552	Dhar Khamengar (112)	9840.42		0
115	012551	Dhar Thango (111)	8888.59		0
116	012545	Shaktan (106/3)	119.65		0
117	012548	Dhar Rajgaon (108)	556.09		0
118	012542	Rajgaon (105)	110.34		0
119	012541	Dhar Gechang (104)	1393.97		0
120	012477	Dhar Ghiundi (50)	33124.32		0
121	012613	Dharsochin (157)	15199.01		0
122	012521	Dhar Ratang (84)	23979.00		0
123	012575	Haronaro (132)	29.32		0

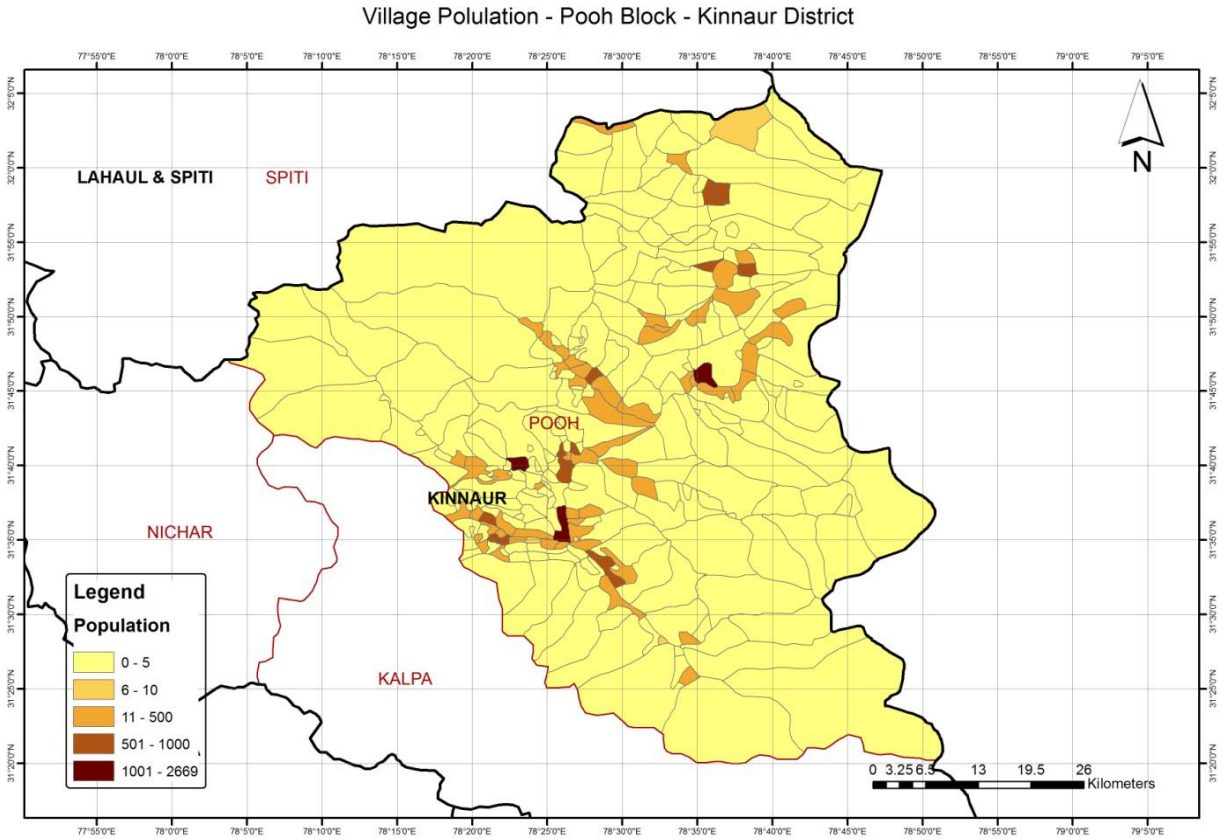
S#	Code	Village Name	Area (Ha.)	Households	Population
124	012574	Chamling (131)	37.19	5	15
125	012592	Dhar Lungje (148)	7063.84		0
126	012524	Dhar Ula (87)	8387.67		0
127	012510	Dhar Keuling (75)	2416.31		0
128	012625	Dhar Gangchhumi (165)	5431.12	1	1
129	012626	Landupdeen (166)	64.03		0
130	012597	Newpur (149/5)	10.24	1	3
131	012596	Shichling (149/4)	125.72	30	89
132	012599	Dhar Nipti (150)	3451.68		0
133	012476	Dhar Pangmo (49)	2576.25		0
134	012483	Dhar Panya (54)	4152.73		0
135	012484	Dhar Farah (55)	1245.23		0
136	012487	Dumley (57)	233.56		0
137	012486	Ladarcha (56/2)	389.94		0
138	012482	Dhar Laterse (53)	823.16		0
139	012480	Jugmothang (52/2)	445.88		0
140	012479	Pangmo Khas (52/1)	290.44	28	138
141	012478	Hull (51)	385.34	48	153
142	012481	Chigjar (52/3)	299.27		0
143	012485	Chicham Khas (56/1)	238.37	85	358
144	012488	Dhar Chicham (58)	1684.50		0
145	012489	Dhar Hal (59)	361.04		0
146	012490	Dhar Yakya (60)	608.80		0
147	012491	Kibber Khas (61/1)	465.18	77	366
148	012492	Pinjoor (61/2)	168.43	15	47
149	012518	Dhar Tumserisha Doksa (81)	762.73		0
150	012517	Morang (80)	373.21	11	81
151	012519	Dhar Sumling (82)	1054.22		0
152	012520	Dhar Lamanduba (83)	610.41		0
153	012516	Sumling (79)	513.16	16	79
154	012494	Gettey (62/2)	100.99	8	26
155	012515	Khurik (78)	274.30	41	159
156	012493	Kee (62/1)	492.72	69	367
157	012571	Dhar Pilsur (129)	2113.84		0
158	012568	Mud (128/1)	77.55	45	213
159	012569	Pharka (128/2)	86.20		0
160	012570	Kilmoor (128/3)	81.38		0
161	012573	Pilsur (130/2)	118.35		0
162	012582	Phika (139)	16.48		0
163	012572	Teling (130/1)	143.48	41	184
164	012584	Todnam (141)	65.06	11	58
165	012547	Dhar Tisang (107)	3453.22		0
166	012544	Takshan (106/2)	144.00		0
167	012585	Khar (142)	361.48	31	121
168	012586	Dhar Magling (143)	740.30		0
169	012583	Dhar Charasa (140)	1985.14		0
170	012587	Dhar Lalung (144)	1266.96		0
171	012588	Dul (145)	200.00		0
172	012543	Sagnam (106/1)	126.16	84	432

S#	Code	Village Name	Area (Ha.)	Households	Population
173	012535	Mikam (98)	28.31	7	24
174	012536	Phukchung (99)	151.56	6	20
175	012537	Ka (100)	174.03	5	29
176	012534	Kungri (97)	178.26	41	256
177	012533	Uperla Guling (96)	54.26	11	64
178	012528	Guling (91)	64.98	28	139
179	012538	Minsar (101)	104.13	3	9
180	012539	Polole (102)	48.85		0
181	012540	Dhar Kidul (103)	7197.58		0
182	012532	Kong Kong (95)	114.19	2	13
183	012529	Barpa (92)	122.30	32	177
184	012589	Tangti Kogma (146/1)	307.17	21	100
185	012527	Shilling (90)	103.32	9	42
186	012591	Dhar Phua (147)	2157.98		0
187	012595	Siluk (149/3)	70.23	4	29
188	012594	Shushna (149/2)	95.90	7	29
189	012593	Dhankhar (149/1)	643.10	68	301
190	012598	Samling (149/6)	240.23	2	10
191	012601	Tulse Pena (151/2)	13.65		0
192	012531	Dhar Chhau (94)	1132.95		0
193	012530	Dhar Chaling (93)	1037.49		0
194	012590	Tangti Yogma (146/2)	148.00	20	93
195	012526	Chhidang (89)	106.48	3	14
196	012525	Dhar Jong (88)	2244.19		0
197	012523	Dhar Pindo (86)	1433.38		0
198	012522	Dhar Dangdagma (85)	3105.89		0
199	012604	Lingti (152/2)	14.91	11	48
200	012603	Chobrang (152/1)	58.71	3	12
201	012605	Sanglung (153)	70.16	3	14
202	012507	Lidang (72)	359.75	21	100
203	012505	Lara Khas (71/1)	221.22	13	65
204	012611	Tishu (155/5)	13.00		0
205	012606	Kunge (154)	133.50		0
206	012608	Gangdo Demul (155/2)	184.00	2	7
207	012607	Demul Khas (155/1)	165.00	52	279
208	012609	Mulche (155/3)	99.20	1	7
209	012610	Rizing (155/4)	280.76		0
210	012612	Dhartak Damdam (156)	6677.51		0
211	012514	Yarango Rangarik (77/2)	423.50	32	168
212	012513	Marango Rangarik (77/1)	477.50	120	781
213	012512	Neked (76/2)	161.43		0
214	012511	Kuang Khas (76/1)	173.40	7	27
215	012503	Kaza Soma (70/2)	135.10	253	1027
216	012502	Kaza Khas (70/1)	223.56	207	667
217	012509	Keuling (74)	195.20	21	98
218	012506	Shego (71/2)	350.45	17	91
219	012504	Kagti (70/3)	8.66	1	5
220	012501	Komik (69)	129.00	15	130
221	012508	Dhar Lung Wooh (73)	6889.26		0

S#	Code	Village Name	Area (Ha.)	Households	Population
222	012497	Dhar Lama Chung Chung (65)	649.20		0
223	012498	Langja (66)	421.80	32	158
224	012500	Hikam (68)	104.33	39	195
225	012495	Tashi Gang (63)	69.51	6	40
226	012496	Thinam (64)	220.68		0
227	012499	Dhar Chhon Chhon Kanghilda (67)	9450.97		0
228	012640	Tabo (174/1)	230.77	135	592
229	012581	Dharyansa (138)	60.56		0
		Total	**705245.36**	**2583**	**12457**

3.2 Profile: Development Block Pooh - District Kinnaur

Pooh is a Developmental Block in the Kinnaur District of Himachal Pradesh. Total area of Pooh is about 336516.98 hectares. Pooh has a population of 23,206 peoples. There are about 277 revenue villages and 5471 houses in Pooh block.



Map 3.3: Villages of Pooh Block – District Kinnaur

S#	Code	Village Name	Area (Ha.)	Households	Population
1	026922	D.P.F.C-227 (32)	468.75	0	0
2	026722	Dhar Yang Pochhe (31)	2435.00	0	0
3	026723	Dhar Pijong (32)	3106.31	0	0
4	026721	Thang Karma (29/4)	1555.00	3	6
5	026720	Dhar Demchu (33)	1186.69	0	0
6	026718	Dhar Kukri (40)	1599.00	0	0
7	026719	Dhar Liyosu (34)	1098.00	0	0
8	026715	Dhar Langtharkheyu (44)	1372.00	0	0

S#	Code	Village Name	Area (Ha.)	Households	Population
9	026716	Dhar Harmi (43)	2080.00	0	0
10	026717	Dhar Phu (41)	2770.00	0	0
11	026726	Dhar Mandasa (39)	1202.00	0	0
12	026725	Shalkar (35/1)	329.05	111	416
13	026724	Dhar Kawe(30)	7293.69	0	0
14	026730	Dhar Chango Uperla (29/1)	269.00	162	797
15	026729	Changjam (35/2)	178.85	0	0
16	026727	Dhar Dugona (38)	1314.62	0	0
17	026728	Dhar Yungdang (36)	1276.00	0	0
18	026731	Dhar Chango Nichla (29/2)	388.80	160	634
19	026732	Dhar Kumsa (28)	3929.00	0	0
20	026733	Dhar Pargira (26)	3596.00	0	0
21	026735	Hemi (20/3)	19.00	0	0
22	026748	Dhar Shansar (25)	1607.00	0	0
23	026736	Liti (29/3)	35.25	2	4
24	026734	Dhar Khirpichi (27)	2992.00	0	0
25	026739	Dhar Choniti (42)	1683.00	0	0
26	026740	Dhar Bhajang (15)	1181.00	0	0
27	026738	Dhar Lauechhe (37)	1504.00	0	0
28	026737	Yulang (35/3)	260.73	0	0
29	026743	Dhar Karsi (16)	768.00	0	0
30	026771	Dhar Manela (50)	24363.41	0	0
31	026868	Dhar Tepang (2)	9486.00	0	0
32	026870	Dhar Gunjang (3)	6563.00	0	0
33	026869	Shuti Garang (8)	4502.00	0	0
34	026871	Dhar Wari (5)	9315.00	0	0
35	026872	Becho Thach (7/4)	15.00	0	0
36	026873	Dhar Bhang Mochhe (1)	4839.00	0	0
37	026876	Dhar Kagte (4)	1924.00	0	0
38	026875	Fulang Thach (7/5)	12.00	0	0
39	026874	Dhar Shyangla (9)	2848.00	0	0
40	026772	Dhar Larsa Niyowal (51)	15258.85	0	0
41	026773	Up Mohal Thoropa (43/2)	298.32	31	31
42	026776	D.P.F.C-205 (42)	166.34	0	0
43	026775	Up Mohal Ropakhas (43/1)	217.73	100	349
44	026778	D.P.F.C-204 (44)	26.76	0	0
45	026774	Dhar Chang Guar Guar (49)	2142.01	0	0
46	026777	Up Mohal Sumtat (43/3)	145.35	27	103
47	026779	Up Mohal Shive (39/4)	157.84	0	0
48	026780	D.P.F.C-201 (47)	9.51	0	0
49	026783	D.P.F.C-202 (46)	9.64	0	0
50	026785	Up Mohal Giabong Khas (39/1)	224.54	89	285
51	026784	D.P.F.C-203 (45)	43.37	0	0
52	026782	Up Mohal Charti (39/5)	1471.23	0	0
53	026786	Up Mohal Giabong Parla (39/3)	101.52	55	216
54	026789	D.P.F.C-206 (41)	12.72	0	0
55	026788	D.P.F.C-207 (40)	26.66	0	0
56	026787	D.P.F.C-208 (11)	181.24	0	0
57	026795	Up Mohal Rush Kulang (13/1)	204.04	74	316

S#	Code	Village Name	Area (Ha.)	Households	Population
58	026790	Up Mohal Jang Phachho (39/2)	3969.80	0	0
59	026877	Dhar Kyari (6)	1181.00	0	0
60	026878	Porang Kanda (7/3)	193.00	0	0
61	026879	Tokto (7/2)	247.00	46	175
62	026880	Dhar Mateng (10)	1568.00	0	0
63	026892	Asrang Khas (7/1)	297.00	84	338
64	026881	Dhar Begulum (18)	361.00	0	0
65	026891	D.P.F- C 218 (11)	29.00	0	0
66	026893	D.P.F. C-219(B) (12)	24.00	0	0
67	026894	D.P.F .C-219(A) (13)	73.00	0	0
68	026890	Lapo (16/2)	332.00	5	24
69	026889	D.P.F.C-217 (17)	100.00	0	0
70	026888	D.P.F.C-220 (15)	18.00	0	0
71	026882	Dangrang Kanda (16/3)	598.00	0	0
72	026884	Changmang (16/4)	19.00	0	0
73	026883	Dhar Changmang (19)	4065.00	0	0
74	026865	Dhar Chamangti (86)	1.26	0	0
75	026866	Dhar Lung Kurkur (83)	2778.70	0	0
76	026864	Jagechan (78/7)	2.24	0	0
77	026867	Dhar Lawar (82)	3448.69	0	0
78	026861	Dhar Rothen (81)	4999.14	0	0
79	026991	Dhar Gunrang (74)	6335.90	0	0
80	026990	Dhar Mangla (58)	8214.66	0	0
81	026984	Dhar Dulmnish (75)	3252.97	0	0
82	026989	Dhar Chang kuche (57)	5023.15	0	0
83	026986	Charang Khas (59/1)	155.94	57	182
84	026987	Gigu Lang (59/2)	161.43	0	0
85	026988	Wevgya (59/3)	64.70	0	0
86	026983	Dhar Shilachh (72)	1496.21	0	0
87	026981	Kuno Khas (60/1)	250.13	29	94
88	026982	Kota (60/2)	126.13	0	0
89	026979	Surting Ting (59/4)	18.41	1	7
90	026977	Dhar Lalanti (56)	5180.69	0	0
91	026974	Dhar Gara (47)	2434.76	0	0
92	026975	Dhar Sunkham (54)	4487.94	0	0
93	026976	Dhar Parmati (55)	1251.94	0	0
94	026959	Lambar (53/3)	786.00	26	135
95	026978	Kyarbo (60/3)	373.34	0	0
96	026958	Dhar Wishrang (69)	1590.54	0	0
97	026980	Dhar Shangchawal (71)	1912.61	0	0
98	026957	Dhar Lochhas (70)	3631.56	0	0
99	026973	Dhar Kushkar (46)	3926.64	0	0
100	026962	Pibbar (53/2)	316.40	0	0
101	026963	D.P.F.C-194 (52)	124.80	0	0
102	026961	Thangi Khas (53/1)	388.65	132	636
103	026960	D.P.F.C-195 (62)	3.25	0	0
104	026953	Swaling (53/4)	345.33	10	41
105	026952	D.P.F.C-196 (61)	57.65	0	0
106	026956	Dhar Yamdaling (76)	4381.00	0	0

S#	Code	Village Name	Area (Ha.)	Households	Population
107	026955	Dhar Khayo (80)	3909.61	0	0
108	026859	Khadi (78/6)	14.12	0	0
109	026860	Dhar Tipung (77)	2159.88	0	0
110	026853	Nesang Khas (78/1)	455.21	99	371
111	026854	Shaktang (78/3)	843.53	0	0
112	026855	Dhar Doge (79)	791.03	0	0
113	026856	Gyamting (78/4)	96.91	0	0
114	026858	Piana (78/5)	48.55	0	0
115	026857	Dhar Warchha (89)	2884.51	0	0
116	026862	Dhar Lungpha (88)	1843.93	0	0
117	026863	Dhar Joganchan (87)	2102.19	0	0
118	026849	Dhar Yurfuk (23)	4577.52	0	0
119	026850	Dhar Rishi (24)	2872.35	0	0
120	026839	Dhar Thunsa (28)	2529.37	0	0
121	026837	Dhar Dulse Thang (33)	1981.82	0	0
122	026838	Up Mohal Dulse Thang (30/5)	863.00	0	0
123	026840	Up Mohal Yangti Kanda (30/4)	359.25	0	0
124	026835	Dhar Yangusa (34)	1994.09	0	0
125	026834	Dhar Chhopan (36)	2584.01	0	0
126	026832	Up Mohal Tashi Gang (35/3)	531.20	23	88
127	026830	Up Mohal Namgia Kanda (35/2)	230.30	1	4
128	026831	Up Mohal Namgia Khas (35/1)	469.80	89	326
129	026833	Dhar Potal (37)	3063.63	0	0
130	026770	Dhar Kila (23)	1128.00	0	0
131	026769	Dhar Lalosa (24)	924.00	0	0
132	026747	Malling (20/1)	313.40	79	344
133	026749	Nako (21/1)	282.65	128	572
134	026768	Dhar Lahyok (22)	407.00	0	0
135	026750	Yangthang (21/2)	423.90	21	45
136	026746	Malling Dogri (20/2)	119.40	2	4
137	026741	Dhar Lipak (14)	2051.00	0	0
138	026742	Dhar Jabar (13)	2313.00	0	0
139	026744	Dhar Chara Thang (17)	949.00	0	0
140	026745	Dhar Khakrash (18)	1102.00	0	0
141	026751	Leo (19/1)	269.00	161	784
142	026752	Shuni (19/2)	119.00	0	0
143	026754	Dhar Dumdumthang (12)	1000.00	0	0
144	026753	Dhar Thana (11)	1340.00	0	0
145	026755	Dhar Pegdu (5)	703.00	0	0
146	026757	Dhar Potali (6)	1081.00	0	0
147	026758	Dhar Chang Chimo (10)	2713.00	0	0
148	026756	Dhar Biepuche (4)	1953.00	0	0
149	026762	Hangmat (7/2)	273.00	42	163
150	026761	Dung (19/3)	18.00	22	81
151	026760	Hango (7/1)	229.92	78	275
152	026759	Chang Chimo (9)	425.00	0	0
153	026764	Chuling (8)	348.91	60	270
154	026797	Up Mohal Chelit Kanda (15/3)	853.06	0	0
155	026796	Up Mohal Sunam Khas (15/1)	156.95	143	594

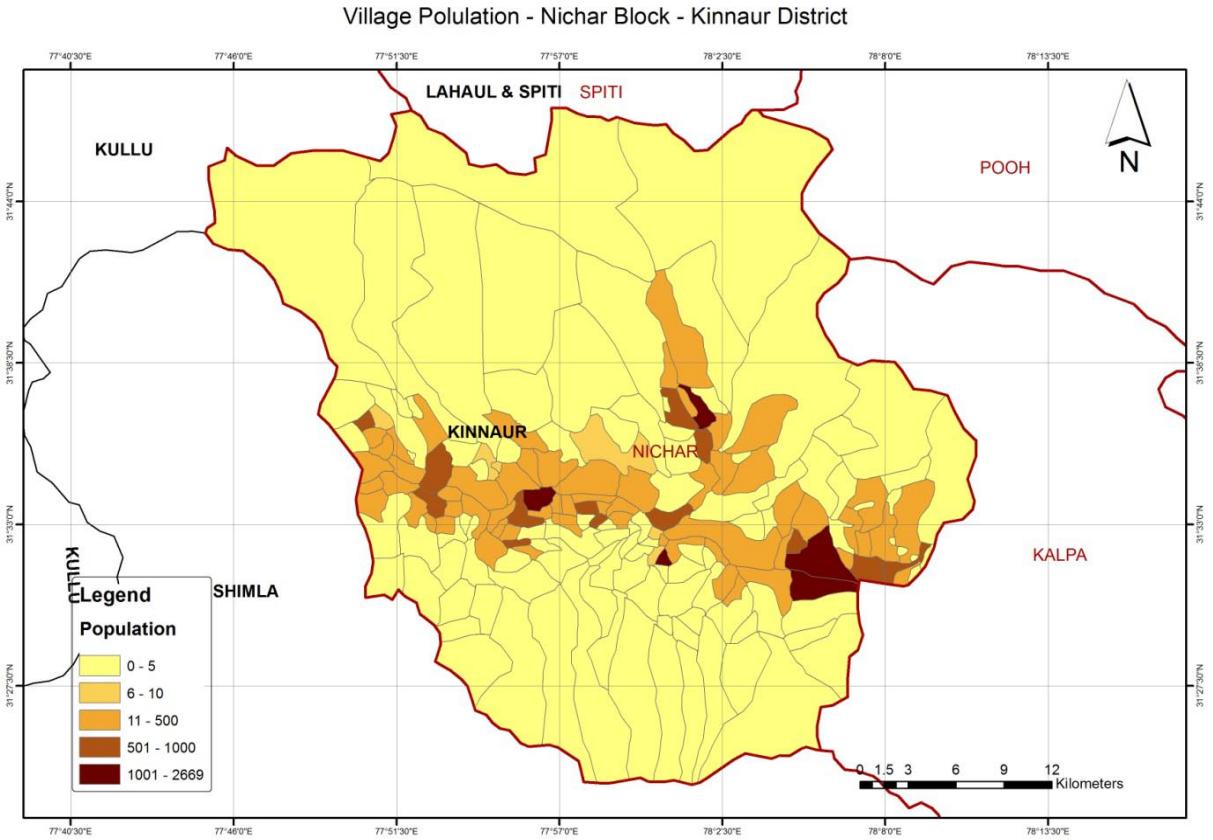
S#	Code	Village Name	Area (Ha.)	Households	Population
156	026794	Up Mohal Taling (13/2)	94.75	15	56
157	026793	D.P.F.C-209 (12)	79.60	0	0
158	026800	D.P.F.C-210 (14)	107.15	0	0
159	026792	Up Mohal Brati Kanda (13/3)	195.05	0	0
160	026791	Dhar Khabai (10)	1384.79	0	0
161	026767	Ka (21/3)	837.00	17	26
162	026766	Dhar Lambrafa (1)	1311.00	0	0
163	026765	Dhar Lasangthang (2)	932.00	0	0
164	026763	Dhar Pusang Dang (3)	1961.00	0	0
165	026827	Dhar Dolma (38)	2409.72	0	0
166	026828	Up Mohal Chakulang (31/6)	12.71	0	0
167	026829	Up Mohal Khabo (32/1)	611.51	17	97
168	026841	Up Mohal Dubling (30/1)	312.68	105	436
169	026844	Up Mohal Dabling (30/2)	396.32	13	34
170	026843	D.P.F.C-199 (29)	23.14	0	0
171	026842	Mohal Bali Dhar (27)	1796.30	0	0
172	026847	Dhar Maryul (25)	450.47	0	0
173	026846	Up Mohal Rishi Kanda (30/3)	878.69	0	0
174	026845	D.P.F.C-198 (26)	35.30	0	0
175	026825	Up Mohal Poo (31/1)	395.82	324	2047
176	026824	Up Mohal Labrang (31/2)	51.34	73	243
177	026826	Up Mohal Doling Kanda (31/4)	113.17	0	0
178	026823	Up Mohal Danmochhe (31/3)	283.26	101	257
179	026822	Up Mohal Rizing Kanda (31/5)	795.29	0	0
180	026848	Dhar yang Dogsa (22)	2306.60	0	0
181	026852	Dhar Piwung (90)	1709.48	0	0
182	026818	Dhar Dumba (20)	1991.67	0	0
183	026817	Dhar Gyabyum (21)	1669.99	0	0
184	026851	Horang Pawa (78/2)	426.92	13	36
185	026915	Samodpan Kanda (65)	766.59	0	0
186	026913	Dhar Shiling Khona (66)	1946.93	0	0
187	026914	Nakal Kuwa (64/7)	204.57	0	0
188	026918	Gramang (64/6)	161.38	119	489
189	026917	Thuwaring (64/5)	344.14	70	339
190	026950	Shurboo Kanda (64/4)	155.07	0	0
191	026949	Shiling Khas (64/1)	157.57	140	489
192	026916	Dhar Timchhe (67)	1400.64	0	0
193	026951	Roowang (64/3)	270.09	35	141
194	026948	D.P.F.C-197 (63)	41.68	0	0
195	026947	Khokpa (64/2)	250.87	78	373
196	026972	Dhar Panah (45)	3286.27	0	0
197	026798	Up Mohal Khad Makha (15/4)	1757.28	0	0
198	026821	Dhar Aye (19)	1948.00	0	0
199	026820	Dhar Chho (18)	847.07	0	0
200	026819	Up Mohal Shyaso (17)	712.21	30	110
201	026799	Dhupak (15/2)	339.27	5	17
202	026801	Up Mohal Chelit (16)	1562.81	5	24
203	026802	Dhar Binathang (8)	2544.38	0	0
204	026816	Up Mohal Gyamil (6/4)	1077.71	6	25

S#	Code	Village Name	Area (Ha.)	Households	Population
205	026815	Up Mohal Kanam Nichla (6/2)	249.87	85	360
206	026814	D.P.F.C-211 (7)	82.92	0	0
207	026803	Up Mohal Shurpu (6/3)	270.09	0	0
208	026804	Up Mohal Tapang Kanda (3/3)	129.50	0	0
209	026806	D.P.F.C-212 (5)	30.74	0	0
210	026812	D.P.F.C-213 (4)	97.43	0	0
211	026813	Up Mohal Kanam Khas (6/1)	77.70	115	527
212	026808	Up Mohal Namkalang (3/2)	71.92	7	15
213	026807	Up Mohal Labrang Khas (3/1)	90.89	139	585
214	026805	Dhar Mandal Gurunag (9)	1350.99	0	0
215	026809	Up Mohal Foche (1/2)	156.12	0	0
216	026810	D.P.F.C-214 (2)	179.45	0	0
217	026811	Up Mohal Spiloo Khas (1/1)	455.36	203	757
218	026964	D.P.F.C-193 (51)	271.15	0	0
219	026966	Asno Kanda (48/8)	629.58	0	0
220	026967	Up Muhal Cherang Kanda (48/7)	287.63	0	0
221	026968	Panah Kanda (48/6)	424.16	0	0
222	026971	Kurpo (40/5)	222.89	5	16
223	026970	Chang Kuwa (48/5)	16.50	0	0
224	026969	D.P.F. C -189 -190 (49)	305.97	0	0
225	026965	D.P.F.C-191-192 (50)	243.47	0	0
226	026945	Rispa Khas (48/1)	122.98	103	492
227	026946	Lijing (48/2)	100.32	6	19
228	026944	Up Muhal Holdo (48/3)	30.26	2	6
229	026942	Skiba (48/4)	96.40	74	253
230	026943	Akpa Khas (33/1)	306.40	125	470
231	026936	Dhar Puranga	237.53	0	0
232	026935	Dhar Jeshtharang (44)	448.53	0	0
233	026937	Bato (40/6)	186.04	6	11
234	026932	D.P.F.C-186 (43)	272.98	3	24
235	026933	Sirmoling (40/8)	29.44	1	1
236	026931	D.P.F.C- 187 (41)	181.95	0	0
237	026934	Chhuyian (40/7)	109.03	4	5
238	026940	Ribba Khas (40/1)	48.88	235	894
239	026938	D.P.F.C-188 (42)	128.58	3	3
240	026941	Holdang (40/4)	123.96	133	556
241	026939	Kutian (40/3)	40.17	60	214
242	026930	Paranga (40/2)	196.41	20	67
243	026927	Khadura (34/2)	226.91	54	290
244	026929	Rarang Khas (34/1)	139.83	165	848
245	026902	Swaden (34/7)	251.63	28	142
246	026900	Sheelapur (34/6)	169.75	21	103
247	026901	D.P.F.C-230 (37)	34.02	0	0
248	026899	D.P.F.C-231 (38)	92.36	0	0
249	026898	D.P.F C -232 (39)	193.06	0	0
250	026897	Saring (34/5)	358.21	0	0
251	026896	Gyangra (34/4)	830.05	0	0
252	026928	D.P.F.C-229 (36)	221.36	0	0
253	026903	Dhar Gongra (35)	479.87	0	0

S#	Code	Village Name	Area (Ha.)	Households	Population
254	026895	Dhar Urang (14)	1051.00	0	0
255	026925	Satera (34/3)	219.57	0	0
256	026924	Ringchil Kanda (33/2)	51.91	0	0
257	026926	D.P.F.C-228 (31)	296.03	0	0
258	026923	Dhar Jubling (30)	580.00	0	0
259	026887	Lippa Khas (16/1)	375.00	280	1161
260	026885	D.P.F. C-216 (20)	33.00	0	0
261	026886	Chakra (16/5)	270.00	0	0
262	026906	D.P.F.C -221 (22)	84.00	0	0
263	026907	D.P.F.C-222 (23)	157.00	0	0
264	026904	Dhar Khatij (29)	734.00	0	0
265	026905	Chhappan (28/4)	159.00	0	0
266	026909	D.P.F.C-223 (25)	176.00	0	0
267	026908	Rijing (28/3)	27.00	1	22
268	026910	D.P.F.C-225 (24)	65.00	1	3
269	026911	D.P.F.C-215 (21)	241.00	0	0
270	026912	Kutang (28/2)	283.00	0	0
271	026919	Jangi Khas (28/1)	499.00	209	1175
272	026920	D.P.F.C-224 (26)	112.00	0	0
273	026921	D.P.F.C-226 (27)	210.00	0	0
274	026714	Sumra (45)	225.00	65	238
275	026781	D.P.F.C-200 (48)	32.40	0	0
276	026836	Up Mohal Thunsa Kanda (32/2)	13.66	0	0
277	026985	Dhar Brati (73)	4611.54	0	0
		Total	**336516.98**	**5471**	**23206**

3.3 Profile: Development Block Nichar - District Kinnaur

Nichar is a development block in the Kinnaur District of Himachal Pradesh. Total area of Nichar is 118621.15 hectares. Nichar has a population of 27,683 peoples. There are 6,681 houses in the sub-district. There are about 188 revenue villages in Nichar block.



Map 3.4: Villages of Nichar Block – District Kinnaur

S#	Code	Village Name	Area (Ha.)	Households	Population
1	027139	Linge (31/6)	124.71	19	71
2	027113	Neugal Dhar (24)	12005.00	0	0
3	027123	Thuskeo Dhar (25)	9682.00	0	0
4	027076	Dhar Taal (4)	9485.79	0	0
5	027091	Kumrang Dhar (5)	3714.63	0	0
6	027092	Dhar Barke (11)	4192.00	0	0
7	027100	Dhar Phopal (12)	6452.42	0	0
8	027077	Galding (1/1)	690.39	0	0
9	027078	Shamnu (1/3)	210.28	0	0
10	027079	Majhgaon (1/2)	65.00	142	584
11	027088	D.P.F. Rupi Shorang Doyam Bhag 98 (3)	74.97	0	0
12	027090	D.P.F. Bada Kamba C 97 (6)	29.42	0	0
13	027089	Shorang (7/1)	326.28	36	111
14	027098	Tiche (7/2)	276.93	0	0
15	027086	Tinrang (1/6)	594.43	0	0
16	027087	D.P.F. Rupi Shorang Awal (2)	4.40	0	0
17	027080	Nainsaring (1/5)	154.19	2	6
18	027081	Shagarcha (1/4)	102.43	52	207
19	027082	Dabling (1/7)	158.94	21	77
20	027085	Hurba (1/8)	127.52	24	121
21	027083	Pashpa (1/9)	397.44	10	29
22	027084	Burang (1/10)	262.34	33	150
23	027176	Kafaur (37/2)	124.68	47	213
24	027175	Chaura (37/1)	182.85	86	355
25	027099	Bara Kamba (7/3)	429.25	135	564

S#	Code	Village Name	Area (Ha.)	Households	Population
26	027122	Sharoongch Dhar (26)	3820.00	0	0
27	027121	Masrang (30/4)	768.00	5	18
28	027115	Homte (30/2)	220.00	36	160
29	027114	Shaling Dhar (23)	1679.00	0	0
30	027116	D.P.F.Kampurang C-90 (29)	13.00	0	0
31	027117	Kafnu (30/1)	320.00	205	824
32	027120	Huri (30/3)	52.00	41	185
33	027119	Yangpa (30/6)	158.00	280	1274
34	027118	Marpuling (30/5)	186.00	0	0
35	027107	Regegurgur Dhar (22)	1644.42	0	0
36	027101	D.P.F.C.-94 (13)	638.78	0	0
37	027109	Saak Kanda (21)	259.95	0	0
38	027108	Yongrang Dhar (20)	690.08	0	0
39	027124	Chhirem (30/8)	281.76	1	4
40	027127	Katgaon (30/7)	154.42	224	704
41	027128	Karaba (30/13)	196.54	56	260
42	027129	Pandoshwar Dhar (27)	5680.20	0	0
43	027130	Surcho (30/14)	714.22	20	73
44	027131	D.P.F.Dutrang C-89 (28)	74.61	0	0
45	027132	Shango (30/12)	175.20	104	396
46	027135	Kangarang (30/15)	603.88	9	40
47	027216	Kangarang (91/ 7)	236.93	0	0
48	027221	Chatrang Dhar (97)	685.42	0	0
49	027226	Rora Kanda (103)	2925.65	0	0
50	027220	Shakhar Dhar (96)	794.86	0	0
51	027227	Shunathachang Dhar (98)	438.52	0	0
52	027241	Rukchawal Dhar (109)	2052.48	0	0
53	027233	Yuldang (102/2)	262.59	0	0
54	027232	Yulla Khas (102/1)	353.57	105	429
55	027231	D.P.F.Baragdo C-253 (101)	15.31	0	0
56	027235	D.P.F.Bargde C-252 (105)	45.35	0	0
57	027243	D.P.F.Runang C-248 (110)	136.10	0	0
58	027242	Runang Uperla (111)	225.91	0	0
59	027244	Runang Nichla (104/4)	283.53	63	231
60	027245	Cholling (104/2)	217.60	118	514
61	027239	D.P.F.Kashtee C-249 (108)	144.00	0	0
62	027234	Kutano (100/2)	207.14	118	507
63	027240	Ghumaruning (104/3)	875.00	14	78
64	027238	D.P.F.Balaey C-250 (107)	3.42	0	0
65	027236	D.P.F.Tilchoka C-251 (106)	8.27	0	0
66	027237	Meeru Khas (104/1)	222.65	105	471
67	027230	Urni Khas (100/1)	74.74	108	500
68	027229	Rall Santhang (100/3)	209.31	13	57
69	027222	Urabaning (91/2)	71.64	16	87
70	027228	D.P.F.-Rachmanang C-254-255 (99)	103.19	0	0
71	027259	Dulgi Dhar (85)	2551.05	0	0
72	027260	Solah Dhar (88)	795.92	0	0
73	027261	Punang Kanda (90/2)	93.75	0	0
74	027262	D.P.F.Punang 133-136 (89)	513.53	0	0

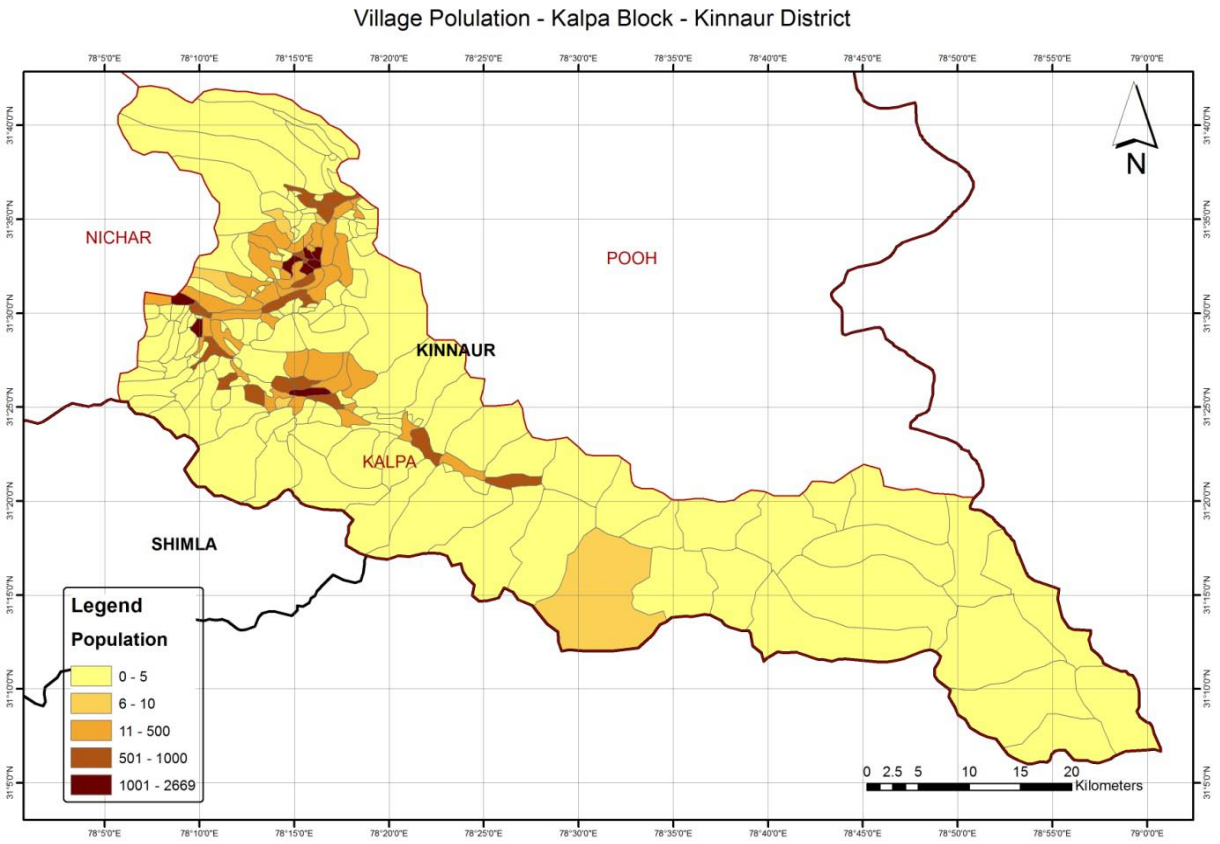
S#	Code	Village Name	Area (Ha.)	Households	Population
75	027263	Punang Khas (90/1)	152.88	251	1282
76	027258	Chhal Patri Dhar (84)	880.55	0	0
77	027256	Kalingo (86/2)	139.53	0	0
78	027255	D.P.F.Jani-131-132 A.B (87)	316.18	0	0
79	027257	Upat Dhar (82)	1024.69	0	0
80	027251	Boring Chot Dhar (80)	1340.89	0	0
81	027252	Roshang Dhar (81)	309.00	0	0
82	027253	Morang Kanda (75/4)	343.05	0	0
83	027212	Atang Melang Dhar (79)	1519.71	0	0
84	027211	Baltha Chang Dhar (78)	79.56	0	0
85	027223	Tapri (91/3)	459.11	284	1085
86	027219	Raag Panung (91/4)	347.18	45	191
87	027224	Dharmaling (91/1)	49.11	208	924
88	027225	Yashang (91/5)	70.10	58	296
89	027248	Jani (86/1)	407.40	112	414
90	027254	D.P.F Ramni (83)	501.91	0	0
91	027249	Ramni Khas (75/1)	157.82	92	427
92	027250	Shuthanang (75/3)	201.41	3	16
93	027246	D.P.F. Kangsthal 128 B,129 (76)	287.46	0	0
94	027247	Kagsthal (75/2)	97.48	3	17
95	027210	Tando Nusko Dhar (77)	408.00	0	0
96	027209	D.P.F.1(C)-128 A (74)	178.18	0	0
97	027208	D.P.F.- C 127 (73)	124.67	0	0
98	027207	D.P.F.- C 126 (72)	182.91	0	0
99	027197	Bhum Talas Dhar (66)	1528.32	0	0
100	027196	Mohal Nishvasingh (65)	261.20	0	0
101	027167	Chhayuda Dhar (54)	1259.00	0	0
102	027149	Deya Dhar (64)	511.16	0	0
103	027172	Sarik Dhar (53)	1498.77	0	0
104	027171	Monilaat Dhar (51)	875.21	0	0
105	027195	Devli Dhar (50)	456.04	0	0
106	027194	Bahal Dhar (49)	182.77	0	0
107	027193	Bagantu Dhar (47)	434.44	0	0
108	027191	Gundali Tirmi Dhar (48)	422.75	0	0
109	027179	Sarkund Dhar (39)	487.41	0	0
110	027190	Phulyari Dhar (40)	558.09	0	0
111	027177	Shilani (37/3)	260.03	41	202
112	027178	D.P.F-68 A,B,C (38)	638.92	0	0
113	027180	D.P.F.69,70(A,B) (41)	494.64	0	0
114	027189	D.P.F. Bore C (71 A) (42)	354.59	0	0
115	027181	Tikrang (36/5)	76.90	4	11
116	027174	Thachh (36/7)	156.05	30	101
117	027173	Nigul Sari (36/6)	144.66	213	784
118	027184	Karape (36/2)	115.79	23	73
119	027183	Nanaspo (36/3)	59.87	65	261
120	027182	Chhonda (36/4)	97.39	30	94
121	027188	D.P.F-Kutange C(71 B) (43)	157.90	0	0
122	027187	D.P.F-72 (A) (44)	69.46	0	0
123	027185	Tranda (36/1)	309.77	66	249

S#	Code	Village Name	Area (Ha.)	Households	Population
124	027186	D.P.F-72(B) (45)	72.93	0	0
125	027192	D.P.F-73 C (46)	386.06	0	0
126	027097	Chhota Kamba (8/2)	384.97	107	401
127	027096	D.P.F.Chhota Kamba Abol C-95 (9)	7.50	0	0
128	027095	Basharang (8/1)	112.50	3	8
129	027102	Salaring (14/4)	226.40	8	28
130	027093	Gharshu (14/1)	363.99	43	155
131	027103	Bayude (14/3)	228.11	0	0
132	027104	Rock Charang (14/2)	228.48	16	56
133	027105	Kachrang (14/5)	254.19	46	160
134	027106	D.P.F.C-93 Dangrang Kachrang (15)	534.90	0	0
135	027110	D.P.F.C-92 (18)	1203.98	3	6
136	027112	Nathpa (16)	462.27	87	356
137	027111	Kandar (17)	646.42	56	186
138	027126	Yotrang (30/9)	204.56	0	0
139	027125	D.P.F.Yati C-91 (19)	581.57	0	0
140	027133	Baiyee (30/10)	163.62	30	136
141	027215	D.P.F.Kangarang C-87 A,88 B (92)	317.07	0	0
142	027214	D.P.F.C - 258 B Tiyudang (94)	146.23	0	0
143	027217	D.P.F.Tilchang C-256,257-258A (95)	120.42	0	0
144	027218	Shakamrang (91/6)	455.06	24	118
145	027213	Yashang Dhar (93)	1033.15	7	92
146	027134	Rarang (30/11)	393.58	37	793
147	027205	Panwi Khas (67/1)	299.76	226	1342
148	027201	Burcha (67/3)	62.93	53	151
149	027151	Paring Khor (31/1)	139.97	2	10
150	027202	D.P.F.-85 (69)	34.34	0	0
151	027145	D.P.F.-83 (62)	60.29	0	0
152	027200	D.P.F.-84 (68)	115.03	0	0
153	027198	Shaling Dhar (67/4)	491.72	0	0
154	027206	D.P.F.-86 B (71)	74.43	0	0
155	027204	D.P.F.-86 A (70)	81.51	1	9
156	027199	Phaktayowar Dhar (67/5)	308.22	0	0
157	027148	Chhot Kanda (31/3)	472.06	0	0
158	027150	Somo (31/2)	134.26	0	0
159	027166	D.P.F.-74 (52)	643.93	0	0
160	027165	Rawa (35/5)	113.84	0	0
161	027159	Solding (35/1)	285.03	33	155
162	027160	Palingi (34/1)	89.88	176	463
163	027161	Ponda (34/2)	49.58	47	172
164	027162	Ralpa (34/3)	77.23	32	118
165	027163	Change (35/2)	84.79	154	584
166	027164	Gramang (35/4)	71.67	98	393
167	027169	Rango (35/3)	114.07	0	0
168	027168	D.P.F.-75,76 (55)	400.64	0	0
169	027170	D.P.F.-77 (56)	120.97	0	0
170	027152	Kangosh (33)	209.88	152	595
171	027154	Sungra (32/4)	219.57	785	2669
172	027153	D.P.F.-78 (57)	64.17	3	12

S#	Code	Village Name	Area (Ha.)	Households	Population
173	027158	D.P.F.-79 (58)	333.24	0	0
174	027147	Rethachang Dhar (63)	121.69	0	0
175	027146	Rango (31/4)	160.09	0	0
176	027144	D.P.F.-82 (61)	48.21	0	0
177	027142	D.P.F.-81 (60)	47.36	0	0
178	027141	Kashpo (31/9)	51.93	99	523
179	027136	D.P.F.-80 (59)	41.69	0	0
180	027157	Baro (32/2)	166.36	35	149
181	027155	Punaspa (32/3)	76.67	19	50
182	027156	Saki Charang (32/1)	101.81	79	293
183	027138	Agade (31/ 7)	77.53	20	54
184	027137	Puje (31/10)	84.18	147	608
185	027140	Garade (31/8)	49.40	125	414
186	027143	Nigani (31/5)	60.55	98	472
187	027094	D.P.F.Chhota Kamba Doyam C-96 (10)	66.86	2	8
188	027203	Joktaring (67/2)	50.16	52	217
		Total	**118621.15**	**6681**	**27683**

3.4 Profile: Development Block Kalpa - District Kinnaur

Kalpa is one of the development blocks in the Kinnaur District of Himachal Pradesh. Total area of Kalpa is 170542.33 hectures. Kalpa has a population of 33199 peoples. There are 785 houses in the block. There are about 194 villages in Kalpa block.



Map 3.5: Villages of Kalpa Block – District Kinnaur

S#	Code	Village Name	Area (Ha.)	Households	Population

S#	Code	Village Name	Area (Ha.)	Households	Population
1	027023	D.P.F. Talampi C - 179 - 180 (49)	373.31	58	222
2	027373	Dhar Chaling Gaarh (84)	2795.00	0	0
3	027372	Dhar Nelang (85)	3908.00	0	0
4	027371	Dhar Damochgosha (83)	5221.00	0	0
5	027370	Dhar Thanda Pani (82)	5952.00	0	0
6	027369	Dhar Nakurchhe (81)	1886.00	0	0
7	027368	Dhar Chorgaarh (80)	1290.00	0	0
8	027363	Dhar Vaspa (75)	5003.00	0	0
9	027364	Dhar Gundar (76)	7415.00	0	0
10	027365	Dhar Jowtya (77)	1506.00	0	0
11	027367	Dhar Arsomage (79)	419.00	0	0
12	027366	Dhar Nakdum (78)	1300.00	0	0
13	027361	Dhar Nithal (73)	2685.00	0	0
14	027362	Dhar Karu (74)	2883.00	0	0
15	027360	Dhar Dumti (72)	3734.00	0	0
16	027359	Dhar Shonchayo (71)	4962.00	1	4
17	027358	Dhar Ranikanda (70)	8668.00	1	7
18	027356	Dhar Shothang (68)	2569.00	0	0
19	027355	Dhar Gire (66)	4376.00	0	0
20	027353	Dhar Bhujlang (67)	2084.00	0	0
21	027354	Dhar Bhujaya (65)	4857.00	0	0
22	027352	Chhitkul (63)	335.00	127	582
23	027347	Dhar Tawla (62)	1571.00	0	0
24	027346	Dhar Gelap (61)	2301.00	0	0
25	027350	Dhar Noshang Uperli (64)	4746.00	0	0
26	027351	Dhar Noshang Nichli (58)	122.00	0	0
27	027349	Dhar Noshang West (57)	30.00	0	0
28	027348	Mastrang (59/3)	280.00	2	52
29	027343	Dhar Kamkamphur (56)	3119.00	0	0
30	027345	Dhar Shoshla (60)	2444.00	0	0
31	027344	Rakchham (59/1)	352.00	139	597
32	027342	Dhar Kali Kutang Uperli (55)	1057.00	0	0
33	027337	Kharogla (59/2)	275.00	28	125
34	027336	D.P.F.C-161 (48)	20.00	0	0
35	027335	D.P.F.C.-160 (49)	3.00	0	0
36	027327	Dhar Hanyauperli (39)	2347.00	0	0
37	027328	Dhar Singan (53)	1443.00	0	0
38	027341	Dhar Kalikutang Nichli (54)	61.00	0	0
39	027329	Dhar Hanyanichli (40)	674.00	0	0
40	027334	Dhar Bhadri (47)	1283.00	0	0
41	027333	Dhar Bujlang (46)	1427.00	0	0
42	027338	D.P.F.C 162-A (50)	43.00	0	0
43	027339	D.P.F.C-163 (51)	11.00	0	0
44	027340	D.P.F.C-159 Batseri (52)	115.00	0	0
45	027330	Batseri (43/1)	166.00	108	471
46	027332	D.P.F.C 162-B (45)	50.00	0	0
47	027321	D.P.F.C-162 (44)	93.00	0	0
48	027320	Panpo Kanda (34/3)	1074.00	3	12
49	027073	Dhar Motas Chakru Jesht Garang (51)	3583.35	0	0

S#	Code	Village Name	Area (Ha.)	Households	Population
50	027072	Meling Khata (41/3)	334.68	0	0
51	027075	Dhar Tikulrung Thar (52)	1926.38	0	0
52	027318	Goroden (33/5)	805.00	39	155
53	027319	Thapa Saring (34/2)	287.00	112	476
54	027323	D.P.F.C 157 Basering (42)	236.00	1	1
55	027322	Boning Saring (34/4)	152.00	153	628
56	027314	Sangla (34/1)	309.00	536	2244
57	027311	Dhar Rupan (37)	6378.00	0	0
58	027326	Dhar Dewar (38)	2582.00	0	0
59	027312	Sangla Kanda (34/5)	875.00	1	5
60	027325	Dewar Kanda (34/6)	121.00	0	0
61	027324	D.P.F Hurua-C-156 (41)	174.00	0	0
62	027313	D.P.F.C-154-155 (36)	236.00	34	135
63	027300	Bulcho Dhar (18)	1695.88	0	0
64	027299	Tilchakhula Dhar (17)	831.00	0	0
65	027285	Anati Dhar (16)	999.79	0	0
66	027284	Batingra Dhar (12)	462.69	0	0
67	027283	Botyaring Dhar (11)	326.45	0	0
68	027301	Dhar Pashel(28)	1419.00	0	0
69	027308	Dhar Dambar (29)	877.00	0	0
70	027302	Tesha Guden (27/3)	280.00	0	0
71	027061	Dhar Yutingra ((53)	728.38	0	0
72	027317	Lachonden (33/4)	425.00	6	34
73	027316	Kamru Khas (33/1)	117.00	234	936
74	027315	Kupa (33/2)	166.00	127	521
75	027310	D.P.F.C-153 Chindo (35)	165.00	2	7
76	027309	Jareyo (32/3)	218.00	52	457
77	027292	Regsthang (33/3)	1068.00	0	0
78	027293	D.P.F.C-164 (25)	4.00	1	1
79	027305	Limoden (32/2)	32.00	11	22
80	027307	Chasu Khas (32/1)	309.00	121	540
81	027306	D.P.F.C-152(A) (30)	106.00	0	0
82	027303	Shaung Khas (27/1)	228.00	171	683
83	027294	D.P.F.C-151 A+B (22)	271.00	0	0
84	027298	Mone Rang (19/3)	281.41	0	0
85	027296	D.P.F.C 149-150 (21)	90.97	0	0
86	027074	Tatkhawa Kanda (37/4)	255.17	0	0
87	027004	Dhar Kurak Tasang (9)	8138.82	0	0
88	026993	Dhar Kyari (4)	2856.63	0	0
89	026994	Nang Kashang (6/5)	427.21	0	0
90	026995	Kashag Gramag (6/4)	363.25	0	0
91	026992	Dhar Rawal (1)	6826.18	0	0
92	026996	Jangal Mehfuza Mehduda Kashang	25.53	0	0
93	026997	Kashang Getige (6/3)	231.00	0	0
94	026998	Jangal Mehfuza Mehduda Kashang	236.09	0	0
95	027005	Dhar Gurgurti (10)	996.23	0	0
96	027038	Dhar Shulacha Pilaya (25)	287.00	0	0
97	027037	Dhar Dhumpawang (24)	500.06	0	0
98	027045	D.P.F. Rogi Awal C-244 (26)	18.30	0	0

S#	Code	Village Name	Area (Ha.)	Households	Population
99	027039	Kastyo (30/3)	152.52	2	9
100	027040	Jangal Mehfuza Mehduda Kastang	238.36	0	0
101	027041	Dakhaye (30/4)	333.00	21	85
102	027043	D.P.F. Rogi Soyam C-245 (28)	3.05	0	0
103	027042	Talangcho (30/2)	245.12	34	159
104	027044	D.P.F. Rogi Doyam C- 245 A (27)	26.48	0	0
105	027046	Rogi (30/1)	172.33	78	350
106	027282	Pilacho Dhar (9)	522.08	0	0
107	027265	D.P.F.C-137 A+B (1)	100.67	0	0
108	027266	Nyardeem (2/3)	253.69	0	0
109	027264	Thikru (2/2)	227.16	23	121
110	027269	Kilba Khas (2/1)	257.37	233	1473
111	027267	D.P.F.C-138 Thikru (3)	124.84	0	0
112	027268	D.P.F.C-139 Tiuden (4)	174.89	0	0
113	027270	D.P.F.C-140-141 Kilba (5)	210.03	0	0
114	027271	Kanahi-Khas (6/1)	155.79	199	602
115	027272	D.P.F.C-143 Sapni (7)	55.49	0	0
116	027274	Gunthar (6/2)	85.26	0	0
117	027273	D.P.F. C-142-144 Kumkumi (8)	86.96	0	0
118	027276	Sapni Khas (13/1)	91.63	232	1058
119	027277	Shenan Den (13/2)	148.43	42	167
120	027057	Rali (33/2)	564.69	56	234
121	027058	D.P.F. Rali C-167 (31)	260.63	0	0
122	027090	D.P.F. Bada Kamba C 97 (6)	29.42	0	0
123	027091	Kumrang Dhar (5)	3714.63	0	0
124	027089	Shorang (7/1)	326.28	36	111
125	027281	Supitang Dhar (10)	193.03	0	0
126	027275	Patyo (13/4)	156.42	1	5
127	027279	D.P.F. Baturi C-145 (14)	40.24	0	0
128	027280	Baturi Kanda (13/5)	229.97	0	0
129	027286	D.P.F.C-146 (15)	32.51	0	0
130	027295	Shobre Yanang (27/2)	65.00	35	526
131	027278	Baturi (13/3)	60.18	48	205
132	027287	D.P.F.C-147-148 (20)	94.21	0	0
133	027288	Barua Khas (19/1)	289.31	212	967
134	027060	Phayag Choden (33/3)	188.54	0	0
135	027062	Mebar Khas (33/1)	50.00	51	278
136	027063	D.P.F. Nalango C-169 AB (34)	54.55	0	0
137	027056	Yusaring (37/2)	226.64	146	668
138	027064	Jangal Mehfuza Mehduda Lirang (35)	134.06	0	0
139	027065	Jangal Mehfuza Mehduda Anoden (36)	79.56	0	0
140	027068	Sharmi (37/3)	51.42	0	0
141	027067	Jangal Mehfuza Mehduda Sharmi (38)	12.35	0	0
142	027069	Jangal Mehfuza Mehduda Tatkhaw (39)	246.20	0	0
143	027066	Barang Khas (37/1)	93.92	105	534
144	027071	Jangal Mehfuza Mehduda Tangling	481.35	0	0
145	027032	Gonang (15/3)	268.12	5	18
146	027033	Goli (17/3)	193.27	3	13
147	027036	Radule (20/2)	351.00	40	191

S#	Code	Village Name	Area (Ha.)	Households	Population
148	027048	D.P.F. Chini Doyam C-243 (23)	35.24	0	0
149	027049	Saryo (20/3)	77.32	91	415
150	027055	Raang (21)	179.57	127	388
151	027047	Shuda Rang (20/4)	140.90	222	843
152	027035	Dumdumka (19/2)	33.55	1	5
153	027034	Jangal Mehfuza Mehduda Duni C-241 (16)	311.00	0	0
154	027000	Jangal Mehfuza Mehduda C-235 (2)	48.25	0	0
155	027001	Khwanta (6/6)	294.38	182	761
156	027002	Jangal Mehfuza Mehduda Pangi C-236 (7)	42.08	0	0
157	027003	Jangal Mehfuza Mehduda Boktu Pratham	100.53	0	0
158	027010	Jangal Mehfuza Mehduda Telgi)	89.00	0	0
159	026999	Ragura (6/2)	287.72	112	514
160	027013	Pangi (6/1)	161.59	201	875
161	027012	Boktu (6/7)	59.74	2	7
162	027014	Purbani Khas (42/1)	180.18	102	451
163	027019	Jangal Mehfuza Mehduda	83.46	0	0
164	027020	Jangal Mehfuza Mehduda C-182 (45)	45.32	0	0
165	027021	Kibar (47)	80.72	0	0
166	027018	Dhar Jeshta Grang (50)	559.54	0	0
167	027024	Pawari (41/1)	320.91	98	448
168	027011	Jangal Mehfuza Mehduda C-238 (11)	60.85	0	0
169	027009	Panwa (13/5)	20.17	0	0
170	027008	Change (13/4)	256.21	1	1
171	027006	Mebar (6/8)	258.00	1	5
172	027050	D.P.F. Chini Awal C-242 (22)	166.34	12	22
173	027051	Kalpa (20/1)	97.98	310	1236
174	027030	Duni (17/1)	47.65	132	520
175	027007	Japredin (14/2)	344.04	1	7
176	027026	Tarkhwa (13/3)	80.21	72	386
177	027029	Kothi (15/1)	55.87	468	1638
178	027052	Brelingi (17/2)	34.32	183	719
179	027054	Yuwaringi (19/1)	78.35	459	1263
180	027053	Reckong Peo (18)	68.61	531	2397
181	027070	Tangling (41/2)	349.61	129	495
182	027027	Maki Mrang (13/2)	29.49	47	190
183	027025	Telingi (13/1)	227.33	44	242
184	027357	Dhar Hilap (69)	1898.00	0	0
185	027304	D.P.F.C-152 (B) (31)	95.00	0	0
186	027297	Nagassaring (19/2)	214.03	1	4
187	027022	Jangal Mehfuza Mehduda Dalang (48)	219.32	0	0
188	027015	Rawa (42/2)	206.54	13	61
189	027016	Jangal Mehfuza Mehduda C-185 (43)	132.80	0	0
190	027017	Jangal Mehfuza Mehduda Righ	208.01	0	0
191	027059	D.P.F. Gramag C-168 (32)	229.03	0	0
192	027031	Kashmir (15/2)	92.94	90	357
193	027028	Khwangi (14/1)	161.22	529	2183
194	027331	Seringche (43/2)	36.00	19	75
		Total	**170542.33**	**7850**	**33199**

4

Climate Change: District Kinnaur, Lahaul & Spiti

4 Climate Change: District Kinnaur Lahaul & Spiti

4.1 Climate Change Vulnerability Assessments

The State of Himachal Pradesh through Department of Environment, Science & Technology has prepared a comprehensive "State Strategy & Action Plan on Climate Change (SAPCC)". Under this action plan block level climate change vulnerability assessment has been undertaken. The philosophy and concept of Exposure, Sensitivity and Adaptive Capacity has been used to analyse climate change vulnerability assessment. The findings of SAPCC are as under:

Climate Change Vulnerability Index of Kinnaur, Lahaul & Spiti Districts (Block Level)

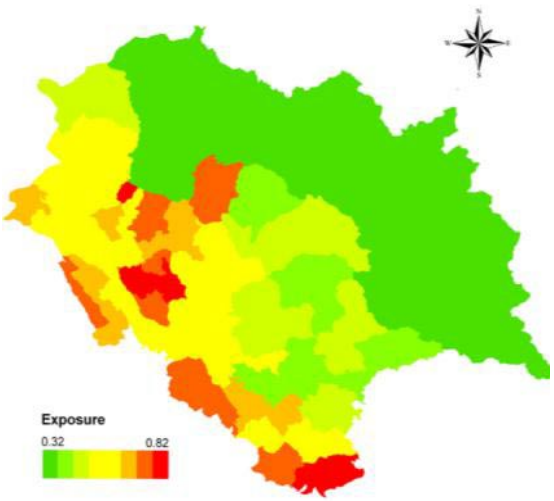
Sr. #	Tehsil/ Block	Components			Vulnerability Index
		Exposure	Sensitivity	Adaptive Capacity	
1	**District Kinnaur**				
1.1	Pooh	0.36	0.39	0.44	0.34
1.2	Kalpa	0.40	0.42	0.45	0.41
2.3	Nichar	0.40	0.32	0.43	0.51
2	**District Lahaul & Spiti**				
2.1	Lahaul	0.32	0.50	0.49	0.00
2.2	Spiti	0.34	0.45	0.50	0.07

Higher the value, high is the vulnerability

Source: SAPCC, Himachal Pradesh

Exposure

The exposure has been determined in terms of climatic variables such as annual mean temperatures, annual mean rainfall pattern and no of extreme events, rainy days etc. It has been observed that the Himachal Pradesh is exposed to a range of climate conditions and extreme events. In particular, some of the key features of the region's climate are the influences of monsoons, the El Niño-Southern Oscillation, and cyclones on the rainfall in the State. Most part of the State is adapted to, and thus reliant upon, the annual monsoon occurrence, which makes it vulnerable if the monsoon fails and rainfall is significantly limited/less. Meanwhile, variability associated with the El Niño-Southern Oscillation, and particularly El Niño events, contributes to cyclic droughts. Besides, much of area gets affected by tropical disturbances and their associated high winds, snow, hail storms, and extreme rainfall. These climate challenges are the permanent features of the Himachal Himalayan region, but that may be significantly altered by anthropogenic climate change in the decades ahead as well.

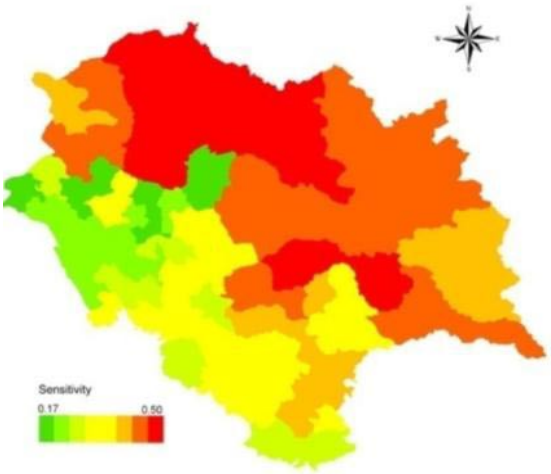


Map 4.1 Exposure Map of HP

Temperature is a critical parameter of climate which strongly influences people, biodiversity and ecosystems, important driver of natural and man managed systems. As per the analysis, in the last few decades, the average temperatures have been found to vary from normal ranges for Himachal Pradesh and yearly variations in average temperature are indicative of this trend. Variability, leading to higher temperatures shows higher exposure level of the different Blocks in different districts.

Precipitation is an important component of the water balance and ecosystem. Normally, rainfall patterns are dependent on a range of factors such as topography, local climate and wind patterns. In Himachal Pradesh, as per analysis of the long term database it is observed that during the past century, some areas have experienced an average rainfall, some areas have experienced increase in the rainfall and few areas have faced reduction with variation in frequency and intensity. A change in the timing of run-off impacts the water availability, which will resultantly impact progress in developing areas, crops, agriculture, livelihoods and eventually the entire economy. Average rainfall and change in pattern in different region shows higher level of exposure to climate change.

*The analysis of results reveals that the low lying areas of Himachal Pradesh are highly exposed to climate change. The areas falling in Hamirpur, **Sirmaur**, Solan and Una districts are highly exposed whereas, Kangra, Chamba and Hamirpur districts are also exposed but comparatively less than the above districts. Likewise areas falling in and Shimla and Kullu districts are also moderately exposed to climate change.*

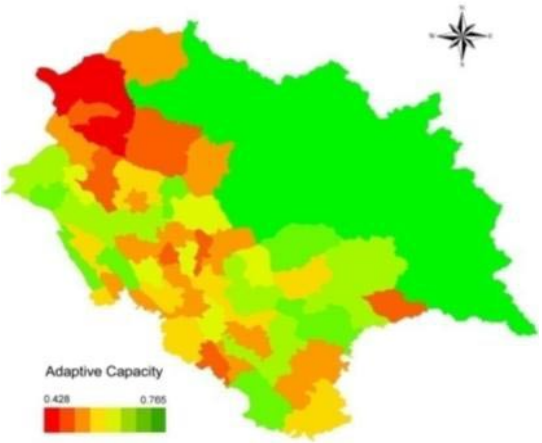


Map 4.2 Sensitivity Map of HP

Sensitivity

The sensitivity component includes four indictors such as Agriculture-livelihoods, Water resources, Forests and Health. It has been observed that, Besides being exposed to a variety of climate hazards, the vulnerability of Himachal Pradesh in the Himalayan region also gets affected by the sensitivity of different neighbouring States and sectors to these hazards when they occur. For example, with much of their subsistence and economic growth dependent upon agriculture, the potential for widespread adverse impacts is enhanced in these areas. Likewise, the existing water resources are limited in many areas under development, as is subsequently, access to safe drinking water, sanitation, and irrigation. In case of drought or flood, the ability to safely and efficiently manage water storage, diversion, and delivery would be easily compromised. Settlements and infrastructure in Himachal Pradesh tend to be more susceptible to the effects of climate extremes and are more likely to be damaged. The analysis shows that low-lying river bed areas, including hydro power projects, are more sensitive to the effects of water level rise and flood like situations and thus have potentially more to lose from climate change than the other regions. Statistics indicate that extreme events in the region are associated with significant financial losses as well as the loss of lives, and as explained above such disasters in the region has increased in recent decades/years.

There are few regions where forest cover has decreased and less forest cover would thus be more sensitive and vulnerable to climate change if the same trend continues. Land use change has a direct linkage with climate change. The deforestation, habitat fragmentation, urban expansion and other developmental modifications have significantly changed the land use patterns. Extensive land use changes have an impact on livelihoods of people and ecosystems. The areas where agriculture workers are more would be more sensitive to climate change. Clearing of vegetation leads to degradation of area and enhances the sensitivity towards climate variability; resultantly the biodiversity gets impacted adversely. Further, an increase in gross sown area will raise the sensitivity levels of the different areas of various districts. Higher family size or the birth rate would increase the sensitivity since there will be competition for scarce resources. The analysis depicts different levels of sensitivity with different trends of indicators.



Map 4.3 Adaptive Capacity Map of HP

Adaptive Capacity

The socio economic conditions give measures on adaptive capacity which contain economic capacity, poverty rate and, roads connectivity, literacy rate, environment management infrastructure with population density. Adaptive capacity is the ability or potential of a system to respond successfully to climate variability and change, and includes adjustments in both behaviour and in resources and technologies. The presence of adaptive capacity has been shown to be a necessary condition for the design and implementation of effective adaptation strategies so as to reduce the likelihood and the magnitude of harmful outcomes resulting from climate change (Brooks and Adger, 2005). Adaptive capacity also enables sectors and institutions to take advantage of opportunities or benefits from climate change, such as a longer growing season.

From analysis of database it is evident that the areas which have high percentage of poverty are more exposed shows low economic capacity and, therefore, has less adaptive capacity and more vulnerability. Higher literacy rate, road network shows higher adaptive capacity. More is the population, lesser the adaptive capacity in the region.

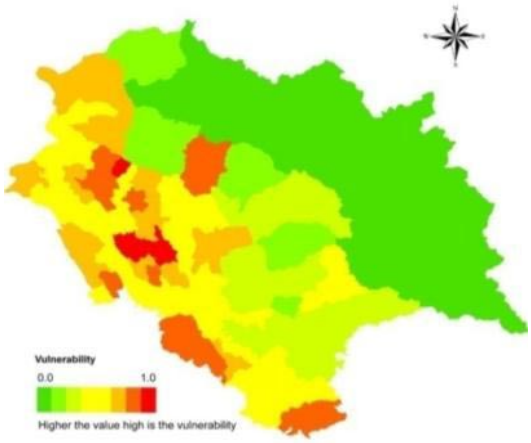
Vulnerability

The analysis of the index of vulnerability at the Block level of all districts of State has been calculated and analysed using index based approach which primarily is an outcome-based vulnerability measurement.

From the analysis it is observed that the adaptive capacity of Lahaul & Spiti, Kinnaur, some areas of Kangra, Shimla and Hamirpur districts is better. The adaptive capacity of District Chamba, Hamirpur, Una, Solan and Sirmaur is poor to cope with the impacts of climate change.

When combined together all the three components i.e. Exposure, Sensitivity and Adaptive Capacity, the results indicates that Hamirpur, Kangra, Una, Solan, Bilaspur, Sirmaur districts are highly vulnerable to climate change whereas, the districts Hamirpur, Shimla, Kullu, Chamba are moderately vulnerable.

The Vulnerability Index tries to capture a more comprehensive scale of vulnerability to give composite Vulnerability Index. It has been calculated by including many indicators that serve as proxies to look at different aspects of vulnerability. In other words, it has been assumed that vulnerability can arise out of a variety of factors. In particular, different sources of vulnerability; broadly climatic factors, demographic factors, agricultural factors and occupational factors has been taken into consideration.



Map 4.4 Vulnerability Map of HP

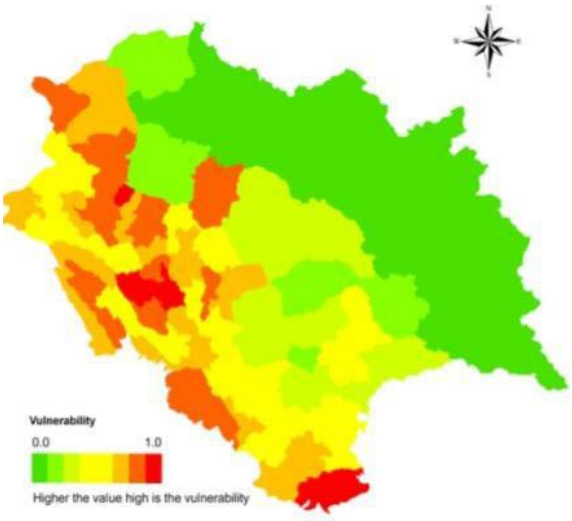
Projection of Scenarios 2020 and 2030

It has been observed that the Himachal Pradesh receives most of its rain during the monsoon season, which starts in the late June. The mean seasonal precipitation simulated by PRECIS shows variations for Indian sub continent. Under A1B scenario, mean annual rainfall is projected to increase marginally for the State by about (5% to 13%) i.e. 70-200 mm by 2030. Increase in monsoon season, and marginal increase in other seasons with increase in rainy days.

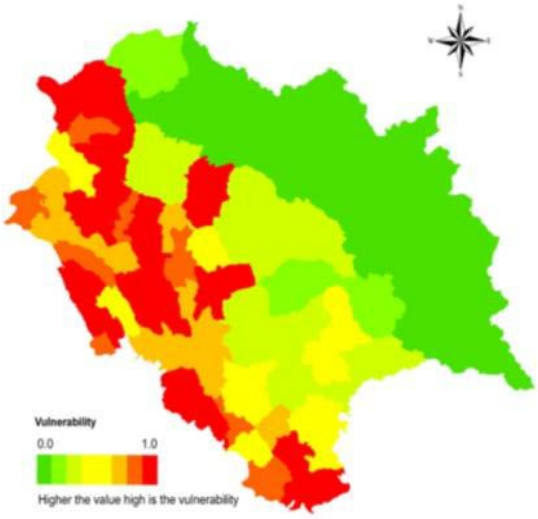
Besides, on the basis of available data base w.r.t. temperature (max & min) and precipitation form IMD Pune and after working out the decadal variation on average basis, decadal scenarios for climate variations i.e. variations in rain fall and temperature for 2020 and 2030 have been projected (No specific PRECIS or HADCM simulations have been worked out for Himachal Pradesh separately) and have been further analyzed for deriving Vulnerability Index while assuming that the sensitivity and adaptive capacity would continue to show the same pattern* (The adaptive capacity & sensitivity could not be analyzed for decadal scenarios in view of lack of data base for specific variables and also that the adaptive capacity or sensitivity will not show any change in its pattern in case projected on simple average methods).

* (Even if the increase in biodiversity or growth in infrastructural facilities is observed)

Therefore, the exposure based projections on decadal variations have been plotted on spatial maps to see the likely/ possible changes in 2020 & 2030.



Map 4.5 Vulnerability 2020 Scenario



Map 4.6 Vulnerability 2030 Scenario

It has been observed that the Climate Change vulnerability in 2020 scenario the areas of districts Sirmaur, Solan, Bilaspur, Una, Kangra, Hamirpur, Kullu, Chamba will be at risk, that means the regions falling under sub mountain zone will be at risk while other will have lower risk.

Similarly, the Climate Change Vulnerability Projections for 2030 indicates that the vulnerability of low lying areas i.e. sub mountain low hills sub tropical region, mid hills sub humid will be at higher risk and high hill temperate wet will be under moderate risk while dry region will be continue to have lower risk even in 2030.

5

Climate Change Hazard Scenarios: District Kinnaur, Lahaul & Spiti

5 Climate Change Hazard Scenarios: District Kinnaur, Lahaul & Spiti

5.1 Climate Change Induced Natural Hazards – District Kinnaur

Kinnaur district has a mountainous topography, ranging in altitude from 1,600 m to 6,816 m, having steep valleys carved by streams and rivulets having their origin in the glaciated ridges. Most of the district has a temperate climate due to its high elevation, with long winters from October to May and short summers from June to September.

The lower parts of the Satluj valley and the Baspa valley receive monsoon rains. The upper areas of these valleys and lower reaches of Spiti valley in Kinnaur fall in the rain shadow area. These areas are considered to be arid regions, having climate similar to Tibet. In the lower reaches of Satluj and Bapsa Valleys, the vegetation comprises trees like pine, oak, chestnut, birch, deodar, fir, grasses and shrubs giving a lush look to the area. The high terrains here give way to great adventure sports of all kinds including beautiful trekking routes such as the 'Parikrama of Kinner Kailash'.

The unique Geo Climatic conditions of the District make it vulnerable to various kinds of natural hazards/disasters which have been compounded by increasing human interventions with the nature. The disasters, which generally occur in this district and its various areas prone/vulnerable to various kinds of disasters, are as under:

5.1.1 Floods

District Kinnaur have been witnessing many developmental activities in recent years and hydro electric projects are one of them. Accelerated runoff dam failure, have raised the hazard of flash floods. Glacial melting due to global warming is another major cause of flash floods as the major glaciers in the higher hill tops are receding at an alarming rate due to natural anthropogenic reasons. Heavy rains and floods cause damages to cultivated land of the farmers and wash away the bridges, human beings and cattle heads.Table below explains various flash floods in district Kinnaur and its impact:

Date	Impact
29th Sept. 1988 a flash flood occurred due to cloud burst in SoldangKhad.	Caused heavy loss of life and property in the Soldng village. • Washed away the Bhabanagar water works. • Washed away 2 Km of NH-22 across SoldanKhad. • Created landslides along the eastern slopes of SoldanKhad and damaged road to Ponda. • Lake was formed on the Satluj river near conference. • Block stopped the flow of Satluj river for about 30 minutes and created a temporary lake having dimensions roughly about 6000 m long. 200-250 m wide and 25-30 m deep extending up to Wangtoo Bridge. • Lake water entered Sanjay VidutPariyojna and damaged the Power House.
31 July and 2 August 1991 **24 Feb 1993**	Cloudburst and flash flood along SoldanKhad in Satluj valleykilled 32 people, 15 houses, 35 bigha agriculture land, 600 appletrees, 2Km of road of NH 22 and 20 m bridge on SoldanKhadwashed away. Agriculture land along Leo village situateddownstream. Flood washed away 15 houses, 35 bigha of agriculture land andabout 600 apple trees in Soldang village.Satluj river blocked twice due to

Date	Impact
	major landslide and rock fall near Jhakri and Nathpa, damaging NH-22.
4th and 5th September	Another flash flood occurred in two phases along DulingKhad on4th and 5th September causing extensive damage in Tapri, districtKinnaur.
First flash flood occurred on 4thSeptember 1954 at 2 p.m. Aftercloudbursts in the uppercatchments of Duling.	32 people and 35 cattle lost their lives. Huge debris formed a fan along Satluj and formed a takepartially blocking the SatlujFlash flood caused heavy damage due to change in courseof Satluj from left to right bank increased the tow andlateral erosion at Tapri.
Another flood came at 6 a.m.and 9 a.m. on 5th Sept. 1995bursting the lake formed duringthe previous cloudbursts.	Washed away 19 houses, HRTC workshop along with 3buses. Change in course is still causing tow erosion to NH-22.
4-5 Sept. 1995	Flash flood along PanwiKhad in Satluj valley washed away 19houses, 3 buses, HRTC workshop and damaged HPPWD resthouse at Tapri.
August 1997	Cloudburst and flash flood along Satluj river killed 19 people, 464cattle, 105 houses damaged, 10 cattle sheds and 39-hectareagriculture land. Total loss was estimated Rs.672.9 million.
Flash floods in the night of 31stJuly and 1st August 2000 inSatluj valley.	Flash floods in the Satluj valley resulting in the increase in waterlevel of Satluj an up to 60 feet above the normal level. The flashflood was termed as the one that occurs once in 61,000 years.Widespread damage in the valley right from its confluence withSpiti river near Khab to downstream areas. Extensive damage to200 Km of NH-22, washed away 20 bridges, 22 Jhulas and badlydamaged 12 bridges. About 1000 irrigation, sewerage, floodprotection and water supply schemes were badly damaged.Expensive damage to hydel projects including NJPC. 135 peopleand 1673 cattle lost their lives. The total estimated loss was to thetune of Rs. 1466.26 crore.
Flash flood in Satluj river dueto breach in the Parachoo lakein Tibetan catchment on 26thJune 2005	Extensive damage as a result of risen water level of Satluj riverdue to breach in Parachoo lake formed in Tibet catchments.Washed away the NH-22 at a number of places, 10 bridges, 11ropeways washed away, 15 motor able and 8 jeep able bridges andfootbridges damaged/affected, 10 Km stretch of NH-22 betweenWangtoo and Samdo was washed away, and various link roadswere damaged. Total loss estimated to the government as well aspublic property was some Rs. 610 crore.

River Floods: A river flood is also one of the majorthreats in district Kinnaur. Satluj is the main riverflowing in the district which has witnessed flood in thepast.

5.1.2 Landslides

Kinnaur is a mountainous district having rugged topography and deep andnarrow valleys and steep slopes which makes it very prone to different types of slope failurenamely Land sliding, Slumping/Creeping, Rock fall, Shooting Stones, etc. Landslides are thedownslidemovement ofsoil, debris or rocks, resulting from naturalcause, vibrations, over burden of rockmaterial, removal oflateralsupports, andchange in the water content of rock orsoil bodies, blocked drainagesetc.This problem has been compounded by the increasing anthropogenic activities. The main causeof slope failure/landslide etc. is steep and fragile slopes, loose soil, fissured/fractured rock strata,some tectonic activity, heavy rainfall, toe erosion by running water and human intervention withthe

natural settings like various unplanned construction activity, deforestation, faulty land useplanning, use of explosives in construction, practicing unscientific mining, quarrying, tunnelingmethods, unscientific dumping on the valleys etc.The shooting stone, which is very common inmany parts of District Kinnaur is caused, among others, by the animal movements and winds. Thelandslides have caused loss of life and infrastructure in the past. The slope failure is seen in one orother form in all the parts of the district in deep interiors, in the villages and on high mountainranges/slopes. But, its disastrous effect is observed mainly near the villages and along NationalHighway-22 (Now NH 5), old Hindustan-Tibet Road and other link roads connecting the villagesof the district. Few major landslides which occurred in the district are Malling landslide, Dublinglandslide, Spillow landslide, Khadra Dhaank landslide, Lippa landslide, PangiNala landslide,Powari landslide, Sapni landslide, Brua landslide, Kuppa landslide, Urni landslides, Sholdinglandslide, Nathpa landslide etc. The main road leading to Kinnaur has many flashpoints which iftriggered by natural events block the connectivity to the district. Such susceptibility is very forother internal roads of the districts. The landslides would cut of connectivity to all the valleys andvillages and people would be left to fend for themselves.

The geographical nature of Kinnaur is very steep. Table below gives description of importantlandslides in the State and it contains landslide of Kinnaur too. Landslides are the downslidemovement of soil, debris or rocks, resulting from natural cause, vibrations, overburden of rockmaterial, removal of lateral supports, and change in the water content of rock or soil bodies,blocked drainages etc.

Sr.#	Landslide Area	Damage
1.	Maling (1968).	This slide damaged 1 Km NH-22 and is stillactive.
2	Sholding (Dec.1982)	This occurred at Sholdingnala collapsing 3bridges and 1.5 of road was vanished.
3.	Urni	Damage to NH-05

5.1.3 Snow Avalanches

The high mountain ranges and higher reaches of District Kinnaur remains snow covered for mostpart of the year as it receives heavy snowfall during the winters. The intermittent snowfall in thedistrict forms many layers of snow/ice on the ground, which remains frozen during the winters. Thesnowfall during the month of February and March cause the mass of snow move down the slopesof the mountains and the valleys. This is called 'Snow Avalanche'. The snow avalanches are unlikeglaciers are smaller in mass and faster in movement. As per the report prepared by Taru the majorflash points of avalanches are: Bhagat Nalla, TinkuNalla, PyalaNalla (Jangi) and Ralli on theNational Highway-22. The types and scale of avalanches can differ depending on the combinationof the various factors and their scale. They are common in elevations of more than 3500 m onslopes of 30o-45°.Convex slope covered with grass are more prone to avalanches causing greatdamage to life and property. The villages at high altitudes and army and para-military camps arefrequently hit by this form of natural calamity.

5.1.4 Forest Fires

Forests have a high degree of susceptibility to forest-fires and these fires have already destroyedprecious forest wealth and caused incalculable harm to the flora and fauna of the entire affectedregions of the district. The damage from fire is much more pronounced in mountains region as thedifficult hilly topography is invariably a hindrance. It has there been observed in the past, oncestarted the fire assume mammoth proportions causing extensive damage to the biological wealth.Due to heavy local dependence upon the forests, the socio-economic effects of fires are alsosubstantial for the communities residing in and around these forest areas. Major forest-fires areoccurring in thehills because ofthe accumulationof the leaf andlitter in theforests. DistrictKinnaur is spreadover an area of6,407 sq. Kms.out of which,approximately546,970 hectareland is covered

byforest and rest ofthe area is particularly above theTree-Line remains covered by snow/ under cultivation or built up area of villages/humanhabitations. The Kalpa and Nichar Sub-division of the district are relatively thickly forested and thePooh Sub-division of the district is sparsely covered by the vegetation and forms part of the 'ColdDesert'. There are 3 wild-life sanctuaries in the district namely Lipa-Asrang, Rakchham-Chhitkuland Rupi-Bhaba.The incident of forest-fire is not observed very commonly and frequently in the district. It is veryless observed in the Sub-division Pooh and is observed in Nichar and Kalpa Sub-divisions. Theforest-fire in these areas is generally caused by traditional practice of burning the oldvegetation/grasses and fallen pine leaves, and woods for proper regeneration of vegetation.Smoking in forests, camp-fires by tourists, picnickers, and local people, use of traditional'JHOKTI' (Mashaal/torch) made of Turpentine rich woods of pine and Chilgoza tree (pinusgerardiana)) by local people for movement during nights. Use of traditional harvesting of thornybushes for fodder and more importantly short circuiting/ sparking of electrical transmissions linescrossing over the forests. In year 2016 District witnessed major forest in Dhar Wadang, Ribba, andPurbani area. Home Guard, Local volunteers and forest guard were deployed to control forest fire.

5.1.5 Cloudbursts

Cloudburst is a devastating weather phenomenon representing highly concentrated rainfall over asmall area lasting a short term. In meteorological terms, the rain from a cloud burst has a fall rateequal to or greater than 100 MM (4.94 inches) per hour and usually last for over an hour. Thoughthe exact mechanism is not yet perfectly understood, research suggests that they are a manifestationof intense vortices on a small scale. These vortices generate strong convective currents which liftthe moisture laden air rapidly to form cumulonivous clouds, which shed the water loads withferocity. In other words, a cloudburst is a freak phenomenon caused by an up rush of air currentsholding up a large amount of weather, rising as a plume of air slightly warmer than itssurroundings. The sudden cooling and consequent cessation of currents, causing the entire mass ofwater descend on a small area with catastrophic force due to rapid condensation of clouds. Thesemostly occur in mountainous regions particularly in interior regions.

The north westward movingmonsoon systems (low pressure area/cyclonic circulations) after recurving over Rajasthan, North-West Madhya Pradesh and passing over Himachal Pradesh, are found to cause these cloudbursts. Itleads to flashfloods, landslides, uprooting of trees, house collapse, dislocation of traffic & bridges,and human casualties on large scale over the area. The topography of the district enhances thedevastation caused by cloudbursts, as the water flowing down the steep slopes brings debris,boulders and uprooted trees with great velocity damaging any structure which comes in the wayleading to a significant loss of life, property and natural habitat.

5.1.6 Wind Storms

Wind Storm can be defined as 'A storm with high winds or violent gusts but little or no rain'. TheDistrict Kinnaur is vulnerable to cyclonic wind storms particularly during the winters. The windstouch the maximum speed of 40 Knots with average speed being 24 Knots causing wide spreaddamage to life and property, houses, blows of roofs, power-transmission lines, communicationlines, uprooting trees and poles. Sub-Division Pooh is highly prone to this Hazard in DistrictKinnaur.

5.1.7 Retreat of Glaciers in the Himalayas and threat of GLOFs

There are almost 3,300 glaciers in the Nepalese Himalayas and 2,300 of them contain glacial lakes. In Satluj river basin there are 945 glaciers covering 1218 sq. Kms. of area with 94.45 cu. Cm of ice reserves. About 3 glacial lakes are Potentially dangerous out of total 40 glacial lakes in satluj river basin. These lakes are quietly growing because of rising temperatures, which is a mojor threat to

thedistrict. The retreating glaciers would also disturb the water cycle of the Himalayas and causemajor ecological disaster besides causing major water scarcity in the entire region. More over, themelting glaciers are giving rise to formation of lake which can burst causing large scale damage.

5.1.8 Drought

The slowest of all hazards and that can be reverted with various measures. Moisture retention anddrought proofing to mitigate, preparing contingency plans and operationalization are somemeasures against droughts. It can lead to shortage of water, loss to agriculture, and horticulturecrops, power generation. Recently due to lack of rainfall within District Kinnaur a drought likecondition was created in 2016 and water was provided for irrigation and drinking through tankers.

5.2 Climate Change Induced Natural Hazards – District Lahaul & Spiti

Lahaul and Spiti is situated in Trans Himalayan zone of Himalayas and is a mountainous district having high mountain ranges considered to be a sedimentary wedge between colliding plate margins enclosing deep narrow valleys / gorges of River Chandra Bhaga and Spiti and its numerous tributaries.

The district has unique climatic conditions. Winters are severe with heavy snowfall causing Glaciers and Avalanches. Summers are mild with rainy season in most of the Lahaul and Udaipur Sub-Divisions of the district. Spiti. Sub-Division of this district forms part of 'Indian Cold Desert' and receives scanty rainfall as it falls in rain-shadow zone of Himalayas.

The unique Geo Climatic conditions of the District makes it vulnerable to various kinds of natural hazards / disasters which have been compounded by increasing human interventions with the nature. Following is the brief discussion of the various hazards that may occur in the district:

5.2.1 Floods

The district is more vulnerable to flash floods rather than the river floods. Most of the flash floods are caused due to the cloud burst. Every year such incidents are reported in the district. Accelerated runoff dam failure, break up of ice jam and Glacial Lake Outburst can also trigger earthquake. Following data depicts the number of the glacial lakes in the Chenab basin and potentially dangerous which may trigger flash floods due to Glacial Lake Out Burst.

5.2.2. Cloud Bursts

Cloudburst is a devastating weather phenomenon representing highly concentrated rainfall over a small area lasting a short term. It leads to flashfloods, landslides, uprooting of trees, house collapse, dislocationof traffic & bridges, and human casualties on large scale over the area. The topography of the district enhances the devastation caused by cloudbursts, as the water flowing down the steep slopes brings debris, boulders and uprooted trees with great velocity damaging any structure which comes in the way leading to a significant loss of life, property and natural habitat. However Udaipur Sub-division of Lahaul and Spiti district is very vulnerable to weather extremes. Incidents related to cloud burst are also reported in the pin valley of Spiti sub division.

Following is the brief data of recent cloud burst in the district:

i. Cloud burst occurred in the year 2008 in Tholang in which crops in 23-07-00 bighas, 300 willow trees along with 8 labour's tents had been damaged. Loss assessed is about 5,25,300/-.

ii. Cloud burst in the year 2010 in Giu and Titpa village of Pin valley in which 3 houses, 15 hectare land has been washed away and loss assessed is about Rs.40,43,011/-.
iii. On 5th June, 2012 in Pin Valley of Spiti Division at Kit Nallah one bridge and 3Kms. Road, 3 Kms. Transmission lines has been washed away. The total estimated loss was to the tune of Rs. 3 Crore.

5.2.3 Snow avalanches

Snow avalanches almost 65% of Lahaul and Spiti District is prone to avalanche and is one and only the most feared natural disaster noticed till today. Especially in winter as most part of this district remains cut off due to heavy snow fall from the rest of the country. Avalanches are rarely observed closely since they normally occur during a short time period of one or two minutes. Major causes of avalanches can be classified into fixed (prime factors) and variable factors (exiting factors), such as weather conditions and the weight of the snow cover. Avalanches occurs when these factors are combined. Avalanches also cause great damage to life and property. The villages, roads and passengers travelling on foot and in vehicles as well as High altitude and army and para military camps are frequently hit by this form of natural calamity. Following table contains information regarding to the avalanche incidents in the district.

5.2.4 Landslides

Lahaul and Spiti is a mountainous district having rugged topography and deep and narrow valleys and steep slopes which makes it very prone to different types of slope failure namely Landsliding, Slumping / Creeping, Rock fall, Shooting Stones, etc. This problem has been compounded by the increasing anthropogenic activities. But, its disastrous effect is observed mainly near the villages and along National Highway-21 Manali-Leh and Manali Killar and other link roads connecting the villages of the district. The important landslides of the district are PagalNallahm, Mooling Bridge, SalsalDhang, Beeling Nallah, Commander Nallah, Khruti ,Daldal, Khabla etc.

5.2.5 Forest Fire

District Lahaul and Spiti is spread over an area of 13,833 sq. Kms. out of which, approximately 1,37,376 hectare land is covered by forest. The incident of forest-fire is not observed very commonly and frequently in the district. It is very less observed in the Sub-division Spiti and Lahaul and is observed in Udaipur Sub-division. The forest-fire in these areas is generally caused by traditional practice of burning the old vegetation / grasses and fallen pine leaves, and woods for proper regeneration of vegetation. It is observed that fire cases are noticed mainly due to short circuiting/ sparking of electrical transmissions lines crossing over the forests and lightening or thundering.

5.2.6 Drought

The district is part of the Trans Himalayan zone which falls under the rain shadow zone. The district received least precipitation among all the 12 districts of the state. The spiti sub division is more vulnerable to drought s compared to lahaul and Udaipur sub divisions. Most of farmers depends on rain fall or temporary canals for the irrigation purpose.

6

Climate Change Vulnerability Assessment - Conceptual framework

6. Climate Change Vulnerability Assessment - Conceptual framework

Evolution of Vulnerability Assessment Framework (Pre-IPCC 2007)

The pre-IPCC 2007 period witnessed a transition from hazard-based impact assessments to adaptation-driven need for vulnerability assessments (Fussel and Klein 2006). In the discourse evolving in climate change context, vulnerability was understood to indicate the adverse impact of an exposure from a climatic hazard that depended on the rate, magnitude and duration of such exposure, and the sensitivity and adaptive capacity of a system. Vulnerability was thus understood to represent the potential for harmful outcome of the interaction of an external stress (exposure) with the sensitivity and adaptive capacity of a system. Accordingly, the studies

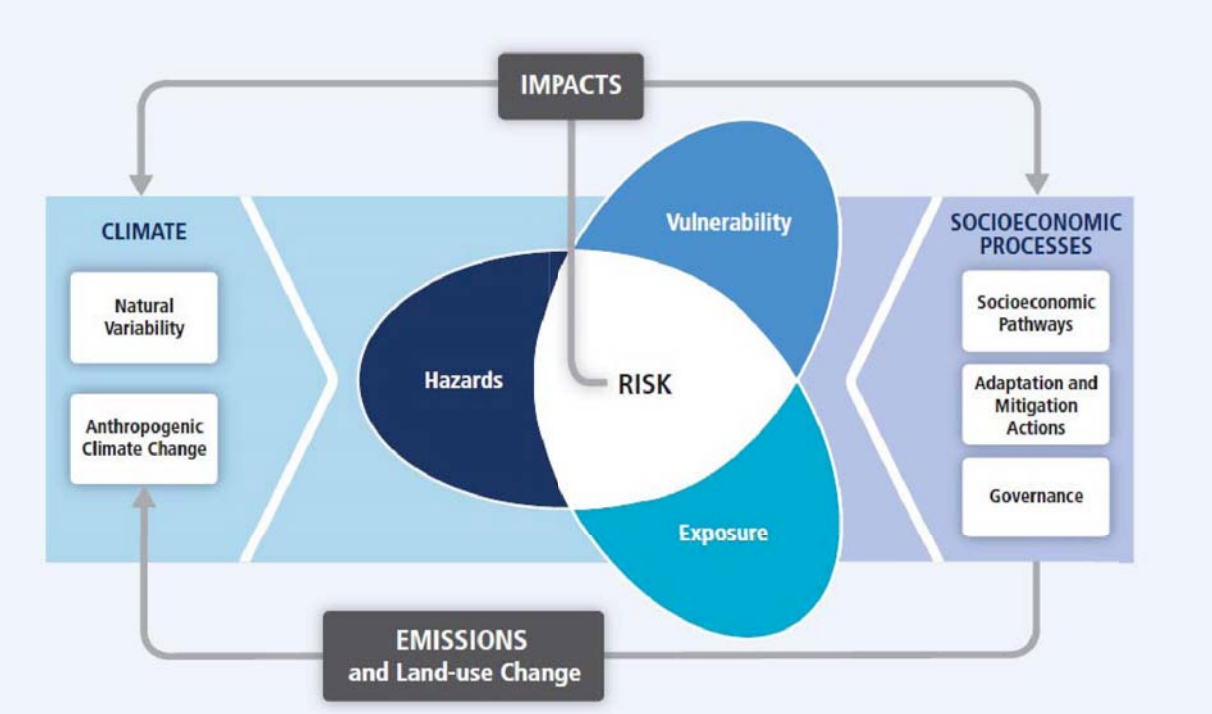
attempting vulnerability assessments adopted frameworks that considered vulnerability as a function of exposure, sensitivity and adaptive capacity. All the three components were assessed and combined to arrive at the vulnerability. Importantly, the vulnerability assessment discourse prior to 2007 identified sensitivity and adaptive capacity as internal properties of a system, and exposure as external to system. This approach to assessment, considering vulnerability in terms of an adverse outcome, is referred to as 'end point approach'.

IPCC 2007

The pre-2007 understanding and articulation of vulnerability and its synthesis as a function of exposure, sensitivity and adaptive capacity were adopted in the IPCC 2007 Working Group II Assessment Report. IPCC (2007) defined vulnerability to climate change as "the degree, to which a system is susceptible to, and unable to cope with, adverse effects of climate change, including climate variability and extremes. Vulnerability is a function of the character, magnitude, and rate of climate change and variation to which a system is exposed, its sensitivity, and its adaptive capacity".This definition of vulnerability has remained the same between the 2001 and 2007 IPCC reports except that the word 'or' is substituted by 'and' in the first part of the definition in 2007 report; this is in order to clarify that sensitivity and lack of adaptability should not be taken as alternative definitions of vulnerability but as its co- factors (Fussel and Klein 2006). The vulnerability assessment frameworks continued to consider all the three components – E, S and AC; however, the number of studies and sectors assessed multiplied and novel methodologies, tools and techniques were developed and used.

IPCC 2014

The IPCC special report on 'Managing risks from extreme events and disasters to advance climate change adaptation' published in 2012 suggested the risk management framework that depicted risk arising from the interaction of hazard, exposure and vulnerability. This framework separated exposure from vulnerability. Vulnerability in this construct is considered a system property composed of its sensitivity and adaptive capacity. The IPCC 2014 report has adopted this construct of vulnerability and defined it as propensity of a system to be adversely affected, which is to be considered independent of the element of exposure. According to IPCC 2014 report therefore, vulnerability is a characteristic property of a system that shows its current internal state. The risk management framework adopted by the IPCC in the Fifth Assessment Report (IPCC 2014) depicts that hazard; exposure and vulnerability interact and result in risk within the overall climatic and non-climatic physical and socio-political environment. Accordingly, in this report, vulnerability assessment framework considers only sensitivity and adaptive capacity as the two cofactors determining vulnerability.



The risk management and assessment framework.
Risk arises from interaction of vulnerability, exposure and hazard (Source; IPCC, 2014)

Comparative assessment of IPCC-2007 and IPCC-2014 frameworks

The change of approach from IPCC-2007 that considered vulnerability as a resultant of exposure, sensitivity and adaptive capacity, to a system attribute represented by the internal properties of the system (sensitivity and adaptive capacity)in IPCC-2014has brought about a fundamental change in the approach to assess vulnerability.

IPCC-2007 Framework	IPCC-2014 Framework
Vulnerability Framework: components - *Exposure (E)* - *Adaptive capacity (AC)* - *Sensitivity (S)*	*Vulnerability is presented in the overall Risk management framework Vulnerability presented as one of the three components (other two are E and H) that give rise to risk.* *E component separated from vulnerability*
Vulnerability, the residual impact after the potential impact caused by E due to the sensitivity (S) of the system is moderated by its AC	*Vulnerability (propensity of a system to be harmed), a system property shaped by S and AC of a system*
Focus of the assessment is on the exposure and the adverse effect it results in for a system	*Focus of the assessment is on the (internal state of) system*
Vulnerability assessed considering E to a hazard (H)	*Vulnerability is assessed independent of E*
E represented disturbance dosage from a climatic hazard (H); so occurrence of H subsumed in E	*E represents presence of a vulnerable system at a location where hazard occurs. H is a co-factor with E and vulnerability in giving rise to risk.*

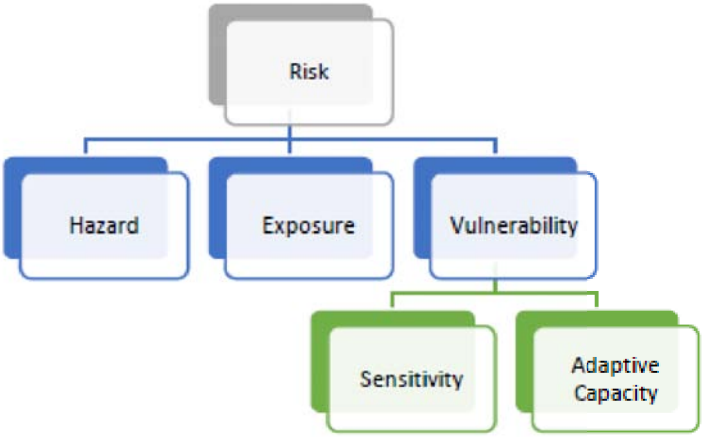
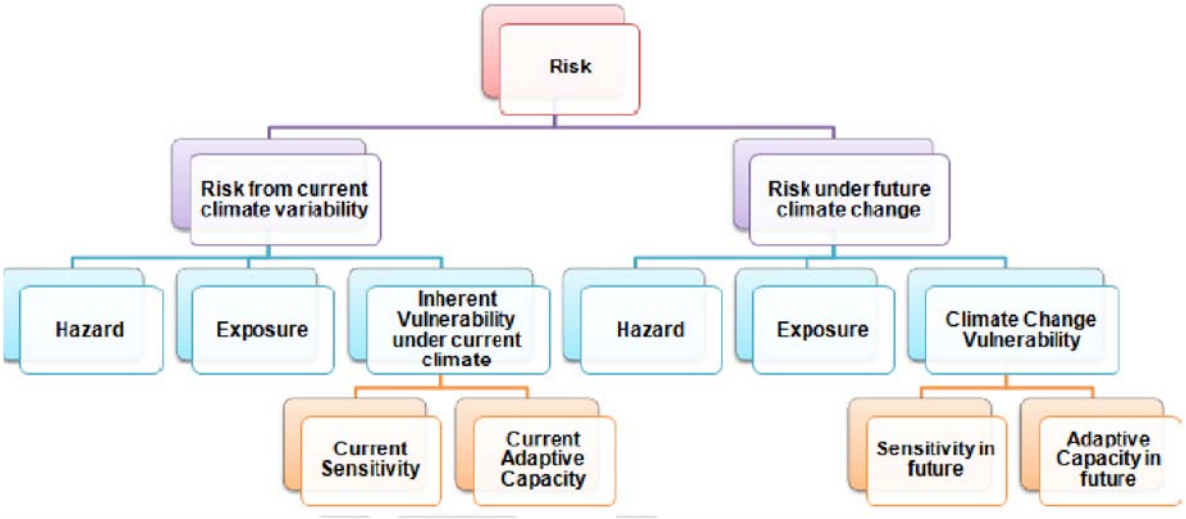


Figure 6.2 Risk arises from interaction of hazard, exposure and vulnerability. Vulnerability is endogenous characteristic of a system and is determined by its sensitivity and adaptive capacity (Source: Vulnerability and Risk Assessment Framework for the Indian Himalayan Region, IISc, Banglore)



Conceptual framework showing the scenarios and elements for assessment of risk and vulnerability according to the IPCC 2014 framework for management of risk. Risk is assessed under current climate variability and under future climate change. Inherent vulnerability is assessed under current climate and in future independent of hazard and exposure. Dealing with the drivers of current inherent vulnerability can potentially reduce current as well as future risks (Source: Source: Vulnerability and Risk Assessment Framework for the Indian Himalayan Region, IISc, Banglore)

The IPCC-2014 framework assesses vulnerability as an endogenous system property independent of exposure. Such treatment of vulnerability eliminates the uncertainties related to the assessment of the nature and dosage of exposure. Further, as the present internal state of a system is assessed and the sources of vulnerability are treated to improve the state of the system that this approach is robust and beneficial whether or not climate change occurs. Such treatment of vulnerability also avoids the chances of maladaptation, and in combination with the benefits of restored health of system, offers a win-win strategy.

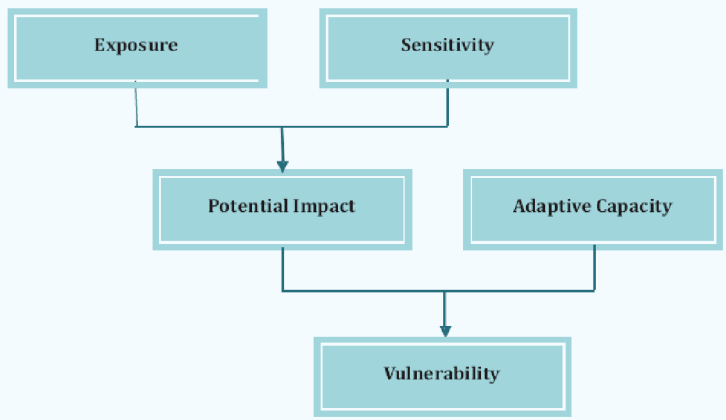
Approach to Vulnerability assessment

Vulnerability is a dynamic attribute of a system i.e., it changes depending on its biophysical, socio-cultural, economic and political environment. Assessment of vulnerability thus has to be an iterative process, which is repeated as per the purpose of assessment. Reassessment helps by identification of the new drivers of vulnerability and provides an opportunity to delete the ones that are no longer relevant.

In the current study, the vulnerability assessment for Satluj River Basin is being carried out according to the IPCC 2007 framework[1].

Vulnerability to climate change is the degree to which a system has the capacity to sustain the damage due to climate change, including climate variability and extremes. The process of identification, quantification and prioritization of vulnerability in a system is referred to as vulnerability assessment. The study of vulnerability or the degree to which the people, environment or agriculture is affected, requires mainly three types of information: (1) exposure, i.e. patterns of exposure to occurrences of hazards such as droughts and floods; (2) sensitivity, i.e. the degree to which the system can experience damages due to a particular event; and (3) adaptive capacity, i.e. the capacity of a system to recover from disaster and hazards.

*The study follow the IPCC Third Assessment Report according to which vulnerability is defined as "The degree to which a system is susceptible to, or unable to cope with, adverse effects of climate change, including climate variability and extremes. Vulnerability is a function of the character, magnitude, and rate of climate variation to which a system is exposed, its sensitivity, and its adaptive capacity" (McCarthy et al.2001).*Thus as per this definition, vulnerability has three components: exposure, sensitivity and adaptive capacity.



Vulnerability

The first two components together represent the potential impact and adaptive capacity is the extent to which these impacts can be averted. Thus vulnerability is potential impact (*I*) minus adaptive capacity (*AC*). This leads to the following mathematical equation for vulnerability:

$$V = f(I - AC)$$

[1]As per the discussions held with the technical expert from Department of Environment, Science & Technology it has been suggested to undertake the vulnerability assessment for Satluj River Basin as per IPCC-2007 framework, thereafter, IPCC-2014 framework may be used to undertake study after finalizing the clearcut methodology of vulnerability assessment for all Himalayan States decided by the Indian Institute of Science Banglore.

A higher adaptive capacity is associated with a lower vulnerability, while a higher impact is associated with a higher vulnerability. Given the above equation, vulnerability is defined as a function of a range of biophysical and socio-economic factors, aggregated into three components: exposure, sensitivity and adaptive capacity to climate variability and change. This study adopted the IPCC framework of vulnerability.

Exposure

The effects of climate change are different at different locations. Some regions will be warmer than the others. Also, the precipitation patterns shift in different areas will be varying resulting in uneven distribution of rainfall. Some regions will see prolonged dry periods and some will experience both warm and intense rainfall. In correlations with the above statements, exposure relates to the degree of climate stress at a particular location. The exposure can also be determined by the long-term climatic changes or the variation in climate including the magnitude and frequency of hazards (O'Brien et al. 2004).

Sensitivity

The relative importance of the effects of climate change differs for different regions, groups and sectors in society. For example, highly intense rainfall may lead to devastating results in some region, whereas the same may not be of much harm in some other region. The degree to which a system is modified or affected by internal, external, or sometimes both disturbances is defined as sensitivity (Gallopin 2003). The measure that reflects the responsiveness of a system to climatic influences determines the degree to which a group will be affected by the environmental stress (SEI 2004).

Adaptive Capacity

Depending upon sensitivity and exposure, the extent of response to the effects of climate change differs across regions. For example, frequent droughts can be addressed by some farmers by using appropriate irrigation technology, whereas other farmers may not be able to afford such technology or may lack the skills to operate it. Therefore, the ability to adapt to certain changes in condition is very important to determine the vulnerability of a system towards the change. Adaptability, coping ability, stability, management capacity, flexibility, robustness and resilience, all together form the ability of a system to adapt to the changes effectively. Therefore, 'Adaptive capacity' is a significant factor in characterizing vulnerability (Smit and Wandel 2006). Adaptive capacity is also defined as the potential or ability of a system, region or community to adjust to the effects or impacts of climate change (IPCC, 2001). Different countries, communities, social groups, individuals and times have different capacities to adapt (IPCC 2001, Smit and Wandel 2006). The adaptive capacity of a system or society is to deal with the changes in conditions to modify its own characteristics and behaviour (Brooks 2003).

The increase in literacy levels enhances the capability of people to access information and cope up with adversities, resulting in reduced vulnerability (Leichenko and O'Brien 2002). The farms with larger agricultural income, land area, farm value assets and latest technology are able to prepare and respond better as compared to the farms with lower technology. Also, the farms with traditional technologies are assumed to be less economically diversified and more vulnerable to climatic events. The availability of facilities like electricity, education, health care, etc. determines the state of poverty in a region. When two different agricultural regions having the same crops and similar climate are compared with each other, the exposure to climate changes might be similar, but the adaptive capacity and vulnerability could be very different based on the socio-economic factors.

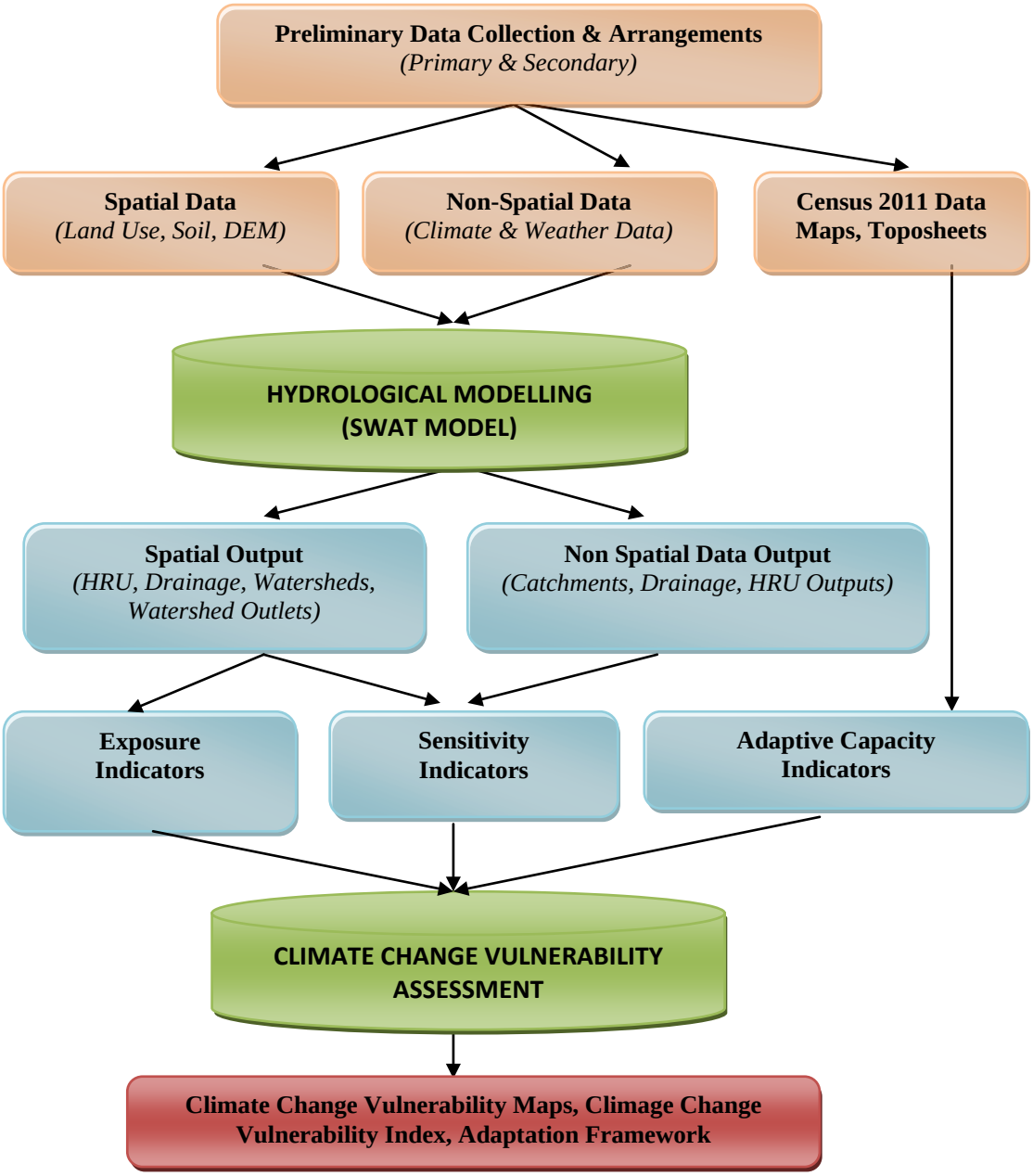
In addition to identification of threat, the analysis of vulnerability also involves resilience or responsiveness of the system and its ability to exploit opportunities and recover from the environmental and climatic changes. Therefore, asset ownership goes hand in hand with vulnerability. The people having more assets are less vulnerable to climate change.

7

Methodology Adopted for Vulnerability Assessment

7. Methodology Adopted for Vulnerability Assessment

Flow Chart
Climate Change Vulnerability Assessment



7.1 Data collection & arrangements

The current study is designed to investigate; how climate change is affecting indigenous agricultural based rural community?; what makes them vulnerable?; and how they are coping with the and adapting to the changing climate?. The relevant information and data for the study is collected mainly from secondary sources available in publication and reports of various government departments and academic institutions. However, some information is collected by conducting stakeholderinteractivemeetings, primary sample survey at Block, Panchayats & village level.

- **Secondary data Collection**

An extensive review of the available literature on agricultural, horticultural and water resource sector collected from available published documents/reports/databases of the concerned stakeholder department/ organizations.

- **Primary data collection**

Primary data collected through semi-structured questionnaire field survey and interviewing stakeholders in all the selected blocks of district Kinnaur, Lahaul & Spiti. Interviewees reflected a cross section of age, gender and livelihoods in the indigenous community, including fulltime agriculturists/horticulturists, worker group etc. During present study primary survey is conducted to find out the impact of changing climate in various sectors like traditional cultivation and extraction of different type of agricultural/ horticultural/livestock produce, availability of water source and other important sectors.









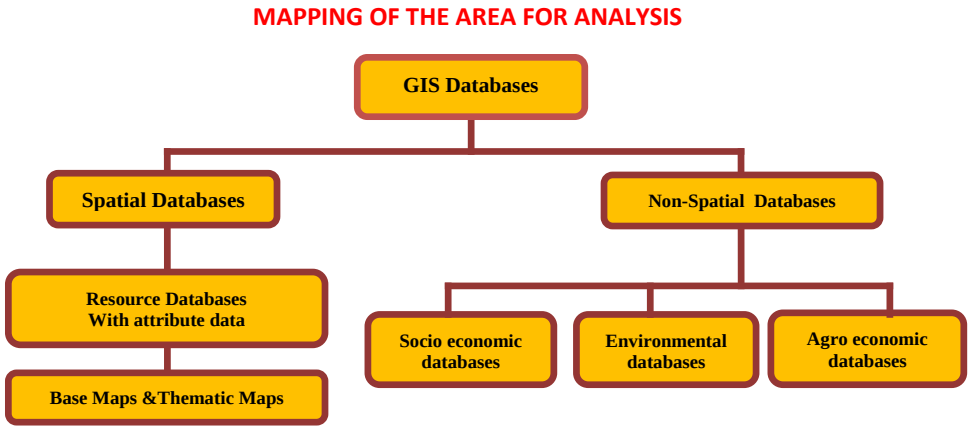


- **Spatial data collected/ generated**
  - Toposheets from Survey of India
  - Administrative Map collection/generation (District, Block, Panchayat/Village)
  - Land use map collection/generation
  - Soil map collection/ generation
  - Digital Elevation Models

- **Non Spatial data collected/ generated**
  - Data collection survey questionnaire.
  - Panchayat& village wise Demographic data.
  - Agricultural, Horticultural, Irrigation, Water resource data
  - Climate/Weather Data [Temperature, Precipitation, Solar Radiation, Related Humidity etc.]

7.2 Mapping & Data Projection

The expert team assessed the situation and arrived at conclusion that preparation of climate change vulnerability assessment report require/ involves several variables.



Mapping of the Area for Analysis

The mapping and superimposing of data shall not only reduce the volume but also help in area specific problem identification. After primary assessment and identification of thrust areas, climatically vulnerable areas mapping on higher resolution has been prepared for detailed analysis possibly at panchayat level to village level.

7.3 Hydrological Modelling

Hydrology is the study of distribution and movement of water on and below the surface of the earth. When studying the hydrology of a landscape, it is critical to consider the role of environmental changes such as land-use and climate. The implications of land use changes on hydrology have been an area of intense interest to research hydrologists over the last fifty or more years. Issues of land use change affecting hydrology include increasing urbanization, changing vegetative cover, land drainage, and changing agricultural practices.

Hydrological modelling and prediction consist of:

(1) Getting to know the landscape through field visits and expert observation;
(2) Collection of field information to feed into the model, including spatial (e.g. topography, land-use/land-cover, soil), and tabular (e.g. weather and climate) data;
(3) Delineation of the watershed – i.e. mapping drainage areas based on topography;
(4) Simulation of the model to represent and quantify water movement and distribution across the landscape using multiple parameters; and
(5) Parameterization – the process of comparing model generated output with field measured information. The final model helps to quantify the amount of surface runoff, infiltration, evaporation, groundwater recharge, snow melting, evapotranspiration based on a water balance equation.

Predictive hydrological modelling is important for water resource managers, as they require information on the amount of flow required to sustain river ecological processes, and to ascertain how much water is available for out of stream use (e.g. irrigation, municipal water use).

The predictive capability of a hydrologic model is also important for "what-if" scenario analysis. Scenario analysis allows the modeller to play around with different land-use and management scenarios to come up with the optimal scenario for water conservation and utilization.

Hydrological modelling is becoming increasingly complex due to climate change. One can not deny the fact that developments in computer technology have revolutionized the study of hydrologic systems and water resources management. Several computer-based hydrologic/water quality models have been developed for applications in hydrologic modelling and water resources studies. Distributed parameter models, necessary for basin-scale studies, have large input data requirements. One such model available is the Soil and Water Assessment Tool (SWAT), a distributed parameter model developed by the United States Department of Agriculture.

SWAT was developed to predict the impact of land management practices on water, sediment and agricultural chemical yields in large complex watersheds with varying soils, land use and management conditions over long period of time. SWAT is a small watershed to river basin-scale model to simulate the quality and quantity of surface and ground water and predict the environmental impact of land use, land management practices, and climate change. SWAT is widely used in assessing soil erosion prevention and control, non-point source pollution control and regional management in watersheds. Soil and Water Assessment Tool (SWAT) model (Arnold et al., 1998; Arnold and Fohrer, 2005) has proven to be an effective tool for assessing water resource for a wide range of scales and environmental conditions across the globe.

The SWAT model allows basin to be divided into subbasins/sub-watersheds, which can further be divided into hydrological response units (HRUs) which are a unique combination of soil and land cover (Gosain et al., 2013). This model has been used in various studies with a wide range of applications.

7.3.1 Open Source Interface for SWAT

The drainage system of four developmental blocks of district Kinnaur, Lahaul & Spiti contributes to Satluj River Basin which further merge into Indus River System. Using SWAT model panchayat/village level micro-watershed maps, drainage maps, hydrological response unit maps developed. An open source GIS interface for the QSWAT Model with Quantum GIS (mapping software) used for modelling.

QSWAT uses a suite of programs called Terrain Analysis Using Digital Elevation Models to perform various geo-processing functions. It also interact with QGIS itself, particularly the layers panel which shows legend information, and the map canvas where the maps are displayed. QSWAT accepts any raster or vector and several spatial databases. QSWAT can delineate watersheds with the capabilities of DEM pit (depression) removal using flooding approach, calculation of flow paths and slopes, calculation of contributing areas using single and multiple flow direction methods, delineation of stream networks using contributing area threshold etc.

QSWAT creates a number of database tables from the watershed delineation and HRU (Hydrological Response Unit) creation steps.

7.3.2 Datasets/Model Inputs

- **Spatial data**
  - **Administrative Maps**
    District Boundaries, Block Boundaries and Panchayat/Village Boundaries digitized from available toposheets.

  - **DEM (Digital Elevation Model)**
    SRTM (Radar Topography Mission of NASA) Digital Elevation Model data with 30 meter resolution used for drainage and micro-watershed delineation.

  - **Land use Land Cover**
    MODIS (Moderate-resolution Imaging Spectro-radiometer) -based Global Land Cover with 500 meter resolution used.

- **Climate/Weather Data (Non-spatial data)**
  Following climate/weather data is required:
  - Temperature (C)
  - Precipitation (mm)
  - Wind (m/s)
  - Relative Humidity (fraction)
  - Solar Radiation

  SWAT requires hourly data on above perimeters. Long term global data for these parameteris used for hydrological modelling.

7.3.3 SWAT Model Results

- SWAT Model generates micro-watershed drainage maps and following output:

Output generated on each monitoring point of the watershed drainage

S.NO.	VARIABLE	DEFINITION
1	RCH	Reach number.
2	GIS	GIS number reprinted from watershed configuration (.fig) file.
3	MON	Daily time step: the julian date, Monthly time step: the month (1-12), Annual time step: 4-digit year, Average annual summary lines: number of years averaged together
4	AREA	Area drained by reach (km2).
5	FLOW_IN	Average daily streamflow into reach during time step (m3/s).
6	FLOW_OUT	Average daily streamflow out of reach during time step (m3/s).
7	EVAP	Average daily rate of water loss from reach by evaporation during time step (m3/s).
8	TLOSS	Average daily rate of water loss from reach by transmission through the streambed during time step (m3/s).
9	SED_IN	Sediment transported with water into reach during time step (metric tons).
10	SED_OUT	Sediment transported with water out of reach during time step (metric tons).
11	SEDCONC	Concentration of sediment in reach during time step (mg/L).
12	ORGN_IN	Organic nitrogen transported with water into reach during time step (kg N).
13	ORGN_OUT	Organic nitrogen transported with water out of reach during time step (kg N).
14	ORGP_IN	Organic phosphorus transported with water into reach during time step (kg P).
15	ORGP_OUT	Organic phosphorus transported with water out of reach during time step (kg P).

S.NO.	VARIABLE	DEFINITION
16	NO3_IN	Nitrate transported with water into reach during time step (kg N).
17	NO3_OUT	Nitrate transported with water out of reach during time step (kg N).
18	NH4_IN	Ammonium transported with water into reach during time step (kg N).
19	NH4_OUT	Ammonium transported with water out of reach during time step (kg N).
20	NO2_IN	Nitrite transported with water into reach during time step (kg N).
21	NO2_OUT	Nitrite transported with water out of reach during time step (kg N).
22	MINP_IN	Mineral phosphorus transported with water into reach during time step (kg P).
23	MINP_OUT	Mineral phosphorus transported with water out of reach during time step (kg P).
24	ALGAE_IN	Algal biomass transported with water into reach during time step (kg chl-a).
25	ALGAE_OUT	Algal biomass transported with water out of reach during time step (kg chl-a).
26	CBOD_IN	Carbonaceous biochemical oxygen demand of material transported into reach during time step (kg O2).
27	CBOD_OUT	Carbonaceous biochemical oxygen demand of material transported out of reach during time step (kg O2).
28	DISOX_IN	Amount of dissolved oxygen transported into reach during time step (kg O2).
29	DISOX_OUT	Amount of dissolved oxygen transported out of reach during time step (kg O2).
30	SOLPST_IN	Soluble pesticide transported with water into reach during time step (mg active ingredient)
31	SOLPST_OUT	Soluble pesticide transported with water out of reach during time step (mg active ingredient).
32	SORPST_IN	Pesticide sorbed to sediment transported with water into reach during time step (mg active ingredient).
33	SORPST_OUT	Pesticide sorbed to sediment transported with water out of reach during time step (mg active ingredient).
34	REACTPST	Loss of pesticide from water by reaction during time step (mg active ingredient).
35	VOLPST	Loss of pesticide from water by volatilization during time step (mg active ingredient).
36	SETTLPST	Transfer of pesticide from water to river bed sediment by settling during time step (mg active ingredient).
37	RESUSP_PST	Transfer of pesticide from river bed sediment to water by resuspension during time step (mg active ingredient).
38	DIFFUSEPST	Transfer of pesticide from water to river bed sediment by diffusion during time step (mg active ingredient).
39	REACBEDPST	Loss of pesticide from river bed sediment by reaction during time step (mg active ingredient).
40	BURYPST	Loss of pesticide from river bed sediment by burial during time step (mg active ingredient).
41	BED_PST	Pesticide in river bed sediment during time step (mg active ingredient).
42	BACTP_OUT	Number of persistent bacteria transported out of reach during time step (# cfu/100 mL).
43	BACTLP_OUT	Number of less persistent bacteria transported out of reach during time step (# cfu/100 mL).
44	CMETAL#1	Conservative metal #1 transported out of reach (kg).
45	CMETAL#2	Conservative metal #2 transported out of reach (kg).
46	CMETAL#3	Conservative metal #3 transported out of reach (kg).
47	TOT_N	Total nitrogen transported with water out of reach during time step (kg N).
48	TOT_P	Total phosphorus transported with water out of reach during time step (kg P).
49	NO3CONC	Nitrate concentration transported with water out of reach during time step (mg/l).

Output generated for each watersheds of the river basin

S.NO.	VARIABLE	DEFINITION
1	SUB	Subbasin number.
2	GIS	GIS code reprinted from watershed configuration file (.fig). See explanation of subbasin command.
3	MON	Daily time step: the julian date, Monthly time step: the month (1-12), Annual time step: 4-digit year, Average annual summary lines: number of years averaged together
4	AREA	Area of the subbasin (km2).
5	PRECIP	Total amount of precipitation falling on the subbasin during time step (mm

S.NO.	VARIABLE	DEFINITION
		H2O).
6	SNOMELT	Amount of snow or ice melting during time step (water-equivalent mm H2O).
7	PET	Potential evapotranspiration from the subbasin during the time step (mm H2O).
8	ET	Actual evapotranspiration from the subbasin during the time step (mm).
9	SW	Soil water content (mm). Amount of water in the soil profile at the end of the time period.
10	PERC	Water that percolates past the root zone during the time step (mm). There is potentially a lag between the time the water leaves the bottom of the root zone and reaches the shallow aquifer. Over a long period of time, this variable should equal groundwater percolation.
11	SURQ	Surface runoff contribution to streamflow during time step (mm H2O).
12	GW_Q	Groundwater contribution to streamflow (mm). Water from the shallow aquifer that returns to the reach during the time step.
13	WYLD	Water yield (mm H2O). The net amount of water that leaves the subbasin and contributes to streamflow in the reach during the time step. (WYLD = SURQ + LATQ + GWQ – TLOSS – pond abstractions)
14	SYLD	Sediment yield (metric tons/ha). Sediment from the subbasin that is transported into the reach during the time step.
15	ORGN	Organic N yield (kg N/ha). Organic nitrogen transported out of the subbasin and into the reach during the time step.
16	ORGP	Organic P yield (kg P/ha). Organic phosphorus transported with sediment into the reach during the time step.
17	NSURQ	NO3 in surface runoff (kg N/ha). Nitrate transported by the surface runoff into the reach during the time step.
18	SOLP	Soluble P yield (kg P/ha). Phosphorus that is transported by surface runoff into the reach during the time step.
19	SEDP	Mineral P yield (kg P/ha). Mineral phosphorus attached to sediment that is transported by surface runoff into the reach during the time step.
20	LATQ	Lateral flow contribution to streamflow during timestep (mm H2O)
21	LAT_Q_NO3	Lateral flow nitarte contributions to streamflow (kh/ha)
22	GWMO3	Groundwater nitarte contributions to streamflow (kh/ha)
23	CHOLA	CHLOROPHYLL-A LOADING ON DAY FROM SUBBASIN (kg chl-a) (only printed for daily – other options print 0.0)
24	CBODU	CARBONACEOUS BIOLOGICAL OXYGEN DEMAND LOADING ON DAY FROM SUBBASIN (kg cbod) (only printed for daily – other options print 0.0)
25	DOXQ	DISSOLVED OXYGEN LOADING ON DAY FROM SUBBASIN (kg O2) (only printed for daily – other options print 0.0)
26	TNO3	NO3 IN TILE FLOW IN DAY IN SUBBASIN (kg N/ha)

Output generated for each Hydrological Response Unit

S.NO.	VARIABLE	DEFINITION
1	LULC	Four letter character code for the cover/plant on the HRU. (code from crop.dat file)
2	HRU	Hydrologic response unit number
3	GIS	GIS code reprinted from watershed configuration file (.fig). See explanation of subbasin command (Chapter 2).
4	SUB	Topographically-defined subbasin to which the HRU belongs.
5	MGT	Management number. This is pulled from the management (.mgt) file. Used by the SWAT/GRASS interface to allow development of output maps by landuse/management type.
6	MON	Daily time step: the julian date, Monthly time step: the month (1-12), Annual time step: 4-digit year, Average annual summary lines: number of years averaged together
7	AREA	Drainage area of the HRU (km2).
8	PRECIP	Total amount of precipitation falling on the HRU during time step (mm H2O).
9	SNOFALL	Amount of precipitation falling as snow, sleet or freezing rain during time step (water-equivalent mm H2O).
10	SNOMELT	Amount of snow or ice melting during time step (water-equivalent mm H2O).
11	IRR	Irrigation (mm H2O). Amount of irrigation water applied to HRU during the time step.
12	PET	Potential evapotranspiration (mm H2O). Potential evapotranspiration from

S.NO.	VARIABLE	DEFINITION
		the HRU during the time step.
13	ET	Actual evapotranspiration (soil evaporation and plant transpiration) from the HRU during the time step (mm H2O).
14	SW_INIT	Soil water content (mm H2O). For daily output, this column provides the amount of water in soil profile at beginning of day. For monthly and annual output, this is the average soil water content for the time period. The amount of water in the soil profile at the beginning of the day is used to calculate daily curve number values.
15	SW_END	Soil water content (mm H2O). Amount of water in the soil profile at the end of the time period (day, month or year).
16	PERC	Water that percolates past the root zone during the time step (mm H2O). There is usually a lag between the time the water leaves the bottom of the root zone and reaches the shallow aquifer. Over a long period of time, this variable should equal groundwater recharge (PERC = GW_RCHG as time → ∞).
17	GW_RCHG	Recharge entering aquifers during time step (total amount of water entering shallow and deep aquifers during time step) (mm H2O).
18	DA_RCHG	Deep aquifer recharge (mm H2O). The amount of water from the root zone that recharges the deep aquifer during the time step. (shallow aquifer recharge = GW_RCHG - DA_RCHG)
19	REVAP	Water in the shallow aquifer returning to the root zone in response to a moisture deficit during the time step (mm H2O). The variable also includes water uptake directly from the shallow aquifer by deep tree and shrub roots.
20	SA_IRR	Irrigation from shallow aquifer (mm H2O). Amount of water removed from the shallow aquifer for irrigation during the time step.
21	DA_IRR	Irrigation from deep aquifer (mm H2O). Amount of water removed from the deep aquifer for irrigation during the time step.
22	SA_ST	Shallow aquifer storage (mm H2O). Amount of water in the shallow aquifer at the end of the time period.
23	DA_ST	Deep aquifer storage (mm H2O). Amount of water in the deep aquifer at the end of the time period.
24	SURQ_GEN	Surface runoff generated in HRU during time step (mm H2O).
25	SURQ_CNT	Surface runoff contribution to streamflow in the main channel during time step (mm H2O).
26	TLOSS	Transmission losses (mm H2O). Water lost from tributary channels in the HRU via transmission through the bed. This water becomes recharge for the shallow aquifer during the time step. Net surface runoff contribution to the main channel streamflow is calculated by subtracting TLOSS from SURQ.
27	LATQ	Lateral flow contribution to streamflow (mm H2O). Water flowing laterally within the soil profile that enters the main channel during time step.
28	GW_Q	Groundwater contribution to streamflow (mm H2O). Water from the shallow aquifer that enters the main channel during the time step. Groundwater flow is also referred to as baseflow.
29	WYLD	Water yield (mm H2O). Total amount of water leaving the HRU and entering main channel during the time step. (WYLD = SURQ + LATQ + GWQ – TLOSS – pond abstractions)
30	DAILYCN	Average curve number for time period. The curve number adjusted for soil moisture content.
31	TMP_AV	Average daily air temperature (°C). Average of mean daily air temperature for time period.
32	TMP_MX	Average maximum air temperature (°C). Average of maximum daily air temperatures for time period.
33	TMP_MN	Average minimum air temperature (°C). Average of minimum daily air temperatures for time period.
34	SOL_TMP	Soil temperature (°C). Average soil temperature of first soil layer for time period.
35	SOLAR	Average daily solar radiation (MJ/m2). Average of daily solar radiation values for time period.
36	SYLD	Sediment yield (metric tons/ha). Sediment from the HRU that is transported into the main channel during the time step.
37	USLE	Soil loss during the time step calculated with the USLE equation (metric tons/ha). This value is reported for comparison purposes only.
38	N_APP	Nitrogen fertilizer applied (kg N/ha). Total amount of nitrogen (mineral and

S.NO.	VARIABLE	DEFINITION
		organic) applied in regular fertilizer operations during the time step.
39	P_APP	Phosphorus fertilizer applied (kg P/ha). Total amount of phosphorus (mineral and organic) applied in regular fertilizer operations during the time step.
40	NAUTO	Nitrogen fertilizer auto-applied (kg N/ha). Total amount of nitrogen (mineral and organic) auto-applied during the time step.
41	PAUTO	Phosphorus fertilizer auto-applied (kg P/ha). Total amount of phosphorus (mineral and organic) auto-applied during the time step.
42	NGRZ	Nitrogen applied during grazing operation (kg N/ha). Total amount of nitrogen (mineral and organic) added to soil by grazing operation during the time step.
43	PGRZ	Phosphorus applied during grazing operation (kg P/ha). Total amount of phosphorus (mineral and organic) added to soil by grazing operation during the time step.
44	CFERTN	Nitrogen applied during continuous fertilizer operation (kg N/ha). Total amount of nitrogen (mineral and organic) added to soil by continuous fertilizer operation during time step.
45	CFERTP	Phosphorus applied during continuous fertilizer operation (kg P/ha). Total amount of phosphorus (mineral and organic) added to soil by continuous fertilizer operation during time step.
46	NRAIN	Nitrate added to soil profile by rain (kg N/ha).
47	NFIX	Nitrogen fixation (kg N/ha). Amount of nitrogen fixed by legumes during the time step.
48	F-MN	Fresh organic to mineral N (kg N/ha). Mineralization of nitrogen from the fresh residue pool to the nitrate (80%) pool and active organic nitrogen (20%) pool during the time step. A positive value denotes a net gain in the nitrate and active organic pools from the fresh organic pool while a negative value denotes a net gain in the fresh organic pool from the nitrate and active organic pools.
49	A-MN	Active organic to mineral N (kg N/ha). Movement of nitrogen from the active organic pool to the nitrate pool during the time step.
50	A-SN	Active organic to stable organic N (kg N/ha). Movement of nitrogen from the active organic pool to the stable organic pool during the time step.
51	F-MP	Fresh organic to mineral P (kg P/ha). Mineralization of phosphorus from the fresh residue pool to the labile (80%) pool (P in solution) and the active organic (20%) pool. A positive value denotes a net gain in solution and active organic pools from the fresh organic pool while a negative value denotes a net gain in the fresh organic pool from the labile and active organic pools.
52	AO-LP	Organic to labile mineral P (kg P/ha). Movement of phosphorus between the organic pool and the labile mineral pool during the time step. A positive value denotes a net gain in the labile pool from the organic pool while a negative value denotes a net gain in the organic pool from the labile pool.
53	L-AP	Labile to active mineral P (kg P/ha). Movement or transformation of phosphorus between the "labile" mineral pool (P in solution) and the "active" mineral pool (P sorbed to the surface of soil particles) during the time step. A positive value denotes a net gain in the active pool from the labile pool while a negative value denotes a net gain in the labile pool from the active pool.
54	A-SP	Active to stable P (kg P/ha). Movement or transformation of phosphorus between the "active" mineral pool (P sorbed to the surface of soil particles) and the "stable" mineral pool (P fixed in soil) during the time step. A positive value denotes a net gain in the stable pool from the active pool while a negative value denotes a net gain in the active pool from the stable pool.
55	DNIT	Denitrification (kg N/ha). Transformation of nitrate to gaseous compounds during the time step.
56	NUP	Plant uptake of nitrogen (kg N/ha). Nitrogen removed from soil by plants during the time step.
57	PUP	Plant uptake of phosphorus (kg P/ha). Phosphorus removed from soil by plants during the time step.
58	ORGN	Organic N yield (kg N/ha). Organic nitrogen transported out of the HRU and into the reach during the time step.
59	ORGP	Organic P yield (kg P/ha). Organic phosphorus transported with sediment into the reach during the time step.
60	SEDP	Sediment P yield (kg P/ha). Mineral phosphorus sorbed to sediment transported into the reach during the time step.
61	NSURQ	NO3 in surface runoff (kg N/ha). Nitrate transported with surface runoff into

S.NO.	VARIABLE	DEFINITION
		the reach during the time step.
62	NLATQ	NO3 in lateral flow (kg N/ha). Nitrate transported by lateral flow into the reach during the time step.
63	NO3L	NO3 leached from the soil profile (kg N/ha). Nitrate that leaches past the bottom of the soil profile during the time step. The nitrate is not tracked through the shallow aquifer.
64	NO3GW	NO3 transported into main channel in the groundwater loading from the HRU (kg N/ha).
65	SOLP	Soluble P yield (kg P/ha). Soluble mineral forms of phosphorus transported by surface runoff into the reach during the time step.
66	P_GW	Soluble phosphorus transported by groundwater flow into main channel during the time step (kg P/ha).
67	W_STRS	Water stress days during the time step (days).
68	TMP_STRS	Temperature stress days during the time step (days).
69	N_STRS	Nitrogen stress days during the time step (days).
70	P_STRS	Phosphorus stress days during the time step (days).
71	BIOM	Biomass (metric tons/ha). Total biomass, i.e. aboveground and roots at the end of the time period reported as dry weight.
72	LAI	Leaf area index at the end of the time period.
73	YLD	Harvested yield (metric tons/ha). The model partitions yield from the total biomass on a daily basis (and reports it). However, the actual yield is not known until it is harvested. The harvested yield is reported as dry weight.
74	BACTP	Number of persistent bacteria in surface runoff entering reach (# cfu/100 mL).
75	BACTLP	Number of less persistent bacteria in surface runoff entering reach (#cfu/100 mL).
76	WATB_CLI	Water table from above the soil profile (mm) (daily output only; not used in tile flow equations)
77	WATB_SOL	Water table depth from the bottom of the soil surface (mm) (daily output only; not used in tile flow equations)
78	SNO	Snow water content (mm)
79	CMUP	Current soil carbon for first soil layer (kg/ha).
80	CMTOT	Current soil carbon integrated for all soil layers (kg/ha)
81	QTILE	Drain tile flow in soil profile for the day (mm)
82	TNO3	Amount of NO3-N in tile flow in HRU (kg N/ha).
83	LN03	Amount of NO3-N in lateral flow in HRU (kg N/ha).

These outcomes is helpful for further identification of various soil and water parameters like water balance, water quality and water scarcity pockets at panchayat/village level. The hydrological results and maps generated are used as inputs for Climate Change Vulnerability Assessment Analysis.

7.4 Climate Change Vulnerability

Index approach methodology to determine Vulnerability has been adopted for analysis. This index is based on several set of indicators that indicates the vulnerability of a region. It produces a single number, which is used to compare vulnerability levels of different regions. Literature on index number construction specifies that there should be good internal correlation between these indicators. The relevance of this criterion depends on the relationship between the indicators and the construct they are supposed to measure. For this we must know whether the index is based on a 'reflexive' or a 'formative' measurement model.

In the reflexive measurement model, the construct is thought to influence the indicators. For example, a poverty index is a good example of reflexive measurement because poverty influences the indicators such as literacy; expenditure and so on and all these indicators are correlated. On the other hand in the formative model the indicators are assumed contribute to the construct. In the case of vulnerability index, all the indicators chosen by the researcher have impact on vulnerability of the region to climate change. For example,

frequency of extreme events such as flood, drought earth-quakes, and length of coastline all contribute to vulnerability of the region to climate change. Hence vulnerability index is a formative measurement and the indicators chosen need not have internal correlation.

7.4.1 Arrangement of Data

For each component of vulnerability, the collected data is arranged in the form of a rectangular matrix with rows representing regions/areas/panchayats/village and columns representing indicators. Let there be M regions/districts and let us say we have collected K indicators. Let X_{ij} be the value of the indicator *j* corresponding to region *i*. Then the table will have M rows and Kcolumns as shown below:

Panchayat/Village	**Indicator**					
	1	**2**	**-**	**J**	**-**	**K**
1	X_{11}	X_{12}	-	X_{1j}	-	X_{1K}
2	-	-	-	-	-	-
-	-	-	-	-	-	-
L	X_{i1}	X_{i2}	-	X_{ij}	-	X_{iK}
-	-	-	-	-	-	-
M	X_{m1}	X_{M2}	-	X_{Mj}	-	X

7.4.2 Normalization of Indicators using Functional Relationship

Obviously the indicators are in different units and scales. The methodology used in UNDP's Human Development Index (HDI) (UNDP, 2006) is followed to normalize them. That is, in order to obtain figures which are free from the units and also to standardize their values, first they are normalized so that they all lie between 0 and 1.

Before doing this, it is important to identify the functional relationship between the indicators and vulnerability. Two types of functional relationship are possible: vulnerability increases with increase (decrease) in the value of the indicator. Assume that higher the value of the indicator more is the vulnerability.

For example, suppose we have collected information on change in maximum temperature or change in annual rainfall or diurnal variation in temperature. It is clear that higher the values of these indicators more will be the vulnerability of the region to climate change as variation in climate variables increase the vulnerability. In this case we say that the variables have ↑ functional relationship with vulnerability and the normalization is done using the formula

$$x_{ij} = \frac{X_{ij} - Min_i\{X_{ij}\}}{Max_i\{X_{ij}\} - Min_i\{X_{ij}\}}$$

It is clear that all these scores will lie between 0 and 1. The value 1 will correspond to that region/area/panchayat/village with maximum value and 0 will correspond to the region with minimum value.

On the other hand, consider adult literacy rate. A high value of this variable implies more literates in the region and so they will have more awareness to cope with climate change. So the vulnerability will be lower and adult literacy rate has ↓ functional relationship with vulnerability. For this case the normalized score is computed using the formula

$$y_{ij} = \frac{Max_i\{X_{ij}\} - X_{ij}}{Max_i\{X_{ij}\} - Min_i\{X_{ij}\}}$$

It can be easily checked that $x_{ij} + y_{ij} = 1$ so that y_{ij} can be calculated as $y_{ij} = 1 - x_{ij}$. Forthe above table the functional relationship of the variables with vulnerability can be given as:

Variables	Functional Relationship
Variance in annual rainfall (mm^2)	↑
Diurnal variance in temperature	↑
Total food grains (tonnes)/Net Sown Area (NSA)	↓
Cropping Intensity	↓
Agrl. labourers / Ha of NSA	↓
Literacy Rate (%)	↓

7.4.3 Construction of Vulnerability Index

Construction of vulnerability index consists of several steps. First is the selection of study area which consists of several regions. In our case we have selected the area of Satluj River Basin covering nine development block of district Kinnaur, Lahaul & Spiti districts i.e. Spiti, Nichar, Kalpa & Pooh.

In each region a set of indicators have been selected for each of the three components of vulnerability i.e. Exposure, Sensitivity, Adaptive Capacity. The indicators have been selected based on the availability of data and previous research. Since vulnerability is dynamic over period, it is important that all the indicators relate to the particular year selected. We have tried to assess vulnerability assessment over the years, depending upon the availability of data for each year for all the indicators in each block that too at village level.

After computing the normalized scores the index is constructed by giving either equal weights to all indicators/components. When equal weights are given we use simple averageof all the normalized scores to construct the vulnerability index by using the formula:

$$V = f(I - AC)$$

The first two components together represent the potential impact and adaptive capacity is the extent to which these impacts can be averted. Thus vulnerability is potential impact (*I*) minus adaptive capacity (*AC*).

Finally, the Vulnerability Indexes will be used to rank the different regions in terms of vulnerability. A region with highest index is said to be most vulnerable and it is given the rank1, the region with next highest index is assigned rank 2 and so on.

7.5 Climate Change Adaptation Framework

Based upon the results of the climate change vulnerability analysis a village/ panchayat level climate change vulnerability maps will be generated and all the villages/ panchayates will be placed under six levels of vulnerability i.e. extreme, very high, high, moderate, low and very low. Based upon the position of the villages/ panchayates corresponding to the vulnerability values/ level the suggestive adaptive plan/framework will be formulated.

8

Hydrological Modelling Outputs

8 Hydrological Modelling Outputs

The project basically aims to formulate climate change adaptation plan based upon the climate change vulnerability assessment at village/ panchayat level of district Kinnaur, Lahaul & Spiti. Through earlier studies it has been observed that Kinnaur, Lahaul & Spiti district are climatically vulnerable, but in absence of availability regional information on water balance, water quality and water yield several challenges remain unattended.

Climate changes have had marked impacts on the natural systems. However its impact will be significant with the hydrological cycle, therefore, hydrological modelling is essential in the analysing process. It is agreed that climate change have adverse impacts on socio-economic development.The hydrological modelling is a valuable tool to aid in quantification of water quality and yield. Since the study is being carried out in four developmental blocks of the district Kinnaur, Lahaul & Spiti at panchayat/village level, it is appropriate to narrow down the scale from catchment to micro-watershed level.

8.1 Open Source Interface Management (QGIS & QSWAT)

The Open-source geospatial techniques is used to prepare various thematic maps of study area influence land use, soil, drainage, and slope used as input for SWAT model. SWAT model proves as an effective tool in simulating the hydrology of large basins at watershed scale. This gives simulated results of each parameter. The estimated parameters therefore used for many purposes of study such as agricultural water management, climate change impact assessment, flow forecasting, water quality assessment etc. This water balance study minimizes risk of drought and mismanagement, and hence leads to a proper utilization of water resource available. Water regime of the specific area is well understood by assessment of resources. Water balance is best way of determining availability of water in different components of hydrological cycle and changes in between these components.

QGIS (Quantum GIS) is a cross-platform free and open-source desktop geographic information system (GIS) application that is used for creating, viewing, editing, and analysis of geospatial data. Block boundaries, Census villages and other maps are developed using QGIS.

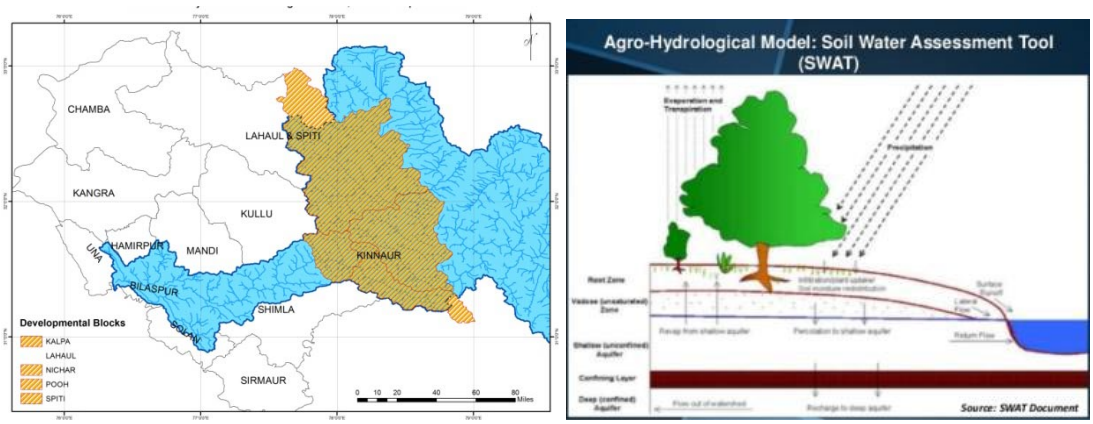


Figure 8.1: QGIS Application Interface & Hydrological Model

An open source GIS interface for the QSWAT Model with Quantum GIS (mapping software) is used for hydrological modelling.

8.2 Datasets/Model Inputs (Spatial & Temporal)

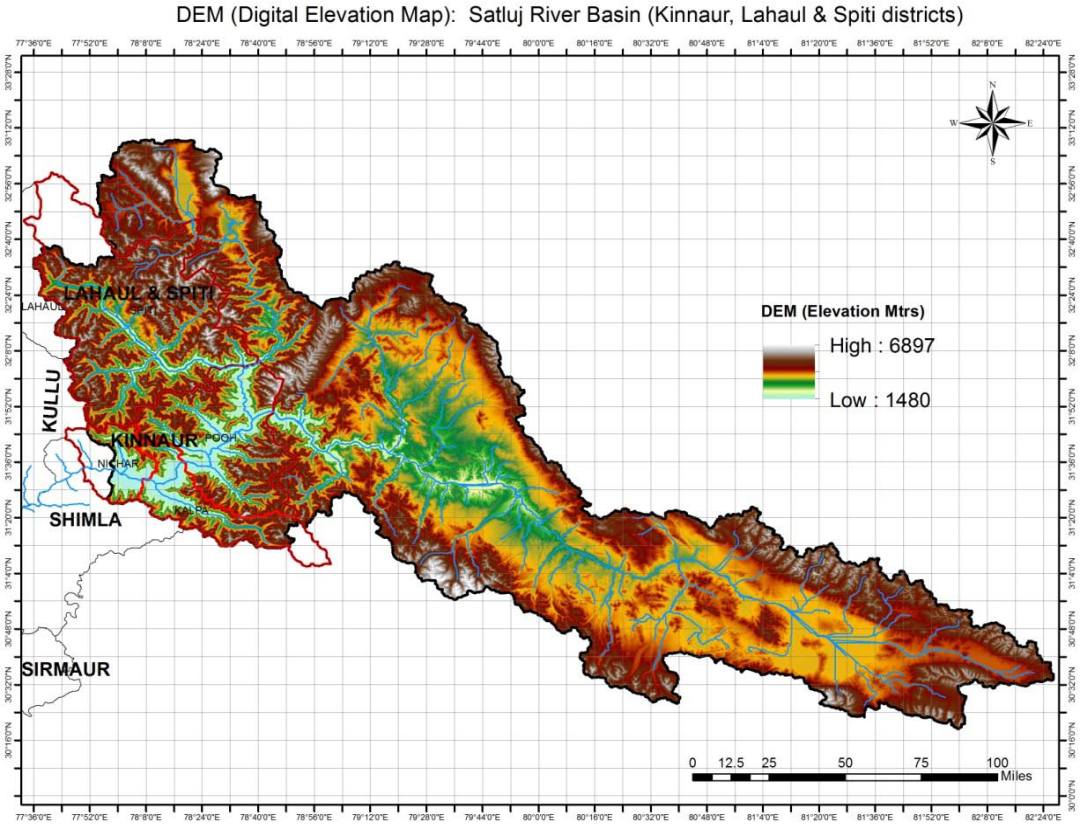
Spatial data

- **Administrative Maps**

Digitization of District, Blocks, Village map boundaries of district Kinnaur, Lahaul & Spiti toposheets of Survey of India prepared on 1:50,000 scales for the use of general public/civilians for supporting development activities in the country. Technically maps of this series are based on WGS-84 Datum and UTM Projection.

- **DEM (Digital Elevation Model)**

The Digital Elevation Model (DEM) used in this study is taken from National Aeronautics and Space Administration (NASA) Shuttle Radar Topography Mission (SRTM), at 3 arc second (30 meter resolution). SRTM generated elevation data for near global scale. The USGS has begun to distribute global Shuttle Radar Topography Mission (SRTM) elevation data at 1 arc-second (~30m) resolution. Previously SRTM data at this resolution have only been available for the US and its territories.



Map 8.1: Digital Elevation Model (Satluj Basin –Kinnaur, Lahaul & Spiti)

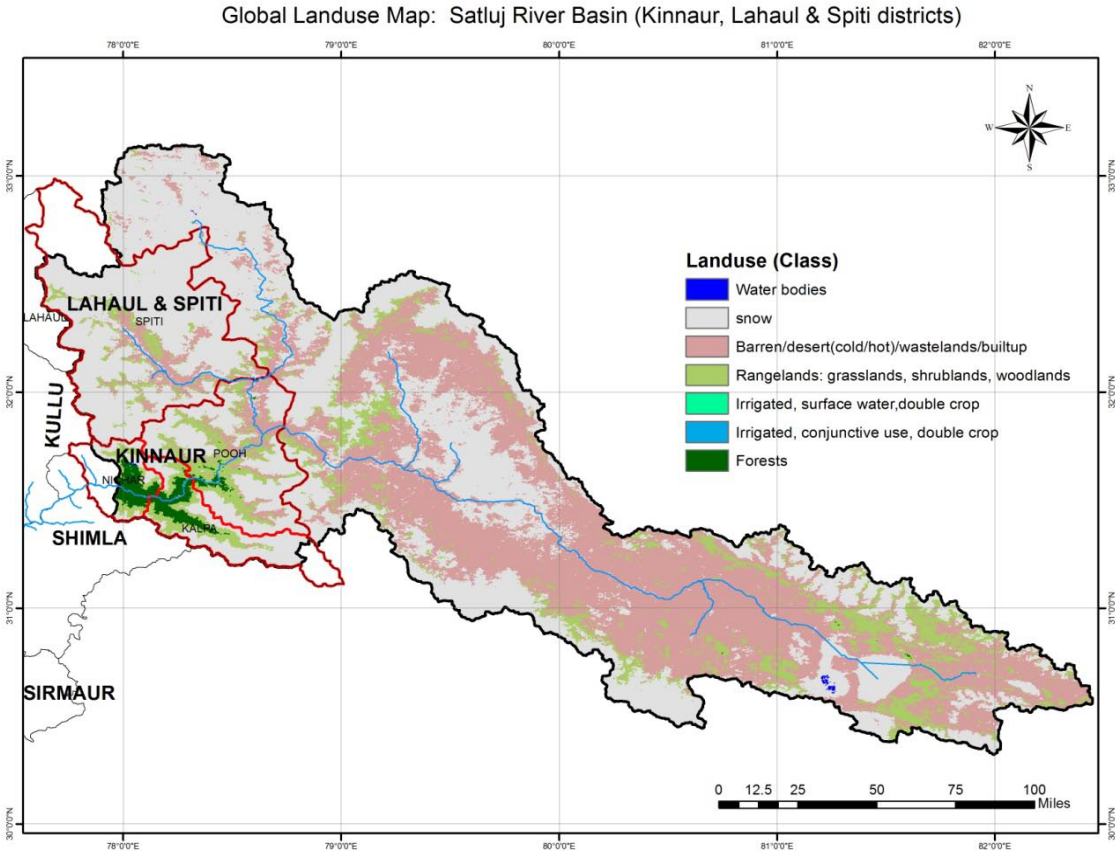
The above map shows the Digital Elevation Model Map of Satluj Basin falling in Kinnaur, Lahaul & Spiti districts. Map 8.1 indicates that the elevation of the Satluj River Basin varies between 1,480 mtrs. to 6,897 meters.

- **Land use Land Cover& Soil Map**

Maps that reflect the land resources and types of land use in the national economy. Land use maps are subdivided into land resource, land in service, and agricultural land use maps.Land use maps are the basis for the registration and qualitative and

economic evaluation (cadastres) of land resources. They show the relationship between lands in service and natural conditions, knowledge of which is essential for scientific planning of the rational use of land.

Land use data for hydrological modelling and climate change assessment studies was obtained from the U.S. Geological Survey (USGS) Land Cover Institute (LCI), i.e. Global Land Cover 2000 (GLC 2000) and Thematic Services, Bhuvan - LULC Vector data of 2005-06, Multi-temporal satellite data of 2011-12 from Resourcesat-2 LISS III



Map 8.2: Landuse Map

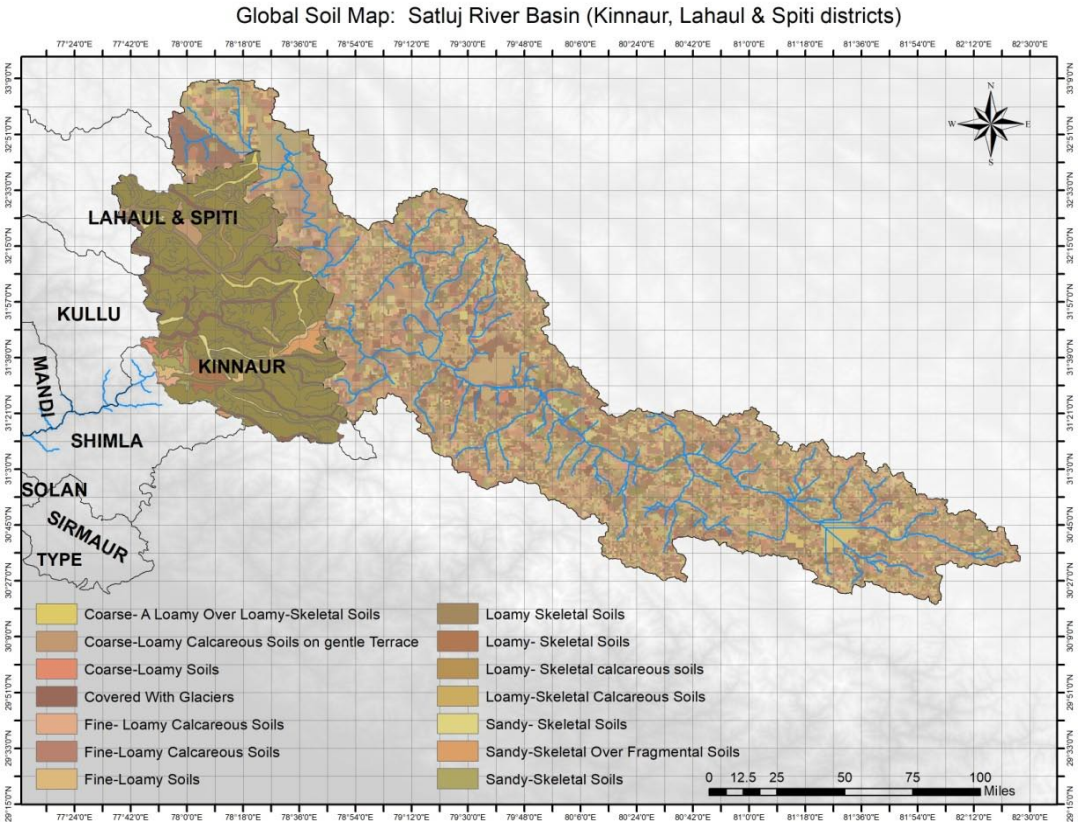
There is scattered vegetation of Himalayan Moist temperate mixed forests and Dry Alpine scrub or grass lands are found in the lower Satluj basin. Higher slopes are rocky and barren and without vegetation cover.

Agriculture is the main occupation ofthe people. Almost all the district is barren and a little portion of area is under cultivation. The economicdistress of the people can very well be imagined in view of the meagre and limited quantity of landavailable for cultivation. The valleys are extremely narrow with steep mountains and rivers runningthrough deep gorges.

In proportion to its vast areas, whatever land fit for agriculture is available, lies in small plots between sixty to one hundred metres above the river beds. What hampers the extent ofagricultural operations is not only the shortage of flat lands or lands with gentle slopes safe against erosionbut also the non-availability of adequate source of water for irrigation.

The cultivation is possible in smallpatches of holdings in the high hills or in the basins of streams and khads. It is only in the basins of theriver, streams and khads that the land is fertile and little bit flat and cultivation of cereals and pulses, potato and off season

vegetables is intensively done. Sloppy areas of high altitudes are not so much fertiledue to soil erosion.



Map 8.3: Soil Map

The geology of the Satluj basin sitituated within the State is mainly composed of Haimanta Group and Granities (unclassified). While Blaini/Infra-Krol formations, Nagthat Group, Triassie formations and Jutogh group of geological formations are also found in the district. The soil of the district as classified by National Bureau of Soil Survey and Land Use Planning (I.C.A.R.) Nagpur, are Udalfs (20), Orthents-Ochrepts (58), Orthents-Ochrepts–Udalfs (82) and Glaciers and Snow Cap (103) types of soils.

Lithological area is comprised of sand, stones, shells, slates, phyllite andlimestones and the depth of the soil cap is generally shallow in the upland areas. The soil at any place isderived from the rocks, which crop out in its neighborhood and varies as rapidly as its parent rocks. Themica schist's most commonly give a stiff reddish loam or stiff red clay. This type of soil is mainlysiliceous and aluminous. It is poor in lime, magnesia and phosphorus nitrogen but fairly rich in potash, insome parts being quite rich in potassium derived from the muscovite of the schist's.

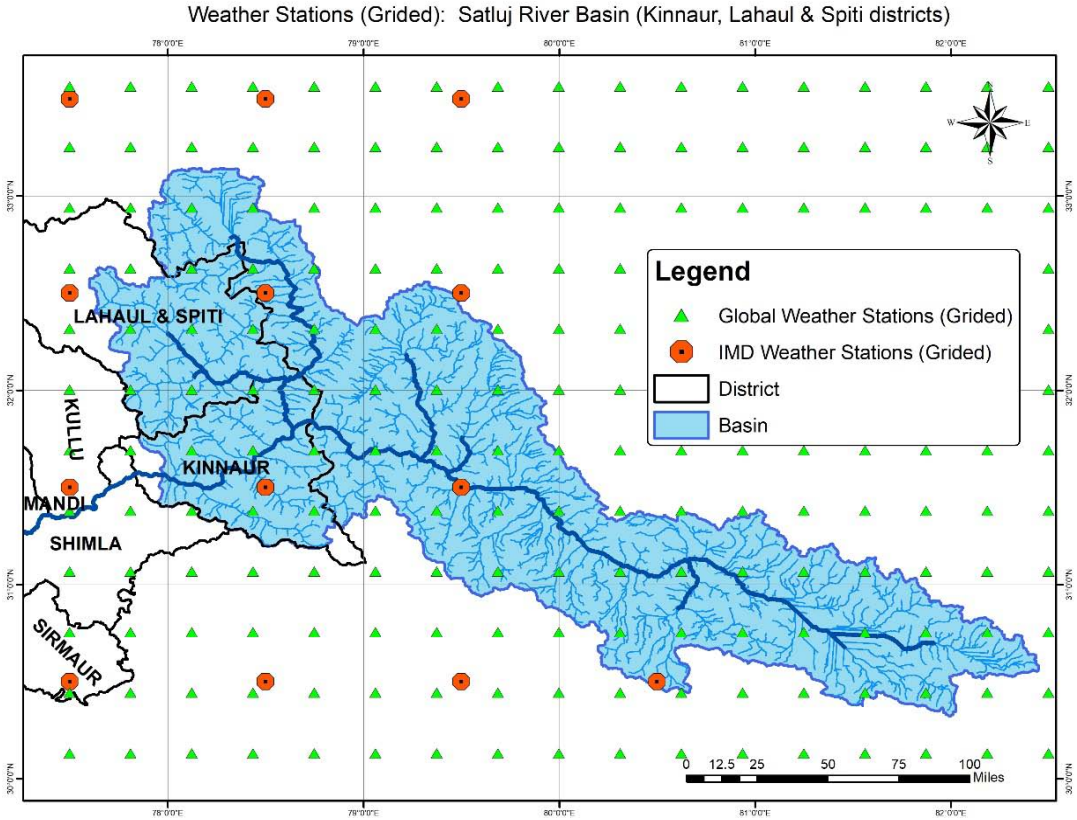
The quartzites arevery resistant to weathering and predominantly siliceous. Little or no soil accumulates on the surface ofpure quartzites because the debris from it contains no binding matter and is easily washed away as quicklyas it is formed. The shales, slates and phyllite are rather soft and decay more easily. They are in most caseswell covered with soil which supports vegetation's. The limestones mostly occur in broken hilly areas andsuch hills are dry without any useful forest cover.

- **Climate/Weather Data (Non-spatial data)**

  Following climate/weather data has beenacquired to run SWAT:
  - Temperature (C)
  - Precipitation (mm)

- Wind (m/s)
- Relative Humidity (fraction)
- Solar Radiation

SWAT requires hourly data on above perimeters. The National Centers for Environment Prediction (NCEP) Climate Forecast System analysis(CFSR) developed a 34 year climate data sets (1979 to 2013).The CFSR integrated two types of precipitation data sets for land area which are the CPC Merged Analysis of Precipitation (CMAP) with 2.5^{o} resolution and the CPC unified global daily gauge analysis data at 0.5^{o} resolution.Climate data sets for the study area such as precipitation, solar radiation, relative humidity, air temperature, wind speed was obtained from the CFSR. Gridded data published by IMD for 68 rain years (1951–2018) has also been processed into SWAT for hydrological analysis for the area of Satluj Basin falling within the Country.



Map 8.4: Weather Stations Location Map

The weather data for station nearby study area has been downloaded from http://globalweather.tamu.edu site. The daily data such as precipitation (mm), Temperature (^{o}C), Wind velocity (m/s) and solar radiation (MJ/ m2) available for station has been used. To generate weather database for QSWAT input, various parameters related temperature, precipitation and dew point temperatures were calculated. Calculation of TMPMX, TMPMN, TMPSTDMX, SOLARAV, WNDAV has also been carried out.

8.3 Watershed Delineation & SWAT Model Run

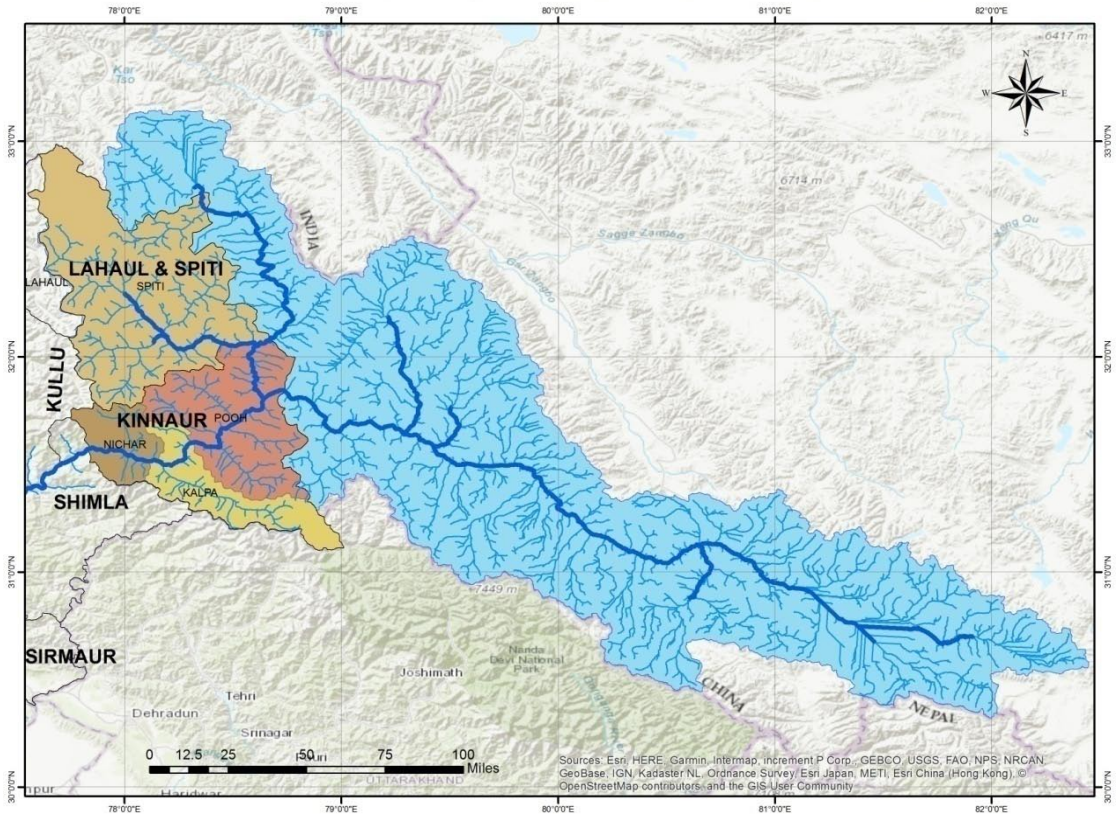
Watershed delineation based on digital elevation models (DEMs) is the prerequisite to set up SWAT model. Based on QGIS and QSWAT, improved DEM-based method and pre-defined method applied in watershed delineation. In the first method, “Burn-in” and drawing reach and sub-basin boundary manually applied. First, the digital channel network (DCN) was imported using the “Burn-in” function, and the streams and sub-basins delineated based on

DEM and DCN. Then the “watershed” and “reach” layers edited in QGIS, where the location, range, and hydrologic connection are adjusted.

8.3.1 Satluj River Basin – Kinnaur, Lahaul & Spiti Districts

A number of perennial and non-perennial streams, which are tributaries of Satluj River, drain the districts.

Drainage Map: Satluj River Basin (Kinnaur, Lahaul & Spiti districts)



Map 8.5: Drainage Map

The Sutlej River originates beyond Indian boarders in the Southern slopes of the Kailash Mountain in near the Mansarovar Lake from Rakastal Lake, as Longcchen Khabab River (in Tibet) at 4572 m in the Tibetan Plateau. It is one of the main tributaries of the Indus River and flows through different areas having different climatic and topographic features. The important right bank streams of Sutlej in the Tibet region are Iwang Chu, Chowak, Sumna and Trapa. The major left bank tributaries are Largchin and Manglantransu.

In Tibet, Sutlej flows 640 km and enters India at Shipkila. The fall of Sutlej from its source in Tibet in to Indian territory is very uniform and averages about 6 m per km. The riverbed elevation of Sutlej is 4572 m at the Rakastal Lake, 3048 m near Shipkila, 914 m at Rampur.

In Himachal Pradesh it has a total length of about 320 km. The catchment area of Sutlej including the portion of Parechu River is 51600 km^2. In India, up to the tailrace outfall of Rampur HP the Sutlej catchment covers approx. 13787 km^2.

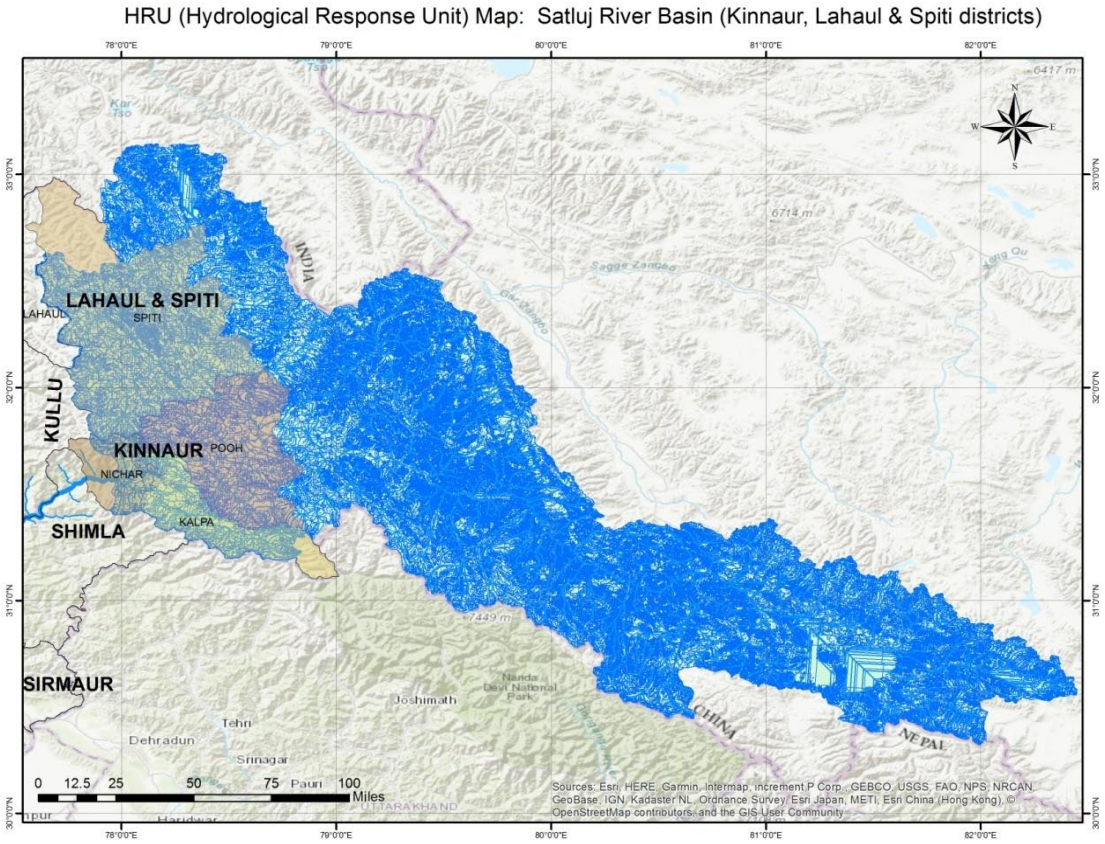
Sutlej is one of the largest tributaries of the Indus River system, along its passage across Kinnaur which successively crosses three great mountain ranges - the Zanskar range, the Great Himalayan range and the Dhauladhar range. The most active basin Sutlej within Himachal Pradesh alone reported (Rana et al., 2006) to covers 45 per cent of the total geographical area of (23,645 km2.).

It flows through the cold desert tracts of Kinnaur to the hamlet of Wangtoo and flows in the South-Westerly direction through Kinnaur, Shimla, Kullu, Solan, Mandi and Bilaspur districts. Its course in Himachal Pradesh is 320 km from Rakastal, with famous tributaries viz. Spiti, Ropa, Taiti, Kashang, Mulgaon, Yula, Wanger, Throng and Rupi as right bank tributaries, whereas Tirung, Gayathing, Baspa, Duling and Soldang are left bank tributaries with a total length of 1448 km. The following streams are parts of Satluj River flowing in Himachal Pradesh

Hydrological Response Unit (HRU)

The Soil and Water Assessment Tool (SWAT) is widely used to relate farm management practices to their impacts on surface waters at the watershed scale, yet its smallest spatial unit is not generally defined by physically meaningful boundaries.

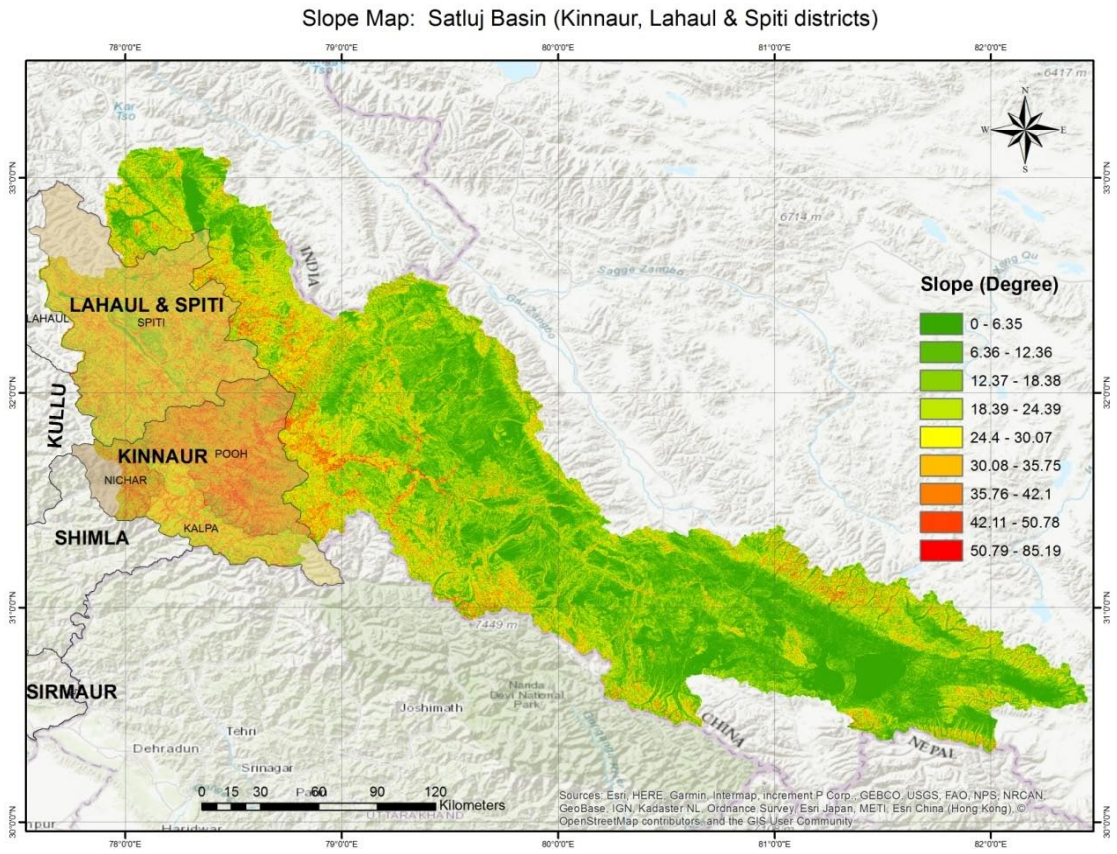
The hydrologic response unit (HRU) is the smallest spatial unit of the model, and the standard HRU definition approach lumps all similar land uses, soils, and slopes within a subbasin based upon user-defined thresholds. In the assessment study total 15,378 HRUs have been delineated and analyzed.



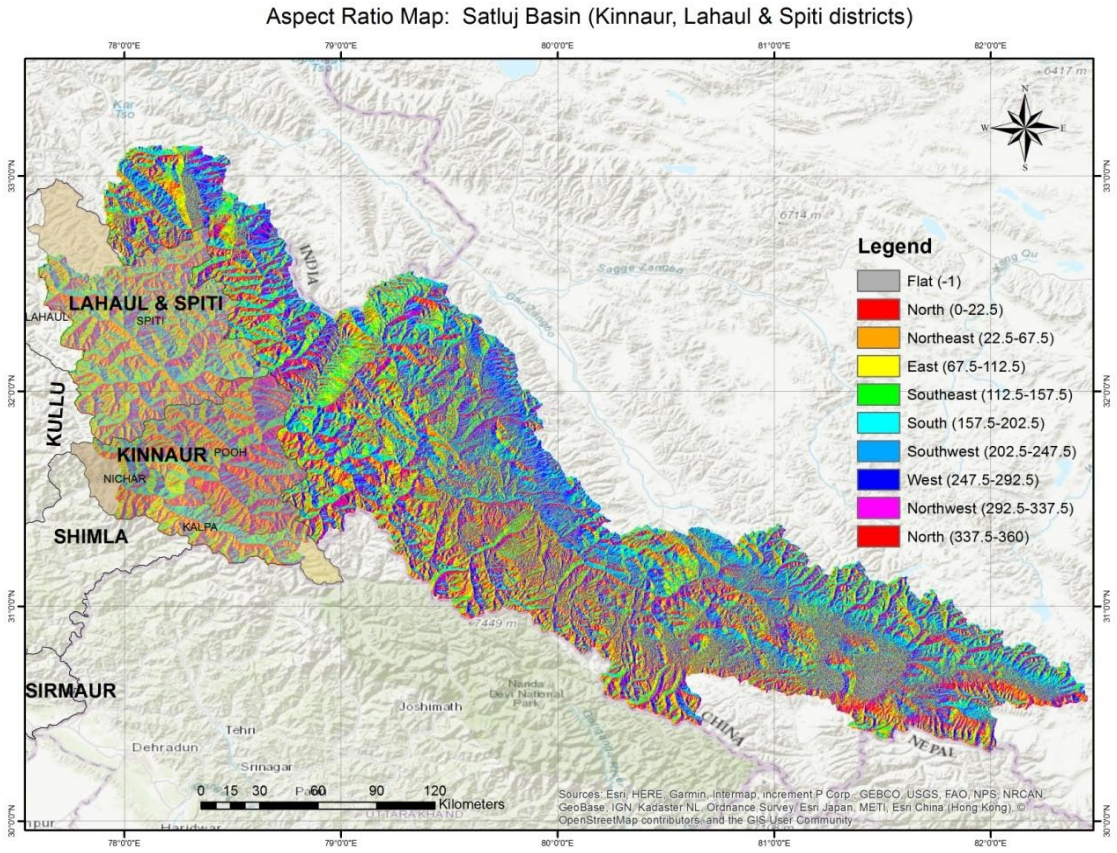
Map 8.6: Hydrological Response Unit Map

Average Hill Slope (in Degree) & Aspect Ratio

The slope map for each basin using Digital Elevation Model were also calculated/ generated through SWAT modelling. The slope (in Degree) output generated for all river basins of the study area i.e. four blocks of Kinnaur, Lahaul & Spiti district further clubbed. Thereafter, the average degree of slope for each census village is calculated to be used as indicator for Sensitivity to further calculate vulnerability.



Map 8.7: Slope Map



Map 8.8: Aspect Ratio Map

8.4 Hydrological Model Results & Conclusions

It is a fact that the demand for water has already increased manifold over the years due to urbanization, agriculture expansion, increasing population, rapid industrialization and economic development. Presently, changes in the cropping pattern and land-use pattern, overexploitation of water resources, and changes in irrigation and drainage systems are changing the hydrological cycle with many climatic reasons and river basins of the district Kinnaur, Lahaul & Spiti.

As per the working group presentation of the IPCC 5th Assessment report, there is medium confidence that the Indian summer monsoon circulation will weaken, but this will be compensated by increased atmospheric moisture content, leading to more precipitation. There is medium confidence that the increase of the Indian summer monsoon rainfall and its extremes throughout the 21stcentury will be the largest among all monsoons. Studies based on the observed precipitation records of India Meteorological Department (IMD) have shown that the occurrence of extreme precipitation events and their variability has already gone up in many parts of India.

The possible impacts of climate change on water resources of the river basins of Kulludistrict have been assessed using the hydrologic model QSWAT (Quantum Soil and Water Assessment Tool). The required input/ information on terrain, soil profile, land use area and weather data obtained from the global resources have been provided to the model.

The potential impacts of climate change on water yield and other hydrologic budget components are quantified by performing SWAT hydrological modelling with current climate scenarios for the regional systems.

Detailed outputs have been analyzed with respect to the two major water balance components of water yield and actual evapo-transpiration (ET) that are highly influenced by the weather conditions dictated by temperature and allied parameters. Majority of the river systems show increase in the precipitation at the basin level.

The major reason for such an increase in ET is on two accounts:

(i) Increase in the temperature and

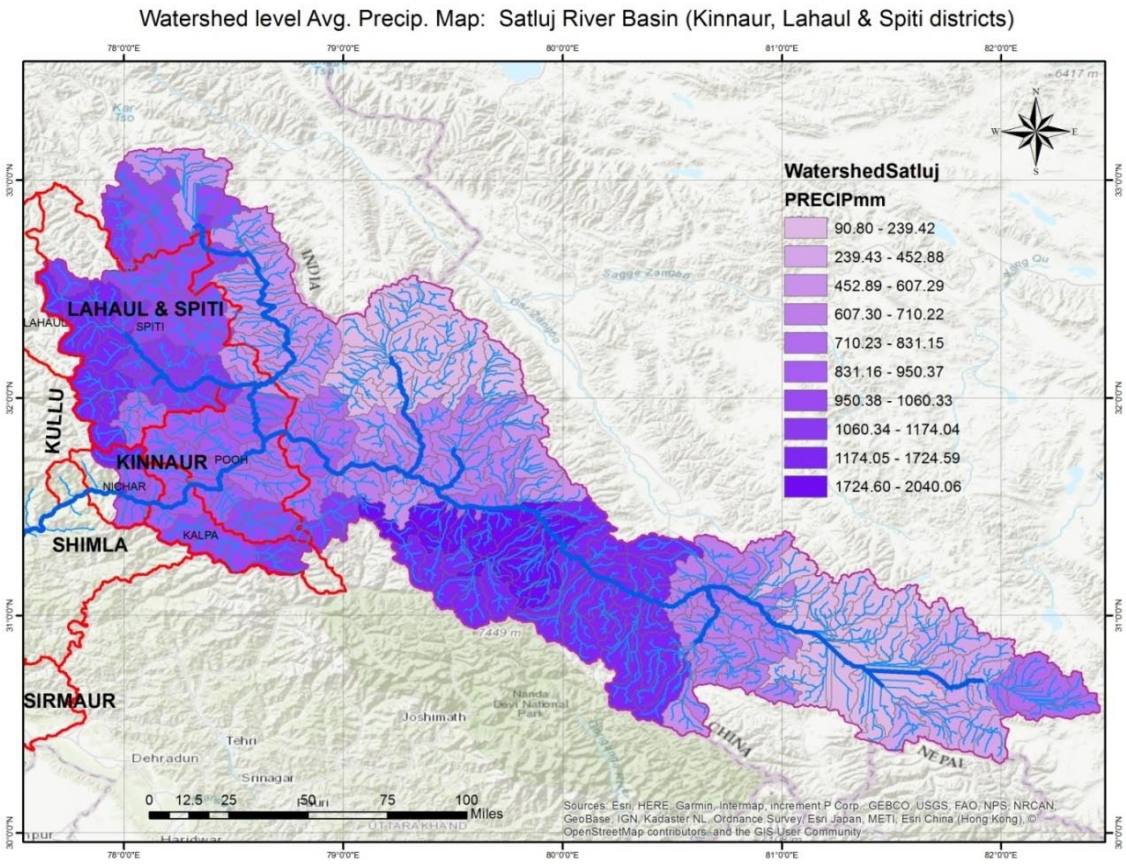
(ii) Increase in precipitation, which enhances the opportunity of ET.

Evapo-transpiration is a very important component of water balance with respect to the biomass and agricultural activities. The potential evapo-transpiration is driven by the weather conditions, but the actual evapo-transpiration is also dependent on the moisture conditions prevalent under the weather conditions (assuming that the land-use and soil characteristics are not changing). The outcome of actual evapo-transpiration has been obtained after the continuous simulation on daily basis for all the sub-basins of various river systems by using QSWAT model.

The implications of changes in precipitation have also been quantified in the form of resulting water yields through the SWAT modelling exercise. The response of water yield is dependent on a combination of factors such as terrain, land use, soil type, and weather conditions. It may be observed that in the case of river systems of district Kinnaur, Lahaul & Spiti, there is an improvement in the average water yield this is because of melting of snow glaciers due to increase in average temperature.

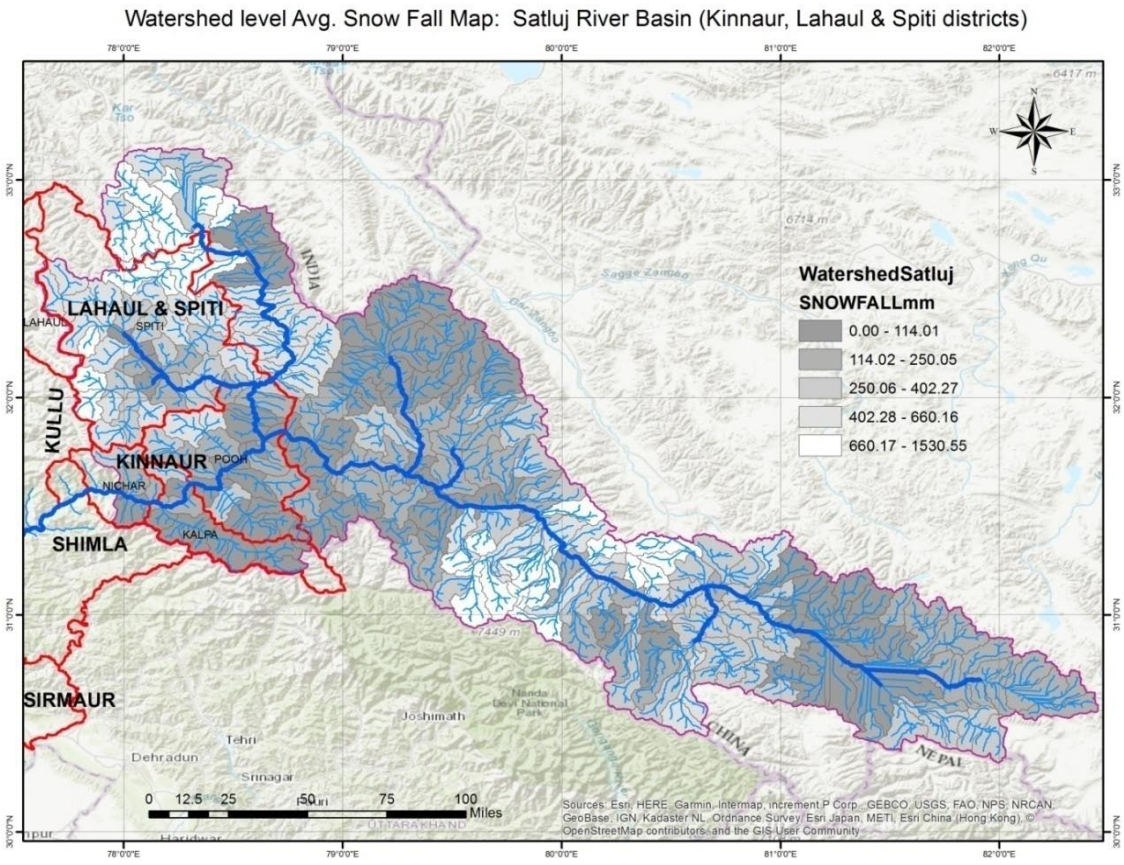
After delineating the basin-wise watershed map using QSWAT taking Digital Elevation Model (DEM) as input data, the additional required inputs i.e. soil map, land use map and weather data for the period of 34 years (1979-2013) is provided to SWAT model. After running the model, the watershed wise maps &results/output on following parameters are generated:

Results of all the parameters available on different drainage outlet points of each microwatershed have been analysed. The area of Satluj River Basin falling in district Kinnaur, Lahaul & Spiti is divided into micro-watersheds. The Blockwise Watershed maps and hydrological modelling results of drainage outlet points at blocks are depicted as follows:

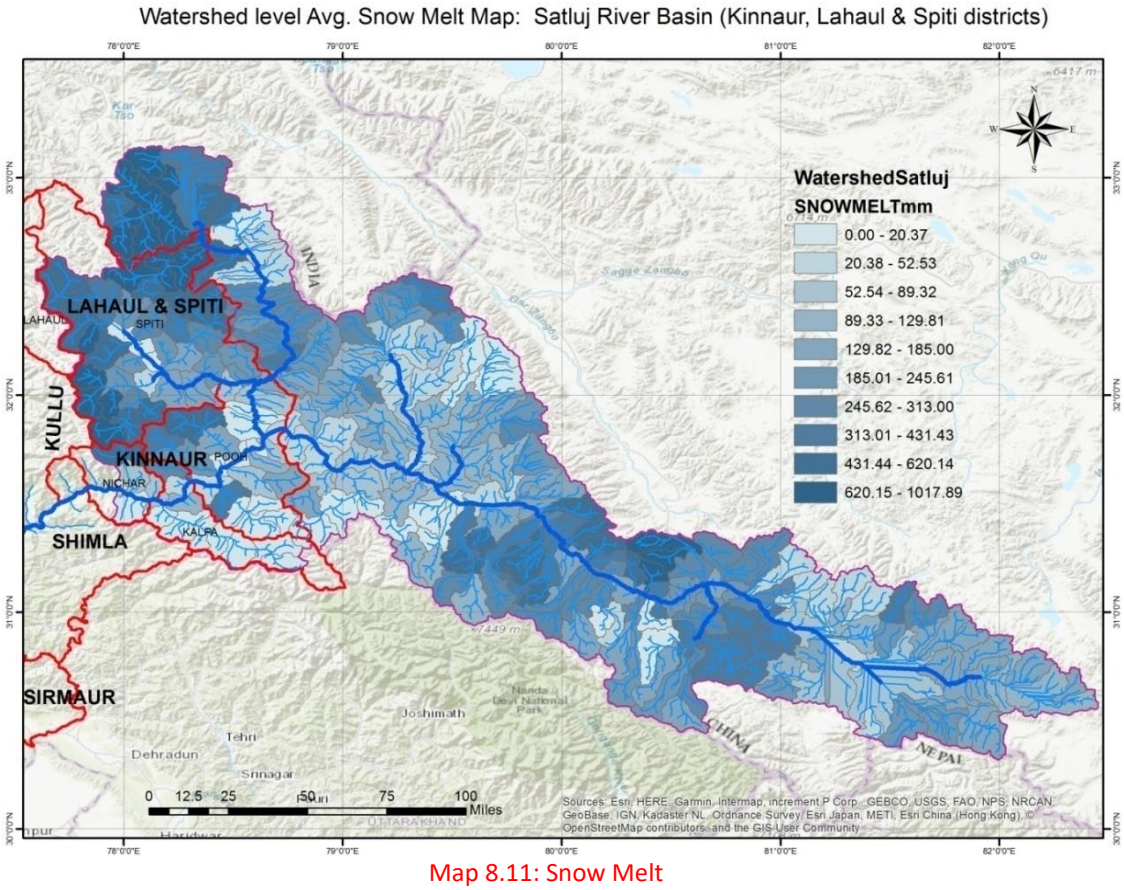


Map 8.9: Precipitation Map

Map 8.9 indicates that the Spiti block of Lahaul & Spiti district receives more precipitation ranging ranging from 950 mm to 1724 mm annually. However Pooh, Kalpa & Nichar blocks received comperatively less precipitation ranging from 606 mm to 950 mm. The map indicates that the precipitation increases with the elevation may be because of formation of glaciers and heavy snow fall in higher elevation of the region. Map 8.10 indicates that higher reaches of the region receives more snow than the lower reaches. Similarly Map 8.11 indicates the snow melting phenomenon.

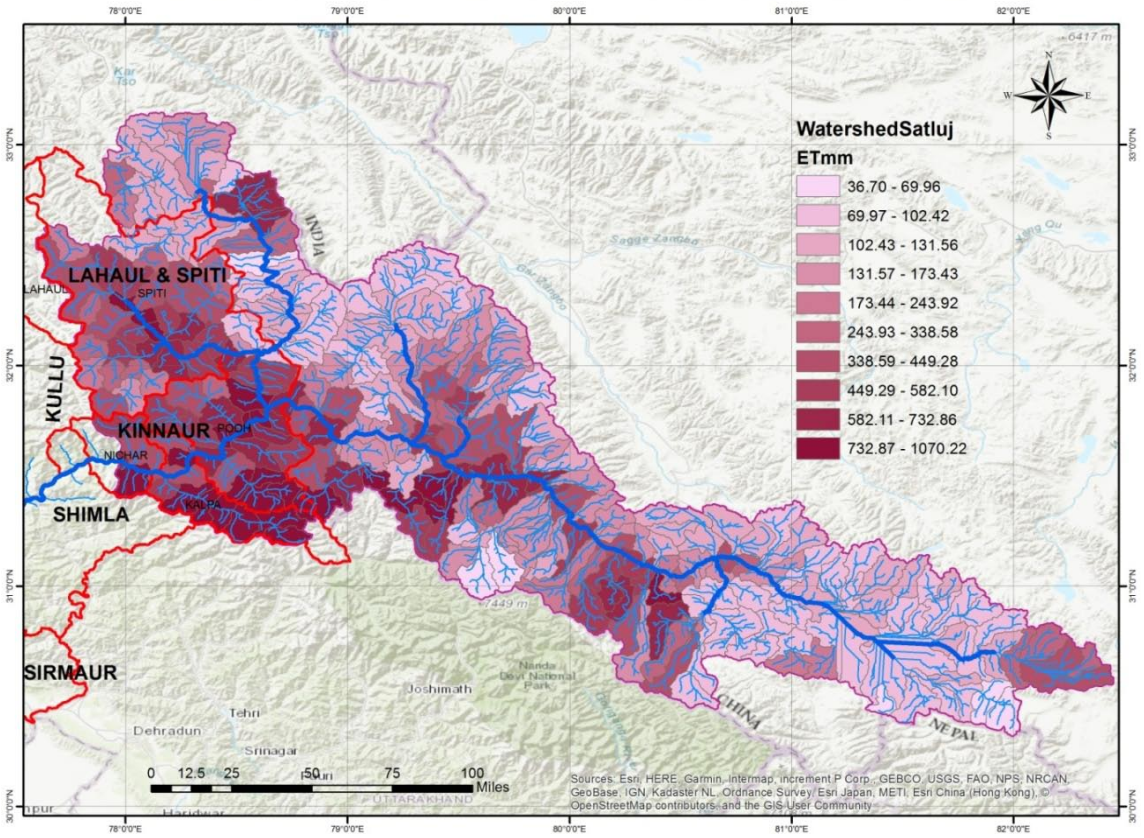


Map 8.10: Snow Fall distribution



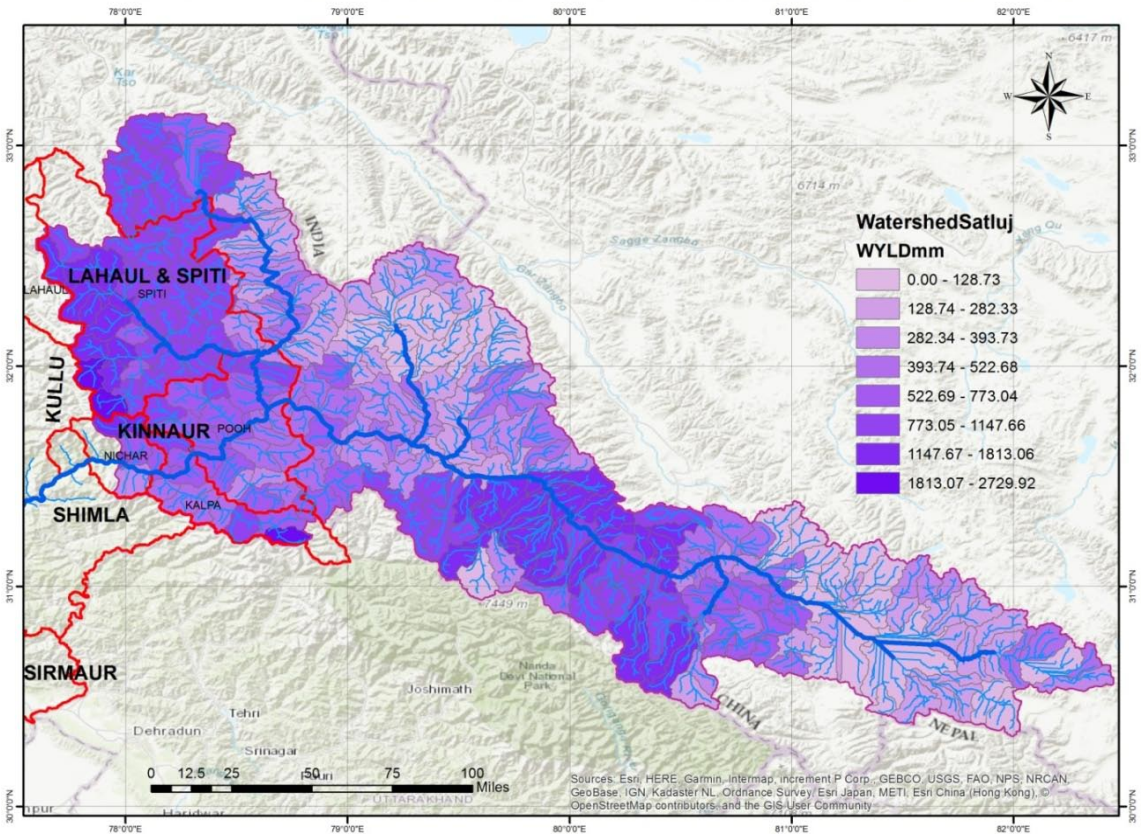
Map 8.11: Snow Melt

Watershed level Avg. EvapoT. Map: Satluj River Basin (Kinnaur, Lahaul & Spiti districts)



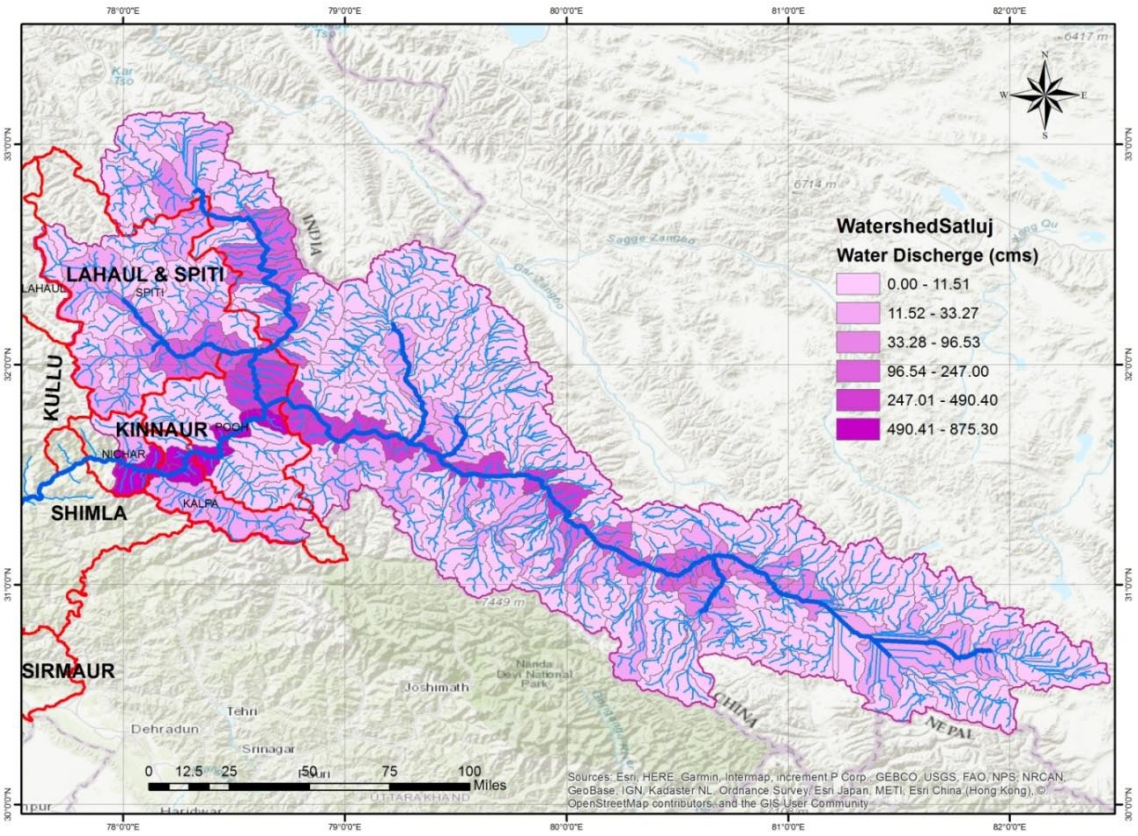
Map 8.12: ET

Watershed level Avg. Water Yield Map: Satluj River Basin (Kinnaur, Lahaul & Spiti districts)



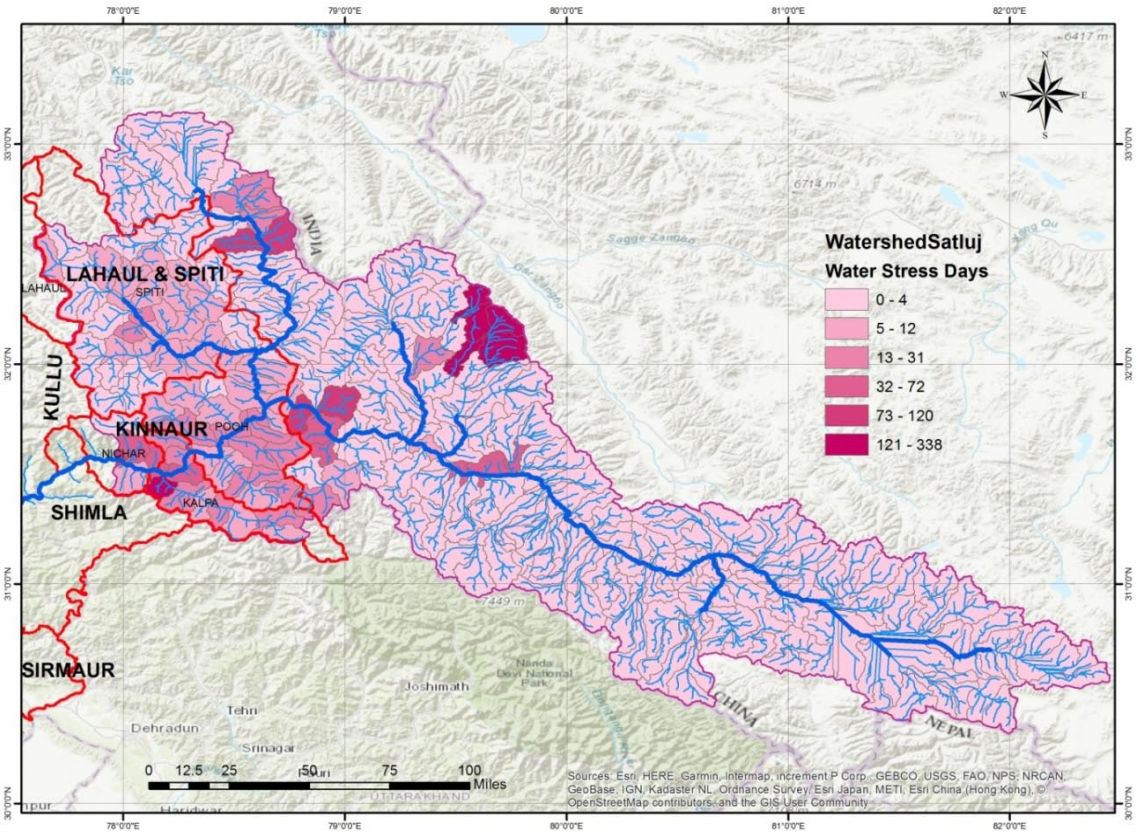
Map 8.12: Water Yield

Watershed level Avg. Water Discharge Map: Satluj River Basin (Kinnaur, Lahaul & Spiti districts)

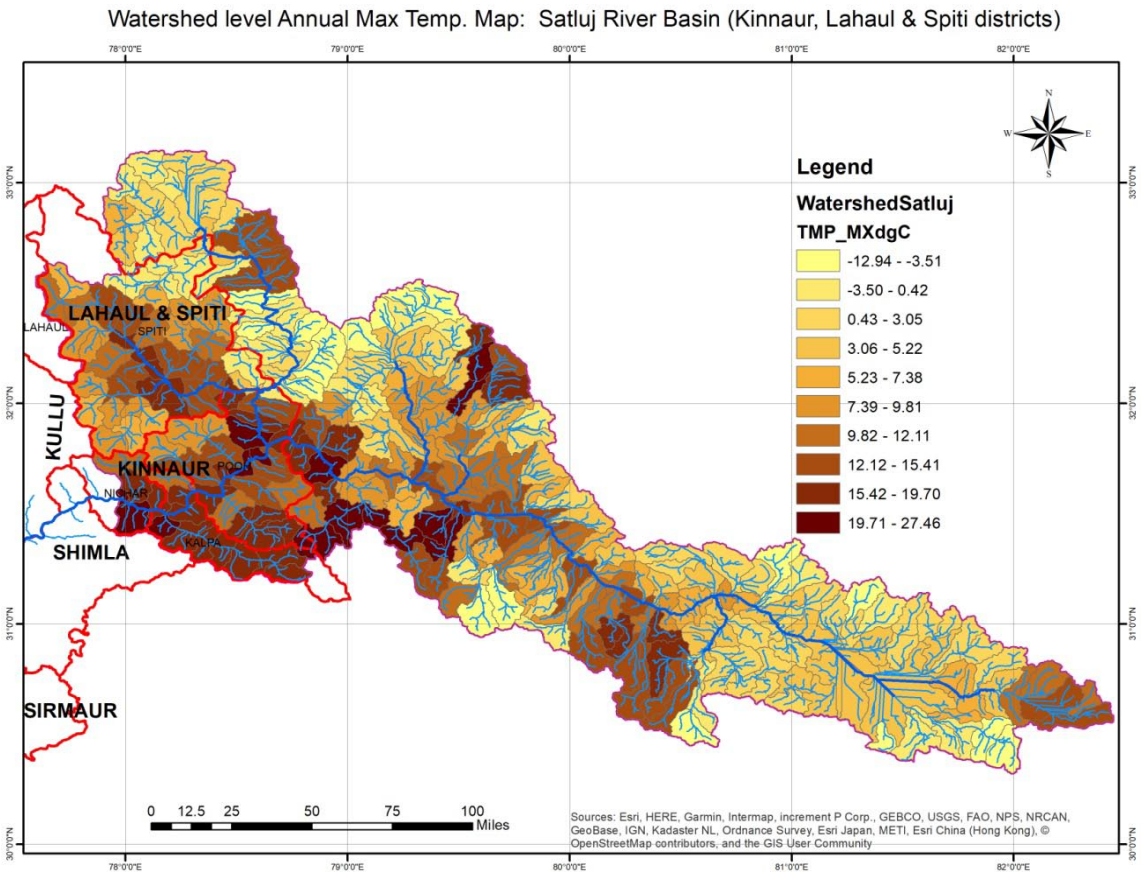


Map 8.13: Water diacharge

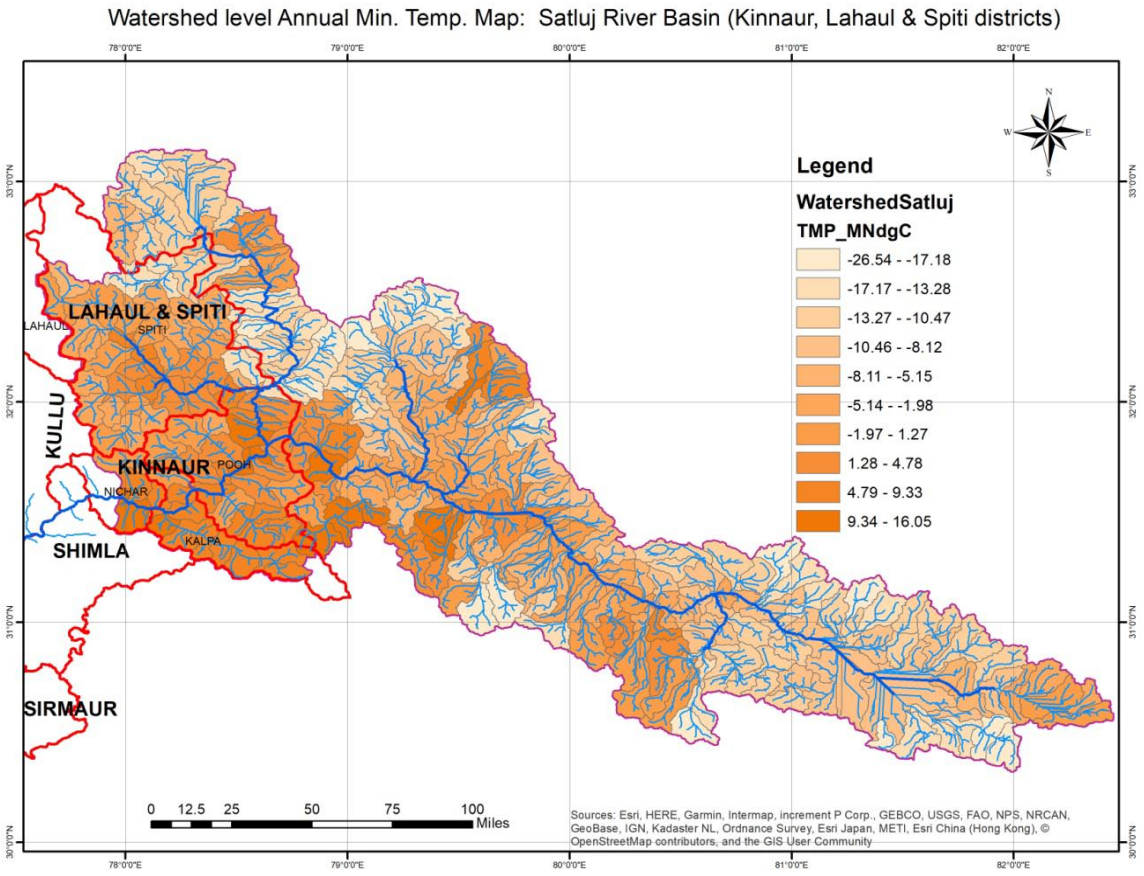
Watershed level Avg. Water Stress Day Map: Satluj River Basin (Kinnaur, Lahaul & Spiti districts)



Map 8.14: Water Stress

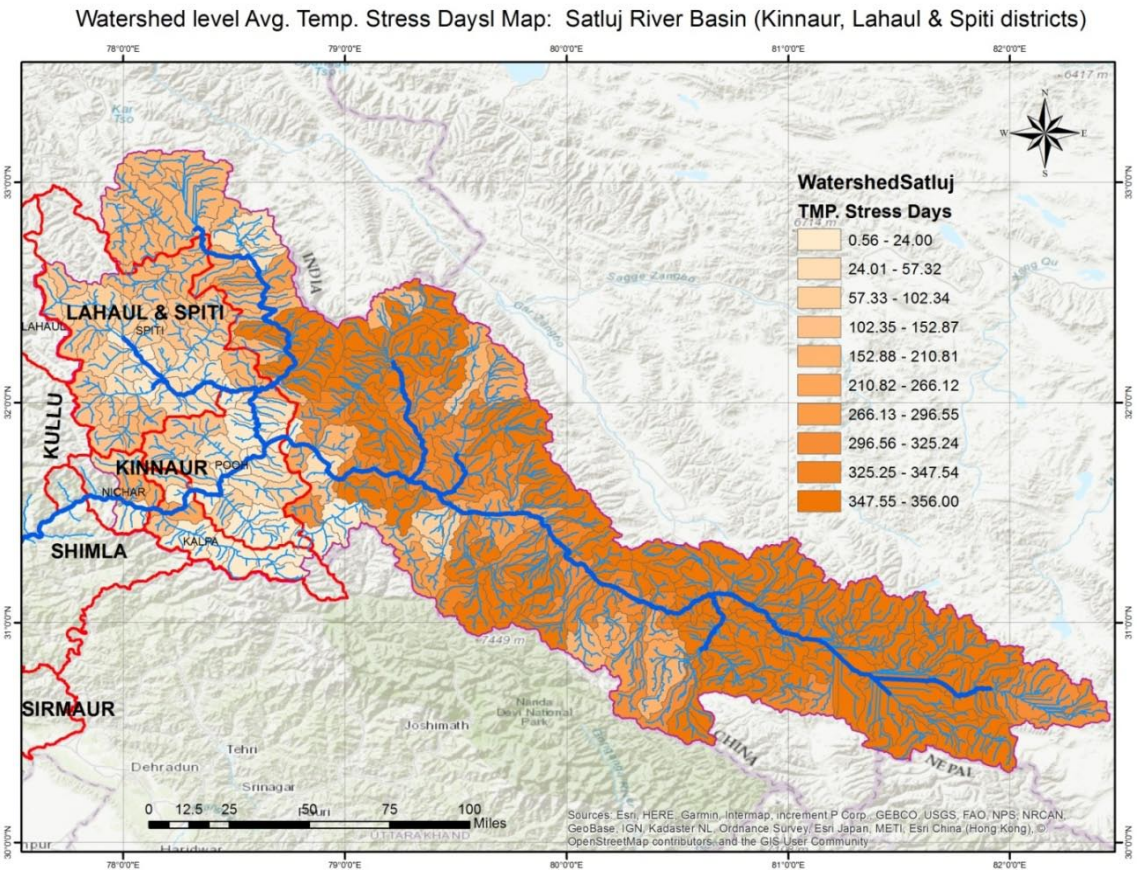


Map 8.15: Maximum Temperature

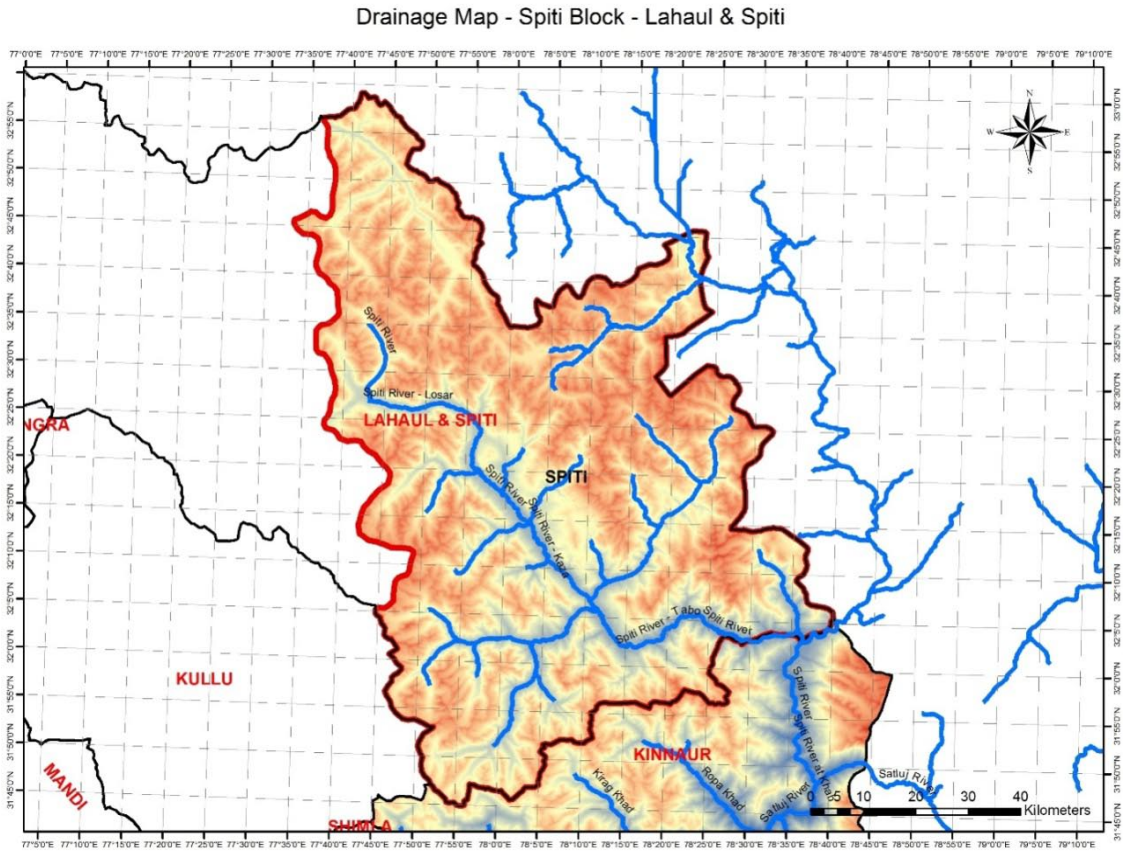


Map 8.16: Minimum Temperature

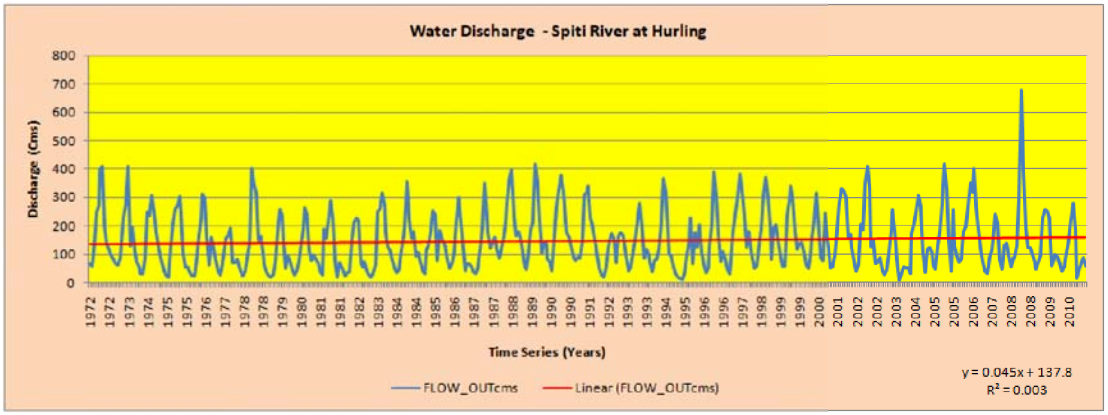
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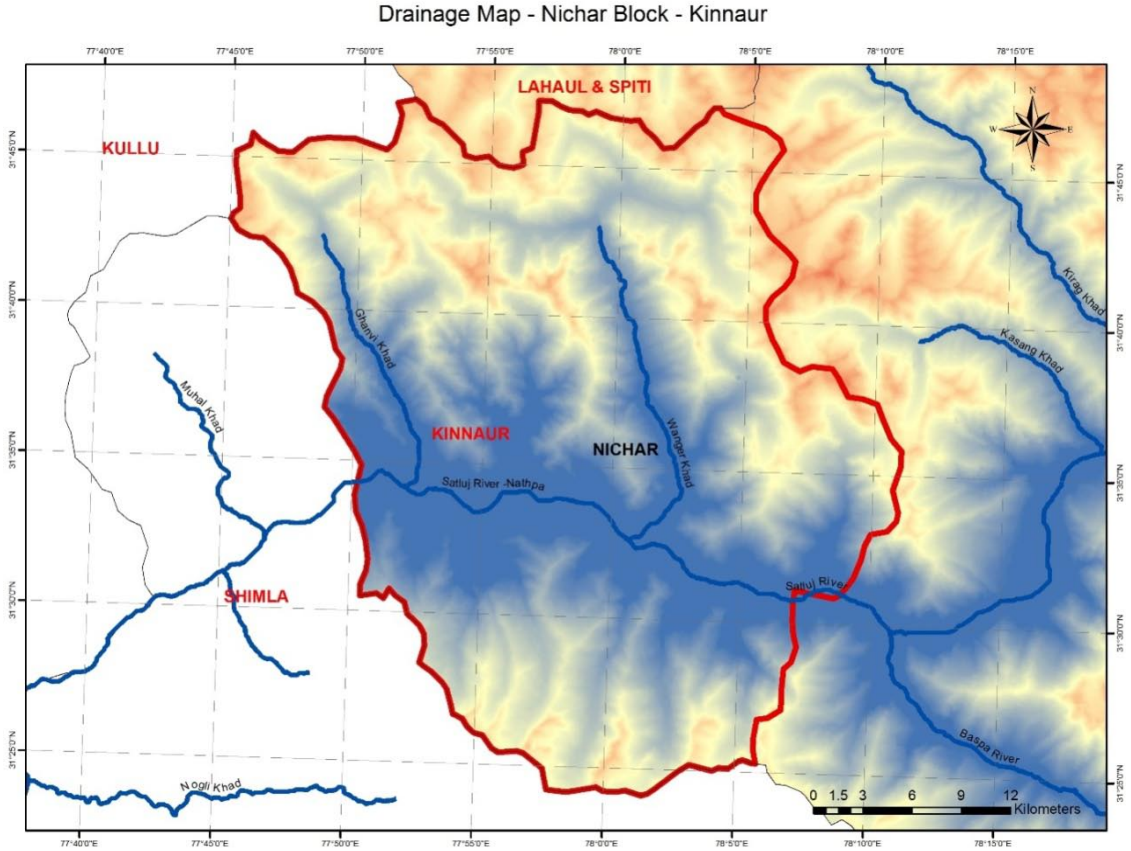


Map 8.16: Temp. Stress

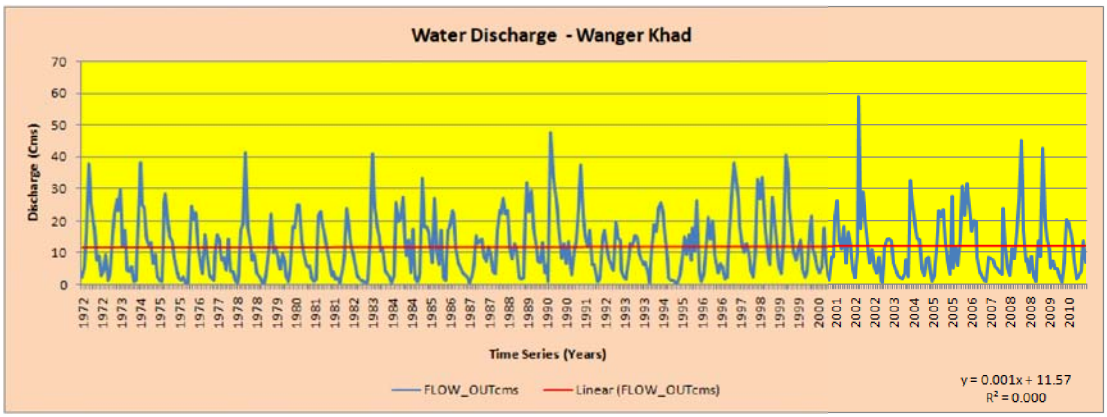


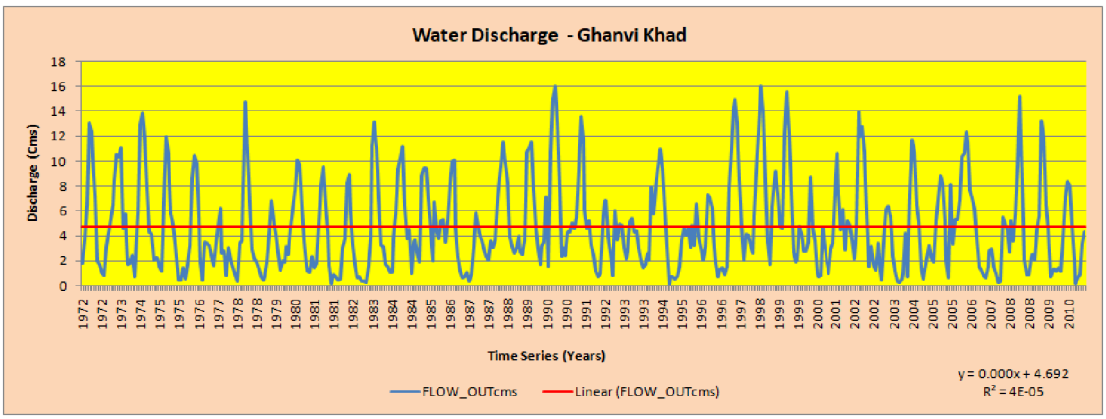
Map 8.17: Drainage Map – Spiti Block

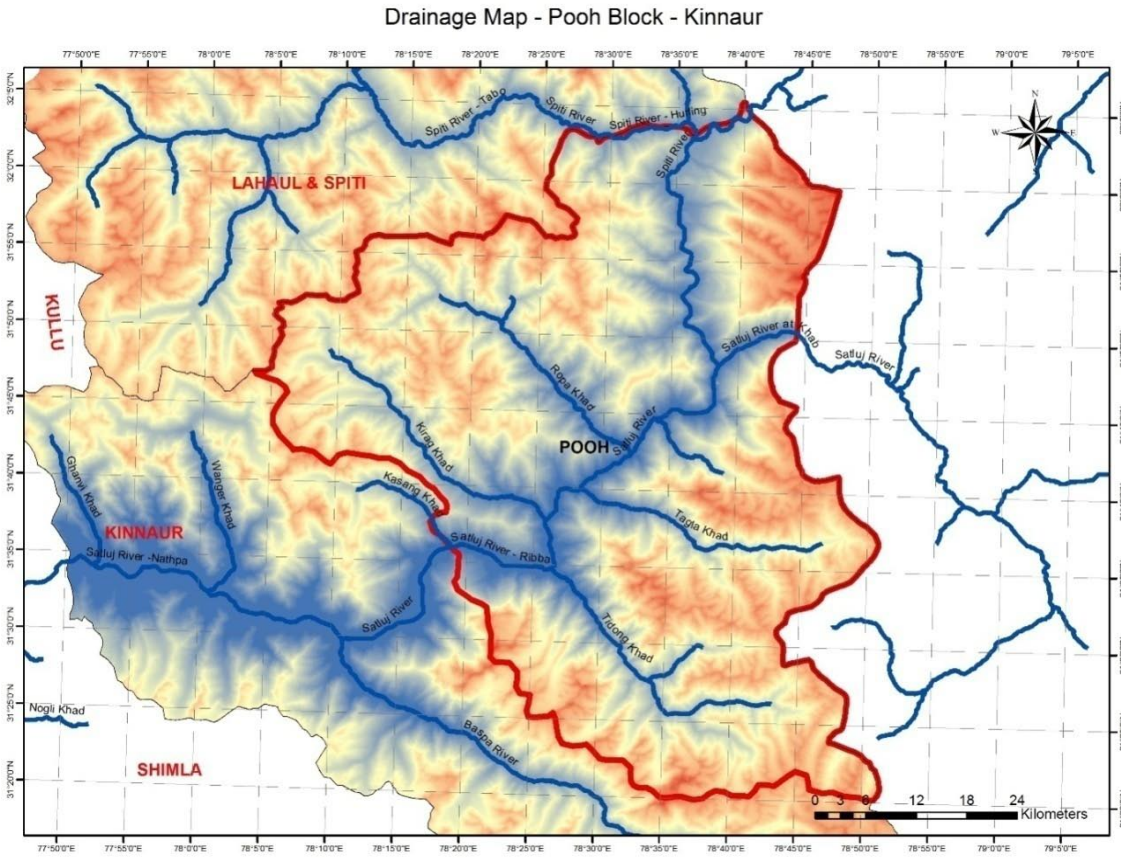




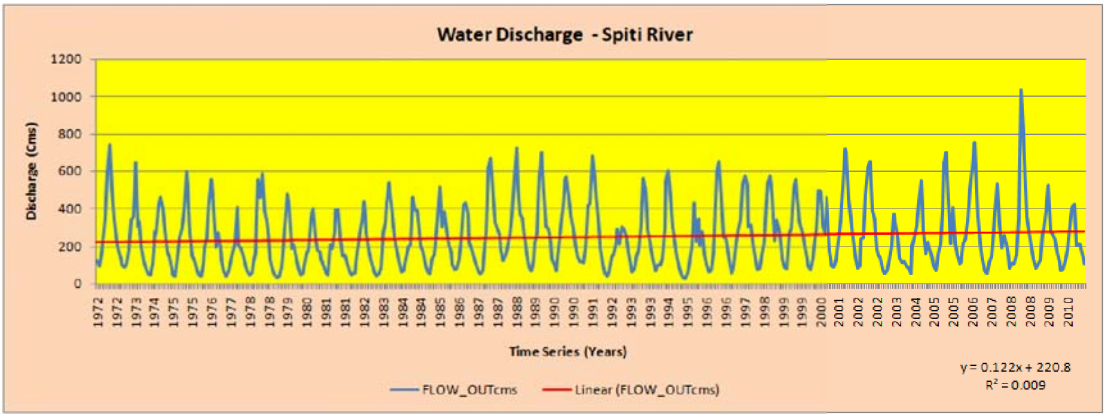
Map 8.18: Drainage Map – Nichar Block

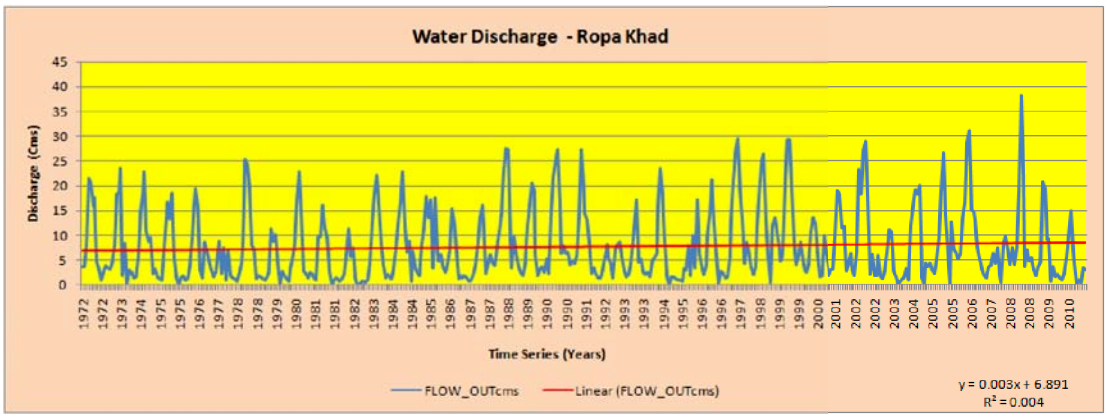


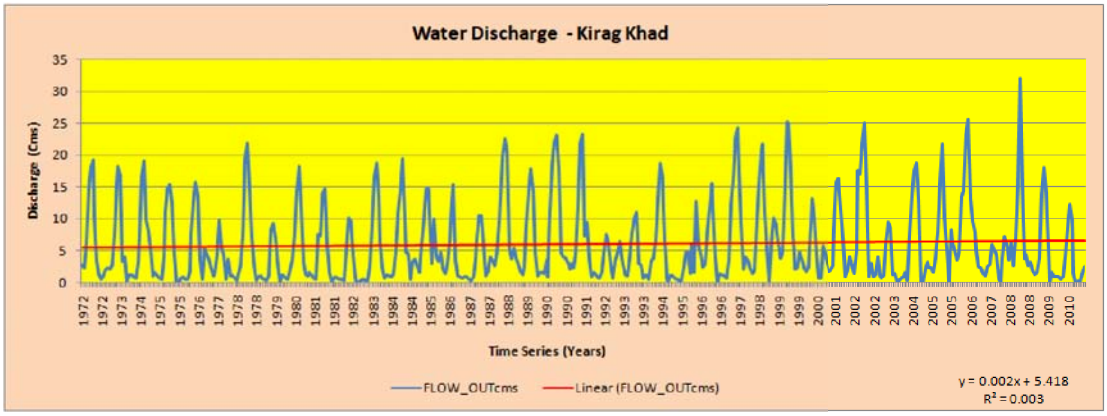


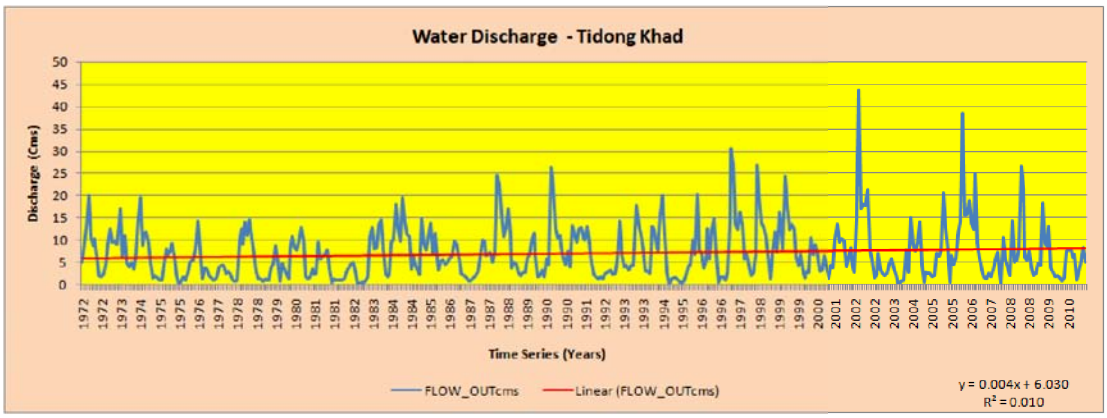


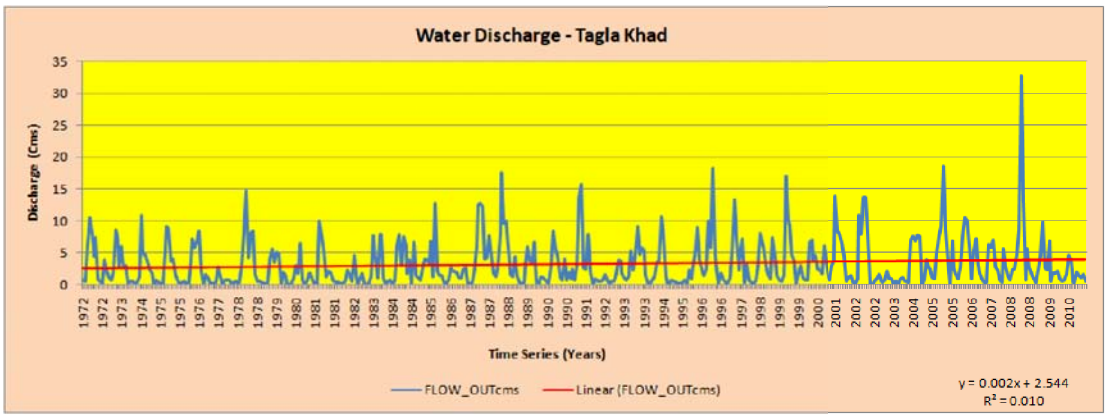
Map 8.19: Drainage Map – Pooh Block

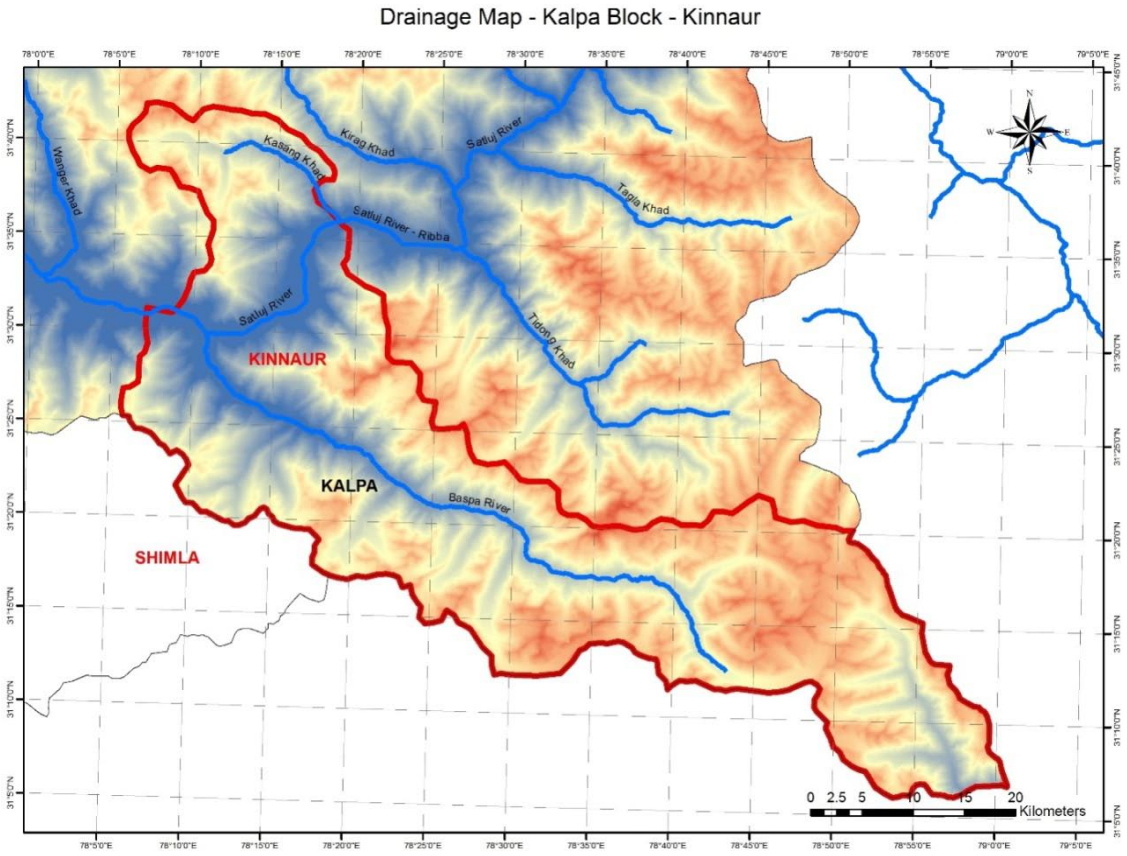



Water Discharge - Ropa Khad
Discharge (Cms)
Time Series (Years)
FLOW_OUTcms
Linear (FLOW_OUTcms)
y = 0.003x + 6.891
R² = 0.004

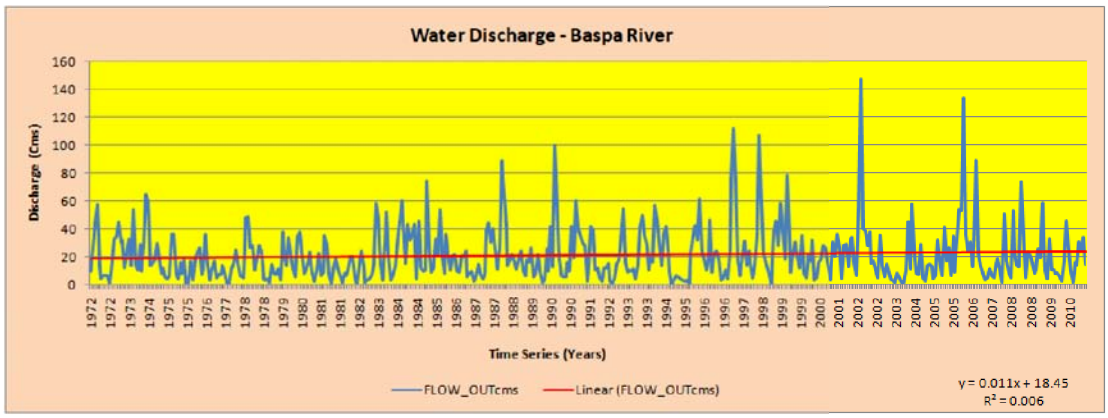

Water Discharge - Kirag Khad
Discharge (Cms)
Time Series (Years)
FLOW_OUTcms
Linear (FLOW_OUTcms)
y = 0.002x + 5.418
R² = 0.003

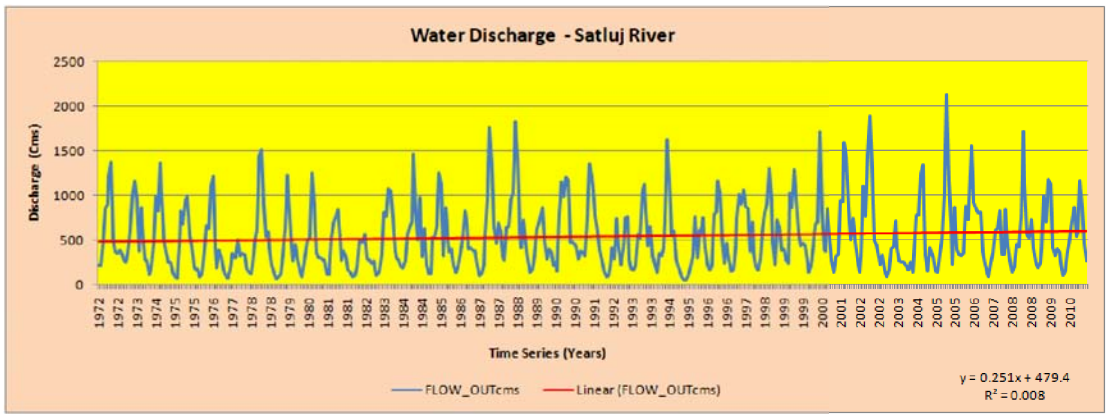

Water Discharge - Tidong Khad
Discharge (Cms)
Time Series (Years)
FLOW_OUTcms
Linear (FLOW_OUTcms)
y = 0.004x + 6.030
R² = 0.010


Water Discharge - Tagla Khad
Discharge (Cms)
Time Series (Years)
FLOW_OUTcms
Linear (FLOW_OUTcms)
y = 0.002x + 2.544
R² = 0.010



Map 8.20: Drainage Map – Kalpa Block





As depicted above SWAT model relevant perimeters outputs with respect to hydrology of the Satluj River Basin falling in Kinnaur, Lahaul & Spiti districts of are further used as input for climate change

vulnerability assessment to represent Exposure & Sensitivity indicators/ variables. The indicators used in climate change vulnerability assessment are watershed level temperature values, precipitation values, water yield, snow melt, water stress, temperature stress, slopes etc.

9

Climate Change Vulnerability Assessment Analysis: District Kinnaur, Lahaul & Spiti

9 Climate Change Vulnerability Assessment Analysis: District Kinnaur, Lahaul & Spiti

The process and methodology used in this study has been sub-divided into four phases for adopting a conceptual framework of vulnerability, generating spatial datasets of key factors, estimating the weights of various factors contributing to vulnerability and generating the vulnerability ranking maps of the districts in the study area.

The uniqueness of this study is that it has considered climatic, physical and socio-economic factors together to arrive at the vulnerability rating. The methodology of vulnerability assessment is based on the integration of various climatic, environmental and socio-economic factors following the multi-criteria decision-making technique in a geographical information system (GIS). Various steps of methodology include (1) identification of indicators, (2) ranking of indicators, and (3) calculation of vulnerability index.

9.1 Identification of Indicators

Construction of vulnerability index consists of several steps. First is the selection of study area, which consists of several regions. In the present study four developmental blocks falling in Satluj River Bain are considered. In each region a set of indicators are selected for each of the three component of vulnerability i.e. Exposure, Sensitivity, Adaptive Capacity.

The indicators are selected based on the availability of data, personal judgment or previous research. Since vulnerability is dynamic over time, it is important that all the indicators relate to the particular year chosen. An attempt has been made to assess vulnerability assessment over the years, depending upon the availability of data for each year for all the indicators of each block. A list of indicators shown as under, it can be modified according to the availability of data and need in future as well, the process is dynamic and can be further expended based on data and time.

A brief description of these indicators along with their data source is given as under:

Description of variables/indicators used for vulnerability assessment

Code	Exposure	Units	Years	Functional Relationship with Exposure	Data Source
E01	Average maximum temperature	^{o}C	1979-2013	↑	SWAT Model
E02	Average minimum temperature	^{o}C	1979-2013	↑	SWAT Model
E03	Total amount of precipitation	mm	1979-2013	↓	SWAT Model
E04	Water stress days	Days	1979-2013	↑	SWAT Model
E05	Temperature stress days	Days	1979-2013	↑	SWAT Model
E06	Snow Melt	mm	1979-2013	↑	SWAT Model
Code	**Sensitivity**	**Units**	**Years**	**Functional Relationship with Sensitivity**	**Data Source**
S01	Average Hill Slope	Degree	-	↑	SWAT Model
S02	Annual Average Water Yield	mm	1979-2013	↓	SWAT Model
S03	Percentage of Net Sown Area to Geographical area	%age	2011	↑	Census 2011
S04	Human population density	Person/Ha.	2011	↑	Census 2011
S05	Percentage of Un-irrigated Land Area to Geographical area	%age	2011	↑	Census 2011

S06	Percentage of Barren & Un-cultivable Land Area to Geographical area	%age	2011	↑	Census 2011
S07	Percentage of Cultivable Waste Land Area to Geographical Area	%age	2011	↑	Census 2011
Code	**Adaptive Capacity**	**Units**	**Years**	**Functional Relationship with Adaptive Capacity**	**Data Source**
A01	Educational Institutes	Number	2011	↑	Census 2011
A02	Health Institutes	Number	2011	↑	Census 2011
A03	Road Network	Yes/No	2011	↑	Census 2011
A04	Agricultural Credit Societies	Yes/No	2011	↑	Census 2011
A05	Self Help Group	Yes/No	2011	↑	Census 2011
A06	Mandis/Regular Market	Yes/No	2011	↑	Census 2011
A07	Agricultural Marketing Society	Yes/No	2011	↑	Census 2011
A08	Hand Pump	Yes/No	2011	↑	Census 2011
A09	Spring Source	Yes/No	2011	↑	Census 2011
A10	Tank/Pond/Lake	Yes/No	2011	↑	Census 2011
A11	Irrigated Area	Hectares	2011	↑	Census 2011

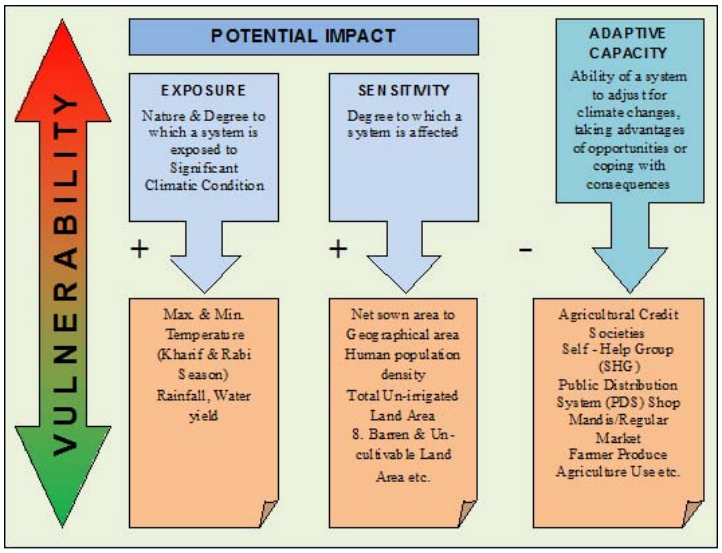


Figure 9.1 Frameworks for Calculation of Vulnerability

9.2 Exposure

The effects of climate change may vary at different locations. Some regions are warmer than the others. Also, the precipitation patterns shift in different areas is varying resulting in uneven distribution of rainfall. Some regions observe prolonged dry periods and some experience both warm and intense rainfall. In correlations with the above statements reveals that exposure relates to the degree of climate stress at a particular location. The exposure can also be determined by the long-term climatic changes or the variation in climate including the magnitude and frequency of hazards.

The major constraints in studying and analysing the climate change are un-availability of long-term observed data at desired locations. The Global Climate Modelling (GCM) could act as solution to this problem, but it could provide climate information on a very broader scale, which sometime might not match or desirable/ fit to the local conditions. Local climate change is influenced significantly by local topographical features, such as mountains. GCMs are not able to account for these local topographies as they use a relatively coarse spatial

resolution. On the other hand Regional Climate Models (RCM) has a comparatively higher resolution (approximately 25 km) and is influenced by a smaller scale of topographical features. It is much more computationally intensive to run an RCM. Therefore, in our case we have adopted/ used RCM technique to generate local climate data.

The Regional Climate Modelling technique consists of using initial conditions, time-dependent lateral meteorological conditions and surface boundary conditions to drive high-resolution RCMs. The driving data is derived from GCMs (or analyses of observations) and can include GHG and aerosol forcing. A variation of this technique is to also force the large-scale component of the RCM solution throughout the entire domain *(e.g., Kida et al., 1991; Cocke and LaRow, 2000; von Storch et al., 2000)*

The provision of a flexible RCM is part of an integrated package of methods, which would also include a range of GCM projections for assisting countries to generate climate change scenarios and hence to inform adaptation decisions. The Hadley Centre has developed such a flexible RCM a practical tool to make their own projections of national patterns of climate change and hence estimate the possible impacts and assess their vulnerability. It must be stressed that the RCM does not replace GCMs, but it is a powerful tool to be used together with the GCMs in order to add fine scale detail to their broad-scale projections.

Before inception of the climate change vulnerability assessment report, PRECIS (Providing Regional Climates for Impacts Studies) was proposed for generating regional climate data, but due to its requirement of long time for complex operating procedures and non-availability of desired inputs some other regional climate models and methods were used for analysing climate data.

Modelling & Climate Change Projections

Two scenarios RCP 4.5 & RCP 8.5 are used for climate projections. Representative Concentration Pathway (RCP) 4.5 is a scenario that stabilizes radiative forcing at 4.5 W m−2 in the year 2100 without ever exceeding that value. Simulated with the Global Change Assessment Model (GCAM), RCP4.5 includes longterm, global emissions of greenhouse gases, short-lived species, and land-use-land-cover in a global economic framework. RCP4.5 was updated from earlier GCAM scenarios to incorporate historical emissions and land cover information common to the RCP process and follows a cost-minimizing pathway to reach the target radiative forcing. The imperative to limit emissions in order to reach this target drives changes in the energy system, including shifts to electricity, to lower emissions energy technologies and to the deployment of carbon capture and geologic storage technology. In addition, the RCP4.5 emissions price also applies to land use emissions; as a result, forest lands expand from their present day extent. The simulated future emissions and land use were downscaled from the regional simulation to a grid to facilitate transfer to climate models. While there are many alternative pathways to achieve a radiative forcing level of 4.5 W m−2, the application of the RCP4.5 provides a common platform for climate models to explore the climate system response to stabilizing the anthropogenic components of radiative forcing.

The RCP8.5 combines assumptions about high population and relatively slow income growth with modest rates of technological change and energy intensity improvements, leading in the long term to high energy demand and GHG emissions in absence of climate change policies. Compared to the total set of Representative Concentration Pathways (RCPs), RCP8.5 thus corresponds to the pathway with the highest greenhouse gas emissions. Using the IIASA Integrated Assessment Framework and the MESSAGE model for the development of the RCP8.5, we focus in this paper on two important extensions compared to earlier scenarios: 1) the development of spatially explicit air pollution projections, and 2) enhancements in the land-use and land-cover change projections. In addition, we explore scenario variants that use RCP8.5 as a baseline, and assume different degrees of greenhouse gas mitigation policies to reduce radiative forcing. Based on our modeling framework, we find it technically possible to limit forcing from RCP8.5 to lower levels comparable to the other RCPs (2.6 to 6 W/m2). Our scenario analysis further indicates that climate policyinduced changes of global energy supply and demand may lead to significant co-benefits for other policy priorities, such as local air pollution.

Climate Change & Weather (Projections and Trends)

The CORDEX model data on, maximum temperature, minimum temperature & precipitation have been analysed for the study area for BL (Base Line 1981-2010), MC (Mid Century 2021-2050) and, EC (End Century 2071-2100). Climate data for IPCC AR5 climate RCP (Representative Concentration Pathways) scenarios of RCP4.5 (Moderate Emission) and RCP8.5 (High Emissions) has been used for analysing, maximum temperature, minimum temperature & precipitation. Annual and seasonal maximum temperature, minimum temperature, annual precipitation has been analysed for Satluj Basin (Kinnaur, Lahaul & Spiti district) in Himachal Pradesh using CORDEX model data for RCP4.5 and RCP8.5 scenarios. The projected changes towards MC (Mid Century) and EC (End Century) with respect to Base Line for Satluj Basin study area for RCP4.5 and RCP8.5 scenarios are under:

Change in Daily Maximum Temperature (°C) Base Line (1981-2010)

District & Scenario	Annual		Winter		Pre Monsoon		Monsoon		Post monsoon	
	MC	EC	MC	EC	MC	EC	MC	EC	MC	EC
Kinnaur-RCP4.5	1.6	3.1	2.1	3.6	1.0	2.0	1.9	4.1	1.5	2.5
Lahul & Spiti-RCP4.5	1.7	3.3	2.1	3.8	1.0	2.1	2.0	4.2	1.6	2.7
Kinnaur-RCP8.5	1.9	5.6	2.5	6.0	1.3	4.2	2.5	7.0	1.5	5.0
Lahul & Spiti-RCP8.5	2.0	5.9	2.5	6.3	1.3	4.3	2.6	7.2	1.6	5.4

Change in Daily Mininum Temperature (°C) Base Line (1981-2010)

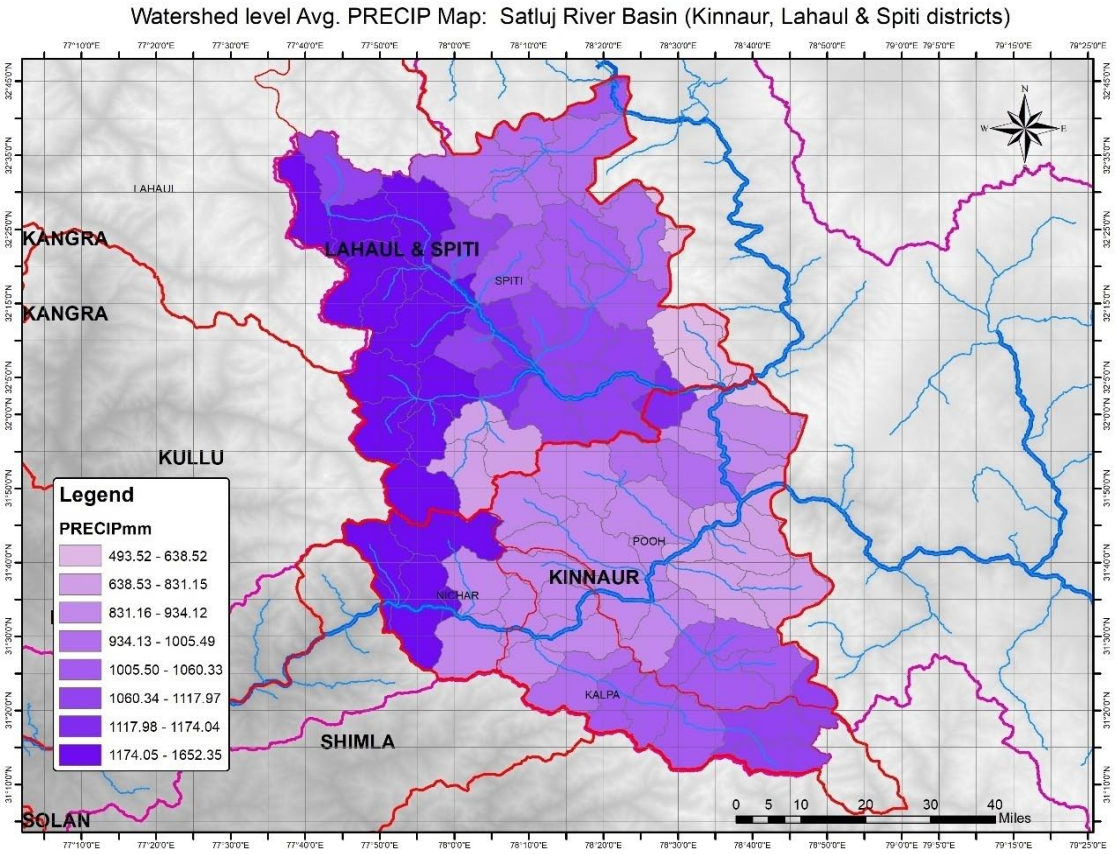
District & Scenario	Annual		Winter		Pre Monsoon		Monsoon		Post monsoon	
	MC	EC	MC	EC	MC	EC	MC	EC	MC	EC
Kinnaur-RCP4.5	1.5	2.9	1.4	2.9	1.1	2.3	1.9	3.5	1.6	2.8
Lahul & Spiti-RCP4.5	1.7	3.2	1.3	2.8	1.0	2.2	2.1	4.0	1.7	3.1
Kinnaur-RCP8.5	2.0	5.3	1.8	5.3	1.5	4.6	2.4	5.5	1.8	5.7
Lahul & Spiti-RCP8.5	2.1	5.6	1.7	5.2	1.5	4.5	2.7	6.1	2.1	6.2

Change in Precipitation (%) Base Line (1981-2010)

District & Scenario	Annual		Winter		Pre Monsoon		Monsoon		Post monsoon	
	MC	EC	MC	EC	MC	EC	MC	EC	MC	EC
Kinnaur-RCP4.5	7.8	11.7	-6.2	-15.6	2.8	-8.0	23.4	36.6	0.3	14.2
Lahul & Spiti-RCP4.5	8.9	8.8	0.1	0.2	11.1	3.7	18.1	13.8	1.7	13.8
Kinnaur-RCP8.5	16.3	14.9	-6.9	-8.6	4.7	-5.9	24.5	42.9	32.4	11.2
Lahul & Spiti-RCP8.5	16.0	27.4	2.1	8.6	12.0	20.9	14.6	39.2	29.2	32.5

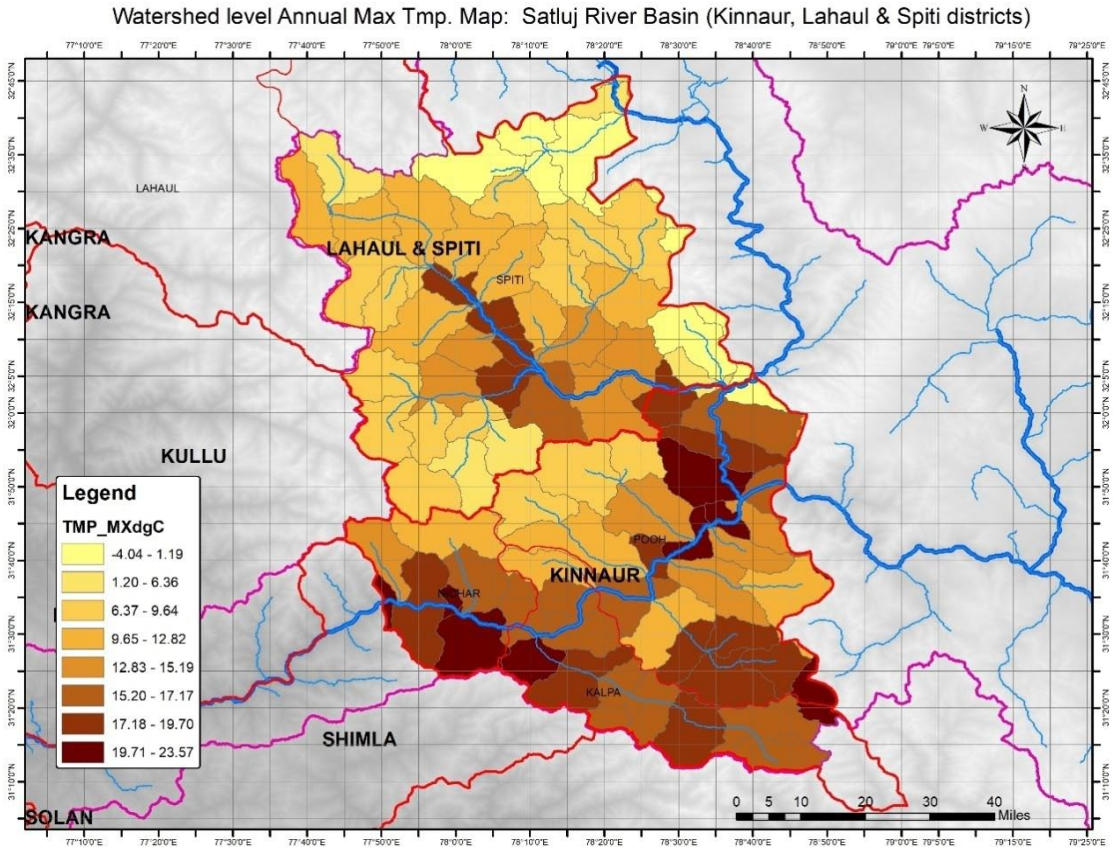
9.2.1 Precipitation & Temperature

In order to analyse climate change global weather data available for 34 years (1979-2013) was analysed but since the scale of our study is panchayat/village level the precipitation was available for the few locations as depicted in Weather Station Location Map (Map 8.4). Gridded data published by IMD for 68 rain years (1951–2018) has also been processed into SWAT for hydrological analysis.

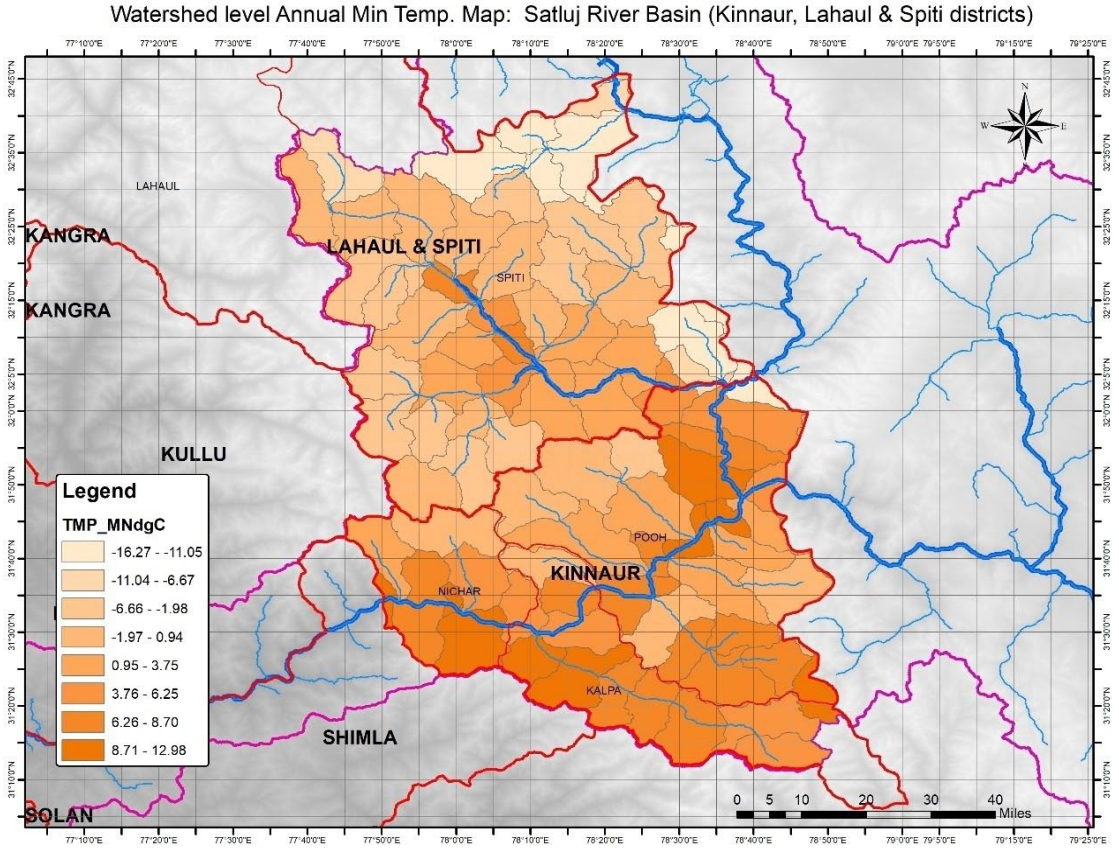


Map 9.1: Monthly Average Precipitation

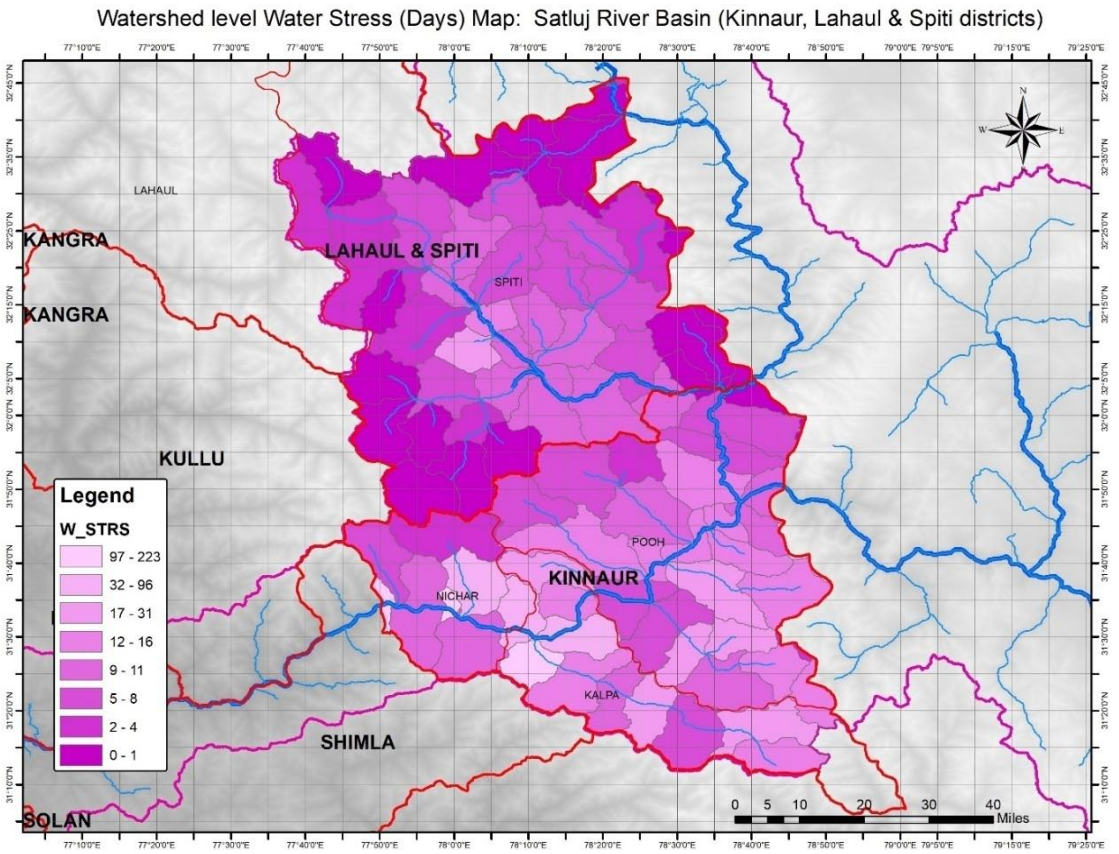
Since precipitation is one of the indicators used in analysing climate change vulnerability at village level, there is a requirement of precipitation values for each village, therefore, the available data is further extrapolated using IWD method (*Inverse Distance Weighting is a type of deterministic method for multivariate interpolation with a known scattered set of points. The assigned values to unknown points are calculated with a weighted average of the values available at the known points*).



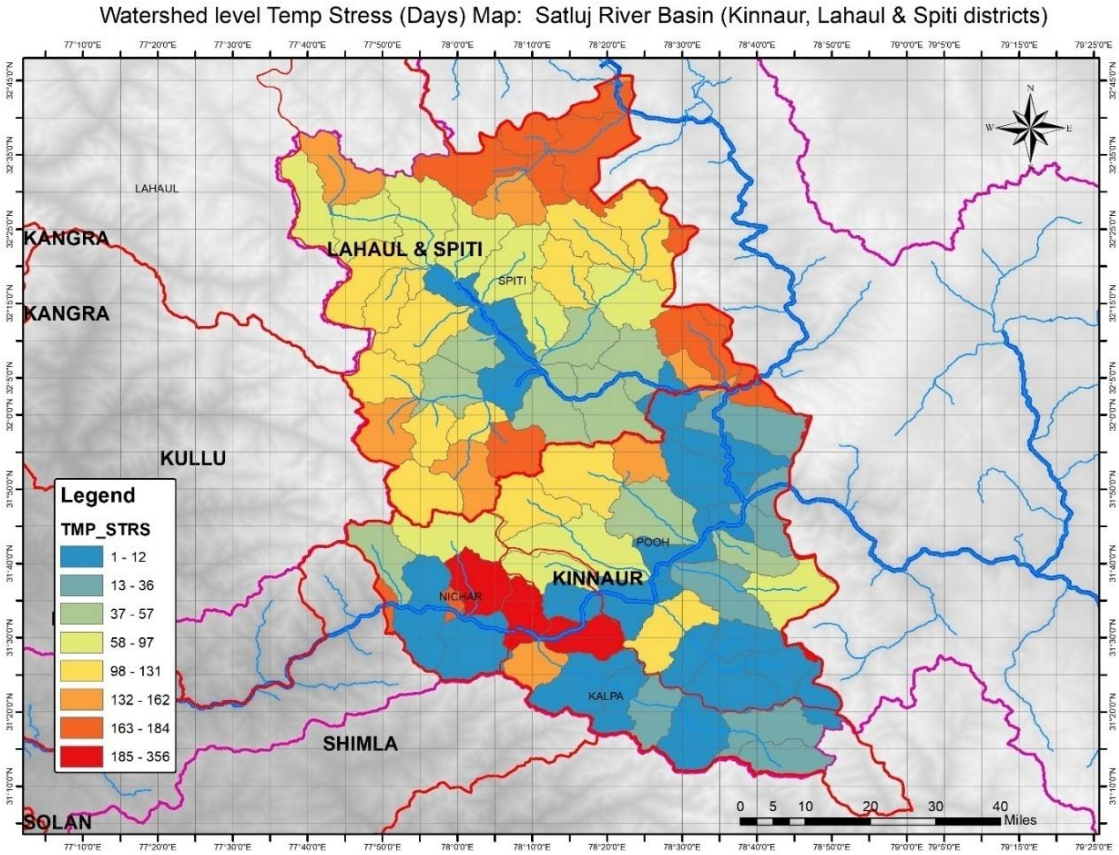
Map 9.2 Average Maximum Temperatures



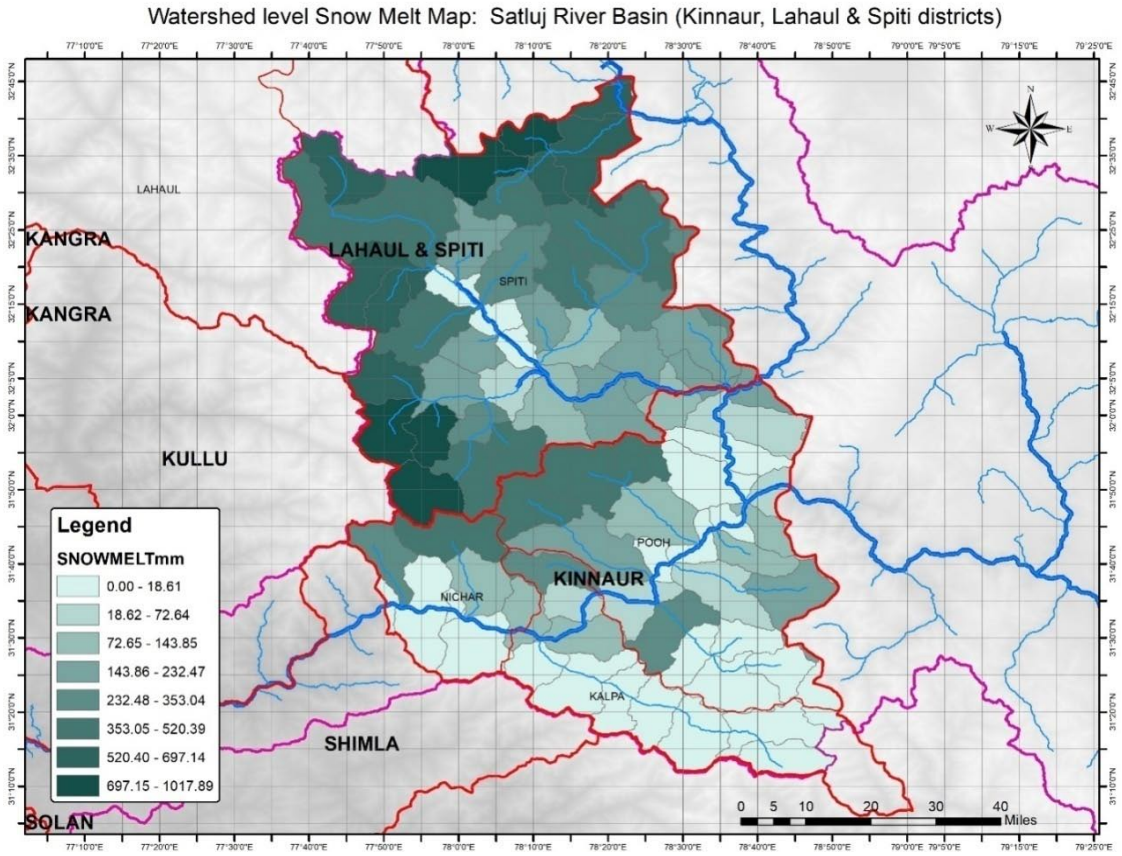
Map 9.3 Average Minimum Temperatures



Map 9.4: Water Stress



Map 9.5: Temperature Stress



Map 9.6: Snow melt

After down scaling the global climate data to the regional level, the clear picture of climate of the region appeared. After analysing the 34 years data through SWAT model the Map 9.1 indicates that western part of Spiti block and Nichar block are receiving more precipitation than other parts of the region.

Map 9.2 generated through model indicates that the maximum temperature of all area with lower altitude of all the blocks is between 12^{o}C to 24^{o}C whereas comparatively the maximum temperature on higher altitude is less i.e. -4.04 ^{o}C to 17^{o}C.

Map 9.3 generated through model indicates that the minimum temperature of all area with lower altitude of all the blocks is between 6^{o}C to 13^{o}C whereas comparatively the minimum temperature on higher altitude is less i.e. -16^{o}C to 4^{o}C.

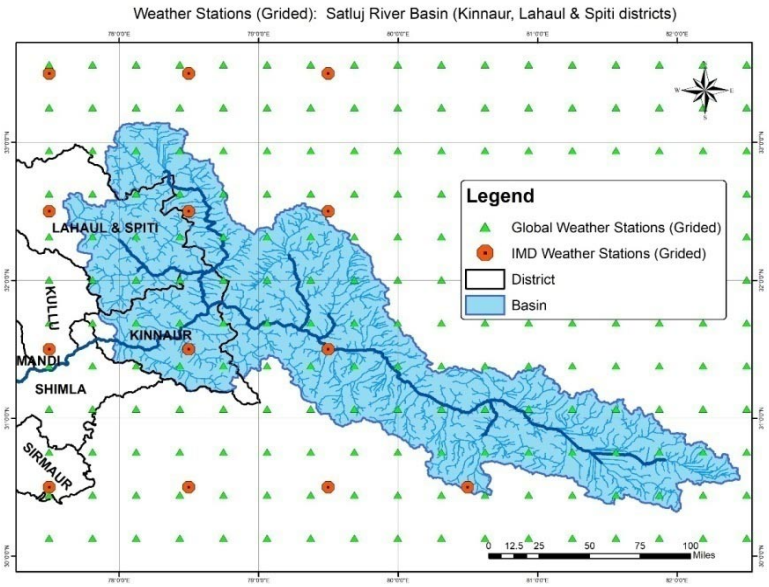
Map 9.4 indicates that the higher altitude region of the Spiti block is encountering less water stress days where as in NIchar, Pooh & Kalpa block the distribution of water stress day is uneven.

Map 9.5 indicates that the higher altitude region of the Spiti block is encountering more temperature stress days where as in NIchar, Pooh & Kalpa block the distribution of temperature stress day is uneven.

Map 9.6 indicates that the higher altitude region of the Spiti, Nichar & Pooh block is encountering more snow melt ranging between 353 mm to 1018 mm where as in southern parts of Nichar, Pooh, Kalpa Blocks and lower altitude region of Spiti Block snow melt ranging between 0 mm to 232 mm .

9.3 Exposure Indicators

In order to analyze climate change exposure the grided data of National Centers for Environment Prediction (NCEP) Climate Forecast System analysis (CFSR) developed a 34 year climate data sets (1979 to 2013) has been used for all the regions of Satluj River Basin area covering China and India part. However, gridded data published by IMD for 68 rain years (1951–2018) has also been processed into SWAT for hydrological analysis for the area of Satluj Basin falling within the Country. As indicated in map shown above only two grided station of IMD fall within the study area. The weather data for station nearby study area has been downloaded from http://globalweather.tamu.edu site. The daily data such as precipitation (mm), Temperature (^{o}C), Wind velocity (m/s) and solar radiation (MJ/ m2) available for station has been used. To generate weather database for QSWAT input, various parameters related temperature, precipitation and dew point temperatures were calculated. Calculation of TMPMX, TMPMN, TMPSTDMX, SOLARAV, WNDAV has been carried out.

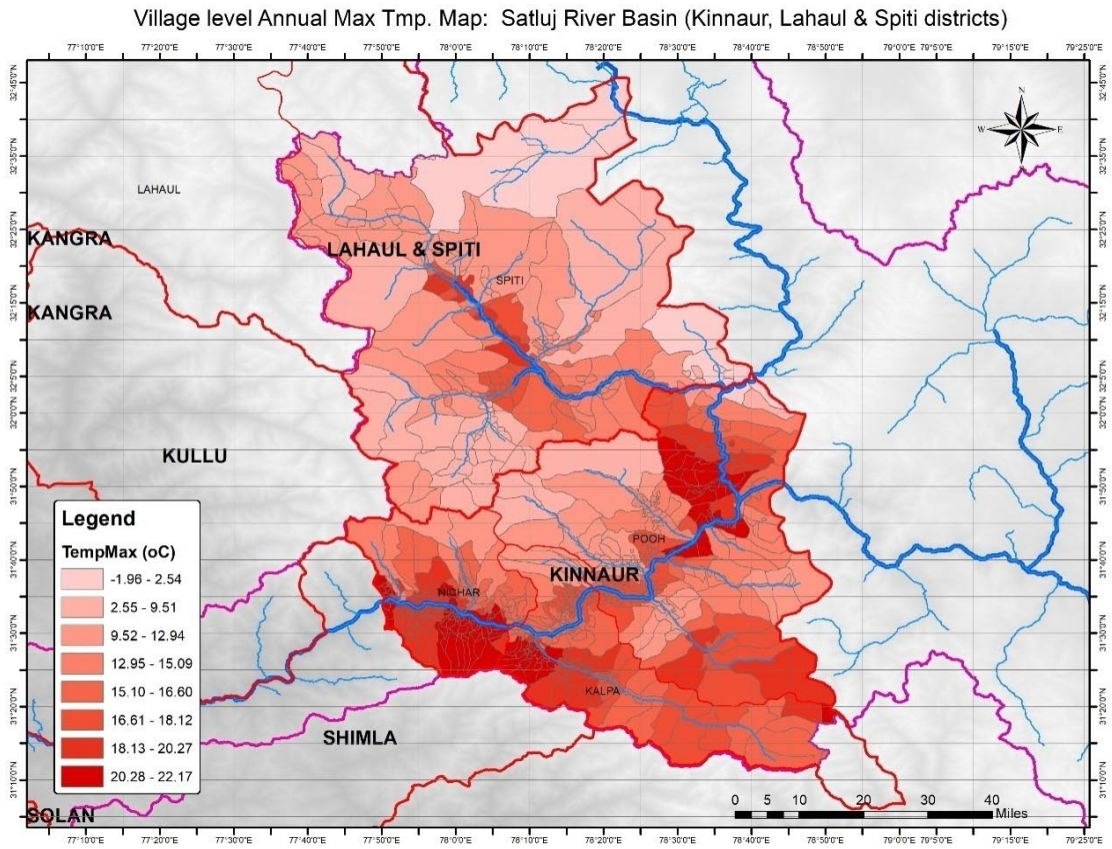


Map 9.7: Weather stations

Six indicators of exposure have been analysed and computed using meteorological data for a period of 34 years (1979-2013) for entire region & 68 years (1951–2018) for Indian region. The maps have been developed for each of these indicators of climatic exposure. The indicator-wise analysis is as under:

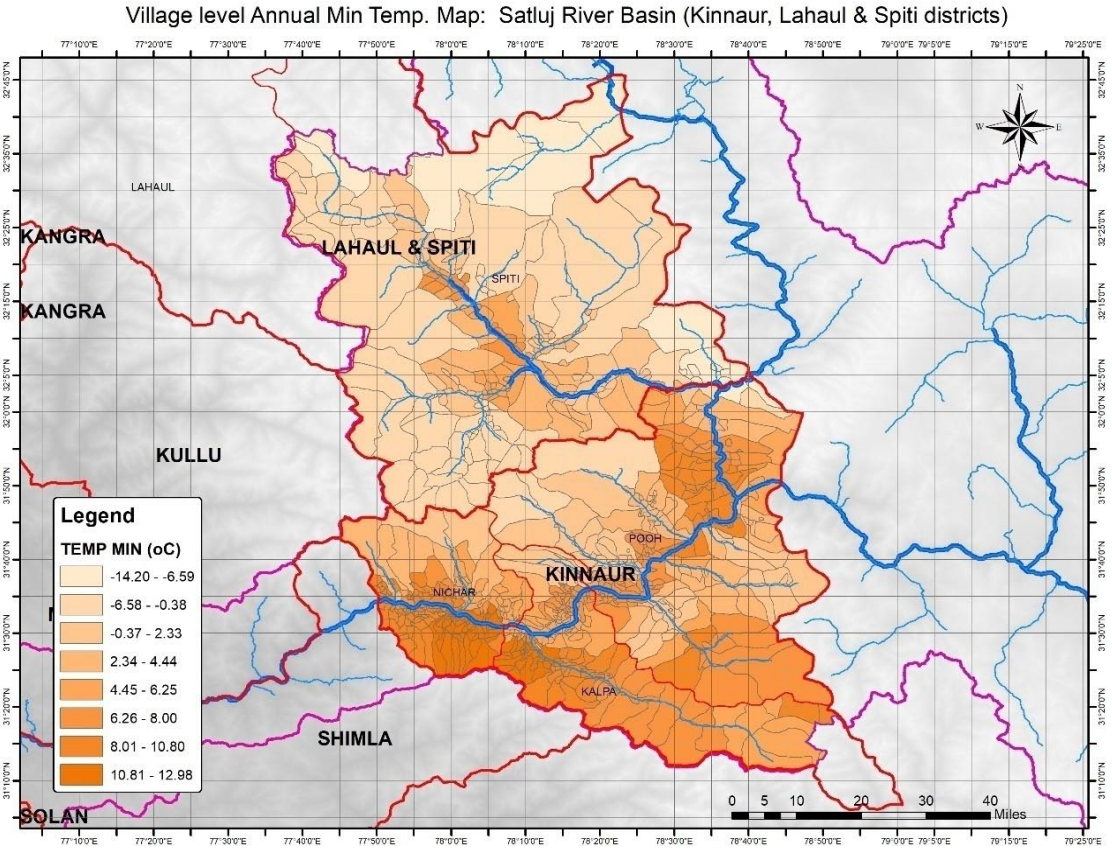
Code	Exposure	Units	Years	Functional Relationship with Exposure	Data Source
E01	Average maximumtemperature	^{o}C	1979-2013	↑	SWAT Model
E02	Average minimumtemperature	^{o}C	1979-2013	↑	SWAT Model
E03	Average precipitation	mm	1979-2013	↓	SWAT Model
E04	Water stress days	Days	1979-2013	↑	SWAT Model
E05	Temperature stress days	Days	1979-2013	↑	SWAT Model
E06	Snow Melt	mm	1979-2013	↑	SWAT Model

E01 Average maximum temperature



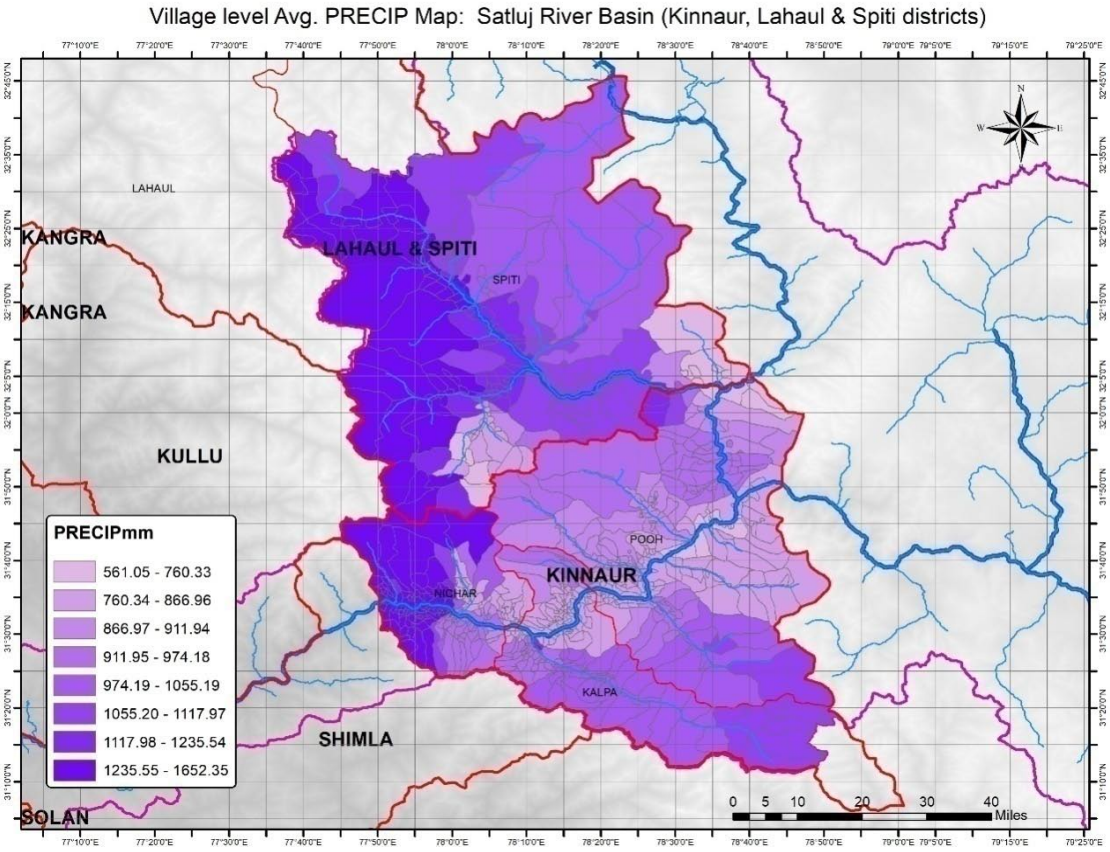
Map 9.8: Village level average maximum temperatures

E02 Annual average minimum temperature



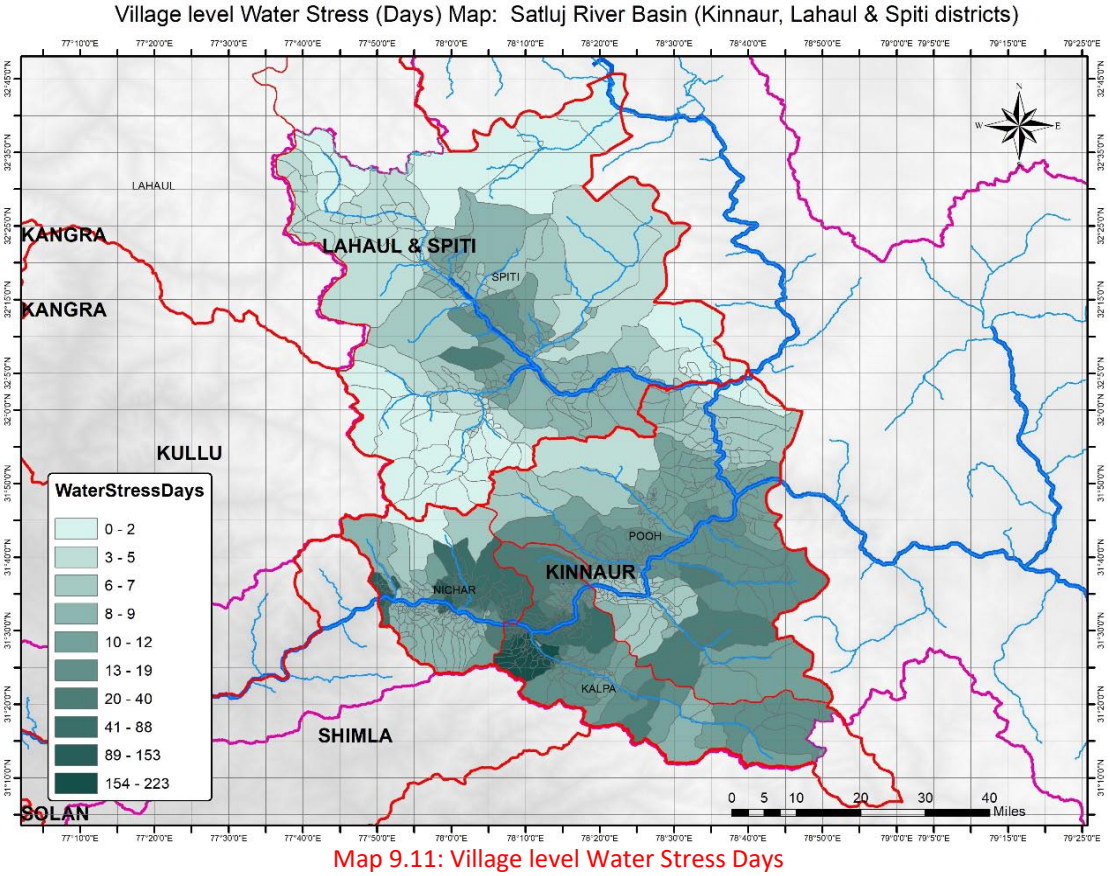
Map 9.9: Village level average minimum temperatures

E03 Average precipitation



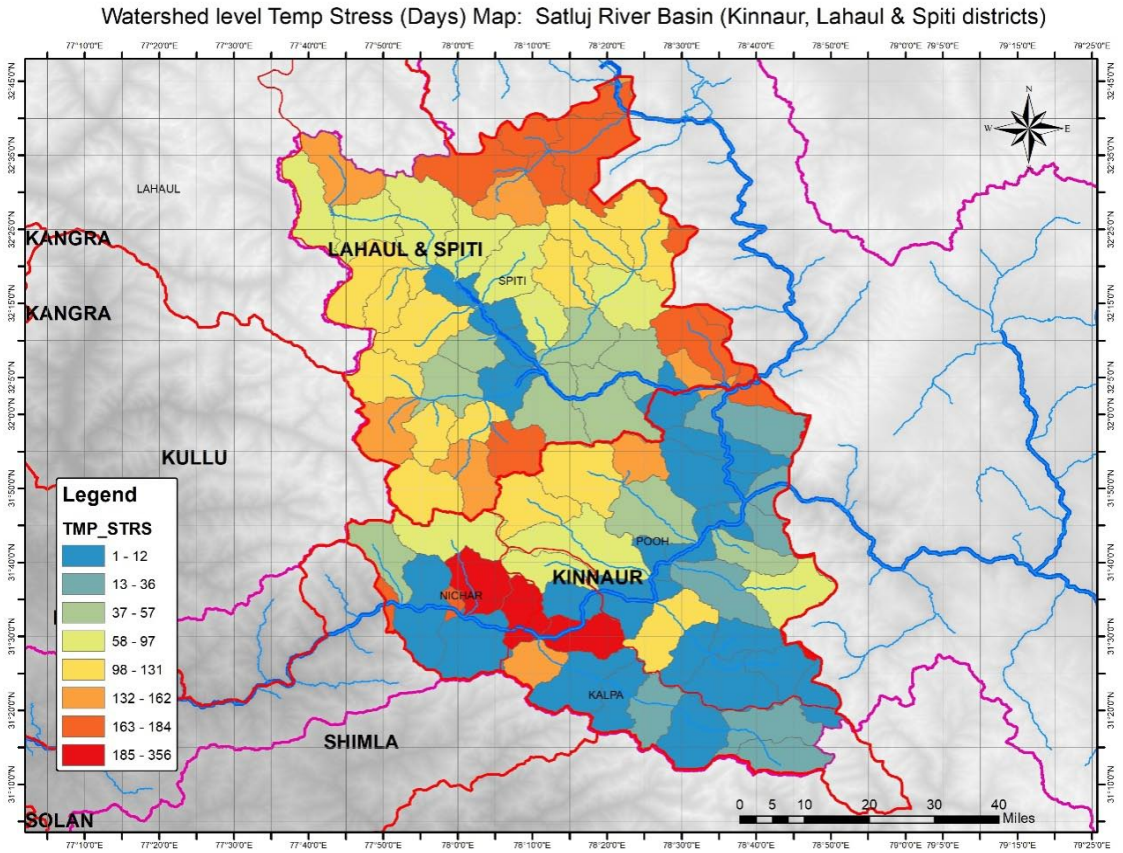
Map 9.10: Village level Monthly Average Precipitation

E04 Water stress days



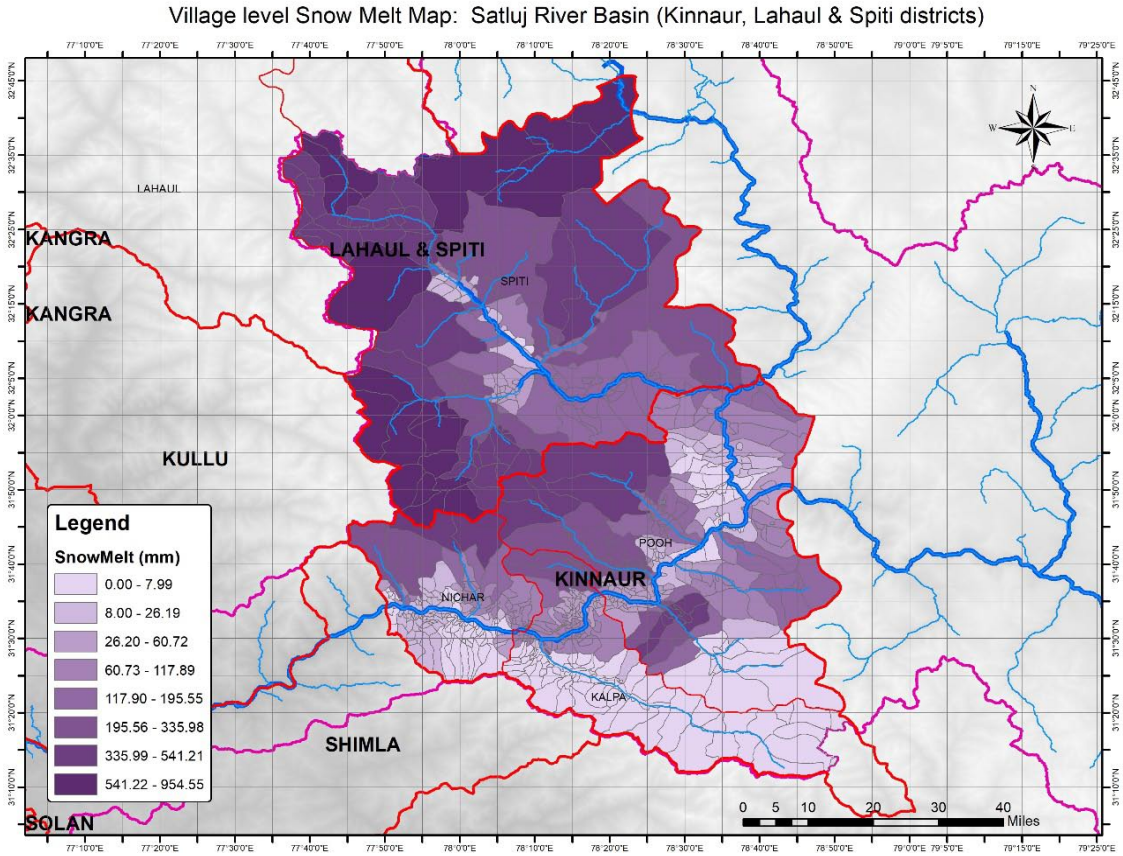
Map 9.11: Village level Water Stress Days

E05 Temperature stress days



Map 9.12: Temperature Stress Days

E06 Snow Melt



Map 9.13: Snow Melt

After analysing the SWAT model output using IMD Grided data & Global Weather data Map 9.8 & 9.9 indicated that villages located in lower altitude encounter increased maximum & minimum temperature as compare to the higher altitude areas. More the water stress days will increase the exposure to the climate change vulnerability. Map 9.10 indicates that villages falling in western part of Spiti & Nichar Block are receiving more precipitation than other parts of the study area. Increas in precipitation will decrease the exposure to the climate change vulnerability.

Water stress days for each Hydrological Response Unit (HRU), the smallest unit of micro shed are generated after running the SWAT model. These water stress days are further calculated for all the villages of the four developmental blocks of district Kinnaur, Lahaul & Spiti districts falling in Satluj River Basin. Map 9.7 depicts that villages located in lower altitude encounter more water stress days as compare to the higher altitude areas. More the water stress days will increase the exposure to the climate change vulnerability. Similarly Map 9.12 indicates villages located in lower altitude encountering less temperature stress days. Map 9.13 indicates that there is an increase in ice melting villages located on higher altitude as compared to the villages located in lower altitude.

9.4 Composite Exposure

Composite exposure has been calculated using normalization of values of five variables viz: Rain fall, temperature (E01, E02, E03, E04, E05 & E06). Since the values are with different scale and units, the normalization of indicators using functional relationship has been done.

Variable Indicator E01 i.e. Average maximum temperature has ↑ functional relationship with exposure and the normalization is done using the formula, which means the increase in average maximum temperature will increase the exposure level that will further leads to high vulnerability:

$$x_{ij} = \frac{X_{ij} - Min_i\{X_{ij}\}}{Max_i\{X_{ij}\} - Min_i\{X_{ij}\}}$$

However, for indicator E03 i.e. Average precipitation the normalization is done using the formula:

$$y_{ij} = \frac{Max_i\{X_{ij}\} - X_{ij}}{Max_i\{X_{ij}\} - Min_i\{X_{ij}\}}$$

This is because the function relationship of indicator E03 with vulnerability is ↓, which means, the increase in precipitation willreduce exposure level andvulnerability.

After calculating the score of variables E01, E02, E03, E04,E05 & E06 the average score is calculated and the Composite Exposure has been calculated and mapped for all villages of four developmental blocks of district Kinnaur, Lahaul & Spiti districts falling in Satluj River Basin. Composite exposure calculated for each village based upon 6 indicators is as under:

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
026992	Dhar Rawal	KALPA	Kinnaur	0.56	0.57	0.65	0.70	0.32	0.31	0.53
026993	Dhar Kyari	KALPA	Kinnaur	0.57	0.58	0.68	0.69	0.29	0.27	0.51
026994	Nang Kashang	KALPA	Kinnaur	0.55	0.56	0.67	0.70	0.33	0.32	0.54
026995	KashagGramag	KALPA	Kinnaur	0.55	0.56	0.67	0.70	0.33	0.32	0.54
026996	JangalMehfuza	KALPA	Kinnaur	0.55	0.56	0.67	0.70	0.33	0.32	0.54
026997	KashangGetige	KALPA	Kinnaur	0.55	0.56	0.67	0.71	0.33	0.32	0.54

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
026998	JangalMehfuza	KALPA	Kinnaur	0.57	0.57	0.67	0.71	0.31	0.30	0.54
026999	Ragura	KALPA	Kinnaur	0.78	0.76	0.73	0.81	0.03	0.04	0.55
027000	JangalMehfuzaMehduda	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027001	Khwanta	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027002	JangalMehfuzaMehduda	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027003	JangalMehfuzaMehduda	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027004	Dhar KurakTasang	KALPA	Kinnaur	0.60	0.60	0.67	0.72	0.28	0.27	0.54
027005	Dhar Gurgurti	KALPA	Kinnaur	0.69	0.68	0.70	0.77	0.25	0.16	0.59
027006	Mebar	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027007	Japredin	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027008	Change	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027009	Panwa	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027010	JangalMehfuzaMehduda	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027011	JangalMehfuzaMehduda	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027012	Boktu	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027013	Pangi	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027014	Purbani Khas	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027015	Rawa	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.02	0.04	0.55
027016	JangalMehfuzaMehduda	KALPA	Kinnaur	0.79	0.77	0.73	0.77	0.01	0.03	0.52
027017	JangalMehfuzaMehduda	KALPA	Kinnaur	0.79	0.77	0.73	0.80	0.01	0.03	0.54
027018	Dhar JeshtaGrang	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.03	0.03	0.55
027019	JangalMehfuzaMehduda	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027020	JangalMehfuzaMehduda	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027021	Kibar	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027022	JangalMehfuzaMehduda	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027023	D.P.F. Talampi C	KALPA	Kinnaur	0.78	0.76	0.73	0.82	0.29	0.05	0.68
027024	Pawari	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027025	Telingi	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027026	Tarkhwa	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027027	Maki Mrang	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027028	Khwangi	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027029	Kothi	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027030	Duni	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027031	Kashmir	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027032	Gonang	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027033	Goli	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027034	JangalMehfuzaMehduda	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027035	Dumdumka	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.13	0.04	0.6
027036	Radule	KALPA	Kinnaur	0.76	0.74	0.73	0.83	0.56	0.07	0.8
027037	Dhar Dhumpawang	KALPA	Kinnaur	0.77	0.76	0.73	0.82	0.35	0.06	0.7
027038	Dhar ShulachaPilaya	KALPA	Kinnaur	0.76	0.75	0.74	0.82	0.80	0.08	0.92
027039	Kastyo	KALPA	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027040	JangalMehfuzaMehduda	KALPA	Kinnaur	0.76	0.74	0.73	0.82	0.96	0.09	0.99
027041	Dakhaye	KALPA	Kinnaur	0.75	0.73	0.73	0.83	0.97	0.09	1
027042	Talangcho	KALPA	Kinnaur	0.75	0.73	0.73	0.83	0.98	0.10	1
027043	D.P.F. RogiSoyam	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027044	D.P.F. RogiDoyam	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027045	D.P.F. RogiAwal	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027046	Rogi	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027047	Shuda Rang	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027048	D.P.F. ChiniDoyam	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027049	Saryo	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027050	D.P.F. ChiniAwal	KALPA	Kinnaur	0.75	0.73	0.73	0.84	0.81	0.09	0.92
027051	Kalpa	KALPA	Kinnaur	0.77	0.75	0.73	0.82	0.43	0.06	0.74

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
027052	Brelingi	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027053	ReckongPeo	KALPA	Kinnaur	0.79	0.77	0.73	0.81	0.01	0.03	0.55
027054	Yuwaringi	KALPA	Kinnaur	0.78	0.76	0.73	0.82	0.25	0.05	0.66
027055	Raang	KALPA	Kinnaur	0.74	0.73	0.73	0.84	0.86	0.09	0.94
027056	Yusaring	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027057	Rali	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027058	D.P.F. Rali C-167	KALPA	Kinnaur	0.76	0.75	0.72	0.85	0.95	0.09	1
027059	D.P.F. Gramag C-168	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027060	PhayagChoden	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027061	Dhar Yutingra	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027062	Mebar Khas	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027063	D.P.F. Nalango C-169 AB	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027064	JangalMehfuzaMehduda	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027065	JangalMehfuzaMehduda	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027066	Barang Khas	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027067	JangalMehfuzaMehduda	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027068	Sharmi	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027069	JangalMehfuzaMehduda	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027070	Tangling	KALPA	Kinnaur	0.75	0.73	0.73	0.84	0.81	0.09	0.91
027071	JangalMehfuzaMehduda	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027072	MelingKhata	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027073	Dhar MotasChakru	KALPA	Kinnaur	0.74	0.73	0.72	0.84	0.94	0.10	0.98
027074	Tatkhawa Kanda	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027075	Dhar Tikulrung Thar	KALPA	Kinnaur	0.74	0.72	0.72	0.84	0.99	0.10	1
027089	Shorang	KALPA	Kinnaur	0.86	0.84	0.43	0.83	0.39	0.11	0.69
027090	D.P.F. Bada Kamba C 97	KALPA	Kinnaur	0.81	0.79	0.33	0.81	0.31	0.15	0.57
027091	Kumrang Dhar	KALPA	Kinnaur	0.69	0.65	0.11	0.74	0.19	0.26	0.31
027264	Thikru	KALPA	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027265	D.P.F.C-137 A+B	KALPA	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027266	Nyardeem	KALPA	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027267	D.P.F.C-138 Thikru	KALPA	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027268	D.P.F.C-139 Tiuden	KALPA	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027269	Kilba Khas	KALPA	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027270	D.P.F.C-140-141 Kilba	KALPA	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027271	Kanahi-Khas	KALPA	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027272	D.P.F.C-143 Sapni	KALPA	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027273	D.P.F. C-142-144 Kumkumi	KALPA	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027274	Gunthar	KALPA	Kinnaur	0.82	0.81	0.72	0.84	0.84	0.07	0.99
027275	Patyo	KALPA	Kinnaur	0.99	0.99	0.66	0.89	0.52	0.00	0.98
027276	Sapni Khas	KALPA	Kinnaur	0.91	0.90	0.69	0.87	0.69	0.03	0.98
027277	Shenan Den	KALPA	Kinnaur	0.92	0.92	0.68	0.88	0.66	0.03	0.98
027278	Baturi	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027279	D.P.F. Baturi C-145	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027280	Baturi Kanda	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027281	Supitang Dhar	KALPA	Kinnaur	0.97	0.97	0.67	0.89	0.56	0.01	0.98
027282	Pilacho Dhar	KALPA	Kinnaur	0.93	0.93	0.68	0.85	0.52	0.02	0.91
027283	Botyaring Dhar	KALPA	Kinnaur	1.00	1.00	0.66	0.87	0.40	0.00	0.91
027284	Batingra Dhar	KALPA	Kinnaur	1.00	1.00	0.66	0.88	0.44	0.00	0.93
027285	Anati Dhar	KALPA	Kinnaur	1.00	1.00	0.66	0.88	0.44	0.00	0.93
027286	D.P.F.C-146	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027287	D.P.F.C-147-148	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027288	Barua Khas	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027292	Regsthang	KALPA	Kinnaur	0.99	0.99	0.66	0.89	0.53	0.00	0.98
027293	D.P.F.C-164	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
027294	D.P.F.C-151 A+B	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027295	ShobreYanang	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027296	D.P.F.C 149-150	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027297	Nagassaring	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027298	Mone Rang	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027299	Tilchakhula Dhar	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027300	Bulcho Dhar	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027301	Dhar Pashel	KALPA	Kinnaur	0.99	0.99	0.66	0.90	0.51	0.00	0.96
027302	Tesha Guden	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027303	Shaung Khas	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027304	D.P.F.C-152	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027305	Limoden	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027306	D.P.F.C-152	KALPA	Kinnaur	0.99	0.99	0.66	0.89	0.52	0.00	0.98
027307	Chasu Khas	KALPA	Kinnaur	0.99	1.00	0.66	0.89	0.52	0.00	0.98
027308	Dhar Dambar	KALPA	Kinnaur	0.99	0.99	0.66	0.90	0.50	0.00	0.96
027309	Jareyo	KALPA	Kinnaur	0.90	0.91	0.62	0.91	0.19	0.00	0.72
027310	D.P.F.C-153 Chindo	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027311	Dhar Rupan	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.02	0.00	0.6
027312	Sangla Kanda	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027313	D.P.F.C-154-155	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027314	Sangla	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027315	Kupa	KALPA	Kinnaur	0.91	0.92	0.63	0.91	0.24	0.00	0.76
027316	Kamru Khas	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027317	Lachonden	KALPA	Kinnaur	0.87	0.88	0.62	0.91	0.17	0.01	0.69
027318	Goroden	KALPA	Kinnaur	0.85	0.86	0.60	0.91	0.02	0.00	0.59
027319	Thapa Saring	KALPA	Kinnaur	0.85	0.86	0.60	0.91	0.02	0.00	0.59
027320	Panpo Kanda	KALPA	Kinnaur	0.85	0.86	0.60	0.92	0.01	0.00	0.59
027321	D.P.F.C-162	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027322	Boning Saring	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027323	D.P.F.C 157 Basering	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027324	D.P.FHurua-C-156	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027325	Dewar Kanda	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027326	Dhar Dewar	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027327	Dhar Hanyauperli	KALPA	Kinnaur	0.85	0.86	0.60	0.92	0.01	0.00	0.58
027328	Dhar Singan	KALPA	Kinnaur	0.84	0.86	0.60	0.92	0.01	0.00	0.58
027329	Dhar Hanyanichli	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027330	Batseri	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027331	Seringche	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027332	D.P.F.C 162-B	KALPA	Kinnaur	0.85	0.87	0.60	0.92	0.00	0.00	0.59
027333	Dhar Bujlang	KALPA	Kinnaur	0.84	0.85	0.61	0.91	0.07	0.01	0.61
027334	Dhar Bhadri	KALPA	Kinnaur	0.82	0.84	0.59	0.92	0.03	0.01	0.57
027335	D.P.F.C.-160	KALPA	Kinnaur	0.77	0.80	0.57	0.96	0.04	0.00	0.54
027336	D.P.F.C-161	KALPA	Kinnaur	0.77	0.80	0.57	0.96	0.04	0.00	0.54
027337	Kharogla	KALPA	Kinnaur	0.77	0.80	0.57	0.96	0.04	0.00	0.54
027338	D.P.F.C 162-A	KALPA	Kinnaur	0.82	0.84	0.59	0.93	0.02	0.00	0.57
027339	D.P.F.C-163	KALPA	Kinnaur	0.82	0.84	0.59	0.93	0.02	0.00	0.57
027340	D.P.F.C-159 Batseri	KALPA	Kinnaur	0.80	0.82	0.58	0.94	0.03	0.00	0.56
027341	Dhar KalikutangNichli	KALPA	Kinnaur	0.78	0.80	0.57	0.96	0.04	0.00	0.54
027342	Dhar Kali KutangUperli	KALPA	Kinnaur	0.77	0.80	0.57	0.96	0.04	0.00	0.54
027343	Dhar Kamkamphur	KALPA	Kinnaur	0.77	0.80	0.57	0.96	0.04	0.00	0.54
027344	Rakchham	KALPA	Kinnaur	0.77	0.80	0.57	0.96	0.04	0.00	0.54
027345	Dhar Shoshla	KALPA	Kinnaur	0.77	0.80	0.57	0.96	0.05	0.00	0.54
027346	Dhar Gelap	KALPA	Kinnaur	0.75	0.78	0.57	0.96	0.07	0.01	0.54
027347	Dhar Tawla	KALPA	Kinnaur	0.76	0.78	0.56	0.96	0.06	0.00	0.53

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
027348	Mastrang	KALPA	Kinnaur	0.76	0.79	0.56	0.96	0.05	0.00	0.54
027349	Dhar Noshang West	KALPA	Kinnaur	0.77	0.79	0.57	0.96	0.05	0.00	0.54
027350	Dhar NoshangUperli	KALPA	Kinnaur	0.77	0.79	0.57	0.96	0.05	0.00	0.54
027351	Dhar NoshangNichli	KALPA	Kinnaur	0.75	0.78	0.56	0.97	0.06	0.00	0.53
027352	Chhitkul	KALPA	Kinnaur	0.75	0.78	0.56	0.97	0.06	0.00	0.53
027353	Dhar Bhujlang	KALPA	Kinnaur	0.79	0.79	0.56	0.97	0.03	0.00	0.54
027354	Dhar Bhujaya	KALPA	Kinnaur	0.75	0.78	0.56	0.97	0.06	0.00	0.53
027355	Dhar Gire	KALPA	Kinnaur	0.80	0.79	0.56	0.98	0.03	0.00	0.54
027356	Dhar Shothang	KALPA	Kinnaur	0.82	0.79	0.56	0.98	0.01	0.00	0.55
027357	Dhar Hilap	KALPA	Kinnaur	0.82	0.79	0.56	0.98	0.01	0.00	0.55
027358	Dhar Ranikanda	KALPA	Kinnaur	0.82	0.79	0.56	0.98	0.01	0.00	0.55
027359	Dhar Shonchayo	KALPA	Kinnaur	0.80	0.77	0.55	0.98	0.03	0.00	0.54
027360	Dhar Dumti	KALPA	Kinnaur	0.77	0.75	0.53	0.98	0.05	0.00	0.52
027361	Dhar Nithal	KALPA	Kinnaur	0.76	0.74	0.53	0.99	0.07	0.00	0.51
027362	Dhar Karu	KALPA	Kinnaur	0.75	0.74	0.53	0.99	0.07	0.00	0.51
027363	Dhar Vaspa	KALPA	Kinnaur	0.75	0.74	0.53	1.00	0.07	0.00	0.51
027364	Dhar Gundar	KALPA	Kinnaur	0.75	0.74	0.53	1.00	0.07	0.00	0.51
027365	Dhar Jowtya	KALPA	Kinnaur	0.75	0.74	0.53	0.99	0.07	0.00	0.51
027366	Dhar Nakdum	KALPA	Kinnaur	0.76	0.74	0.53	0.98	0.06	0.00	0.51
027367	Dhar Arsomage	KALPA	Kinnaur	0.85	0.82	0.51	0.96	0.03	0.00	0.56
027368	Dhar Chorgaarh	KALPA	Kinnaur	0.93	0.89	0.50	0.94	0.00	0.00	0.59
027369	Dhar Nakurchhe	KALPA	Kinnaur	0.93	0.89	0.50	0.94	0.00	0.00	0.59
027370	Dhar Thanda Pani	KALPA	Kinnaur	0.75	0.74	0.53	1.00	0.07	0.00	0.51
027076	Dhar Taal	NICHAR	Kinnaur	0.69	0.65	0.10	0.75	0.18	0.26	0.3
027077	Galding	NICHAR	Kinnaur	0.93	0.86	0.21	0.77	0.63	0.03	0.68
027078	Shamnu	NICHAR	Kinnaur	0.96	0.89	0.23	0.78	0.69	0.00	0.73
027079	Majhgaon	NICHAR	Kinnaur	0.96	0.89	0.23	0.78	0.69	0.00	0.73
027080	Nainsaring	NICHAR	Kinnaur	0.90	0.84	0.20	0.77	0.58	0.06	0.64
027081	Shagarcha	NICHAR	Kinnaur	0.96	0.89	0.23	0.78	0.69	0.00	0.73
027082	Dabling	NICHAR	Kinnaur	0.96	0.89	0.23	0.78	0.69	0.00	0.73
027083	Pashpa	NICHAR	Kinnaur	0.96	0.89	0.23	0.78	0.69	0.00	0.73
027084	Burang	NICHAR	Kinnaur	0.90	0.84	0.20	0.77	0.58	0.06	0.63
027085	Hurba	NICHAR	Kinnaur	0.95	0.89	0.22	0.78	0.68	0.01	0.72
027086	Tinrang	NICHAR	Kinnaur	0.70	0.66	0.11	0.75	0.20	0.25	0.31
027087	D.P.F. RupiShorangAwal	NICHAR	Kinnaur	0.80	0.75	0.15	0.76	0.40	0.15	0.48
027088	D.P.F. RupiShorang	NICHAR	Kinnaur	0.69	0.65	0.10	0.75	0.18	0.26	0.3
027089	Shorang	NICHAR	Kinnaur	0.86	0.84	0.43	0.83	0.39	0.11	0.69
027090	D.P.F. Bada Kamba C 97	NICHAR	Kinnaur	0.81	0.79	0.33	0.81	0.31	0.15	0.57
027091	Kumrang Dhar	NICHAR	Kinnaur	0.69	0.65	0.11	0.74	0.19	0.26	0.31
027092	Dhar Barke	NICHAR	Kinnaur	0.72	0.68	0.12	0.72	0.15	0.23	0.3
027093	Gharshu	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027094	D.P.F.Chhota Kamba	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027095	Basharang	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027096	D.P.F.Chhota Kamba	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027097	Chhota Kamba	NICHAR	Kinnaur	0.87	0.81	0.19	0.76	0.01	0.03	0.31
027098	Tiche	NICHAR	Kinnaur	0.76	0.71	0.13	0.75	0.11	0.17	0.3
027099	Bara Kamba	NICHAR	Kinnaur	0.71	0.67	0.11	0.75	0.16	0.23	0.3
027100	Dhar Phopal	NICHAR	Kinnaur	0.72	0.68	0.11	0.69	0.16	0.25	0.29
027101	D.P.F.C.-94	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027102	Salaring	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027103	Bayude	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027104	Rock Charang	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027105	Kachrang	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027106	D.P.F.C-93 DangrangKachrang	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
027107	Regegurgur Dhar	NICHAR	Kinnaur	0.87	0.81	0.21	0.76	0.04	0.02	0.34
027108	Yongrang Dhar	NICHAR	Kinnaur	0.83	0.80	0.53	0.79	0.84	0.06	0.87
027109	Saak Kanda	NICHAR	Kinnaur	0.96	0.89	0.22	0.77	0.50	0.01	0.64
027110	D.P.F.C-92	NICHAR	Kinnaur	0.96	0.90	0.22	0.77	0.50	0.00	0.64
027111	Kandar	NICHAR	Kinnaur	0.99	0.92	0.23	0.77	0.65	0.00	0.73
027112	Nathpa	NICHAR	Kinnaur	0.90	0.84	0.20	0.76	0.11	0.02	0.39
027113	Neugal Dhar	NICHAR	Kinnaur	0.57	0.55	0.04	0.63	0.30	0.47	0.27
027114	Shaling Dhar	NICHAR	Kinnaur	0.68	0.66	0.48	0.74	0.74	0.23	0.72
027115	Homte	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027116	D.P.F.Kampurang C-90	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027117	Kafnu	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027118	Marpuling	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027119	Yangpa	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027120	Huri	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027121	Masrang	NICHAR	Kinnaur	0.73	0.71	0.71	0.80	0.98	0.10	0.96
027122	Sharoongch Dhar	NICHAR	Kinnaur	0.72	0.70	0.67	0.78	0.94	0.13	0.91
027123	Thuskeo Dhar	NICHAR	Kinnaur	0.58	0.55	0.10	0.64	0.35	0.45	0.31
027124	Chhirem	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027125	D.P.F.Yati C-91	NICHAR	Kinnaur	0.88	0.84	0.48	0.78	0.74	0.04	0.83
027126	Yotrang	NICHAR	Kinnaur	0.73	0.72	0.72	0.80	1.00	0.09	0.97
027127	Katgaon	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027128	Karaba	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027129	Pandoshwar Dhar	NICHAR	Kinnaur	0.70	0.68	0.58	0.76	0.84	0.17	0.82
027130	Surcho	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027131	D.P.F.Dutrang C-89	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027132	Shango	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027133	Baiyee	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027134	Rarang	NICHAR	Kinnaur	0.91	0.88	0.56	0.79	0.52	0.03	0.8
027135	Kangarang	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027136	D.P.F.-80	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027137	Puje	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027138	Agade	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.05	0.02	0.34
027139	Linge	NICHAR	Kinnaur	0.99	0.92	0.23	0.77	0.65	0.00	0.73
027140	Garade	NICHAR	Kinnaur	0.91	0.85	0.20	0.76	0.20	0.01	0.44
027141	Kashpo	NICHAR	Kinnaur	0.89	0.83	0.20	0.76	0.10	0.02	0.38
027142	D.P.F.-81	NICHAR	Kinnaur	0.98	0.91	0.22	0.77	0.58	0.00	0.69
027143	Nigani	NICHAR	Kinnaur	0.99	0.92	0.23	0.77	0.65	0.00	0.73
027144	D.P.F.-82	NICHAR	Kinnaur	0.99	0.92	0.23	0.77	0.65	0.00	0.73
027145	D.P.F.-83	NICHAR	Kinnaur	0.99	0.93	0.30	0.77	0.54	0.00	0.73
027146	Rango	NICHAR	Kinnaur	0.98	0.91	0.22	0.77	0.60	0.00	0.7
027147	Rethachang Dhar	NICHAR	Kinnaur	0.99	0.97	0.52	0.78	0.18	0.00	0.68
027148	Chhot Kanda	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.01	0.00	0.69
027149	Deya Dhar	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027150	Somo	NICHAR	Kinnaur	1.00	0.99	0.59	0.79	0.10	0.00	0.69
027151	Paring Khor	NICHAR	Kinnaur	1.00	1.00	0.64	0.79	0.04	0.00	0.69
027152	Kangosh	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027153	D.P.F.-78	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027154	Sungra	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027155	Punaspa	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027156	Saki Charang	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027157	Baro	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027158	D.P.F.-79	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.03	0.02	0.34
027159	Solding	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027160	Palingi	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
027161	Ponda	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027162	Ralpa	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027163	Change	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027164	Gramang	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027165	Rawa	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027166	D.P.F.-74	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027167	Chhayuda Dhar	NICHAR	Kinnaur	0.96	0.94	0.51	0.78	0.00	0.01	0.56
027168	D.P.F.-75,76	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027169	Rango	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027170	D.P.F.-77	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027171	Monilaat Dhar	NICHAR	Kinnaur	0.87	0.82	0.19	0.76	0.00	0.02	0.32
027172	Sarik Dhar	NICHAR	Kinnaur	0.90	0.85	0.27	0.76	0.00	0.02	0.37
027173	Nigul Sari	NICHAR	Kinnaur	0.87	0.82	0.19	0.76	0.00	0.02	0.31
027174	Thachh	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027175	Chaura	NICHAR	Kinnaur	0.94	0.88	0.22	0.78	0.65	0.01	0.7
027176	Kafaur	NICHAR	Kinnaur	0.96	0.89	0.23	0.78	0.69	0.00	0.73
027177	Shilani	NICHAR	Kinnaur	0.96	0.89	0.23	0.78	0.69	0.00	0.73
027178	D.P.F-68 A,B,C	NICHAR	Kinnaur	0.94	0.88	0.22	0.77	0.55	0.01	0.65
027179	Sarkund Dhar	NICHAR	Kinnaur	0.94	0.87	0.22	0.77	0.51	0.01	0.62
027180	D.P.F.69,70	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027181	Tikrang	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027182	Chhonda	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027183	Nanaspo	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027184	Karape	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027185	Tranda	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027186	D.P.F-72	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027187	D.P.F-72	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027188	D.P.F-Kutange C	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027189	D.P.F. Bore C	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027190	Phulyari Dhar	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027191	GundaliTirmi Dhar	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027192	D.P.F-73 C	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027193	Bagantu Dhar	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027194	Bahal Dhar	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027195	Devli Dhar	NICHAR	Kinnaur	0.88	0.82	0.19	0.76	0.00	0.02	0.31
027196	MohalNishvasingh	NICHAR	Kinnaur	0.97	0.95	0.55	0.78	0.00	0.00	0.59
027197	Bhum Talas Dhar	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027198	Shaling Dhar	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027199	Phaktayowar Dhar	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027200	D.P.F.-84	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027201	Burcha	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027202	D.P.F.-85	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027203	Joktaring	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027204	D.P.F.-86 A	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027205	Panwi Khas	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027206	D.P.F.-86 B	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027207	D.P.F.- C 126	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027208	D.P.F.- C 127	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027209	D.P.F.1-128 A	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027210	TandoNusko Dhar	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027211	Baltha Chang Dhar	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027212	AtangMelang Dhar	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027213	Yashang Dhar	NICHAR	Kinnaur	0.96	0.95	0.67	0.79	0.17	0.02	0.74
027214	D.P.F.C - 258 B Tiyudang	NICHAR	Kinnaur	0.89	0.88	0.69	0.79	0.42	0.04	0.81

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
027215	D.P.F.Kangarang C-87 A,88 B	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027216	Kangarang	NICHAR	Kinnaur	0.73	0.72	0.73	0.80	1.00	0.09	0.98
027217	D.P.F.Tilchang C-256,257-258A	NICHAR	Kinnaur	0.80	0.79	0.71	0.80	0.74	0.07	0.9
027218	Shakamrang	NICHAR	Kinnaur	0.79	0.78	0.71	0.80	0.79	0.07	0.92
027219	Raag Panung	NICHAR	Kinnaur	0.94	0.94	0.68	0.79	0.22	0.02	0.75
027220	Shakhar Dhar	NICHAR	Kinnaur	0.74	0.72	0.73	0.80	0.99	0.09	0.98
027221	Chatrang Dhar	NICHAR	Kinnaur	0.74	0.72	0.73	0.80	0.99	0.09	0.98
027222	Urabaning	NICHAR	Kinnaur	0.97	0.97	0.67	0.79	0.10	0.01	0.72
027223	Tapri	NICHAR	Kinnaur	0.99	0.99	0.67	0.79	0.05	0.01	0.7
027224	Dharmaling	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027225	Yashang	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027226	Rora Kanda	NICHAR	Kinnaur	0.74	0.72	0.73	0.81	0.90	0.11	0.95
027227	Shunathachang Dhar	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027228	D.P.F.-Rachmanang C-254-255	NICHAR	Kinnaur	0.89	0.88	0.70	0.80	0.44	0.04	0.83
027229	RallSanthang	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027230	Urni Khas	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027231	D.P.F.Baragdo C-253	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027232	Yulla Khas	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027233	Yuldang	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027234	Kutano	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027235	D.P.F.Bargde C-252	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027236	D.P.F.Tilchoka C-251	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027237	Meeru Khas	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027238	D.P.F.Balaey C-250	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027239	D.P.F.Kashtee C-249	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027240	Ghumaruning	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027241	Rukchawal Dhar	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.95	0.09	0.99
027242	RunangUperla	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027243	D.P.F.Runang C-248	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027244	RunangNichla	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027245	Cholling	NICHAR	Kinnaur	0.76	0.74	0.74	0.82	0.96	0.09	0.99
027246	D.P.F. Kangsthal 128 B,129	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027247	Kagsthal	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027248	Jani	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027249	Ramni Khas	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027250	Shuthanang	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027251	Boring Chot Dhar	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027252	Roshang Dhar	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027253	Morang Kanda	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027254	D.P.FRamni	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027255	D.P.F.Jani-131-132 A.B	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027256	Kalingo	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027257	Upat Dhar	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027258	Chhal Patri Dhar	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027259	Dulgi Dhar	NICHAR	Kinnaur	1.00	1.00	0.66	0.79	0.00	0.00	0.69
027260	Solah Dhar	NICHAR	Kinnaur	0.92	0.91	0.69	0.80	0.32	0.03	0.79
027261	Punang Kanda	NICHAR	Kinnaur	0.98	0.97	0.67	0.79	0.10	0.01	0.72
027262	D.P.F.Punang 133-136	NICHAR	Kinnaur	0.94	0.93	0.68	0.80	0.25	0.02	0.77
027263	Punang Khas	NICHAR	Kinnaur	0.96	0.95	0.68	0.79	0.18	0.02	0.74
026714	Sumra	POOH	Kinnaur	0.80	0.72	0.47	0.38	0.02	0.09	0.23
026715	Dhar Langtharkheyu	POOH	Kinnaur	0.80	0.72	0.47	0.38	0.02	0.09	0.23
026716	Dhar Harmi	POOH	Kinnaur	0.80	0.72	0.47	0.38	0.02	0.09	0.23
026717	Dhar Phu	POOH	Kinnaur	0.79	0.71	0.51	0.39	0.03	0.09	0.25
026718	Dhar Kukri	POOH	Kinnaur	0.60	0.53	0.65	0.39	0.24	0.14	0.26

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
026719	Dhar Liyosu	POOH	Kinnaur	0.66	0.62	0.74	0.46	0.17	0.10	0.35
026720	Dhar Demchu	POOH	Kinnaur	0.52	0.48	0.81	0.44	0.32	0.14	0.34
026721	Thang Karma	POOH	Kinnaur	0.05	0.05	0.98	0.40	0.63	0.16	0.13
026722	Dhar Yang Pochhe	POOH	Kinnaur	0.00	0.00	1.00	0.40	0.67	0.16	0.11
026723	Dhar Pijong	POOH	Kinnaur	0.33	0.31	0.87	0.43	0.42	0.12	0.23
026724	Dhar Kawe	POOH	Kinnaur	0.71	0.66	0.72	0.48	0.15	0.08	0.38
026725	Shalkar	POOH	Kinnaur	0.72	0.67	0.71	0.47	0.11	0.08	0.36
026726	Dhar Mandasa	POOH	Kinnaur	0.72	0.67	0.71	0.47	0.11	0.08	0.36
026727	Dhar Dugona	POOH	Kinnaur	0.72	0.67	0.71	0.47	0.11	0.08	0.36
026728	Dhar Yungdang	POOH	Kinnaur	0.72	0.68	0.71	0.47	0.11	0.08	0.36
026729	Changjam	POOH	Kinnaur	0.72	0.67	0.71	0.47	0.11	0.08	0.36
026730	Dhar ChangoUperla	POOH	Kinnaur	0.72	0.67	0.71	0.47	0.11	0.08	0.36
026731	Dhar ChangoNichla	POOH	Kinnaur	0.73	0.69	0.71	0.48	0.10	0.07	0.37
026732	Dhar Kumsa	POOH	Kinnaur	0.73	0.68	0.71	0.47	0.10	0.07	0.37
026733	Dhar Pargira	POOH	Kinnaur	0.74	0.69	0.71	0.48	0.13	0.07	0.39
026734	Dhar Khirpichi	POOH	Kinnaur	0.83	0.77	0.68	0.50	0.03	0.03	0.4
026735	Hemi	POOH	Kinnaur	0.86	0.80	0.67	0.50	0.00	0.02	0.41
026736	Liti	POOH	Kinnaur	0.86	0.80	0.67	0.50	0.00	0.02	0.41
026737	Yulang	POOH	Kinnaur	0.86	0.80	0.67	0.50	0.00	0.02	0.41
026738	Dhar Lauechhe	POOH	Kinnaur	0.85	0.79	0.67	0.50	0.01	0.02	0.41
026739	Dhar Choniti	POOH	Kinnaur	0.85	0.79	0.67	0.50	0.01	0.03	0.4
026740	Dhar Bhajang	POOH	Kinnaur	0.86	0.80	0.67	0.50	0.00	0.02	0.41
026741	Dhar Lipak	POOH	Kinnaur	0.96	0.89	0.64	0.54	0.00	0.01	0.5
026742	Dhar Jabar	POOH	Kinnaur	0.96	0.89	0.64	0.54	0.00	0.01	0.5
026743	Dhar Karsi	POOH	Kinnaur	0.86	0.80	0.67	0.50	0.00	0.02	0.41
026744	Dhar Chara Thang	POOH	Kinnaur	0.87	0.80	0.67	0.51	0.00	0.02	0.41
026745	Dhar Khakrash	POOH	Kinnaur	0.92	0.85	0.66	0.53	0.00	0.01	0.46
026746	MallingDogri	POOH	Kinnaur	0.86	0.80	0.67	0.50	0.00	0.02	0.41
026747	Malling	POOH	Kinnaur	0.86	0.80	0.67	0.50	0.00	0.02	0.41
026748	Dhar Shansar	POOH	Kinnaur	0.86	0.80	0.67	0.50	0.00	0.02	0.41
026749	Nako	POOH	Kinnaur	0.86	0.80	0.67	0.50	0.00	0.02	0.41
026750	Yangthang	POOH	Kinnaur	0.90	0.83	0.66	0.52	0.00	0.01	0.44
026751	Leo	POOH	Kinnaur	0.93	0.86	0.65	0.53	0.00	0.01	0.47
026752	Shuni	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026753	Dhar Thana	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026754	Dhar Dumdumthang	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026755	Dhar Pegdu	POOH	Kinnaur	0.93	0.86	0.64	0.55	0.04	0.04	0.5
026756	Dhar Biepuche	POOH	Kinnaur	0.96	0.89	0.64	0.55	0.01	0.01	0.5
026757	Dhar Potali	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026758	Dhar Chang Chimo	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026759	Chang Chimo	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026760	Hango	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026761	Dung	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026762	Hangmat	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026763	Dhar Pusang Dang	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026764	Chuling	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026765	Dhar Lasangthang	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026766	Dhar Lambrafa	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026767	Ka	POOH	Kinnaur	0.97	0.89	0.64	0.55	0.00	0.01	0.5
026768	Dhar Lahyok	POOH	Kinnaur	0.91	0.85	0.66	0.52	0.00	0.01	0.45
026769	Dhar Lalosa	POOH	Kinnaur	0.86	0.80	0.68	0.51	0.01	0.02	0.41
026770	Dhar Kila	POOH	Kinnaur	0.95	0.88	0.65	0.54	0.00	0.01	0.49
026771	Dhar Manela	POOH	Kinnaur	0.46	0.48	0.65	0.53	0.47	0.47	0.5
026772	Dhar LarsaNiyowal	POOH	Kinnaur	0.50	0.51	0.67	0.55	0.40	0.39	0.49

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
026773	Up MohalThoropa	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026774	Dhar Chang Guar Guar	POOH	Kinnaur	0.61	0.61	0.69	0.61	0.24	0.21	0.46
026775	Up MohalRopakhas	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026776	D.P.F.C-205	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026777	Up MohalSumtat	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026778	D.P.F.C-204	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026779	Up Mohal Shive	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026780	D.P.F.C-201	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026781	D.P.F.C-200	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026782	Up MohalCharti	POOH	Kinnaur	0.65	0.65	0.70	0.62	0.18	0.15	0.45
026783	D.P.F.C-202	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026784	D.P.F.C-203	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026785	Up MohalGiabong Khas	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026786	Up MohalGiabongParla	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026787	D.P.F.C-208	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026788	D.P.F.C-207	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026789	D.P.F.C-206	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026790	Up Mohal Jang Phachho	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.19	0.15	0.45
026791	Dhar Khabai	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026792	Up MohalBrati Kanda	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026793	D.P.F.C-209	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026794	Up MohalTaling	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026795	Up Mohal Rush Kulang	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026796	Up MohalSunam Khas	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026797	Up MohalChelit Kanda	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026798	Up MohalKhadMakha	POOH	Kinnaur	0.66	0.65	0.70	0.62	0.18	0.14	0.45
026799	Dhupak	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026800	D.P.F.C-210	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026801	Up MohalChelit	POOH	Kinnaur	0.64	0.64	0.70	0.62	0.18	0.15	0.45
026802	Dhar Binathang	POOH	Kinnaur	0.80	0.77	0.75	0.65	0.08	0.06	0.53
026803	Up MohalShurpu	POOH	Kinnaur	0.80	0.77	0.73	0.68	0.02	0.02	0.48
026804	Up MohalTapang Kanda	POOH	Kinnaur	0.80	0.78	0.73	0.68	0.01	0.01	0.48
026805	Dhar Mandal Gurunag	POOH	Kinnaur	0.79	0.77	0.73	0.68	0.02	0.02	0.48
026806	D.P.F.C-212	POOH	Kinnaur	0.80	0.78	0.73	0.68	0.01	0.01	0.48
026807	Up MohalLabrang Khas	POOH	Kinnaur	0.80	0.78	0.73	0.68	0.01	0.01	0.48
026808	Up MohalNamkalang	POOH	Kinnaur	0.80	0.78	0.73	0.68	0.01	0.01	0.48
026809	Up MohalFoche	POOH	Kinnaur	0.80	0.78	0.73	0.68	0.01	0.01	0.48
026810	D.P.F.C-214	POOH	Kinnaur	0.80	0.78	0.73	0.68	0.01	0.01	0.48
026811	Up MohalSpiloo Khas	POOH	Kinnaur	0.80	0.78	0.73	0.68	0.01	0.01	0.48
026812	D.P.F.C-213	POOH	Kinnaur	0.80	0.78	0.73	0.68	0.01	0.01	0.48
026813	Up Mohal Kanam Khas	POOH	Kinnaur	0.80	0.78	0.73	0.68	0.01	0.01	0.48
026814	D.P.F.C-211	POOH	Kinnaur	0.80	0.78	0.73	0.68	0.01	0.01	0.48
026815	Up Mohal Kanam Nichla	POOH	Kinnaur	0.83	0.80	0.75	0.68	0.01	0.01	0.51
026816	Up MohalGyamil	POOH	Kinnaur	0.96	0.89	0.83	0.66	0.01	0.00	0.64
026817	Dhar Gyabyum	POOH	Kinnaur	0.97	0.89	0.83	0.66	0.01	0.00	0.64
026818	Dhar Dumba	POOH	Kinnaur	0.97	0.89	0.83	0.66	0.01	0.00	0.64
026819	Up MohalShyaso	POOH	Kinnaur	0.66	0.65	0.70	0.62	0.18	0.14	0.45
026820	Dhar Chho	POOH	Kinnaur	0.78	0.74	0.75	0.64	0.11	0.09	0.53
026821	Dhar Aye	POOH	Kinnaur	0.95	0.88	0.81	0.64	0.01	0.01	0.61
026822	Up MohalRizing Kanda	POOH	Kinnaur	0.97	0.90	0.83	0.66	0.00	0.00	0.64
026823	Up MohalDanmochhe	POOH	Kinnaur	0.96	0.89	0.83	0.61	0.00	0.00	0.61
026824	Up MohalLabrang	POOH	Kinnaur	0.96	0.89	0.83	0.61	0.00	0.00	0.61
026825	Up Mohal Poo	POOH	Kinnaur	0.96	0.89	0.83	0.61	0.00	0.00	0.61
026826	Up Mohal Doling Kanda	POOH	Kinnaur	0.96	0.89	0.83	0.61	0.00	0.00	0.61

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
026827	Dhar Dolma	POOH	Kinnaur	0.90	0.83	0.78	0.59	0.03	0.02	0.55
026828	Up MohalChakulang	POOH	Kinnaur	0.69	0.65	0.78	0.59	0.13	0.09	0.44
026829	Up MohalKhabo	POOH	Kinnaur	0.71	0.66	0.78	0.59	0.13	0.09	0.45
026830	Up MohalNamgia Kanda	POOH	Kinnaur	0.74	0.69	0.78	0.56	0.09	0.06	0.44
026831	Up MohalNamgia Khas	POOH	Kinnaur	0.75	0.70	0.78	0.56	0.09	0.05	0.44
026832	Up MohalTashi Gang	POOH	Kinnaur	0.75	0.70	0.79	0.56	0.09	0.05	0.44
026833	Dhar Potal	POOH	Kinnaur	0.77	0.72	0.77	0.55	0.08	0.05	0.44
026834	Dhar Chhopan	POOH	Kinnaur	0.74	0.69	0.78	0.56	0.09	0.06	0.44
026835	Dhar Yangusa	POOH	Kinnaur	0.70	0.66	0.78	0.58	0.17	0.09	0.46
026836	Up MohalThunsa Kanda	POOH	Kinnaur	0.69	0.65	0.78	0.59	0.13	0.09	0.44
026837	Dhar Dulse Thang	POOH	Kinnaur	0.69	0.65	0.78	0.59	0.15	0.09	0.45
026838	Up MohalDulse Thang	POOH	Kinnaur	0.69	0.65	0.78	0.59	0.13	0.09	0.44
026839	Dhar Thunsa	POOH	Kinnaur	0.69	0.65	0.78	0.59	0.14	0.09	0.45
026840	Up MohalYangti Kanda	POOH	Kinnaur	0.69	0.65	0.78	0.59	0.13	0.09	0.44
026841	Up MohalDubling	POOH	Kinnaur	0.89	0.82	0.81	0.60	0.04	0.02	0.56
026842	Mohal Bali Dhar	POOH	Kinnaur	0.93	0.86	0.82	0.61	0.02	0.01	0.59
026843	D.P.F.C-199	POOH	Kinnaur	0.96	0.89	0.83	0.61	0.00	0.00	0.61
026844	Up MohalDabling	POOH	Kinnaur	0.96	0.89	0.83	0.61	0.00	0.00	0.61
026845	D.P.F.C-198	POOH	Kinnaur	0.63	0.60	0.76	0.64	0.20	0.13	0.46
026846	Up Mohal Rishi Kanda	POOH	Kinnaur	0.64	0.60	0.76	0.64	0.20	0.13	0.46
026847	Dhar Maryul	POOH	Kinnaur	0.69	0.65	0.78	0.64	0.17	0.11	0.49
026848	Dhar yang Dogsa	POOH	Kinnaur	0.66	0.62	0.77	0.64	0.18	0.12	0.48
026849	Dhar Yurfuk	POOH	Kinnaur	0.63	0.60	0.76	0.64	0.20	0.13	0.46
026850	Dhar Rishi	POOH	Kinnaur	0.64	0.60	0.77	0.64	0.21	0.12	0.47
026851	HorangPawa	POOH	Kinnaur	0.79	0.73	0.79	0.71	0.09	0.04	0.55
026852	Dhar Piwung	POOH	Kinnaur	0.74	0.70	0.78	0.71	0.11	0.06	0.52
026853	Nesang Khas	POOH	Kinnaur	0.70	0.66	0.78	0.73	0.12	0.07	0.5
026854	Shaktang	POOH	Kinnaur	0.70	0.66	0.78	0.73	0.12	0.07	0.5
026855	Dhar Doge	POOH	Kinnaur	0.70	0.66	0.78	0.73	0.12	0.07	0.5
026856	Gyamting	POOH	Kinnaur	0.70	0.66	0.78	0.73	0.12	0.07	0.5
026857	Dhar Warchha	POOH	Kinnaur	0.68	0.64	0.77	0.72	0.15	0.08	0.5
026858	Piana	POOH	Kinnaur	0.70	0.66	0.78	0.73	0.12	0.07	0.5
026859	Khadi	POOH	Kinnaur	0.70	0.66	0.78	0.73	0.12	0.07	0.5
026860	Dhar Tipung	POOH	Kinnaur	0.70	0.66	0.78	0.73	0.12	0.07	0.5
026861	Dhar Rothen	POOH	Kinnaur	0.66	0.62	0.77	0.73	0.18	0.10	0.5
026862	Dhar Lungpha	POOH	Kinnaur	0.57	0.54	0.75	0.73	0.28	0.16	0.5
026863	Dhar Joganchan	POOH	Kinnaur	0.58	0.55	0.75	0.73	0.28	0.16	0.49
026864	Jagechan	POOH	Kinnaur	0.57	0.54	0.75	0.74	0.29	0.16	0.5
026865	Dhar Chamangti	POOH	Kinnaur	0.60	0.57	0.75	0.73	0.32	0.15	0.53
026866	Dhar Lung Kurkur	POOH	Kinnaur	0.57	0.54	0.75	0.74	0.30	0.16	0.5
026867	Dhar Lawar	POOH	Kinnaur	0.57	0.54	0.75	0.74	0.29	0.16	0.5
026868	Dhar Tepang	POOH	Kinnaur	0.47	0.48	0.67	0.60	0.46	0.45	0.53
026869	ShutiGarang	POOH	Kinnaur	0.47	0.48	0.66	0.59	0.46	0.45	0.53
026870	Dhar Gunjang	POOH	Kinnaur	0.48	0.49	0.63	0.60	0.45	0.45	0.52
026871	Dhar Wari	POOH	Kinnaur	0.58	0.58	0.68	0.66	0.29	0.26	0.5
026872	Becho Thach	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026873	Dhar Bhang Mochhe	POOH	Kinnaur	0.56	0.57	0.68	0.65	0.31	0.29	0.5
026874	Dhar Shyangla	POOH	Kinnaur	0.60	0.60	0.69	0.67	0.26	0.23	0.49
026875	Fulang Thach	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026876	Dhar Kagte	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026877	Dhar Kyari	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026878	Porang Kanda	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026879	Tokto	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026880	Dhar Mateng	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
026881	Dhar Begulum	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026882	Dangrang Kanda	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026883	Dhar Changmang	POOH	Kinnaur	0.61	0.61	0.69	0.67	0.25	0.21	0.49
026884	Changmang	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026885	D.P.F. C-216	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026886	Chakra	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026887	Lippa Khas	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026888	D.P.F.C-220	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026889	D.P.F.C-217	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026890	Lapo	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026891	D.P.F- C 218	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026892	Asrang Khas	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026893	D.P.F. C-219	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026894	D.P.F .C-219	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026895	Dhar Urang	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026896	Gyangra	POOH	Kinnaur	0.74	0.72	0.72	0.70	0.08	0.09	0.5
026897	Saring	POOH	Kinnaur	0.63	0.63	0.69	0.70	0.22	0.22	0.52
026898	D.P.F C -232	POOH	Kinnaur	0.56	0.57	0.67	0.71	0.32	0.31	0.54
026899	D.P.F.C-231	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026900	Sheelapur	POOH	Kinnaur	0.72	0.71	0.71	0.71	0.11	0.12	0.51
026901	D.P.F.C-230	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026902	Swaden	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026903	Dhar Gongra	POOH	Kinnaur	0.76	0.74	0.72	0.71	0.06	0.07	0.5
026904	Dhar Khatij	POOH	Kinnaur	0.68	0.67	0.70	0.69	0.16	0.15	0.5
026905	Chhappan	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026906	D.P.F.C -221	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026907	D.P.F.C-222	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026908	Rijing	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026909	D.P.F.C-223	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026910	D.P.F.C-225	POOH	Kinnaur	0.59	0.60	0.69	0.67	0.26	0.23	0.5
026911	D.P.F.C-215	POOH	Kinnaur	0.62	0.62	0.69	0.67	0.23	0.21	0.49
026912	Kutang	POOH	Kinnaur	0.70	0.69	0.71	0.69	0.14	0.13	0.49
026913	Dhar ShilingKhona	POOH	Kinnaur	0.78	0.76	0.74	0.70	0.03	0.02	0.49
026914	NakalKuwa	POOH	Kinnaur	0.80	0.78	0.73	0.68	0.01	0.01	0.48
026915	Samodpan Kanda	POOH	Kinnaur	0.71	0.67	0.78	0.72	0.12	0.06	0.5
026916	Dhar Timchhe	POOH	Kinnaur	0.70	0.69	0.72	0.75	0.13	0.12	0.53
026917	Thuwaring	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026918	Gramang	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026919	Jangi Khas	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026920	D.P.F.C-224	POOH	Kinnaur	0.73	0.72	0.72	0.70	0.09	0.09	0.5
026921	D.P.F.C-226	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026922	D.P.F.C-227	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026923	Dhar Jubling	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026924	Ringchil Kanda	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026925	Satera	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026926	D.P.F.C-228	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026927	Khadura	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026928	D.P.F.C-229	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026929	Rarang Khas	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026930	Paranga	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026931	D.P.F.C- 187	POOH	Kinnaur	0.78	0.76	0.73	0.71	0.03	0.04	0.5
026932	D.P.F.C-186	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026933	Sirmoling	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026934	Chhuyian	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5

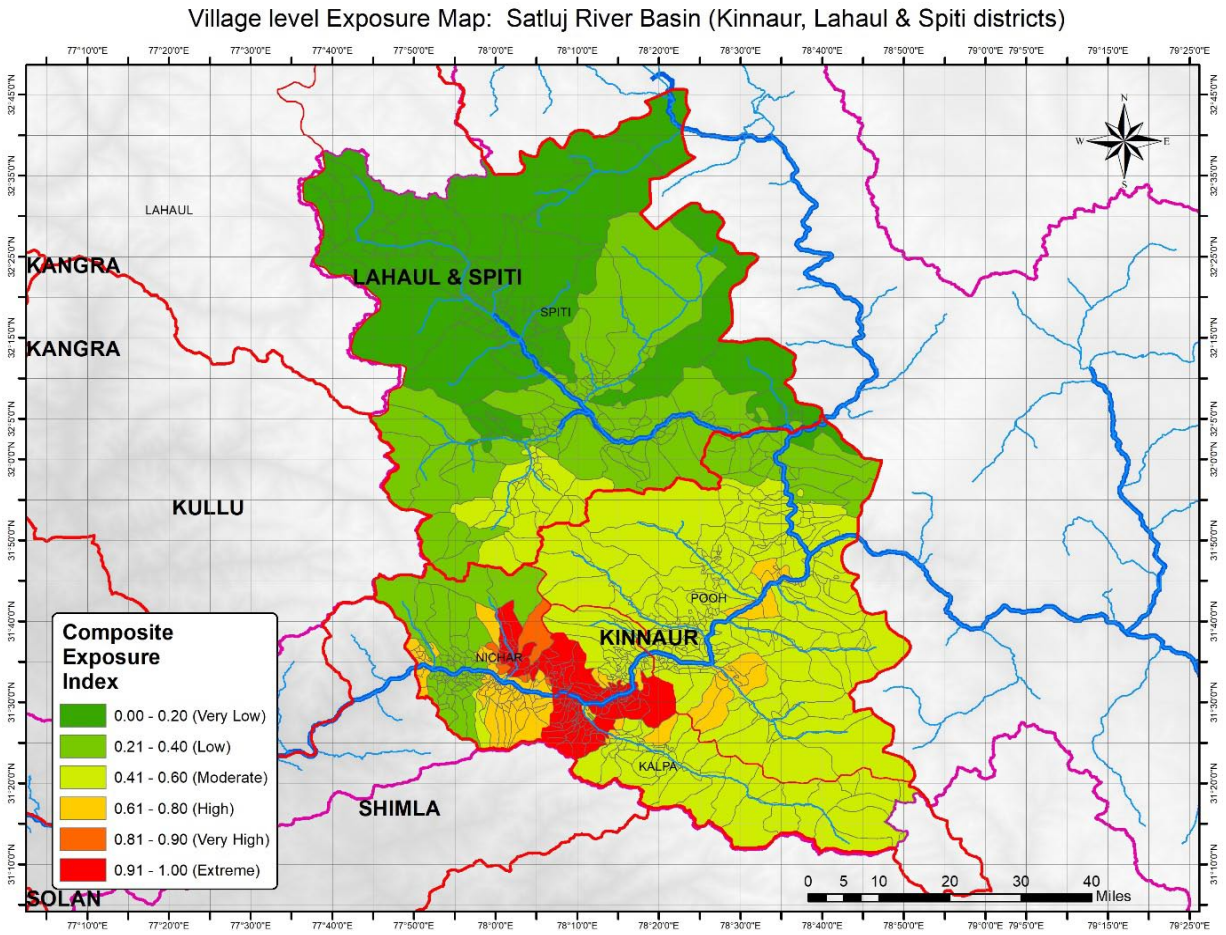
Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
026935	Dhar Jeshtharang	POOH	Kinnaur	0.79	0.77	0.73	0.73	0.02	0.03	0.5
026936	Dhar Puranga	POOH	Kinnaur	0.79	0.77	0.73	0.74	0.01	0.03	0.51
026937	Bato	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026938	D.P.F.C-188	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026939	Kutian	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026940	Ribba Khas	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026941	Holdang	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026942	Skiba	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026943	Akpa Khas	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026944	Up MuhalHoldo	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026945	Rispa Khas	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026946	Lijing	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026947	Khokpa	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026948	D.P.F.C-197	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026949	Shiling Khas	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026950	Shurboo Kanda	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026951	Roowang	POOH	Kinnaur	0.58	0.58	0.68	0.81	0.30	0.29	0.59
026952	D.P.F.C-196	POOH	Kinnaur	0.53	0.54	0.68	0.82	0.37	0.35	0.61
026953	Swaling	POOH	Kinnaur	0.52	0.53	0.67	0.83	0.38	0.37	0.62
026955	Dhar Khayo	POOH	Kinnaur	0.70	0.66	0.77	0.73	0.13	0.07	0.5
026956	Dhar Yamdaling	POOH	Kinnaur	0.79	0.76	0.60	0.83	0.04	0.02	0.5
026957	Dhar Lochhas	POOH	Kinnaur	0.72	0.71	0.61	0.85	0.17	0.16	0.57
026958	Dhar Wishrang	POOH	Kinnaur	0.52	0.53	0.67	0.83	0.38	0.36	0.61
026959	Lambar	POOH	Kinnaur	0.59	0.59	0.65	0.84	0.31	0.30	0.6
026960	D.P.F.C-195	POOH	Kinnaur	0.52	0.53	0.67	0.83	0.38	0.37	0.62
026961	Thangi Khas	POOH	Kinnaur	0.52	0.53	0.67	0.83	0.38	0.37	0.62
026962	Pibbar	POOH	Kinnaur	0.52	0.53	0.67	0.83	0.38	0.37	0.62
026963	D.P.F.C-194	POOH	Kinnaur	0.52	0.53	0.67	0.83	0.38	0.37	0.62
026964	D.P.F.C-193	POOH	Kinnaur	0.53	0.54	0.67	0.83	0.37	0.36	0.61
026965	D.P.F.C-191-192	POOH	Kinnaur	0.78	0.76	0.73	0.72	0.02	0.04	0.5
026966	Asno Kanda	POOH	Kinnaur	0.65	0.65	0.70	0.77	0.20	0.20	0.56
026967	Up MuhalCherang Kanda	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026968	Panah Kanda	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026969	D.P.F. C -189 -190	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026970	Chang Kuwa	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026971	Kurpo	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.02	0.03	0.5
026972	Dhar Panah	POOH	Kinnaur	0.79	0.77	0.73	0.72	0.05	0.04	0.52
026973	Dhar Kushkar	POOH	Kinnaur	0.65	0.65	0.70	0.78	0.23	0.20	0.57
026974	Dhar Gara	POOH	Kinnaur	0.52	0.53	0.67	0.83	0.38	0.36	0.62
026975	Dhar Sunkham	POOH	Kinnaur	0.52	0.54	0.67	0.83	0.37	0.36	0.61
026976	Dhar Parmati	POOH	Kinnaur	0.58	0.59	0.65	0.84	0.31	0.30	0.6
026977	Dhar Lalanti	POOH	Kinnaur	0.72	0.71	0.61	0.85	0.17	0.16	0.57
026978	Kyarbo	POOH	Kinnaur	0.87	0.84	0.56	0.86	0.00	0.00	0.54
026979	Surting Ting	POOH	Kinnaur	0.87	0.84	0.56	0.86	0.00	0.00	0.54
026980	Dhar Shangchawal	POOH	Kinnaur	0.85	0.83	0.55	0.87	0.01	0.00	0.52
026981	Kuno Khas	POOH	Kinnaur	0.82	0.80	0.54	0.87	0.01	0.00	0.49
026982	Kota	POOH	Kinnaur	0.82	0.80	0.54	0.87	0.01	0.00	0.49
026983	Dhar Shilachh	POOH	Kinnaur	0.82	0.80	0.54	0.87	0.01	0.00	0.49
026984	Dhar Dulmnish	POOH	Kinnaur	0.80	0.78	0.56	0.87	0.08	0.01	0.52
026985	Dhar Brati	POOH	Kinnaur	0.81	0.78	0.55	0.91	0.05	0.00	0.52
026986	Charang Khas	POOH	Kinnaur	0.82	0.80	0.55	0.93	0.01	0.00	0.52
026987	Gigu Lang	POOH	Kinnaur	0.82	0.80	0.55	0.93	0.01	0.00	0.52
026988	Wevgya	POOH	Kinnaur	0.85	0.83	0.55	0.88	0.01	0.00	0.53
026989	Dhar Chang kuche	POOH	Kinnaur	0.85	0.83	0.55	0.89	0.01	0.00	0.53

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
026990	Dhar Mangla	POOH	Kinnaur	0.82	0.80	0.55	0.93	0.01	0.00	0.52
026991	Dhar Gunrang	POOH	Kinnaur	0.84	0.82	0.54	0.92	0.04	0.00	0.55
012445	Dhar Dagduk	SPITI	Lahaul&Spiti	0.05	0.03	0.62	0.04	0.67	0.76	0.08
012446	Dhar MalungSamdo	SPITI	Lahaul&Spiti	0.05	0.03	0.62	0.04	0.67	0.76	0.08
012449	Dhar Rilosar	SPITI	Lahaul&Spiti	0.31	0.28	0.50	0.10	0.56	0.62	0.18
012450	Dhar DojamGyapma	SPITI	Lahaul&Spiti	0.31	0.28	0.50	0.10	0.56	0.62	0.18
012451	Dhar Dojam	SPITI	Lahaul&Spiti	0.31	0.28	0.50	0.10	0.56	0.62	0.18
012452	Dhar Nijom	SPITI	Lahaul&Spiti	0.31	0.28	0.50	0.10	0.56	0.62	0.18
012453	Dhar Kabjima	SPITI	Lahaul&Spiti	0.31	0.28	0.49	0.10	0.56	0.61	0.17
012454	Dhar Tangne	SPITI	Lahaul&Spiti	0.52	0.47	0.21	0.09	0.37	0.50	0.09
012455	Dhar Sumdo	SPITI	Lahaul&Spiti	0.53	0.48	0.20	0.09	0.36	0.50	0.08
012456	Dhar VitungNakpo	SPITI	Lahaul&Spiti	0.53	0.48	0.20	0.09	0.36	0.50	0.08
012457	Dhar Lungmochhe	SPITI	Lahaul&Spiti	0.53	0.48	0.20	0.09	0.36	0.50	0.08
012458	Dhar Tanve	SPITI	Lahaul&Spiti	0.35	0.31	0.45	0.10	0.53	0.59	0.16
012460	Dhar Pallamo	SPITI	Lahaul&Spiti	0.53	0.48	0.20	0.09	0.36	0.50	0.08
012461	Dhar Thachakarpo	SPITI	Lahaul&Spiti	0.53	0.48	0.20	0.09	0.36	0.50	0.08
012462	Dhar Siti Khud	SPITI	Lahaul&Spiti	0.53	0.48	0.20	0.09	0.36	0.49	0.08
012463	Dhar Nimaloksa	SPITI	Lahaul&Spiti	0.55	0.49	0.19	0.11	0.34	0.48	0.08
012464	Dhar Fagdansa	SPITI	Lahaul&Spiti	0.38	0.34	0.41	0.11	0.49	0.57	0.15
012465	Dhar Dindi	SPITI	Lahaul&Spiti	0.55	0.50	0.19	0.11	0.33	0.47	0.08
012466	Losar Khas	SPITI	Lahaul&Spiti	0.55	0.50	0.19	0.11	0.33	0.47	0.08
012467	Chichong	SPITI	Lahaul&Spiti	0.55	0.50	0.19	0.11	0.33	0.47	0.08
012468	Dhar Pang Kyamo	SPITI	Lahaul&Spiti	0.54	0.49	0.19	0.12	0.34	0.49	0.09
012469	Kyamo	SPITI	Lahaul&Spiti	0.55	0.50	0.19	0.11	0.33	0.47	0.08
012470	Dhar Latothanmo	SPITI	Lahaul&Spiti	0.51	0.46	0.26	0.12	0.37	0.49	0.1
012471	Hansa	SPITI	Lahaul&Spiti	0.56	0.51	0.19	0.12	0.32	0.46	0.08
012472	Dhar Soksa	SPITI	Lahaul&Spiti	0.58	0.52	0.19	0.14	0.28	0.42	0.07
012473	Kaito	SPITI	Lahaul&Spiti	0.60	0.54	0.18	0.15	0.27	0.40	0.07
012474	Dhar TambaKurkur	SPITI	Lahaul&Spiti	0.58	0.52	0.18	0.13	0.30	0.43	0.08
012475	Dhar Paldar	SPITI	Lahaul&Spiti	0.60	0.54	0.18	0.15	0.27	0.40	0.07
012476	Dhar Pangmo	SPITI	Lahaul&Spiti	0.59	0.54	0.18	0.15	0.28	0.42	0.08
012477	Dhar Ghiundi	SPITI	Lahaul&Spiti	0.47	0.42	0.22	0.17	0.45	0.66	0.19
012478	Hull	SPITI	Lahaul&Spiti	0.74	0.67	0.13	0.19	0.14	0.22	0.05
012479	Pangmo Khas	SPITI	Lahaul&Spiti	0.60	0.54	0.18	0.15	0.27	0.40	0.07
012480	Jugmothang	SPITI	Lahaul&Spiti	0.60	0.54	0.18	0.15	0.27	0.40	0.07
012481	Chigjar	SPITI	Lahaul&Spiti	0.60	0.54	0.19	0.15	0.27	0.40	0.07
012482	Dhar Laterse	SPITI	Lahaul&Spiti	0.60	0.54	0.25	0.15	0.27	0.37	0.09
012483	Dhar Panya	SPITI	Lahaul&Spiti	0.52	0.46	0.52	0.16	0.33	0.33	0.16
012484	Dhar Farah	SPITI	Lahaul&Spiti	0.60	0.54	0.53	0.19	0.26	0.23	0.17
012485	Chicham Khas	SPITI	Lahaul&Spiti	0.60	0.54	0.53	0.19	0.26	0.23	0.17
012486	Ladarcha	SPITI	Lahaul&Spiti	0.60	0.54	0.48	0.18	0.26	0.26	0.16
012487	Dumley	SPITI	Lahaul&Spiti	0.60	0.54	0.53	0.19	0.26	0.23	0.17
012488	Dhar Chicham	SPITI	Lahaul&Spiti	0.61	0.54	0.49	0.19	0.26	0.24	0.16
012489	Dhar Hal	SPITI	Lahaul&Spiti	0.82	0.74	0.13	0.21	0.05	0.08	0.02
012490	Dhar Yakya	SPITI	Lahaul&Spiti	0.77	0.69	0.26	0.21	0.10	0.10	0.06
012491	Kibber Khas	SPITI	Lahaul&Spiti	0.60	0.54	0.53	0.19	0.26	0.23	0.17
012492	Pinjoor	SPITI	Lahaul&Spiti	0.60	0.54	0.53	0.19	0.26	0.23	0.17
012493	Kee	SPITI	Lahaul&Spiti	0.86	0.77	0.11	0.22	0.02	0.03	0.01
012494	Gettey	SPITI	Lahaul&Spiti	0.84	0.76	0.14	0.22	0.03	0.04	0.02
012495	Tashi Gang	SPITI	Lahaul&Spiti	0.55	0.49	0.55	0.21	0.32	0.28	0.2
012496	Thinam	SPITI	Lahaul&Spiti	0.55	0.49	0.55	0.21	0.32	0.28	0.2
012497	Dhar Lama Chung Chung	SPITI	Lahaul&Spiti	0.87	0.78	0.09	0.22	0.00	0.02	0
012498	Langja	SPITI	Lahaul&Spiti	0.55	0.49	0.55	0.21	0.32	0.28	0.2
012499	Dhar ChhonChhonKanghilda	SPITI	Lahaul&Spiti	0.54	0.48	0.55	0.21	0.33	0.30	0.2

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
012500	Hikam	SPITI	Lahaul&Spiti	0.55	0.49	0.55	0.21	0.32	0.28	0.2
012501	Komik	SPITI	Lahaul&Spiti	0.66	0.59	0.51	0.29	0.20	0.18	0.2
012502	Kaza Khas	SPITI	Lahaul&Spiti	0.84	0.75	0.46	0.26	0.01	0.02	0.17
012503	Kaza Soma	SPITI	Lahaul&Spiti	0.84	0.75	0.45	0.26	0.02	0.03	0.17
012504	Kagti	SPITI	Lahaul&Spiti	0.85	0.75	0.45	0.26	0.01	0.02	0.17
012505	Lara Khas	SPITI	Lahaul&Spiti	0.90	0.80	0.44	0.30	0.01	0.00	0.22
012506	Shego	SPITI	Lahaul&Spiti	0.90	0.80	0.44	0.30	0.01	0.00	0.22
012507	Lidang	SPITI	Lahaul&Spiti	0.90	0.80	0.44	0.30	0.01	0.00	0.22
012508	Dhar Lung Wooh	SPITI	Lahaul&Spiti	0.80	0.71	0.47	0.27	0.07	0.06	0.18
012509	Keuling	SPITI	Lahaul&Spiti	0.86	0.77	0.45	0.28	0.02	0.02	0.19
012510	Dhar Keuling	SPITI	Lahaul&Spiti	0.70	0.62	0.41	0.27	0.17	0.21	0.19
012511	Kuang Khas	SPITI	Lahaul&Spiti	0.84	0.75	0.46	0.26	0.01	0.02	0.17
012512	Neked	SPITI	Lahaul&Spiti	0.77	0.69	0.40	0.27	0.09	0.13	0.17
012513	MarangoRangarik	SPITI	Lahaul&Spiti	0.69	0.62	0.16	0.25	0.20	0.29	0.1
012514	YarangoRangarik	SPITI	Lahaul&Spiti	0.87	0.78	0.09	0.22	0.00	0.02	0
012515	Khurik	SPITI	Lahaul&Spiti	0.87	0.78	0.09	0.22	0.00	0.02	0
012516	Sumling	SPITI	Lahaul&Spiti	0.85	0.76	0.13	0.22	0.02	0.03	0.01
012517	Morang	SPITI	Lahaul&Spiti	0.87	0.78	0.09	0.22	0.00	0.02	0
012518	Dhar Tumserisha Doksa	SPITI	Lahaul&Spiti	0.86	0.77	0.10	0.22	0.02	0.04	0.01
012519	Dhar Sumling	SPITI	Lahaul&Spiti	0.85	0.77	0.10	0.22	0.02	0.04	0.01
012520	Dhar Lamanduba	SPITI	Lahaul&Spiti	0.83	0.75	0.11	0.23	0.04	0.08	0.02
012521	Dhar Ratang	SPITI	Lahaul&Spiti	0.54	0.49	0.25	0.28	0.35	0.48	0.19
012522	Dhar Dangdagma	SPITI	Lahaul&Spiti	0.86	0.77	0.45	0.31	0.04	0.03	0.22
012523	Dhar Pindo	SPITI	Lahaul&Spiti	0.82	0.73	0.46	0.41	0.02	0.06	0.24
012524	Dhar Ula	SPITI	Lahaul&Spiti	0.68	0.61	0.48	0.31	0.17	0.18	0.21
012525	Dhar Jong	SPITI	Lahaul&Spiti	0.82	0.73	0.46	0.41	0.01	0.05	0.23
012526	Chhidang	SPITI	Lahaul&Spiti	0.82	0.73	0.46	0.41	0.01	0.05	0.23
012527	Shilling	SPITI	Lahaul&Spiti	0.82	0.73	0.46	0.41	0.01	0.05	0.23
012528	Guling	SPITI	Lahaul&Spiti	0.82	0.73	0.46	0.41	0.01	0.05	0.23
012529	Barpa	SPITI	Lahaul&Spiti	0.82	0.73	0.46	0.41	0.01	0.05	0.23
012530	Dhar Chaling	SPITI	Lahaul&Spiti	0.82	0.73	0.46	0.41	0.01	0.05	0.23
012531	Dhar Chhau	SPITI	Lahaul&Spiti	0.82	0.73	0.46	0.41	0.01	0.05	0.23
012532	Kong Kong	SPITI	Lahaul&Spiti	0.82	0.73	0.46	0.41	0.01	0.05	0.23
012533	UperlaGuling	SPITI	Lahaul&Spiti	0.82	0.73	0.46	0.41	0.01	0.05	0.23
012534	Kungri	SPITI	Lahaul&Spiti	0.80	0.72	0.48	0.41	0.03	0.07	0.24
012535	Mikam	SPITI	Lahaul&Spiti	0.74	0.67	0.40	0.42	0.11	0.13	0.23
012536	Phukchung	SPITI	Lahaul&Spiti	0.67	0.61	0.15	0.42	0.19	0.24	0.14
012537	Ka	SPITI	Lahaul&Spiti	0.67	0.61	0.15	0.42	0.19	0.24	0.14
012538	Minsar	SPITI	Lahaul&Spiti	0.67	0.61	0.15	0.42	0.19	0.24	0.14
012539	Polole	SPITI	Lahaul&Spiti	0.67	0.61	0.15	0.42	0.19	0.24	0.14
012540	Dhar Kidul	SPITI	Lahaul&Spiti	0.69	0.62	0.19	0.42	0.17	0.22	0.15
012541	Dhar Gechang	SPITI	Lahaul&Spiti	0.67	0.61	0.15	0.42	0.19	0.24	0.14
012542	Rajgaon	SPITI	Lahaul&Spiti	0.67	0.61	0.15	0.42	0.19	0.24	0.14
012543	Sagnam	SPITI	Lahaul&Spiti	0.53	0.52	0.59	0.43	0.38	0.28	0.35
012544	Takshan	SPITI	Lahaul&Spiti	0.47	0.49	0.78	0.44	0.46	0.30	0.44
012545	Shaktan	SPITI	Lahaul&Spiti	0.67	0.61	0.15	0.42	0.19	0.24	0.14
012546	Thango	SPITI	Lahaul&Spiti	0.66	0.60	0.15	0.42	0.20	0.27	0.15
012547	Dhar Tisang	SPITI	Lahaul&Spiti	0.58	0.55	0.45	0.43	0.31	0.27	0.28
012548	Dhar Rajgaon	SPITI	Lahaul&Spiti	0.67	0.60	0.15	0.42	0.20	0.26	0.15
012549	Dhar Changlung	SPITI	Lahaul&Spiti	0.49	0.47	0.05	0.44	0.43	0.76	0.31
012550	Dhar Togseluganwa	SPITI	Lahaul&Spiti	0.48	0.46	0.05	0.45	0.44	0.79	0.32
012551	Dhar Thango	SPITI	Lahaul&Spiti	0.50	0.46	0.21	0.37	0.40	0.58	0.25
012552	Dhar Khamengar	SPITI	Lahaul&Spiti	0.44	0.40	0.22	0.37	0.48	0.72	0.3
012553	Dhar Devsa	SPITI	Lahaul&Spiti	0.40	0.39	0.07	0.44	0.56	0.99	0.4

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
012554	Dhar Noor	SPITI	Lahaul&Spiti	0.41	0.40	0.04	0.46	0.54	1.00	0.4
012555	Dhar Kilung	SPITI	Lahaul&Spiti	0.45	0.44	0.19	0.45	0.48	0.78	0.37
012556	Dhar Lakhang	SPITI	Lahaul&Spiti	0.40	0.41	0.39	0.48	0.54	0.69	0.43
012557	Dhar Thagpat	SPITI	Lahaul&Spiti	0.48	0.47	0.00	0.51	0.44	0.79	0.33
012558	Dhar Sonpat	SPITI	Lahaul&Spiti	0.48	0.47	0.00	0.51	0.44	0.79	0.33
012559	Dhar ChhoChho Dain	SPITI	Lahaul&Spiti	0.45	0.44	0.21	0.51	0.48	0.71	0.38
012560	Dhar Chhorak	SPITI	Lahaul&Spiti	0.48	0.47	0.00	0.52	0.44	0.79	0.33
012561	Dhar Tegvaldar	SPITI	Lahaul&Spiti	0.42	0.43	0.38	0.51	0.51	0.64	0.42
012562	Dhar Mahavaldar	SPITI	Lahaul&Spiti	0.35	0.38	0.83	0.50	0.60	0.47	0.53
012563	Dhar Jikvaldar	SPITI	Lahaul&Spiti	0.34	0.37	0.82	0.49	0.61	0.47	0.53
012564	Dhar Larang	SPITI	Lahaul&Spiti	0.37	0.39	0.71	0.50	0.58	0.52	0.5
012565	Dhar Tarpak	SPITI	Lahaul&Spiti	0.37	0.39	0.82	0.49	0.58	0.44	0.52
012566	Shan	SPITI	Lahaul&Spiti	0.34	0.37	0.83	0.49	0.61	0.47	0.53
012567	Dhar Sarval	SPITI	Lahaul&Spiti	0.35	0.38	0.81	0.48	0.59	0.46	0.51
012568	Mud	SPITI	Lahaul&Spiti	0.47	0.48	0.78	0.44	0.46	0.30	0.44
012569	Pharka	SPITI	Lahaul&Spiti	0.46	0.47	0.78	0.45	0.47	0.32	0.45
012570	Kilmoor	SPITI	Lahaul&Spiti	0.47	0.49	0.78	0.44	0.46	0.30	0.44
012571	Dhar Pilsur	SPITI	Lahaul&Spiti	0.47	0.49	0.78	0.44	0.46	0.30	0.44
012572	Teling	SPITI	Lahaul&Spiti	0.47	0.49	0.78	0.44	0.46	0.30	0.44
012573	Pilsur	SPITI	Lahaul&Spiti	0.45	0.47	0.78	0.45	0.48	0.33	0.45
012574	Chamling	SPITI	Lahaul&Spiti	0.32	0.35	0.79	0.48	0.62	0.50	0.51
012575	Haronaro	SPITI	Lahaul&Spiti	0.32	0.35	0.79	0.48	0.62	0.50	0.51
012576	Dhar Mallam	SPITI	Lahaul&Spiti	0.33	0.36	0.79	0.48	0.62	0.49	0.51
012577	Dhar Jamaro	SPITI	Lahaul&Spiti	0.32	0.36	0.79	0.48	0.62	0.50	0.51
012578	Dhar Sechin	SPITI	Lahaul&Spiti	0.32	0.35	0.79	0.48	0.62	0.50	0.51
012579	Dhar Turwand	SPITI	Lahaul&Spiti	0.33	0.36	0.79	0.48	0.62	0.50	0.51
012580	Dhar Sinsa	SPITI	Lahaul&Spiti	0.49	0.47	0.67	0.46	0.43	0.36	0.42
012581	Dharyansa	SPITI	Lahaul&Spiti	0.32	0.35	0.79	0.48	0.62	0.50	0.51
012582	Phika	SPITI	Lahaul&Spiti	0.41	0.43	0.78	0.46	0.53	0.38	0.47
012583	Dhar Charasa	SPITI	Lahaul&Spiti	0.46	0.46	0.71	0.46	0.47	0.37	0.44
012584	Todnam	SPITI	Lahaul&Spiti	0.47	0.49	0.78	0.44	0.46	0.30	0.44
012585	Khar	SPITI	Lahaul&Spiti	0.47	0.49	0.77	0.44	0.45	0.30	0.44
012586	Dhar Magling	SPITI	Lahaul&Spiti	0.50	0.51	0.75	0.44	0.42	0.28	0.42
012587	Dhar Lalung	SPITI	Lahaul&Spiti	0.81	0.73	0.47	0.41	0.02	0.06	0.23
012588	Dul	SPITI	Lahaul&Spiti	0.82	0.73	0.47	0.41	0.02	0.06	0.23
012589	TangtiKogma	SPITI	Lahaul&Spiti	0.82	0.73	0.46	0.41	0.01	0.05	0.23
012590	TangtiYogma	SPITI	Lahaul&Spiti	0.82	0.73	0.46	0.41	0.01	0.05	0.23
012591	Dhar Phua	SPITI	Lahaul&Spiti	0.81	0.72	0.47	0.41	0.02	0.06	0.24
012592	Dhar Lungje	SPITI	Lahaul&Spiti	0.71	0.64	0.50	0.43	0.16	0.16	0.29
012593	Dhankhar	SPITI	Lahaul&Spiti	0.73	0.65	0.49	0.43	0.14	0.14	0.28
012594	Shushna	SPITI	Lahaul&Spiti	0.73	0.65	0.49	0.43	0.14	0.14	0.28
012595	Siluk	SPITI	Lahaul&Spiti	0.73	0.65	0.49	0.43	0.14	0.14	0.28
012596	Shichling	SPITI	Lahaul&Spiti	0.72	0.64	0.49	0.41	0.15	0.15	0.27
012597	Newpur	SPITI	Lahaul&Spiti	0.68	0.61	0.51	0.36	0.19	0.18	0.25
012598	Samling	SPITI	Lahaul&Spiti	0.73	0.65	0.49	0.41	0.14	0.14	0.27
012599	Dhar Nipti	SPITI	Lahaul&Spiti	0.71	0.63	0.50	0.39	0.16	0.16	0.26
012600	Rama Khas	SPITI	Lahaul&Spiti	0.69	0.62	0.50	0.31	0.17	0.15	0.22
012601	Tulse Pena	SPITI	Lahaul&Spiti	0.69	0.62	0.50	0.31	0.17	0.15	0.22
012602	Tarbole	SPITI	Lahaul&Spiti	0.71	0.63	0.50	0.39	0.16	0.15	0.26
012603	Chobrang	SPITI	Lahaul&Spiti	0.69	0.62	0.50	0.31	0.17	0.15	0.22
012604	Lingti	SPITI	Lahaul&Spiti	0.83	0.74	0.46	0.31	0.06	0.05	0.22
012605	Sanglung	SPITI	Lahaul&Spiti	0.66	0.59	0.51	0.31	0.21	0.18	0.22
012606	Kunge	SPITI	Lahaul&Spiti	0.61	0.55	0.53	0.29	0.25	0.21	0.21
012607	Demul Khas	SPITI	Lahaul&Spiti	0.61	0.55	0.53	0.29	0.25	0.21	0.21

Village Code	Village Name	Block	District	Indicators/Variables						Comp. Exp.
				S01	S02	S03	S04	S05	S06	
012608	GangdoDemul	SPITI	Lahaul&Spiti	0.62	0.56	0.53	0.30	0.24	0.20	0.21
012609	Mulche	SPITI	Lahaul&Spiti	0.61	0.55	0.53	0.29	0.25	0.21	0.21
012610	Rizing	SPITI	Lahaul&Spiti	0.61	0.55	0.53	0.29	0.25	0.21	0.21
012611	Tishu	SPITI	Lahaul&Spiti	0.62	0.55	0.53	0.29	0.25	0.21	0.21
012612	DhartakDamdam	SPITI	Lahaul&Spiti	0.61	0.55	0.53	0.28	0.25	0.22	0.21
012613	Dharsochin	SPITI	Lahaul&Spiti	0.50	0.44	0.57	0.24	0.39	0.37	0.24
012614	Dhar Dum Bachen	SPITI	Lahaul&Spiti	0.54	0.48	0.54	0.18	0.33	0.32	0.19
012615	Dhar Takling	SPITI	Lahaul&Spiti	0.19	0.16	0.52	0.07	0.56	0.66	0.08
012616	Dhar Parang	SPITI	Lahaul&Spiti	0.14	0.12	0.61	0.04	0.63	0.67	0.1
012617	Dhar Nusbosamdo	SPITI	Lahaul&Spiti	0.14	0.12	0.59	0.00	0.64	0.69	0.09
012618	Dhar Chhavigya	SPITI	Lahaul&Spiti	0.44	0.39	0.58	0.19	0.44	0.42	0.22
012619	Lalung Khas	SPITI	Lahaul&Spiti	0.69	0.62	0.50	0.31	0.17	0.15	0.22
012620	Phanve	SPITI	Lahaul&Spiti	0.69	0.62	0.50	0.31	0.17	0.15	0.22
012621	Kibri	SPITI	Lahaul&Spiti	0.69	0.62	0.50	0.31	0.17	0.15	0.22
012622	Yul Shikpo	SPITI	Lahaul&Spiti	0.69	0.62	0.50	0.31	0.17	0.15	0.22
012623	PhibukDogri	SPITI	Lahaul&Spiti	0.68	0.60	0.51	0.31	0.19	0.17	0.22
012624	Dhar Chokula	SPITI	Lahaul&Spiti	0.45	0.40	0.62	0.23	0.40	0.32	0.2
012625	Dhar Gangchhumi	SPITI	Lahaul&Spiti	0.68	0.60	0.51	0.35	0.19	0.19	0.25
012626	Landupdeen	SPITI	Lahaul&Spiti	0.68	0.61	0.51	0.36	0.19	0.18	0.25
012627	Mane Yogma	SPITI	Lahaul&Spiti	0.68	0.61	0.51	0.36	0.19	0.18	0.25
012628	Kaley	SPITI	Lahaul&Spiti	0.68	0.61	0.51	0.36	0.19	0.18	0.25
012629	Lar	SPITI	Lahaul&Spiti	0.70	0.62	0.50	0.38	0.17	0.17	0.26
012630	Dogsa	SPITI	Lahaul&Spiti	0.69	0.62	0.50	0.38	0.18	0.17	0.26
012631	Piyuche	SPITI	Lahaul&Spiti	0.73	0.65	0.49	0.43	0.14	0.14	0.28
012632	Mane Kogma	SPITI	Lahaul&Spiti	0.72	0.64	0.49	0.41	0.16	0.16	0.27
012633	Dhar Gunla	SPITI	Lahaul&Spiti	0.73	0.65	0.49	0.43	0.15	0.15	0.28
012634	Dhar Mane Rang	SPITI	Lahaul&Spiti	0.68	0.61	0.51	0.36	0.19	0.19	0.25
012635	Dhar Pomrang	SPITI	Lahaul&Spiti	0.68	0.61	0.51	0.36	0.18	0.18	0.25
012636	Poh	SPITI	Lahaul&Spiti	0.68	0.61	0.51	0.36	0.19	0.19	0.25
012637	Pomrang	SPITI	Lahaul&Spiti	0.68	0.61	0.51	0.36	0.19	0.19	0.25
012638	Nidang	SPITI	Lahaul&Spiti	0.68	0.61	0.51	0.36	0.19	0.18	0.25
012639	Qurith	SPITI	Lahaul&Spiti	0.68	0.61	0.51	0.36	0.19	0.18	0.25
012640	Tabo	SPITI	Lahaul&Spiti	0.67	0.60	0.51	0.35	0.19	0.20	0.25
012641	Lapcha	SPITI	Lahaul&Spiti	0.71	0.63	0.55	0.38	0.12	0.12	0.24
012642	Dhar Angla	SPITI	Lahaul&Spiti	0.64	0.57	0.53	0.35	0.21	0.20	0.24
012643	Dhar JhandaChoksa	SPITI	Lahaul&Spiti	0.72	0.64	0.50	0.36	0.14	0.16	0.24
012644	Lari	SPITI	Lahaul&Spiti	0.67	0.60	0.51	0.35	0.19	0.20	0.25
012645	Duphuk	SPITI	Lahaul&Spiti	0.67	0.60	0.51	0.35	0.19	0.20	0.25
012646	Tipta	SPITI	Lahaul&Spiti	0.78	0.70	0.47	0.37	0.04	0.11	0.23
012647	Dhar Chhochhodun	SPITI	Lahaul&Spiti	0.52	0.46	0.70	0.38	0.32	0.17	0.26
012648	Dhar Kargyupa	SPITI	Lahaul&Spiti	0.02	0.02	0.99	0.32	0.67	0.25	0.13
012649	Gipu	SPITI	Lahaul&Spiti	0.00	0.00	1.00	0.34	0.67	0.23	0.12
012650	Lirit	SPITI	Lahaul&Spiti	0.10	0.09	0.97	0.36	0.64	0.22	0.19
012651	Kun	SPITI	Lahaul&Spiti	0.27	0.24	0.93	0.39	0.59	0.23	0.31
012652	Hiche	SPITI	Lahaul&Spiti	0.27	0.24	0.93	0.39	0.59	0.23	0.31
012653	Hurling	SPITI	Lahaul&Spiti	0.27	0.24	0.93	0.39	0.59	0.23	0.31
012654	Dhar Karjenpa	SPITI	Lahaul&Spiti	0.07	0.06	0.98	0.35	0.65	0.23	0.17
012655	Kauirik	SPITI	Lahaul&Spiti	0.00	0.00	1.00	0.40	0.67	0.17	0.11
012656	Samdo	SPITI	Lahaul&Spiti	0.18	0.16	0.95	0.39	0.61	0.21	0.25



Map 9.14 Village level Composite Exposure

In order to measure the exposure level, it has been divided into six categories. The composite value between 0.00-0.20 indicates very low exposure and values between 0.91-1.00 indicate extreme level exposure. After analyzing six indicators (Average maximum temperature, Average minimum temperature, Average precipitation, Water stress days, Temperature stress days & Snow Melt) the Composite Exposure Map (Map: 9.14) depicts that exposure level of the villages located around the Satluj River at Nichar & Kalpa block are higher than the other Blocks.

9.5 Sensitivity indicators

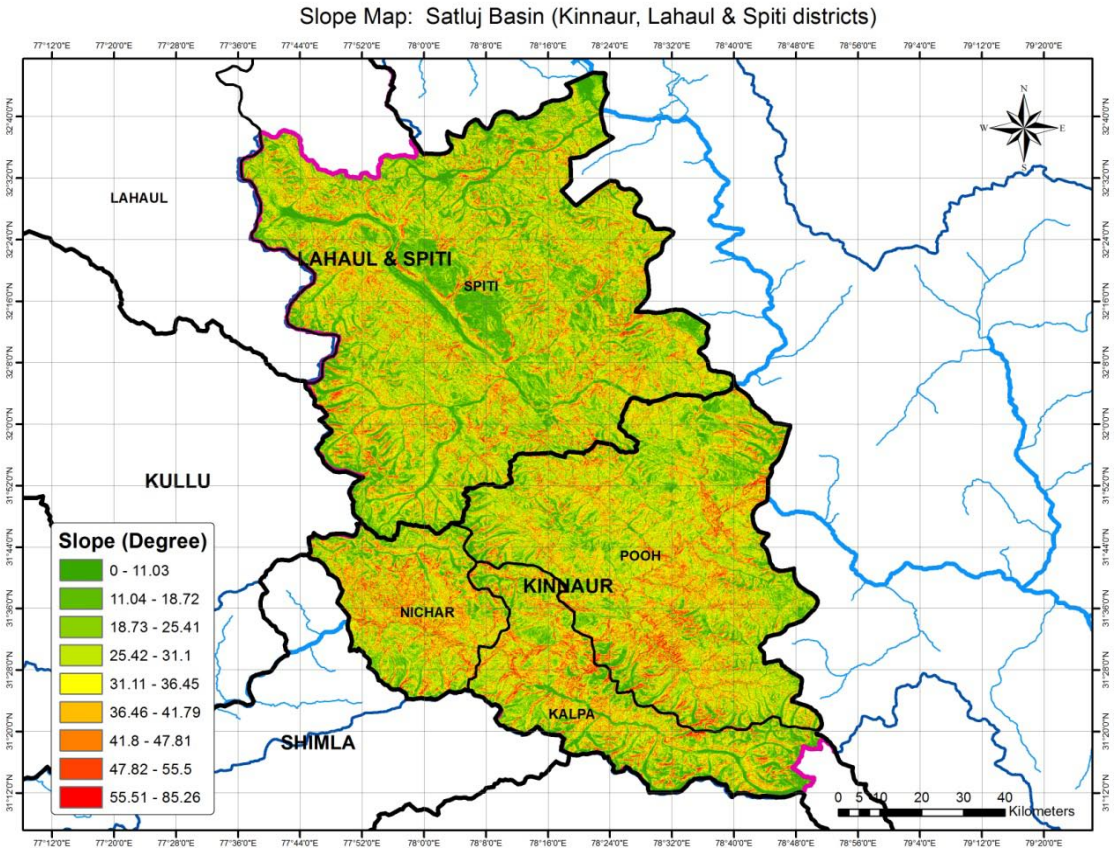
The relative importance of the effects of climate change varies with different regions, groups and sectors in society. For example, highly intense rainfall may lead to devastating results in some region, whereas the same may not be of much harm in some other region. The degree to which a system is modified or affected by internal, external, or sometimes with both disturbances is defined as sensitivity. The measure that reflects the responsiveness of a system to climatic influences determines the degree to which a group is affected by the environmental stress.

Hence in this analysis we have used eight indicators of sensitivitycomputation using values generated for Rate of Increase in Water Yield by SWAT model, Average Hill slope calculated using DEM, calculating Percentage of Net Sown area to the geographical area, Human population density per hectares, Percentage of Un-irrigated Land Area to Geographical area, Percentage of Barren & Un-cultivable Land Area to Geographical area, Percentage of Barren & Un-cultivable Land Area to Geographical area, Percentage of Forest Area to Geographical Area and Percentage of Cultivable Waste Land Area to Geographical Area. The maps have

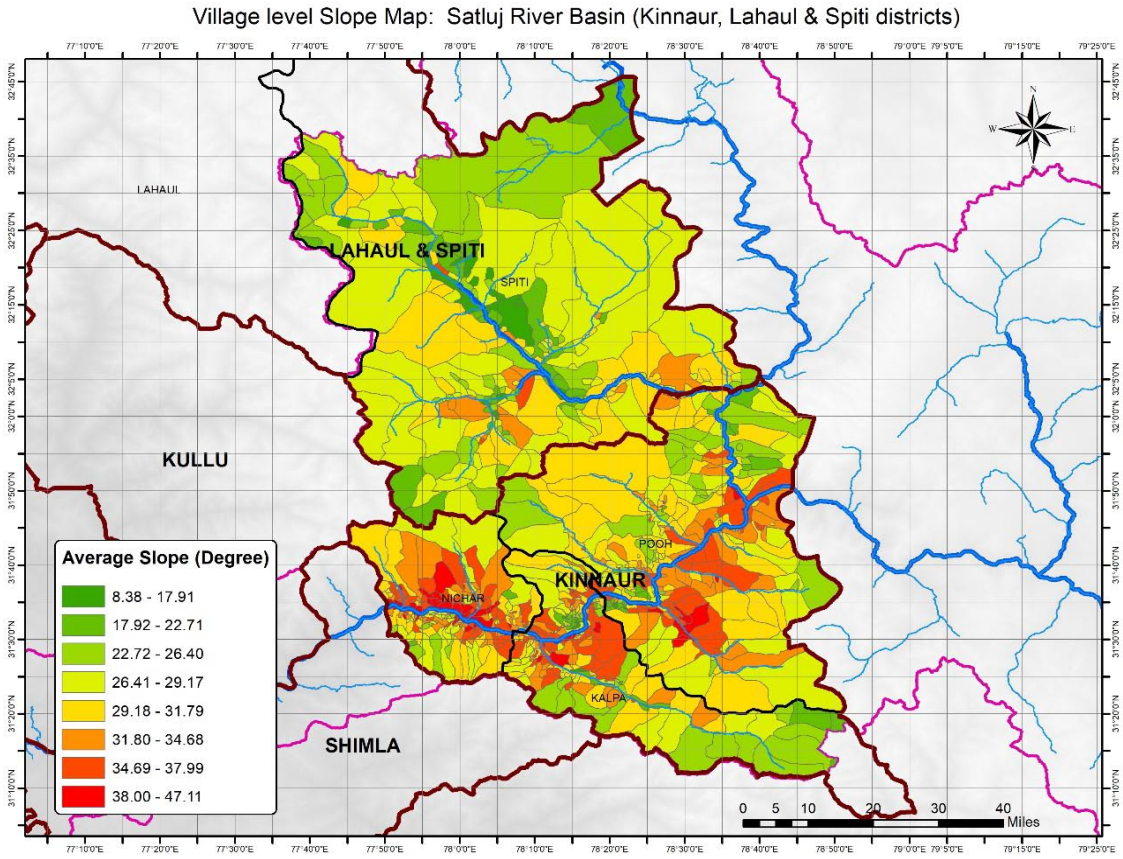
also been developed for each of these Sensitivity indicators. The indicator-wise functional relationship analysis is as follows:

Code	Sensitivity	Units	Years	Functional Relationship with Sensitivity	Data Source
S01	Average Hill Slope	Degree	-	↑	SWAT Model
S02	Annual Average Water Yield	mm	34	↓	SWAT Model
S03	Percentage of Net Sown Area to Geographical area	%age	2011	↑	Census 2011
S04	Human population density	Person/Ha.	2011	↑	Census 2011
S05	Percentage of Un-irrigated Land Area to Geographical area	%age	2011	↑	Census 2011
S06	Percentage of Barren & Un-cultivable Land Area to Geographical area	%age	2011	↑	Census 2011
S07	Percentage of Cultivable Waste Land Area to Geographical Area	%age	2011	↑	Census 2011

S01 Average Hill Slope

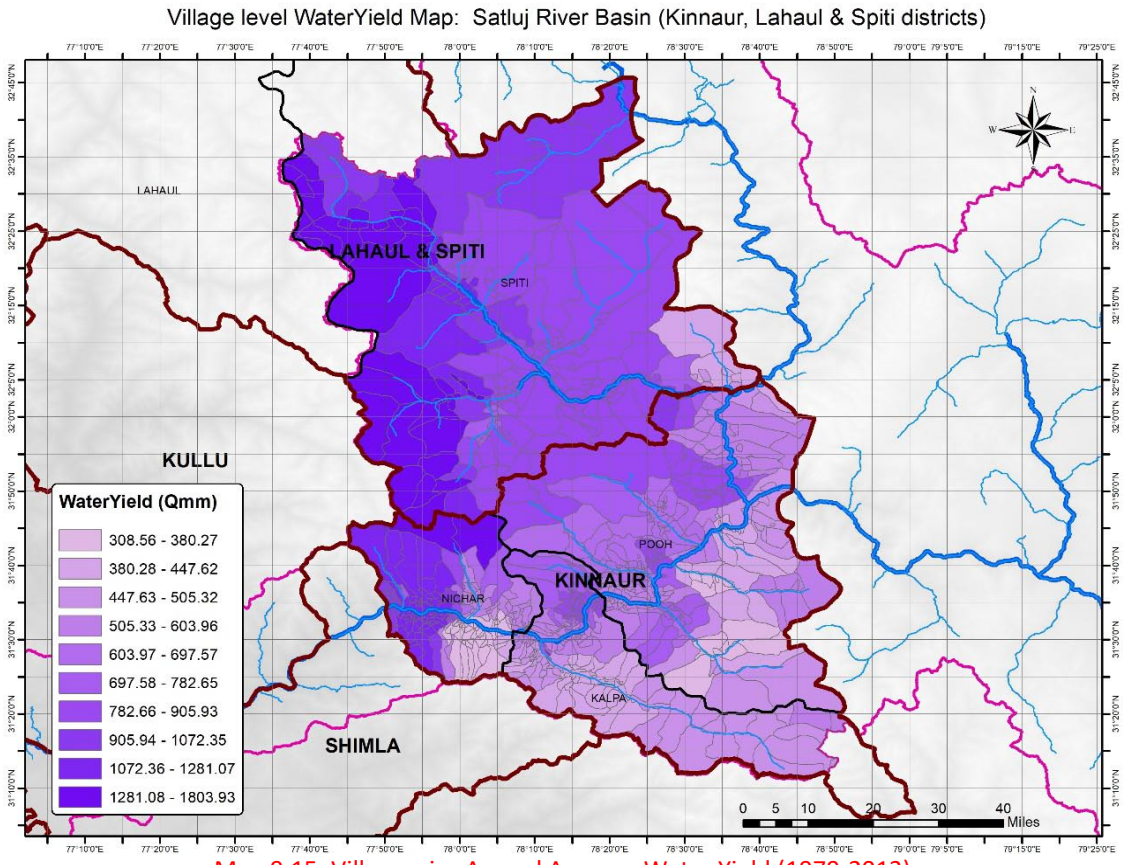


Map 9.14 (a): Slope Map



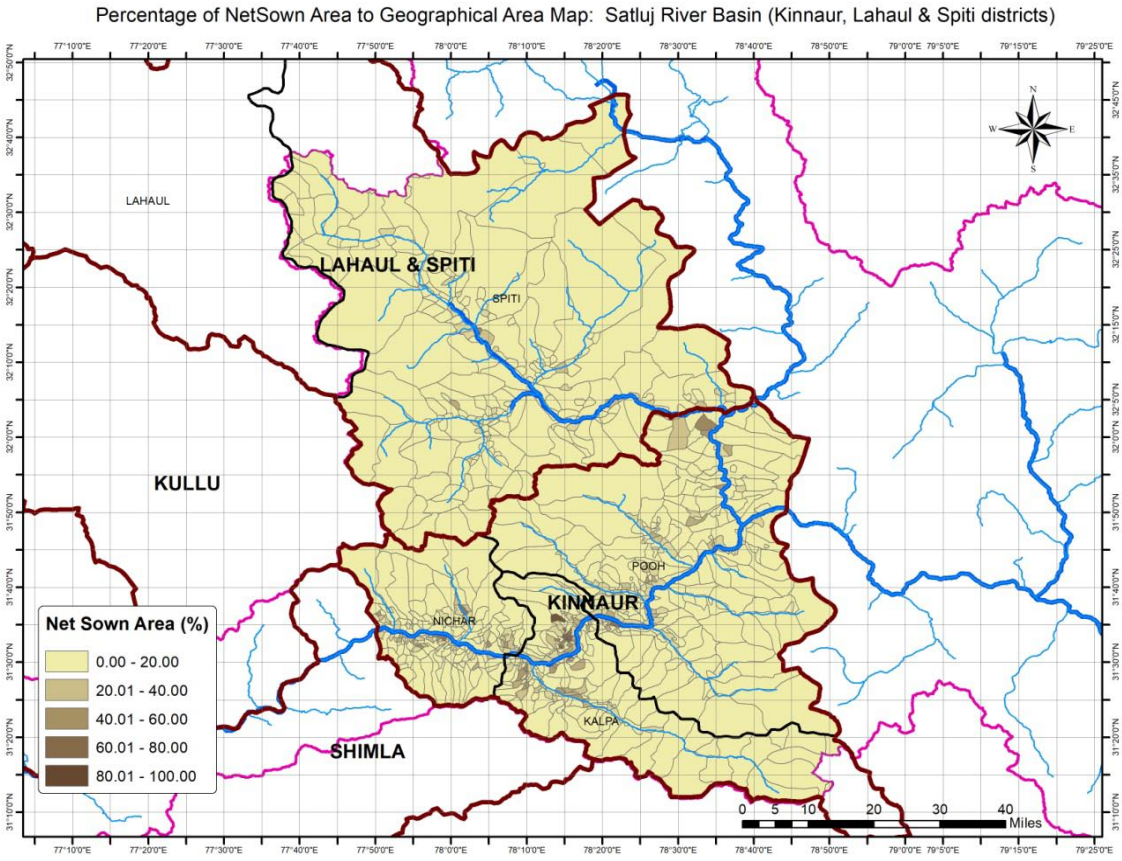
Map 9.14 (b): Village level Slope Map

S02 Average Water Yield



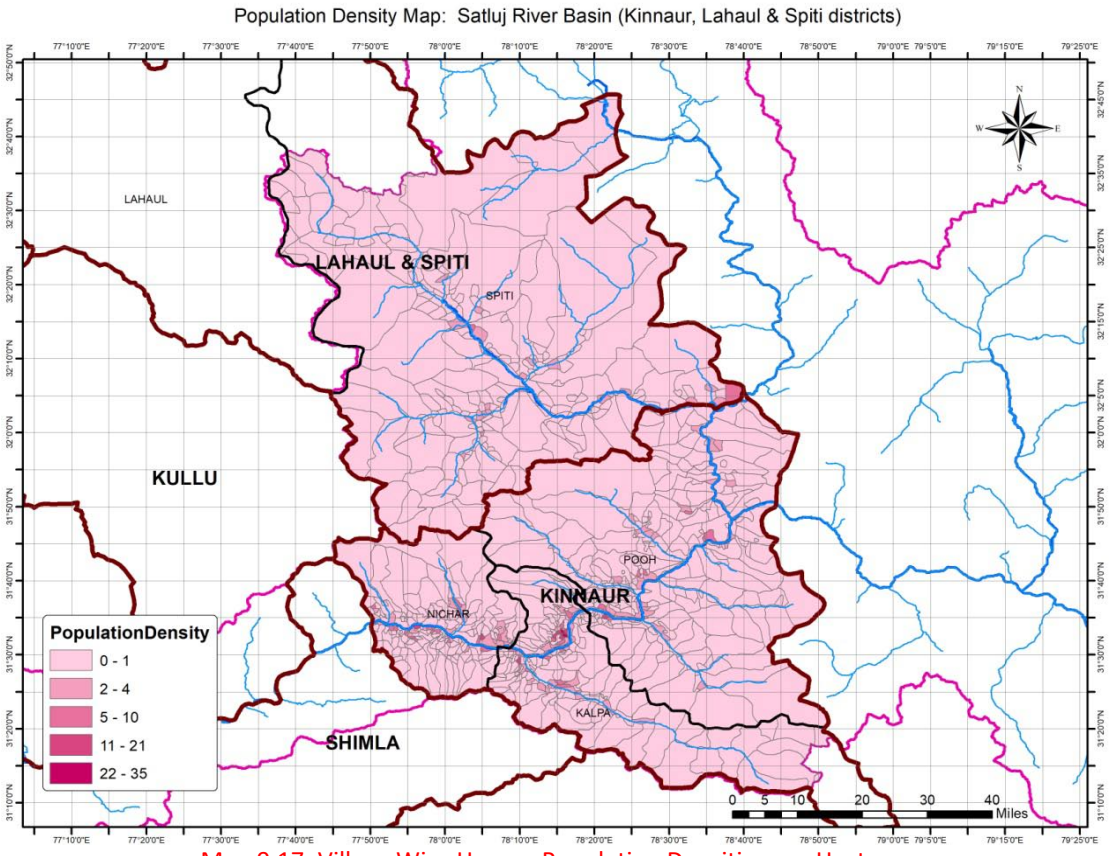
Map 9.15: Village wise Annual Average Water Yield (1979-2013)

S03 Percentage of Net Sown Area to Geographical area



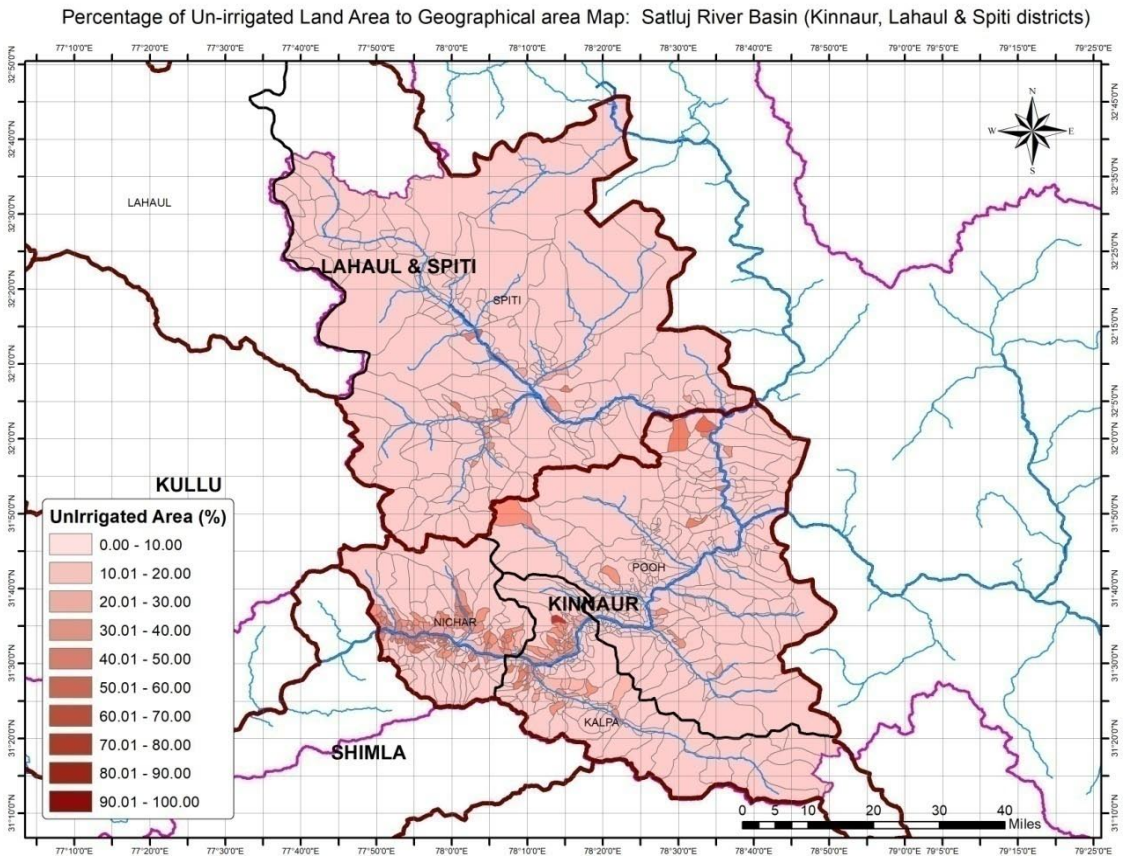
Map 9.16: Percentage of Net Sown Area to Geographical area

S04 Human Population Density



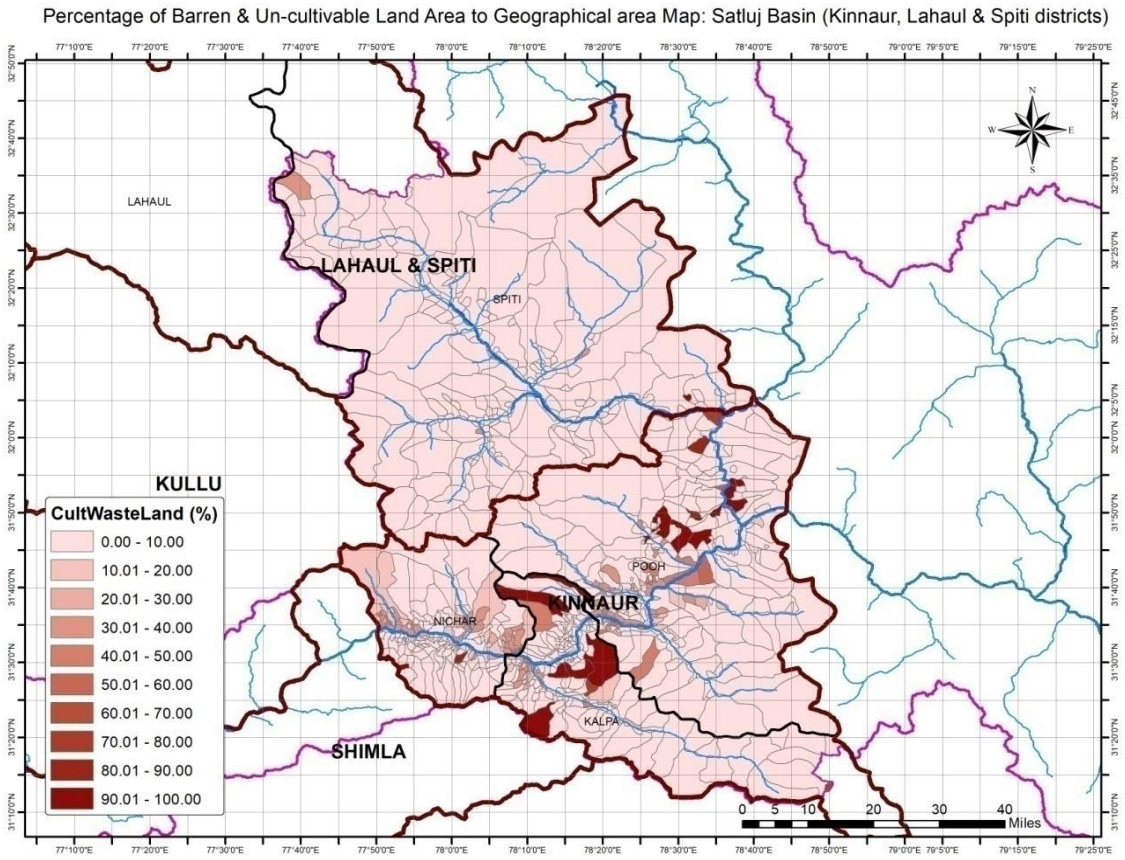
Map 9.17: Village Wise Human Population Densities per Hectares

S05 Percentage of Un-irrigated Land Area to Geographical area



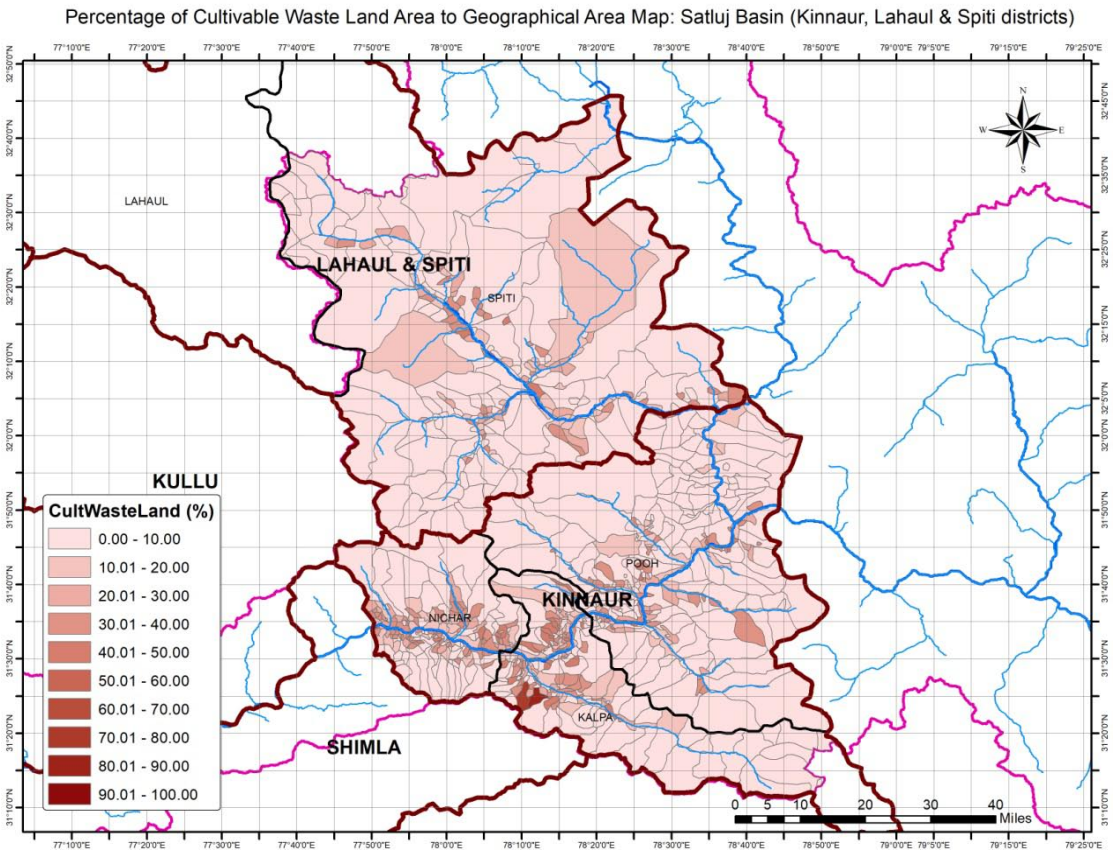
Map 9.18: Percentage of Un-irrigated Land Area to Geographical area

S06 Percentage of Barren & Un-cultivable Land Area to Geographical area



Map 9.19: Percentage of Barren & Un-cultivable Land Area to Geographical area

S07 Percentage of Cultivable Waste Land Area to Geographical Area



Map 9.20: Percentage of Cultivable Waste Land Area to Geographical Area

9.6 Composite Sensitivity

Sensitivity has been calculated by using normalized values of variables based upon Average Hill Slope, Annual Average Water Yield, Percentage of Net Sown Area to Geographical area, Human population density, Percentage of Un-irrigated Land Area to Geographical area, Percentage of Barren & Un-cultivable Land Area to Geographical area, Percentage of Cultivable Waste Land Area to Geographical Area. Since the values are on different scale and units, the normalization of indicators using functional relationship has been done.

Variable Indicator S02 i.e. Average Water Yield has ↓ functional relationshipwith sensitivity and the normalization is done using the formula, which means the Increase in Water Yield will reduce the vulnerability:

$$y_{ij} = \frac{Max_i\{X_{ij}\} - X_{ij}}{Max_i\{X_{ij}\} - Min_i\{X_{ij}\}}$$

However, for indicator S01 i.e. Average Hill Slope the normalization is done using the formula:

$$x_{ij} = \frac{X_{ij} - Min_i\{X_{ij}\}}{Max_i\{X_{ij}\} - Min_i\{X_{ij}\}}$$

This has been done since the functional relationship of indicator S01 with vulnerability is ↑, which means, the increase in Average Hill Slope will indicate increase the vulnerability.

After calculating the score of variables S01 to S07 the average score is calculated and the Composite Sensitivity is calculated and mapped for all census villages:

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
026992	Dhar Rawal	KALPA	Kinnaur	0.55	0.71	0.00	0.00	0.00	0.00	0.00	0.29
026993	Dhar Kyari	KALPA	Kinnaur	0.47	0.75	0.00	0.00	0.00	1.00	0.00	0.63
026994	Nang Kashang	KALPA	Kinnaur	0.66	0.72	0.03	0.00	0.00	0.00	0.14	0.39
026995	Kashag Gramag	KALPA	Kinnaur	0.52	0.72	0.06	0.00	0.00	0.00	0.02	0.31
026996	Jangal Mehfuza	KALPA	Kinnaur	0.48	0.72	0.00	0.00	0.00	0.00	0.00	0.26
026997	Kashang Getige	KALPA	Kinnaur	0.58	0.72	0.06	0.00	0.00	0.00	0.07	0.35
026998	Jangal Mehfuza	KALPA	Kinnaur	0.68	0.72	0.00	0.00	0.00	0.00	0.00	0.33
026999	Ragura	KALPA	Kinnaur	0.73	0.65	0.15	0.05	0.01	0.00	0.00	0.41
027000	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.74	0.65	0.01	0.00	0.00	0.00	0.00	0.33
027001	Khwanta	KALPA	Kinnaur	0.72	0.65	0.17	0.07	0.00	0.00	0.02	0.43
027002	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.98	0.65	0.00	0.00	0.00	0.00	0.00	0.41
027003	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.73	0.65	0.07	0.00	0.00	0.00	0.01	0.36
027004	Dhar Kurak Tasang	KALPA	Kinnaur	0.52	0.71	0.00	0.00	0.00	1.00	0.00	0.63
027005	Dhar Gurgurti	KALPA	Kinnaur	0.49	0.70	0.00	0.00	0.00	0.42	0.00	0.41
027006	Mebar	KALPA	Kinnaur	0.55	0.65	0.85	0.00	0.81	0.00	0.04	0.99
027007	Japredin	KALPA	Kinnaur	0.65	0.65	0.14	0.00	0.05	0.00	0.12	0.42
027008	Change	KALPA	Kinnaur	0.73	0.65	0.07	0.00	0.04	0.00	0.09	0.40
027009	Panwa	KALPA	Kinnaur	0.57	0.65	0.67	0.00	0.00	0.00	0.08	0.57
027010	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.56	0.65	0.02	0.00	0.00	0.00	0.00	0.28
027011	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.65	0.65	0.00	0.00	0.00	0.00	0.00	0.30
027012	Boktu	KALPA	Kinnaur	0.69	0.65	0.16	0.00	0.04	0.00	0.00	0.40
027013	Pangi	KALPA	Kinnaur	0.55	0.65	0.33	0.15	0.01	0.00	0.01	0.47
027014	Purbani Khas	KALPA	Kinnaur	0.70	0.65	0.38	0.07	0.00	0.00	0.02	0.51
027015	Rawa	KALPA	Kinnaur	0.56	0.65	0.22	0.01	0.00	0.00	0.01	0.36
027016	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.79	0.74	0.00	0.00	0.00	0.00	0.00	0.38
027017	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.58	0.68	0.00	0.00	0.00	0.00	0.00	0.28
027018	Dhar Jeshta Grang	KALPA	Kinnaur	0.45	0.65	0.00	0.00	0.00	0.00	0.00	0.23
027019	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.39	0.65	0.00	0.00	0.00	0.00	0.00	0.21
027020	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.43	0.65	0.00	0.00	0.00	0.00	0.00	0.22
027021	Kibar	KALPA	Kinnaur	0.29	0.65	0.36	0.00	0.00	0.00	0.14	0.37
027022	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.69	0.65	0.00	0.00	0.00	0.00	0.00	0.31
027023	D.P.F. Talampi C	KALPA	Kinnaur	0.69	0.70	0.08	0.02	0.00	0.00	0.00	0.37
027024	Pawari	KALPA	Kinnaur	0.63	0.65	0.17	0.04	0.00	0.00	0.03	0.39
027025	Telingi	KALPA	Kinnaur	0.58	0.65	0.12	0.03	0.01	0.00	0.01	0.34
027026	Tarkhwa	KALPA	Kinnaur	0.58	0.65	0.61	0.14	0.02	0.00	0.00	0.59
027027	Maki Mrang	KALPA	Kinnaur	0.43	0.65	0.75	0.18	0.00	0.15	0.03	0.66
027028	Khwangi	KALPA	Kinnaur	0.40	0.65	0.31	0.39	0.02	0.00	0.04	0.50
027029	Kothi	KALPA	Kinnaur	0.38	0.65	0.77	0.84	0.03	0.00	0.03	0.85
027030	Duni	KALPA	Kinnaur	0.39	0.65	0.84	0.31	0.02	0.00	0.00	0.67
027031	Kashmir	KALPA	Kinnaur	0.38	0.65	0.80	0.11	0.00	0.00	0.00	0.57
027032	Gonang	KALPA	Kinnaur	0.53	0.65	0.16	0.00	0.03	0.00	0.12	0.38
027033	Goli	KALPA	Kinnaur	0.47	0.65	0.08	0.00	0.00	0.00	0.16	0.33
027034	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.32	0.65	0.00	0.00	0.00	0.00	0.00	0.18
027035	Dumdumka	KALPA	Kinnaur	0.23	0.67	0.54	0.00	0.30	0.00	0.25	0.61
027036	Radule	KALPA	Kinnaur	0.37	0.74	0.23	0.02	0.15	0.00	0.15	0.45
027037	Dhar Dhumpawang	KALPA	Kinnaur	0.49	0.71	0.00	0.00	0.00	0.00	0.00	0.26
027038	Dhar Shulacha Pilaya	KALPA	Kinnaur	0.70	0.81	0.00	0.00	0.00	0.00	0.00	0.37
027039	Kastyo	KALPA	Kinnaur	0.65	0.84	0.08	0.00	0.06	0.00	0.12	0.47
027040	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.75	0.84	0.00	0.00	0.00	0.00	0.00	0.40
027041	Dakhaye	KALPA	Kinnaur	0.76	0.83	0.12	0.01	0.06	0.00	0.01	0.48
027042	Talangcho	KALPA	Kinnaur	0.72	0.83	0.07	0.02	0.02	0.00	0.04	0.45

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
027043	D.P.F. Rogi Soyam	KALPA	Kinnaur	0.52	0.82	0.00	0.00	0.00	0.00	0.00	0.31
027044	D.P.F. Rogi Doyam	KALPA	Kinnaur	0.76	0.82	0.00	0.00	0.00	0.00	0.00	0.40
027045	D.P.F. Rogi Awal	KALPA	Kinnaur	0.59	0.82	0.00	0.00	0.00	0.00	0.00	0.34
027046	Rogi	KALPA	Kinnaur	0.66	0.82	0.14	0.06	0.02	0.00	0.00	0.45
027047	Shuda Rang	KALPA	Kinnaur	0.22	0.82	0.36	0.17	0.07	0.00	0.02	0.45
027048	D.P.F. Chini Doyam	KALPA	Kinnaur	0.50	0.82	0.00	0.00	0.00	0.00	0.00	0.30
027049	Saryo	KALPA	Kinnaur	0.38	0.82	0.75	0.15	0.01	0.00	0.03	0.64
027050	D.P.F. Chini Awal	KALPA	Kinnaur	0.34	0.79	0.09	0.00	0.04	0.00	0.00	0.29
027051	Kalpa	KALPA	Kinnaur	0.30	0.72	0.59	0.36	0.02	0.00	0.07	0.61
027052	Brelingi	KALPA	Kinnaur	0.30	0.65	0.80	0.60	0.03	0.00	0.01	0.74
027053	Reckong Peo	KALPA	Kinnaur	0.29	0.65	0.22	1.00	0.08	0.00	0.20	0.72
027054	Yuwaringi	KALPA	Kinnaur	0.19	0.69	0.46	0.46	0.06	0.00	0.03	0.54
027055	Raang	KALPA	Kinnaur	0.47	0.80	0.27	0.06	0.08	0.00	0.02	0.47
027056	Yusaring	KALPA	Kinnaur	0.86	0.82	0.17	0.08	0.00	0.00	0.00	0.54
027057	Rali	KALPA	Kinnaur	0.74	0.82	0.02	0.01	0.00	0.00	0.00	0.40
027058	D.P.F. Rali C-167	KALPA	Kinnaur	0.71	0.83	0.00	0.00	0.00	0.00	0.00	0.38
027059	D.P.F. Gramag C-168	KALPA	Kinnaur	0.75	0.82	0.00	0.00	0.00	0.00	0.00	0.40
027060	Phayag Choden	KALPA	Kinnaur	0.50	0.82	0.42	0.00	0.00	0.00	0.17	0.54
027061	Dhar Yutingra	KALPA	Kinnaur	0.63	0.82	0.00	0.00	0.00	1.00	0.00	0.71
027062	Mebar Khas	KALPA	Kinnaur	0.75	0.82	0.45	0.16	0.00	0.00	0.20	0.71
027063	D.P.F. Nalango C-169 AB	KALPA	Kinnaur	0.80	0.82	0.00	0.00	0.00	0.00	0.00	0.41
027064	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.92	0.82	0.00	0.00	0.00	0.00	0.00	0.46
027065	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.86	0.82	0.00	0.00	0.00	0.00	0.00	0.44
027066	Barang Khas	KALPA	Kinnaur	0.65	0.82	0.65	0.16	0.00	0.00	0.02	0.69
027067	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.56	0.82	0.00	0.00	0.00	0.00	0.00	0.33
027068	Sharmi	KALPA	Kinnaur	0.55	0.82	0.37	0.00	0.00	0.00	0.04	0.49
027069	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.69	0.82	0.00	0.00	0.00	0.00	0.00	0.37
027070	Tangling	KALPA	Kinnaur	0.53	0.79	0.12	0.04	0.00	0.00	0.01	0.37
027071	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.71	0.82	0.00	0.00	0.00	0.00	0.00	0.38
027072	Meling Khata	KALPA	Kinnaur	0.84	0.82	0.00	0.00	0.00	0.00	0.05	0.44
027073	Dhar Motas Chakru	KALPA	Kinnaur	0.69	0.82	0.00	0.00	0.00	1.00	0.00	0.73
027074	Tatkhawa Kanda	KALPA	Kinnaur	0.63	0.82	0.34	0.00	0.00	0.00	0.13	0.54
027075	Dhar Tikulrung Thar	KALPA	Kinnaur	0.71	0.82	0.00	0.00	0.00	1.00	0.00	0.74
027089	Shorang	KALPA	Kinnaur	0.76	0.70	0.05	0.01	0.05	0.04	0.01	0.42
027090	D.P.F. Bada Kamba C 97	KALPA	Kinnaur	0.80	0.62	0.00	0.00	0.00	0.00	0.00	0.34
027091	Kumrang Dhar	KALPA	Kinnaur	0.58	0.43	0.00	0.00	0.00	0.00	0.00	0.20
027264	Thikru	KALPA	Kinnaur	0.65	0.84	0.08	0.02	0.00	0.01	0.00	0.41
027265	D.P.F.C-137 A+B	KALPA	Kinnaur	0.57	0.84	0.00	0.00	0.00	0.00	0.00	0.34
027266	Nyardeem	KALPA	Kinnaur	0.72	0.84	0.11	0.00	0.11	0.00	0.18	0.55
027267	D.P.F.C-138 Thikru	KALPA	Kinnaur	0.60	0.84	0.00	0.00	0.00	0.00	0.00	0.35
027268	D.P.F.C-139 Tiuden	KALPA	Kinnaur	0.74	0.84	0.00	0.00	0.00	0.00	0.00	0.40
027269	Kilba Khas	KALPA	Kinnaur	0.55	0.84	0.26	0.16	0.00	0.00	0.01	0.50
027270	D.P.F.C-140-141 Kilba	KALPA	Kinnaur	0.73	0.84	0.00	0.00	0.00	0.00	0.00	0.40
027271	Kanahi-Khas	KALPA	Kinnaur	0.68	0.84	0.16	0.11	0.00	0.10	0.02	0.53
027272	D.P.F.C-143 Sapni	KALPA	Kinnaur	0.58	0.84	0.00	0.00	0.00	0.00	0.00	0.34
027273	D.P.F. C-142-144 Kumkumi	KALPA	Kinnaur	0.57	0.84	0.00	0.00	0.00	0.00	0.00	0.34
027274	Gunthar	KALPA	Kinnaur	0.57	0.86	0.26	0.00	0.26	0.06	0.11	0.63
027275	Patyo	KALPA	Kinnaur	0.51	0.90	0.44	0.00	0.43	0.06	0.10	0.77
027276	Sapni Khas	KALPA	Kinnaur	0.59	0.88	0.53	0.33	0.31	0.06	0.11	0.89
027277	Shenan Den	KALPA	Kinnaur	0.66	0.88	0.15	0.03	0.03	0.08	0.02	0.51
027278	Baturi	KALPA	Kinnaur	0.55	0.90	0.36	0.10	0.18	0.00	0.06	0.64
027279	D.P.F. Baturi C-145	KALPA	Kinnaur	0.60	0.90	0.00	0.00	0.00	0.00	0.00	0.37
027280	Baturi Kanda	KALPA	Kinnaur	0.48	0.90	0.33	0.00	0.33	0.03	0.14	0.67
027281	Supitang Dhar	KALPA	Kinnaur	0.56	0.89	0.00	0.00	0.00	0.00	0.00	0.35

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
027282	Pilacho Dhar	KALPA	Kinnaur	0.71	0.90	0.00	0.00	0.00	0.00	0.00	0.41
027283	Botyaring Dhar	KALPA	Kinnaur	0.52	0.92	0.00	0.00	0.00	0.00	0.00	0.35
027284	Batingra Dhar	KALPA	Kinnaur	0.54	0.91	0.00	0.00	0.00	0.00	0.00	0.35
027285	Anati Dhar	KALPA	Kinnaur	0.51	0.91	0.00	0.00	0.00	0.00	0.00	0.34
027286	D.P.F.C-146	KALPA	Kinnaur	0.62	0.90	0.00	0.00	0.00	0.00	0.00	0.38
027287	D.P.F.C-147-148	KALPA	Kinnaur	0.69	0.90	0.00	0.00	0.00	0.00	0.00	0.40
027288	Barua Khas	KALPA	Kinnaur	0.57	0.90	0.10	0.10	0.02	0.00	0.02	0.45
027292	Regsthang	KALPA	Kinnaur	0.77	0.90	0.01	0.00	0.01	0.00	0.01	0.44
027293	D.P.F.C-164	KALPA	Kinnaur	0.94	0.90	0.00	0.01	0.00	0.00	0.00	0.49
027294	D.P.F.C-151 A+B	KALPA	Kinnaur	0.71	0.90	0.00	0.00	0.00	0.00	0.00	0.41
027295	Shobre Yanang	KALPA	Kinnaur	0.70	0.90	0.02	0.23	0.02	0.00	0.00	0.50
027296	D.P.F.C 149-150	KALPA	Kinnaur	0.90	0.90	0.00	0.00	0.00	0.00	0.00	0.48
027297	Nagassaring	KALPA	Kinnaur	0.73	0.90	0.44	0.00	0.44	0.01	0.09	0.83
027298	Mone Rang	KALPA	Kinnaur	0.55	0.90	0.24	0.00	0.00	0.00	0.03	0.46
027299	Tilchakhula Dhar	KALPA	Kinnaur	0.54	0.90	0.00	0.00	0.00	0.00	0.00	0.35
027300	Bulcho Dhar	KALPA	Kinnaur	0.53	0.90	0.00	0.00	0.00	0.00	0.00	0.35
027301	Dhar Pashel	KALPA	Kinnaur	0.62	0.90	0.00	0.00	0.00	0.00	0.81	0.66
027302	Tesha Guden	KALPA	Kinnaur	0.62	0.90	0.01	0.00	0.01	0.00	0.01	0.39
027303	Shaung Khas	KALPA	Kinnaur	0.64	0.90	0.24	0.09	0.02	0.00	0.04	0.53
027304	D.P.F.C-152	KALPA	Kinnaur	0.60	0.90	0.00	0.00	0.00	0.00	0.00	0.37
027305	Limoden	KALPA	Kinnaur	0.72	0.90	0.25	0.02	0.00	0.06	0.04	0.56
027306	D.P.F.C-152	KALPA	Kinnaur	0.51	0.90	0.00	0.00	0.00	0.00	0.00	0.34
027307	Chasu Khas	KALPA	Kinnaur	0.69	0.90	0.15	0.05	0.01	0.00	0.02	0.50
027308	Dhar Dambar	KALPA	Kinnaur	0.69	0.90	0.00	0.00	0.00	0.00	1.00	0.76
027309	Jareyo	KALPA	Kinnaur	0.51	0.92	0.14	0.06	0.00	0.00	0.03	0.44
027310	D.P.F.C-153 Chindo	KALPA	Kinnaur	0.56	0.93	0.00	0.00	0.00	0.00	0.00	0.37
027311	Dhar Rupan	KALPA	Kinnaur	0.40	0.92	0.00	0.00	0.00	0.99	0.00	0.66
027312	Sangla Kanda	KALPA	Kinnaur	0.38	0.93	0.07	0.00	0.07	0.00	0.15	0.41
027313	D.P.F.C-154-155	KALPA	Kinnaur	0.57	0.93	0.00	0.02	0.00	0.00	0.00	0.38
027314	Sangla	KALPA	Kinnaur	0.15	0.93	0.35	0.21	0.01	0.00	0.04	0.46
027315	Kupa	KALPA	Kinnaur	0.54	0.91	0.42	0.09	0.04	0.00	0.02	0.59
027316	Kamru Khas	KALPA	Kinnaur	0.54	0.93	0.37	0.23	0.00	0.00	0.01	0.60
027317	Lachonden	KALPA	Kinnaur	0.61	0.91	0.05	0.00	0.00	0.00	0.05	0.42
027318	Goroden	KALPA	Kinnaur	0.57	0.92	0.06	0.01	0.01	0.00	0.03	0.41
027319	Thapa Saring	KALPA	Kinnaur	0.71	0.92	0.21	0.05	0.01	0.00	0.04	0.54
027320	Panpo Kanda	KALPA	Kinnaur	0.75	0.92	0.02	0.00	0.02	0.77	0.03	0.74
027321	D.P.F.C-162	KALPA	Kinnaur	0.58	0.93	0.00	0.00	0.00	0.00	0.00	0.37
027322	Boning Saring	KALPA	Kinnaur	0.33	0.93	0.41	0.12	0.00	0.00	0.04	0.51
027323	D.P.F.C 157 Basering	KALPA	Kinnaur	0.56	0.93	0.00	0.00	0.00	0.00	0.00	0.36
027324	D.P.F Hurua-C-156	KALPA	Kinnaur	0.53	0.93	0.01	0.00	0.01	0.00	0.01	0.36
027325	Dewar Kanda	KALPA	Kinnaur	0.68	0.93	0.00	0.00	0.00	0.00	0.10	0.44
027326	Dhar Dewar	KALPA	Kinnaur	0.45	0.93	0.00	0.00	0.00	0.00	0.00	0.33
027327	Dhar Hanyauperli	KALPA	Kinnaur	0.42	0.92	0.00	0.00	0.00	0.00	0.00	0.32
027328	Dhar Singan	KALPA	Kinnaur	0.60	0.92	0.00	0.00	0.00	0.00	0.00	0.38
027329	Dhar Hanyanichli	KALPA	Kinnaur	0.68	0.93	0.00	0.00	0.00	0.00	0.01	0.41
027330	Batseri	KALPA	Kinnaur	0.30	0.93	0.40	0.08	0.00	0.40	0.02	0.61
027331	Seringche	KALPA	Kinnaur	0.43	0.93	0.28	0.06	0.00	0.00	0.10	0.49
027332	D.P.F.C 162-B	KALPA	Kinnaur	0.75	0.93	0.00	0.00	0.00	0.00	0.00	0.43
027333	Dhar Bujlang	KALPA	Kinnaur	0.72	0.92	0.00	0.00	0.00	0.00	0.00	0.42
027334	Dhar Bhadri	KALPA	Kinnaur	0.45	0.92	0.00	0.00	0.00	0.00	0.00	0.33
027335	D.P.F.C.-160	KALPA	Kinnaur	0.32	0.92	0.00	0.00	0.00	0.00	0.00	0.28
027336	D.P.F.C-161	KALPA	Kinnaur	0.57	0.92	0.00	0.00	0.00	0.00	0.00	0.36
027337	Kharogla	KALPA	Kinnaur	0.41	0.92	0.12	0.01	0.00	0.00	0.01	0.37
027338	D.P.F.C 162-A	KALPA	Kinnaur	0.72	0.92	0.00	0.00	0.00	0.00	0.03	0.43

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
027339	D.P.F.C-163	KALPA	Kinnaur	0.47	0.92	0.00	0.00	0.00	0.00	0.00	0.33
027340	D.P.F.C-159 Batseri	KALPA	Kinnaur	0.34	0.92	0.00	0.00	0.00	0.00	0.00	0.29
027341	Dhar Kalikutang Nichli	KALPA	Kinnaur	0.63	0.92	0.00	0.00	0.00	0.00	0.00	0.39
027342	Dhar Kali Kutang Uperli	KALPA	Kinnaur	0.64	0.92	0.00	0.00	0.00	0.00	0.00	0.39
027343	Dhar Kamkamphur	KALPA	Kinnaur	0.44	0.92	0.00	0.00	0.00	0.00	0.00	0.32
027344	Rakchham	KALPA	Kinnaur	0.45	0.92	0.18	0.05	0.05	0.00	0.23	0.52
027345	Dhar Shoshla	KALPA	Kinnaur	0.59	0.92	0.00	0.00	0.00	0.00	0.00	0.37
027346	Dhar Gelap	KALPA	Kinnaur	0.54	0.90	0.00	0.00	0.00	0.00	0.00	0.35
027347	Dhar Tawla	KALPA	Kinnaur	0.62	0.90	0.00	0.00	0.00	0.00	0.00	0.38
027348	Mastrang	KALPA	Kinnaur	0.35	0.90	0.01	0.01	0.00	0.01	0.02	0.30
027349	Dhar Noshang West	KALPA	Kinnaur	0.73	0.91	0.00	0.00	0.00	0.00	0.04	0.43
027350	Dhar Noshang Uperli	KALPA	Kinnaur	0.55	0.91	0.00	0.00	0.00	0.00	0.00	0.35
027351	Dhar Noshang Nichli	KALPA	Kinnaur	0.32	0.89	0.00	0.00	0.00	0.00	0.01	0.27
027352	Chhitkul	KALPA	Kinnaur	0.31	0.89	0.17	0.05	0.00	0.00	0.00	0.35
027353	Dhar Bhujlang	KALPA	Kinnaur	0.55	0.90	0.00	0.00	0.00	0.00	0.00	0.36
027354	Dhar Bhujaya	KALPA	Kinnaur	0.48	0.89	0.00	0.00	0.00	0.00	0.00	0.32
027355	Dhar Gire	KALPA	Kinnaur	0.53	0.90	0.00	0.00	0.00	0.00	0.00	0.35
027356	Dhar Shothang	KALPA	Kinnaur	0.64	0.90	0.00	0.00	0.00	0.00	0.00	0.38
027357	Dhar Hilap	KALPA	Kinnaur	0.54	0.90	0.00	0.00	0.00	0.00	0.00	0.35
027358	Dhar Ranikanda	KALPA	Kinnaur	0.44	0.90	0.00	0.00	0.00	0.00	0.00	0.31
027359	Dhar Shonchayo	KALPA	Kinnaur	0.44	0.89	0.00	0.00	0.00	0.00	0.00	0.31
027360	Dhar Dumti	KALPA	Kinnaur	0.53	0.88	0.00	0.00	0.00	0.00	0.00	0.34
027361	Dhar Nithal	KALPA	Kinnaur	0.48	0.88	0.00	0.00	0.00	0.00	0.00	0.32
027362	Dhar Karu	KALPA	Kinnaur	0.45	0.88	0.00	0.00	0.00	0.00	0.00	0.31
027363	Dhar Vaspa	KALPA	Kinnaur	0.43	0.87	0.00	0.00	0.00	0.00	0.00	0.30
027364	Dhar Gundar	KALPA	Kinnaur	0.43	0.87	0.00	0.00	0.00	0.00	0.00	0.30
027365	Dhar Jowtya	KALPA	Kinnaur	0.41	0.88	0.00	0.00	0.00	0.00	0.00	0.30
027366	Dhar Nakdum	KALPA	Kinnaur	0.42	0.88	0.00	0.00	0.00	0.00	0.00	0.30
027367	Dhar Arsomage	KALPA	Kinnaur	0.37	0.85	0.00	0.00	0.00	0.00	0.00	0.27
027368	Dhar Chorgaarh	KALPA	Kinnaur	0.34	0.83	0.00	0.00	0.00	0.00	0.00	0.25
027369	Dhar Nakurchhe	KALPA	Kinnaur	0.46	0.83	0.00	0.00	0.00	0.00	0.00	0.30
027370	Dhar Thanda Pani	KALPA	Kinnaur	0.29	0.87	0.00	0.00	0.00	0.79	0.00	0.53
027076	Dhar Taal	NICHAR	Kinnaur	0.56	0.43	0.00	0.00	0.00	0.00	0.00	0.19
027077	Galding	NICHAR	Kinnaur	0.59	0.55	0.02	0.00	0.02	0.01	0.02	0.27
027078	Shamnu	NICHAR	Kinnaur	0.59	0.56	0.02	0.00	0.02	0.01	0.04	0.28
027079	Majhgaon	NICHAR	Kinnaur	0.51	0.56	0.44	0.26	0.44	0.15	0.07	0.77
027080	Nainsaring	NICHAR	Kinnaur	0.69	0.53	0.10	0.00	0.10	0.03	0.02	0.37
027081	Shagarcha	NICHAR	Kinnaur	0.54	0.56	0.23	0.06	0.23	0.08	0.11	0.52
027082	Dabling	NICHAR	Kinnaur	0.67	0.56	0.07	0.01	0.07	0.02	0.05	0.37
027083	Pashpa	NICHAR	Kinnaur	0.77	0.56	0.05	0.00	0.05	0.03	0.01	0.37
027084	Burang	NICHAR	Kinnaur	0.86	0.53	0.04	0.02	0.04	0.04	0.01	0.39
027085	Hurba	NICHAR	Kinnaur	0.74	0.56	0.16	0.03	0.16	0.14	0.07	0.52
027086	Tinrang	NICHAR	Kinnaur	0.69	0.43	0.00	0.00	0.00	0.01	0.01	0.24
027087	D.P.F. Rupi Shorang Awal	NICHAR	Kinnaur	0.42	0.47	0.00	0.00	0.00	0.00	0.00	0.15
027088	D.P.F. Rupi Shorang	NICHAR	Kinnaur	0.59	0.43	0.00	0.00	0.00	0.00	0.00	0.20
027089	Shorang	NICHAR	Kinnaur	0.76	0.70	0.05	0.01	0.05	0.04	0.01	0.42
027090	D.P.F. Bada Kamba C 97	NICHAR	Kinnaur	0.80	0.62	0.00	0.00	0.00	0.00	0.00	0.34
027091	Kumrang Dhar	NICHAR	Kinnaur	0.58	0.43	0.00	0.00	0.00	0.00	0.00	0.20
027092	Dhar Barke	NICHAR	Kinnaur	0.62	0.39	0.00	0.00	0.00	0.00	0.00	0.20
027093	Gharshu	NICHAR	Kinnaur	0.76	0.42	0.06	0.01	0.06	0.02	0.01	0.32
027094	D.P.F.Chhota Kamba	NICHAR	Kinnaur	0.71	0.42	0.02	0.00	0.02	0.01	0.01	0.26
027095	Basharang	NICHAR	Kinnaur	0.66	0.42	0.06	0.00	0.06	0.04	0.09	0.32
027096	D.P.F.Chhota Kamba	NICHAR	Kinnaur	0.60	0.42	0.00	0.00	0.00	0.00	0.00	0.20
027097	Chhota Kamba	NICHAR	Kinnaur	0.78	0.42	0.08	0.03	0.08	0.07	0.02	0.38

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
027098	Tiche	NICHAR	Kinnaur	0.71	0.43	0.02	0.00	0.02	0.01	0.02	0.27
027099	Bara Kamba	NICHAR	Kinnaur	0.68	0.43	0.11	0.04	0.11	0.04	0.08	0.38
027100	Dhar Phopal	NICHAR	Kinnaur	0.63	0.35	0.00	0.00	0.00	0.00	0.00	0.19
027101	D.P.F.C.-94	NICHAR	Kinnaur	0.74	0.42	0.00	0.00	0.00	0.00	0.00	0.25
027102	Salaring	NICHAR	Kinnaur	0.78	0.42	0.03	0.00	0.03	0.00	0.04	0.30
027103	Bayude	NICHAR	Kinnaur	0.68	0.42	0.06	0.00	0.06	0.00	0.01	0.28
027104	Rock Charang	NICHAR	Kinnaur	0.77	0.42	0.02	0.01	0.02	0.00	0.04	0.29
027105	Kachrang	NICHAR	Kinnaur	0.78	0.42	0.03	0.02	0.03	0.00	0.00	0.30
027106	D.P.F.C-93 Dangrang Kachrang	NICHAR	Kinnaur	0.83	0.42	0.00	0.00	0.00	0.00	0.01	0.28
027107	Regegurgur Dhar	NICHAR	Kinnaur	0.78	0.44	0.00	0.00	0.00	0.00	0.00	0.27
027108	Yongrang Dhar	NICHAR	Kinnaur	0.63	0.76	0.00	0.00	0.00	0.00	0.00	0.33
027109	Saak Kanda	NICHAR	Kinnaur	0.60	0.59	0.11	0.00	0.11	0.00	0.10	0.39
027110	D.P.F.C-92	NICHAR	Kinnaur	0.69	0.59	0.01	0.00	0.01	0.00	0.00	0.30
027111	Kandar	NICHAR	Kinnaur	0.84	0.64	0.02	0.01	0.01	0.00	0.01	0.38
027112	Nathpa	NICHAR	Kinnaur	0.77	0.46	0.03	0.02	0.01	0.00	0.00	0.30
027113	Neugal Dhar	NICHAR	Kinnaur	0.48	0.29	0.00	0.00	0.00	0.00	0.00	0.11
027114	Shaling Dhar	NICHAR	Kinnaur	0.71	0.65	0.00	0.00	0.00	0.00	0.00	0.32
027115	Homte	NICHAR	Kinnaur	0.73	0.85	0.21	0.02	0.21	0.00	0.04	0.60
027116	D.P.F.Kampurang C-90	NICHAR	Kinnaur	0.77	0.85	0.00	0.00	0.00	0.00	0.00	0.41
027117	Kafnu	NICHAR	Kinnaur	0.64	0.85	0.16	0.07	0.16	0.00	0.04	0.54
027118	Marpuling	NICHAR	Kinnaur	0.63	0.85	0.23	0.00	0.23	0.00	0.05	0.57
027119	Yangpa	NICHAR	Kinnaur	0.57	0.85	0.66	0.23	0.66	0.00	0.04	1.00
027120	Huri	NICHAR	Kinnaur	0.28	0.85	0.50	0.10	0.50	0.00	0.16	0.76
027121	Masrang	NICHAR	Kinnaur	0.51	0.84	0.03	0.00	0.03	0.00	0.01	0.35
027122	Sharoongch Dhar	NICHAR	Kinnaur	0.69	0.80	0.00	0.00	0.00	0.00	0.00	0.37
027123	Thuskeo Dhar	NICHAR	Kinnaur	0.50	0.33	0.00	0.00	0.00	0.00	0.00	0.13
027124	Chhirem	NICHAR	Kinnaur	0.68	0.85	0.08	0.00	0.08	0.02	0.03	0.46
027125	D.P.F.Yati C-91	NICHAR	Kinnaur	0.78	0.76	0.00	0.00	0.00	0.00	0.00	0.38
027126	Yotrang	NICHAR	Kinnaur	0.53	0.85	0.06	0.00	0.06	0.01	0.01	0.38
027127	Katgaon	NICHAR	Kinnaur	0.70	0.85	0.04	0.13	0.04	0.12	0.05	0.53
027128	Karaba	NICHAR	Kinnaur	0.66	0.85	0.14	0.04	0.14	0.06	0.04	0.54
027129	Pandoshwar Dhar	NICHAR	Kinnaur	0.62	0.73	0.00	0.00	0.00	0.00	0.00	0.32
027130	Surcho	NICHAR	Kinnaur	0.69	0.85	0.05	0.00	0.05	0.04	0.02	0.45
027131	D.P.F.Dutrang C-89	NICHAR	Kinnaur	0.82	0.85	0.00	0.00	0.00	0.00	0.00	0.43
027132	Shango	NICHAR	Kinnaur	0.66	0.85	0.05	0.06	0.05	0.09	0.03	0.48
027133	Baiyee	NICHAR	Kinnaur	0.70	0.85	0.03	0.02	0.03	0.08	0.02	0.46
027134	Rarang	NICHAR	Kinnaur	0.79	0.84	0.00	0.06	0.00	0.05	0.00	0.45
027135	Kangarang	NICHAR	Kinnaur	0.74	0.85	0.04	0.00	0.04	0.02	0.02	0.45
027136	D.P.F.-80	NICHAR	Kinnaur	0.51	0.42	0.00	0.00	0.00	0.00	0.00	0.17
027137	Puje	NICHAR	Kinnaur	0.55	0.42	0.59	0.21	0.59	0.00	0.07	0.79
027138	Agade	NICHAR	Kinnaur	0.61	0.44	0.03	0.02	0.03	0.00	0.00	0.24
027139	Linge	NICHAR	Kinnaur	0.66	0.64	0.28	0.02	0.28	0.00	0.05	0.57
027140	Garade	NICHAR	Kinnaur	0.61	0.50	0.51	0.24	0.51	0.00	0.06	0.77
027141	Kashpo	NICHAR	Kinnaur	0.45	0.47	0.48	0.29	0.48	0.00	0.09	0.71
027142	D.P.F.-81	NICHAR	Kinnaur	0.59	0.62	0.00	0.00	0.00	0.00	0.00	0.27
027143	Nigani	NICHAR	Kinnaur	0.43	0.64	0.61	0.22	0.61	0.00	0.07	0.84
027144	D.P.F.-82	NICHAR	Kinnaur	0.77	0.64	0.00	0.00	0.00	0.00	0.00	0.34
027145	D.P.F.-83	NICHAR	Kinnaur	0.77	0.70	0.00	0.00	0.00	0.00	0.00	0.36
027146	Rango	NICHAR	Kinnaur	0.50	0.63	0.13	0.00	0.13	0.00	0.17	0.41
027147	Rethachang Dhar	NICHAR	Kinnaur	0.69	0.88	0.00	0.00	0.00	0.00	0.00	0.39
027148	Chhot Kanda	NICHAR	Kinnaur	0.51	0.98	0.05	0.00	0.05	0.00	0.05	0.43
027149	Deya Dhar	NICHAR	Kinnaur	0.49	0.98	0.00	0.00	0.00	0.00	0.00	0.36
027150	Somo	NICHAR	Kinnaur	0.85	0.93	0.03	0.00	0.03	0.00	0.05	0.51
027151	Paring Khor	NICHAR	Kinnaur	0.53	0.97	0.06	0.00	0.06	0.00	0.02	0.43

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
027152	Kangosh	NICHAR	Kinnaur	0.55	0.42	0.11	0.08	0.11	0.01	0.00	0.31
027153	D.P.F.-78	NICHAR	Kinnaur	0.41	0.42	0.00	0.01	0.00	0.00	0.00	0.14
027154	Sungra	NICHAR	Kinnaur	0.51	0.42	0.20	0.35	0.20	0.02	0.06	0.49
027155	Punaspa	NICHAR	Kinnaur	0.61	0.42	0.12	0.02	0.12	0.00	0.00	0.31
027156	Saki Charang	NICHAR	Kinnaur	0.52	0.42	0.14	0.08	0.14	0.00	0.00	0.32
027157	Baro	NICHAR	Kinnaur	0.47	0.42	0.25	0.03	0.25	0.00	0.00	0.38
027158	D.P.F.-79	NICHAR	Kinnaur	0.61	0.44	0.00	0.00	0.00	0.00	0.00	0.21
027159	Solding	NICHAR	Kinnaur	0.58	0.42	0.05	0.02	0.05	0.00	0.02	0.25
027160	Palingi	NICHAR	Kinnaur	0.61	0.42	0.18	0.15	0.18	0.00	0.07	0.44
027161	Ponda	NICHAR	Kinnaur	0.54	0.42	0.34	0.10	0.34	0.00	0.08	0.54
027162	Ralpa	NICHAR	Kinnaur	0.64	0.42	0.28	0.04	0.28	0.00	0.03	0.48
027163	Change	NICHAR	Kinnaur	0.62	0.42	0.36	0.20	0.36	0.00	0.04	0.60
027164	Gramang	NICHAR	Kinnaur	0.39	0.42	0.50	0.16	0.50	0.00	0.04	0.62
027165	Rawa	NICHAR	Kinnaur	0.40	0.42	0.18	0.00	0.18	0.00	0.03	0.30
027166	D.P.F.-74	NICHAR	Kinnaur	0.54	0.42	0.00	0.00	0.00	0.00	0.00	0.18
027167	Chhayuda Dhar	NICHAR	Kinnaur	0.47	0.80	0.00	0.00	0.00	0.00	0.00	0.29
027168	D.P.F.-75,76	NICHAR	Kinnaur	0.62	0.42	0.00	0.00	0.00	0.00	0.00	0.21
027169	Rango	NICHAR	Kinnaur	0.48	0.42	0.20	0.00	0.20	0.00	0.28	0.43
027170	D.P.F.-77	NICHAR	Kinnaur	0.68	0.42	0.00	0.00	0.00	0.00	0.00	0.23
027171	Monilaat Dhar	NICHAR	Kinnaur	0.49	0.42	0.00	0.00	0.00	0.00	0.00	0.16
027172	Sarik Dhar	NICHAR	Kinnaur	0.40	0.52	0.00	0.00	0.00	0.00	0.00	0.16
027173	Nigul Sari	NICHAR	Kinnaur	0.71	0.42	0.10	0.16	0.10	0.00	0.02	0.39
027174	Thachh	NICHAR	Kinnaur	0.68	0.42	0.17	0.02	0.17	0.00	0.02	0.38
027175	Chaura	NICHAR	Kinnaur	0.78	0.55	0.09	0.06	0.09	0.00	0.02	0.41
027176	Kafaur	NICHAR	Kinnaur	0.59	0.56	0.10	0.05	0.10	0.00	0.04	0.37
027177	Shilani	NICHAR	Kinnaur	0.65	0.56	0.12	0.02	0.12	0.00	0.07	0.40
027178	D.P.F-68 A,B,C	NICHAR	Kinnaur	0.58	0.53	0.00	0.00	0.00	0.00	0.00	0.23
027179	Sarkund Dhar	NICHAR	Kinnaur	0.42	0.53	0.00	0.00	0.00	0.00	0.00	0.17
027180	D.P.F.69,70	NICHAR	Kinnaur	0.58	0.42	0.00	0.00	0.00	0.00	0.00	0.19
027181	Tikrang	NICHAR	Kinnaur	0.80	0.42	0.11	0.00	0.11	0.00	0.04	0.38
027182	Chhonda	NICHAR	Kinnaur	0.67	0.42	0.35	0.03	0.35	0.00	0.03	0.55
027183	Nanaspo	NICHAR	Kinnaur	0.60	0.42	0.36	0.12	0.36	0.00	0.05	0.57
027184	Karape	NICHAR	Kinnaur	0.74	0.42	0.06	0.02	0.06	0.00	0.07	0.34
027185	Tranda	NICHAR	Kinnaur	0.82	0.42	0.12	0.02	0.12	0.00	0.02	0.40
027186	D.P.F-72	NICHAR	Kinnaur	0.62	0.42	0.04	0.00	0.04	0.00	0.03	0.25
027187	D.P.F-72	NICHAR	Kinnaur	0.51	0.42	0.14	0.00	0.14	0.04	0.04	0.31
027188	D.P.F-Kutange C	NICHAR	Kinnaur	0.50	0.42	0.00	0.00	0.00	0.00	0.00	0.17
027189	D.P.F. Bore C	NICHAR	Kinnaur	0.56	0.42	0.00	0.00	0.00	0.00	0.01	0.19
027190	Phulyari Dhar	NICHAR	Kinnaur	0.48	0.42	0.00	0.00	0.00	0.00	0.00	0.16
027191	Gundali Tirmi Dhar	NICHAR	Kinnaur	0.50	0.42	0.00	0.00	0.00	0.00	0.00	0.17
027192	D.P.F-73 C	NICHAR	Kinnaur	0.72	0.42	0.00	0.00	0.00	0.00	0.00	0.25
027193	Bagantu Dhar	NICHAR	Kinnaur	0.54	0.42	0.00	0.00	0.00	0.00	0.00	0.18
027194	Bahal Dhar	NICHAR	Kinnaur	0.28	0.42	0.00	0.00	0.00	0.99	0.00	0.44
027195	Devli Dhar	NICHAR	Kinnaur	0.40	0.42	0.00	0.00	0.00	0.00	0.00	0.13
027196	Mohal Nishvasingh	NICHAR	Kinnaur	0.44	0.86	0.00	0.00	0.00	0.00	0.00	0.30
027197	Bhum Talas Dhar	NICHAR	Kinnaur	0.55	0.98	0.00	0.00	0.00	0.00	0.00	0.38
027198	Shaling Dhar	NICHAR	Kinnaur	0.62	0.98	0.00	0.00	0.00	0.00	0.01	0.41
027199	Phaktayowar Dhar	NICHAR	Kinnaur	0.52	0.98	0.05	0.00	0.05	0.00	0.02	0.42
027200	D.P.F.-84	NICHAR	Kinnaur	0.67	0.98	0.00	0.00	0.00	0.00	0.00	0.42
027201	Burcha	NICHAR	Kinnaur	0.63	0.98	0.12	0.07	0.12	0.02	0.02	0.55
027202	D.P.F.-85	NICHAR	Kinnaur	0.55	0.98	0.00	0.00	0.00	0.00	0.00	0.38
027203	Joktaring	NICHAR	Kinnaur	0.80	0.98	0.18	0.12	0.18	0.01	0.04	0.69
027204	D.P.F.-86 A	NICHAR	Kinnaur	0.67	0.98	0.01	0.00	0.01	0.00	0.02	0.44
027205	Panwi Khas	NICHAR	Kinnaur	0.67	0.98	0.11	0.13	0.11	0.01	0.04	0.57

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
027206	D.P.F.-86 B	NICHAR	Kinnaur	0.57	0.98	0.00	0.00	0.00	0.00	0.00	0.39
027207	D.P.F.- C 126	NICHAR	Kinnaur	0.78	0.98	0.00	0.00	0.00	0.00	0.00	0.46
027208	D.P.F.- C 127	NICHAR	Kinnaur	0.74	0.98	0.00	0.00	0.00	0.00	0.00	0.45
027209	D.P.F.1 -128 A	NICHAR	Kinnaur	0.81	0.98	0.00	0.00	0.00	0.00	0.00	0.47
027210	Tando Nusko Dhar	NICHAR	Kinnaur	0.75	0.98	0.00	0.00	0.00	0.90	0.00	0.77
027211	Baltha Chang Dhar	NICHAR	Kinnaur	0.75	0.98	0.00	0.00	0.00	0.00	0.00	0.45
027212	Atang Melang Dhar	NICHAR	Kinnaur	0.56	0.98	0.00	0.00	0.00	0.00	0.00	0.39
027213	Yashang Dhar	NICHAR	Kinnaur	0.80	0.96	0.00	0.00	0.00	0.00	0.00	0.46
027214	D.P.F.C - 258 B Tiyudang	NICHAR	Kinnaur	0.66	0.92	0.00	0.00	0.00	0.00	0.00	0.40
027215	D.P.F.Kangarang C-87 A,88 B	NICHAR	Kinnaur	0.77	0.85	0.00	0.00	0.00	0.00	0.00	0.41
027216	Kangarang	NICHAR	Kinnaur	0.78	0.85	0.00	0.00	0.00	0.00	0.01	0.42
027217	D.P.F.Tilchang C-256,257-258A	NICHAR	Kinnaur	0.53	0.88	0.00	0.00	0.00	0.00	0.00	0.34
027218	Shakamrang	NICHAR	Kinnaur	0.76	0.88	0.17	0.01	0.17	0.01	0.16	0.63
027219	Raag Panung	NICHAR	Kinnaur	0.70	0.95	0.03	0.02	0.02	0.01	0.11	0.49
027220	Shakhar Dhar	NICHAR	Kinnaur	0.59	0.85	0.00	0.00	0.00	0.00	0.00	0.35
027221	Chatrang Dhar	NICHAR	Kinnaur	0.32	0.85	0.00	0.00	0.00	0.00	0.00	0.25
027222	Urabaning	NICHAR	Kinnaur	0.78	0.96	0.18	0.03	0.18	0.01	0.01	0.63
027223	Tapri	NICHAR	Kinnaur	0.68	0.97	0.09	0.07	0.02	0.00	0.03	0.51
027224	Dharmaling	NICHAR	Kinnaur	0.48	0.98	0.41	0.54	0.03	0.00	0.06	0.75
027225	Yashang	NICHAR	Kinnaur	0.65	0.98	0.15	0.12	0.10	0.00	0.03	0.58
027226	Rora Kanda	NICHAR	Kinnaur	0.53	0.83	0.00	0.00	0.00	0.00	0.00	0.32
027227	Shunathachang Dhar	NICHAR	Kinnaur	0.48	0.84	0.00	0.00	0.00	0.00	0.00	0.31
027228	D.P.F.-Rachmanang C-254-255	NICHAR	Kinnaur	0.59	0.91	0.00	0.00	0.00	0.00	0.00	0.37
027229	Rall Santhang	NICHAR	Kinnaur	0.61	0.84	0.21	0.01	0.21	0.02	0.23	0.62
027230	Urni Khas	NICHAR	Kinnaur	0.60	0.84	0.41	0.19	0.02	0.02	0.05	0.62
027231	D.P.F.Baragdo C-253	NICHAR	Kinnaur	0.76	0.84	0.00	0.00	0.00	0.00	0.00	0.41
027232	Yulla Khas	NICHAR	Kinnaur	0.60	0.84	0.19	0.03	0.12	0.04	0.15	0.56
027233	Yuldang	NICHAR	Kinnaur	0.70	0.84	0.07	0.00	0.07	0.04	0.07	0.48
027234	Kutano	NICHAR	Kinnaur	0.61	0.84	0.16	0.07	0.03	0.02	0.02	0.47
027235	D.P.F.Bargde C-252	NICHAR	Kinnaur	0.72	0.84	0.00	0.00	0.00	0.00	0.00	0.39
027236	D.P.F.Tilchoka C-251	NICHAR	Kinnaur	0.57	0.84	0.00	0.00	0.00	0.00	0.00	0.34
027237	Meeru Khas	NICHAR	Kinnaur	0.67	0.84	0.22	0.06	0.01	0.05	0.04	0.52
027238	D.P.F.Balaey C-250	NICHAR	Kinnaur	0.65	0.84	0.00	0.00	0.00	0.00	0.00	0.37
027239	D.P.F.Kashtee C-249	NICHAR	Kinnaur	0.53	0.84	0.00	0.00	0.00	0.84	0.00	0.62
027240	Ghumaruning	NICHAR	Kinnaur	0.70	0.84	0.01	0.00	0.01	0.07	0.00	0.42
027241	Rukchawal Dhar	NICHAR	Kinnaur	0.60	0.84	0.00	0.00	0.00	0.00	0.00	0.35
027242	Runang Uperla	NICHAR	Kinnaur	0.66	0.84	0.03	0.00	0.03	0.01	0.06	0.42
027243	D.P.F.Runang C-248	NICHAR	Kinnaur	0.76	0.84	0.00	0.00	0.00	0.01	0.00	0.41
027244	Runang Nichla	NICHAR	Kinnaur	0.50	0.84	0.08	0.02	0.01	0.02	0.01	0.37
027245	Cholling	NICHAR	Kinnaur	0.59	0.84	0.08	0.07	0.00	0.19	0.02	0.48
027246	D.P.F. Kangsthal 128 B,129	NICHAR	Kinnaur	0.74	0.98	0.00	0.00	0.00	0.00	0.00	0.45
027247	Kagsthal	NICHAR	Kinnaur	0.69	0.98	0.00	0.00	0.00	0.01	0.01	0.44
027248	Jani	NICHAR	Kinnaur	0.74	0.98	0.06	0.03	0.06	0.01	0.02	0.53
027249	Ramni Khas	NICHAR	Kinnaur	0.66	0.98	0.09	0.08	0.09	0.03	0.03	0.55
027250	Shuthanang	NICHAR	Kinnaur	0.76	0.98	0.12	0.00	0.12	0.00	0.04	0.57
027251	Boring Chot Dhar	NICHAR	Kinnaur	0.50	0.98	0.00	0.00	0.00	0.00	0.00	0.36
027252	Roshang Dhar	NICHAR	Kinnaur	0.54	0.98	0.00	0.00	0.00	0.00	0.00	0.38
027253	Morang Kanda	NICHAR	Kinnaur	0.65	0.98	0.03	0.00	0.03	0.00	0.03	0.46
027254	D.P.F Ramni	NICHAR	Kinnaur	0.56	0.98	0.00	0.00	0.00	0.00	0.00	0.38
027255	D.P.F.Jani-131-132 A.B	NICHAR	Kinnaur	0.63	0.98	0.00	0.00	0.00	0.00	0.00	0.41
027256	Kalingo	NICHAR	Kinnaur	0.62	0.98	0.39	0.00	0.39	0.00	0.01	0.74
027257	Upat Dhar	NICHAR	Kinnaur	0.50	0.98	0.00	0.00	0.00	0.00	0.00	0.37
027258	Chhal Patri Dhar	NICHAR	Kinnaur	0.60	0.98	0.00	0.00	0.00	0.00	0.00	0.40
027259	Dulgi Dhar	NICHAR	Kinnaur	0.60	0.98	0.00	0.00	0.00	0.00	0.00	0.40

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
027260	Solah Dhar	NICHAR	Kinnaur	0.72	0.94	0.00	0.00	0.00	0.00	0.00	0.43
027261	Punang Kanda	NICHAR	Kinnaur	0.69	0.97	0.00	0.00	0.00	0.00	0.08	0.45
027262	D.P.F.Punang 133-136	NICHAR	Kinnaur	0.73	0.94	0.00	0.00	0.00	0.00	0.00	0.43
027263	Punang Khas	NICHAR	Kinnaur	0.66	0.96	0.23	0.24	0.02	0.01	0.03	0.61
026714	Sumra	POOH	Kinnaur	0.58	0.57	0.17	0.03	0.00	0.00	0.04	0.34
026715	Dhar Langtharkheyu	POOH	Kinnaur	0.63	0.57	0.00	0.00	0.00	0.00	0.00	0.26
026716	Dhar Harmi	POOH	Kinnaur	0.54	0.57	0.00	0.00	0.00	0.00	0.00	0.23
026717	Dhar Phu	POOH	Kinnaur	0.56	0.61	1.00	0.00	1.00	0.00	0.00	0.48
026718	Dhar Kukri	POOH	Kinnaur	0.54	0.70	0.00	0.00	0.00	0.00	0.00	0.28
026719	Dhar Liyosu	POOH	Kinnaur	0.46	0.83	1.00	0.00	1.00	0.00	0.00	0.75
026720	Dhar Demchu	POOH	Kinnaur	0.55	0.85	0.00	0.00	0.00	0.75	0.00	0.60
026721	Thang Karma	POOH	Kinnaur	0.32	0.91	0.01	0.00	0.00	0.00	0.01	0.28
026722	Dhar Yang Pochhe	POOH	Kinnaur	0.52	0.91	0.00	0.00	0.00	0.00	0.00	0.34
026723	Dhar Pijong	POOH	Kinnaur	0.49	0.87	0.00	0.00	0.00	0.00	0.00	0.32
026724	Dhar Kawe	POOH	Kinnaur	0.46	0.82	0.00	0.00	0.00	0.00	0.00	0.30
026725	Shalkar	POOH	Kinnaur	0.32	0.82	0.97	0.04	0.89	0.00	0.00	0.60
026726	Dhar Mandasa	POOH	Kinnaur	0.56	0.82	0.00	0.00	0.00	0.00	0.00	0.33
026727	Dhar Dugona	POOH	Kinnaur	0.58	0.82	0.00	0.00	0.00	0.85	0.00	0.64
026728	Dhar Yungdang	POOH	Kinnaur	0.50	0.82	0.00	0.00	0.00	0.00	0.00	0.31
026729	Changjam	POOH	Kinnaur	0.40	0.82	0.00	0.00	0.00	0.00	0.01	0.27
026730	Dhar Chango Uperla	POOH	Kinnaur	0.34	0.82	0.37	0.08	0.03	0.00	0.01	0.45
026731	Dhar Chango Nichla	POOH	Kinnaur	0.29	0.82	0.13	0.05	0.00	0.00	0.01	0.31
026732	Dhar Kumsa	POOH	Kinnaur	0.59	0.82	0.00	0.00	0.00	0.00	0.00	0.34
026733	Dhar Pargira	POOH	Kinnaur	0.50	0.83	0.00	0.00	0.00	0.00	0.00	0.31
026734	Dhar Khirpichi	POOH	Kinnaur	0.42	0.83	0.00	0.00	0.00	0.00	0.00	0.28
026735	Hemi	POOH	Kinnaur	0.32	0.83	0.00	0.00	0.00	0.00	0.00	0.25
026736	Liti	POOH	Kinnaur	0.42	0.83	0.04	0.00	0.00	0.00	0.00	0.30
026737	Yulang	POOH	Kinnaur	0.60	0.83	0.03	0.00	0.00	0.00	0.00	0.36
026738	Dhar Lauechhe	POOH	Kinnaur	0.45	0.83	0.00	0.00	0.00	0.00	0.00	0.29
026739	Dhar Choniti	POOH	Kinnaur	0.44	0.82	0.00	0.00	0.00	0.00	0.00	0.29
026740	Dhar Bhajang	POOH	Kinnaur	0.38	0.83	0.00	0.00	0.00	0.00	0.00	0.27
026741	Dhar Lipak	POOH	Kinnaur	0.42	0.67	0.00	0.00	0.00	0.00	0.00	0.22
026742	Dhar Jabar	POOH	Kinnaur	0.44	0.67	0.00	0.00	0.00	0.00	0.00	0.23
026743	Dhar Karsi	POOH	Kinnaur	0.49	0.83	0.00	0.00	0.00	0.00	0.00	0.30
026744	Dhar Chara Thang	POOH	Kinnaur	0.68	0.82	0.00	0.00	0.00	0.00	0.00	0.37
026745	Dhar Khakrash	POOH	Kinnaur	0.62	0.74	0.00	0.00	0.00	0.00	0.00	0.32
026746	Malling Dogri	POOH	Kinnaur	0.55	0.83	0.05	0.00	0.00	0.95	0.00	0.69
026747	Malling	POOH	Kinnaur	0.42	0.83	0.07	0.03	0.00	0.93	0.00	0.65
026748	Dhar Shansar	POOH	Kinnaur	0.28	0.83	0.00	0.00	0.00	0.00	0.00	0.23
026749	Nako	POOH	Kinnaur	0.25	0.83	0.19	0.06	0.00	0.00	0.00	0.32
026750	Yangthang	POOH	Kinnaur	0.49	0.78	0.02	0.00	0.00	0.98	0.00	0.64
026751	Leo	POOH	Kinnaur	0.51	0.72	0.45	0.08	0.31	0.52	0.00	0.81
026752	Shuni	POOH	Kinnaur	0.66	0.66	0.02	0.00	0.00	0.00	0.00	0.31
026753	Dhar Thana	POOH	Kinnaur	0.61	0.66	0.00	0.00	0.00	0.00	0.00	0.29
026754	Dhar Dumdumthang	POOH	Kinnaur	0.57	0.66	0.00	0.00	0.00	0.00	0.00	0.27
026755	Dhar Pegdu	POOH	Kinnaur	0.47	0.66	0.00	0.00	0.00	0.00	0.00	0.24
026756	Dhar Biepuche	POOH	Kinnaur	0.53	0.66	0.00	0.00	0.00	0.00	0.00	0.26
026757	Dhar Potali	POOH	Kinnaur	0.40	0.66	0.00	0.00	0.00	0.00	0.00	0.21
026758	Dhar Chang Chimo	POOH	Kinnaur	0.52	0.66	0.00	0.00	0.00	0.00	0.00	0.26
026759	Chang Chimo	POOH	Kinnaur	0.51	0.66	0.00	0.00	0.00	0.00	0.00	0.25
026760	Hango	POOH	Kinnaur	0.41	0.66	0.11	0.03	0.00	0.89	0.00	0.59
026761	Dung	POOH	Kinnaur	0.46	0.66	0.02	0.13	0.00	0.98	0.00	0.64
026762	Hangmat	POOH	Kinnaur	0.46	0.66	0.37	0.02	0.26	0.00	0.00	0.51
026763	Dhar Pusang Dang	POOH	Kinnaur	0.55	0.66	0.00	0.00	0.00	0.00	0.00	0.27

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
026764	Chuling	POOH	Kinnaur	0.54	0.66	0.09	0.02	0.00	0.91	0.00	0.63
026765	Dhar Lasangthang	POOH	Kinnaur	0.69	0.66	0.00	0.00	0.00	0.00	0.00	0.32
026766	Dhar Lambrafa	POOH	Kinnaur	0.82	0.66	0.00	0.00	0.00	0.00	0.00	0.36
026767	Ka	POOH	Kinnaur	0.54	0.66	0.00	0.00	0.00	1.00	0.00	0.62
026768	Dhar Lahyok	POOH	Kinnaur	0.41	0.75	0.00	0.00	0.00	0.00	0.00	0.25
026769	Dhar Lalosa	POOH	Kinnaur	0.41	0.83	0.00	0.00	0.00	0.00	0.00	0.28
026770	Dhar Kila	POOH	Kinnaur	0.48	0.69	0.00	0.00	0.00	0.00	0.00	0.25
026771	Dhar Manela	POOH	Kinnaur	0.58	0.65	0.00	0.00	0.00	0.00	0.00	0.28
026772	Dhar Larsa Niyowal	POOH	Kinnaur	0.55	0.68	0.00	0.00	0.00	0.00	0.00	0.28
026773	Up Mohal Thoropa	POOH	Kinnaur	0.63	0.76	0.11	0.00	0.00	0.00	0.00	0.38
026774	Dhar Chang Guar Guar	POOH	Kinnaur	0.52	0.74	0.00	0.00	0.00	0.00	0.00	0.29
026775	Up Mohal Ropakhas	POOH	Kinnaur	0.53	0.76	0.14	0.05	0.00	0.05	0.04	0.40
026776	D.P.F.C-205	POOH	Kinnaur	0.51	0.76	0.00	0.00	0.00	0.00	0.00	0.29
026777	Up Mohal Sumtat	POOH	Kinnaur	0.65	0.76	0.17	0.02	0.00	0.00	0.00	0.42
026778	D.P.F.C-204	POOH	Kinnaur	0.65	0.76	0.00	0.00	0.00	0.00	0.00	0.34
026779	Up Mohal Shive	POOH	Kinnaur	0.56	0.76	0.01	0.00	0.00	0.00	0.00	0.31
026780	D.P.F.C-201	POOH	Kinnaur	0.79	0.76	0.00	0.00	0.00	0.00	0.00	0.39
026781	D.P.F.C-200	POOH	Kinnaur	0.63	0.76	0.00	0.00	0.00	0.00	0.00	0.33
026782	Up Mohal Charti	POOH	Kinnaur	0.57	0.76	0.00	0.00	0.00	1.00	0.00	0.66
026783	D.P.F.C-202	POOH	Kinnaur	0.68	0.76	0.00	0.00	0.00	0.00	0.00	0.35
026784	D.P.F.C-203	POOH	Kinnaur	0.32	0.76	0.00	0.00	0.00	0.00	0.00	0.22
026785	Up Mohal Giabong Khas	POOH	Kinnaur	0.40	0.76	0.33	0.04	0.00	0.01	0.03	0.41
026786	Up Mohal Giabong Parla	POOH	Kinnaur	0.56	0.76	0.08	0.06	0.00	0.92	0.00	0.69
026787	D.P.F.C-208	POOH	Kinnaur	0.53	0.76	0.00	0.00	0.00	0.00	0.00	0.30
026788	D.P.F.C-207	POOH	Kinnaur	0.68	0.76	0.00	0.00	0.00	0.00	0.00	0.35
026789	D.P.F.C-206	POOH	Kinnaur	0.63	0.76	0.00	0.00	0.00	0.00	0.00	0.33
026790	Up Mohal Jang Phachho	POOH	Kinnaur	0.46	0.76	0.00	0.00	0.00	0.00	0.00	0.27
026791	Dhar Khabai	POOH	Kinnaur	0.51	0.76	0.00	0.00	0.00	0.00	0.00	0.29
026792	Up Mohal Brati Kanda	POOH	Kinnaur	0.54	0.76	0.02	0.00	0.00	0.04	0.05	0.34
026793	D.P.F.C-209	POOH	Kinnaur	0.65	0.76	0.00	0.00	0.00	0.00	0.00	0.34
026794	Up Mohal Taling	POOH	Kinnaur	0.53	0.76	0.09	0.02	0.00	0.00	0.00	0.34
026795	Up Mohal Rush Kulang	POOH	Kinnaur	0.43	0.76	0.20	0.04	0.00	0.00	0.00	0.36
026796	Up Mohal Sunam Khas	POOH	Kinnaur	0.58	0.76	0.16	0.11	0.00	0.03	0.02	0.44
026797	Up Mohal Chelit Kanda	POOH	Kinnaur	0.60	0.76	0.02	0.00	0.00	0.00	0.00	0.33
026798	Up Mohal Khad Makha	POOH	Kinnaur	0.55	0.76	0.00	0.00	0.00	1.00	0.00	0.66
026799	Dhupak	POOH	Kinnaur	0.57	0.76	0.11	0.00	0.00	0.00	0.00	0.35
026800	D.P.F.C-210	POOH	Kinnaur	0.61	0.76	0.00	0.00	0.00	0.00	0.00	0.33
026801	Up Mohal Chelit	POOH	Kinnaur	0.75	0.76	0.00	0.00	0.00	0.00	0.00	0.37
026802	Dhar Binathang	POOH	Kinnaur	0.60	0.76	0.00	0.00	0.00	0.00	0.00	0.32
026803	Up Mohal Shurpu	POOH	Kinnaur	0.60	0.65	0.15	0.00	0.00	0.13	0.07	0.42
026804	Up Mohal Tapang Kanda	POOH	Kinnaur	0.54	0.64	0.21	0.00	0.00	0.04	0.21	0.43
026805	Dhar Mandal Gurunag	POOH	Kinnaur	0.46	0.65	0.00	0.00	0.00	0.00	0.00	0.23
026806	D.P.F.C-212	POOH	Kinnaur	0.44	0.64	0.00	0.00	0.00	0.00	0.00	0.22
026807	Up Mohal Labrang Khas	POOH	Kinnaur	0.47	0.64	0.50	0.18	0.00	0.12	0.28	0.64
026808	Up Mohal Namkalang	POOH	Kinnaur	0.58	0.64	0.28	0.01	0.00	0.23	0.02	0.48
026809	Up Mohal Foche	POOH	Kinnaur	0.46	0.64	0.00	0.00	0.00	0.00	0.00	0.23
026810	D.P.F.C-214	POOH	Kinnaur	0.53	0.64	0.00	0.00	0.00	0.00	0.00	0.25
026811	Up Mohal Spiloo Khas	POOH	Kinnaur	0.56	0.64	0.17	0.05	0.00	0.04	0.01	0.37
026812	D.P.F.C-213	POOH	Kinnaur	0.51	0.64	0.00	0.00	0.00	0.00	0.00	0.25
026813	Up Mohal Kanam Khas	POOH	Kinnaur	0.47	0.64	0.38	0.19	0.00	0.15	0.02	0.52
026814	D.P.F.C-211	POOH	Kinnaur	0.60	0.64	0.00	0.00	0.00	0.00	0.00	0.28
026815	Up Mohal Kanam Nichla	POOH	Kinnaur	0.56	0.67	0.16	0.04	0.00	0.05	0.01	0.37
026816	Up Mohal Gyamil	POOH	Kinnaur	0.66	0.83	0.01	0.00	0.00	0.11	0.00	0.41
026817	Dhar Gyabyum	POOH	Kinnaur	0.71	0.83	0.00	0.00	0.00	0.17	0.00	0.45

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
026818	Dhar Dumba	POOH	Kinnaur	0.73	0.83	0.00	0.00	0.00	0.55	0.00	0.59
026819	Up Mohal Shyaso	POOH	Kinnaur	0.65	0.76	0.02	0.00	0.00	0.24	0.00	0.44
026820	Dhar Chho	POOH	Kinnaur	0.63	0.79	0.00	0.00	0.00	0.00	0.00	0.34
026821	Dhar Aye	POOH	Kinnaur	0.61	0.84	0.00	0.00	0.00	0.94	0.00	0.69
026822	Up Mohal Rizing Kanda	POOH	Kinnaur	0.70	0.83	0.05	0.00	0.00	0.00	0.01	0.41
026823	Up Mohal Danmochhe	POOH	Kinnaur	0.50	0.93	0.22	0.03	0.00	0.00	0.01	0.45
026824	Up Mohal Labrang	POOH	Kinnaur	0.52	0.93	0.37	0.14	0.00	0.00	0.15	0.61
026825	Up Mohal Poo	POOH	Kinnaur	0.57	0.93	0.14	0.15	0.00	0.00	0.03	0.49
026826	Up Mohal Doling Kanda	POOH	Kinnaur	0.44	0.93	0.01	0.00	0.00	0.00	0.02	0.34
026827	Dhar Dolma	POOH	Kinnaur	0.72	0.87	0.00	0.00	0.00	0.00	0.00	0.40
026828	Up Mohal Chakulang	POOH	Kinnaur	1.00	0.88	0.07	0.00	0.00	0.00	0.03	0.55
026829	Up Mohal Khabo	POOH	Kinnaur	0.72	0.88	0.02	0.00	0.00	0.00	0.01	0.42
026830	Up Mohal Namgia Kanda	POOH	Kinnaur	0.60	0.89	0.07	0.00	0.00	0.00	0.11	0.44
026831	Up Mohal Namgia Khas	POOH	Kinnaur	0.73	0.89	0.12	0.02	0.00	0.00	0.02	0.47
026832	Up Mohal Tashi Gang	POOH	Kinnaur	0.69	0.89	0.04	0.00	0.00	0.00	0.04	0.43
026833	Dhar Potal	POOH	Kinnaur	0.76	0.87	0.00	0.00	0.00	0.00	0.00	0.42
026834	Dhar Chhopan	POOH	Kinnaur	0.65	0.89	0.00	0.00	0.00	0.00	0.00	0.38
026835	Dhar Yangusa	POOH	Kinnaur	0.61	0.89	0.00	0.00	0.00	0.00	0.00	0.37
026836	Up Mohal Thunsa Kanda	POOH	Kinnaur	0.58	0.88	0.00	0.00	0.00	0.00	0.07	0.38
026837	Dhar Dulse Thang	POOH	Kinnaur	0.50	0.88	0.00	0.00	0.00	0.00	0.00	0.33
026838	Up Mohal Dulse Thang	POOH	Kinnaur	0.66	0.88	0.00	0.00	0.00	0.00	0.01	0.39
026839	Dhar Thunsa	POOH	Kinnaur	0.55	0.89	0.00	0.00	0.00	0.00	0.00	0.35
026840	Up Mohal Yangti Kanda	POOH	Kinnaur	0.71	0.88	0.00	0.00	0.00	0.00	0.01	0.41
026841	Up Mohal Dubling	POOH	Kinnaur	0.70	0.92	0.11	0.04	0.00	0.00	0.39	0.61
026842	Mohal Bali Dhar	POOH	Kinnaur	0.66	0.93	0.00	0.00	0.00	0.00	0.00	0.40
026843	D.P.F.C-199	POOH	Kinnaur	0.52	0.93	0.00	0.00	0.00	0.00	0.00	0.36
026844	Up Mohal Dabling	POOH	Kinnaur	0.63	0.93	0.05	0.00	0.00	0.00	0.03	0.42
026845	D.P.F.C-198	POOH	Kinnaur	0.67	0.93	0.00	0.00	0.00	0.00	0.00	0.41
026846	Up Mohal Rishi Kanda	POOH	Kinnaur	0.59	0.93	0.00	0.00	0.00	0.00	0.00	0.38
026847	Dhar Maryul	POOH	Kinnaur	0.53	0.93	0.00	0.00	0.00	0.00	0.00	0.36
026848	Dhar yang Dogsa	POOH	Kinnaur	0.66	0.92	0.00	0.00	0.00	0.00	0.00	0.40
026849	Dhar Yurfuk	POOH	Kinnaur	0.58	0.93	0.00	0.00	0.00	0.00	0.00	0.38
026850	Dhar Rishi	POOH	Kinnaur	0.47	0.93	0.00	0.00	0.00	0.00	0.00	0.34
026851	Horang Pawa	POOH	Kinnaur	0.74	0.91	0.02	0.00	0.00	0.00	0.00	0.43
026852	Dhar Piwung	POOH	Kinnaur	0.74	0.93	0.00	0.00	0.00	0.00	0.00	0.43
026853	Nesang Khas	POOH	Kinnaur	0.59	0.95	0.07	0.02	0.01	0.03	0.00	0.44
026854	Shaktang	POOH	Kinnaur	0.68	0.95	0.00	0.00	0.00	0.01	0.03	0.43
026855	Dhar Doge	POOH	Kinnaur	0.67	0.95	0.00	0.00	0.00	0.00	0.00	0.42
026856	Gyamting	POOH	Kinnaur	0.81	0.95	0.00	0.00	0.00	0.00	0.03	0.47
026857	Dhar Warchha	POOH	Kinnaur	0.68	0.94	0.00	0.00	0.00	0.00	0.00	0.41
026858	Piana	POOH	Kinnaur	0.71	0.95	0.00	0.00	0.00	0.01	0.06	0.46
026859	Khadi	POOH	Kinnaur	0.73	0.95	0.00	0.00	0.00	0.00	0.03	0.45
026860	Dhar Tipung	POOH	Kinnaur	0.63	0.95	0.00	0.00	0.00	0.00	0.00	0.40
026861	Dhar Rothen	POOH	Kinnaur	0.55	0.91	0.00	0.00	0.00	0.00	0.04	0.37
026862	Dhar Lungpha	POOH	Kinnaur	0.66	0.84	0.00	0.00	0.00	0.00	0.00	0.37
026863	Dhar Joganchan	POOH	Kinnaur	0.50	0.85	0.00	0.00	0.00	0.00	0.00	0.32
026864	Jagechan	POOH	Kinnaur	0.42	0.84	0.00	0.00	0.00	0.00	0.00	0.28
026865	Dhar Chamangti	POOH	Kinnaur	0.39	0.85	0.00	0.00	0.00	0.00	0.00	0.28
026866	Dhar Lung Kurkur	POOH	Kinnaur	0.51	0.84	0.00	0.00	0.00	0.00	0.00	0.31
026867	Dhar Lawar	POOH	Kinnaur	0.56	0.84	0.00	0.00	0.00	0.00	0.00	0.33
026868	Dhar Tepang	POOH	Kinnaur	0.46	0.67	0.65	0.00	0.65	0.00	0.00	0.27
026869	Shuti Garang	POOH	Kinnaur	0.57	0.67	0.00	0.00	0.00	0.00	0.00	0.28
026870	Dhar Gunjang	POOH	Kinnaur	0.43	0.66	0.00	0.00	0.00	0.00	0.00	0.22
026871	Dhar Wari	POOH	Kinnaur	0.49	0.76	0.00	0.00	0.00	0.00	0.00	0.28

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
026872	Becho Thach	POOH	Kinnaur	0.52	0.77	0.00	0.00	0.00	0.00	0.08	0.32
026873	Dhar Bhang Mochhe	POOH	Kinnaur	0.55	0.74	0.00	0.00	0.00	0.00	0.00	0.30
026874	Dhar Shyangla	POOH	Kinnaur	0.53	0.77	0.00	0.00	0.00	0.00	0.00	0.30
026875	Fulang Thach	POOH	Kinnaur	0.72	0.77	0.00	0.00	0.00	0.00	0.10	0.40
026876	Dhar Kagte	POOH	Kinnaur	0.59	0.77	0.00	0.00	0.00	0.00	0.00	0.32
026877	Dhar Kyari	POOH	Kinnaur	0.48	0.77	0.00	0.00	0.00	0.00	0.00	0.28
026878	Porang Kanda	POOH	Kinnaur	0.68	0.77	0.16	0.00	0.00	0.01	0.04	0.44
026879	Tokto	POOH	Kinnaur	0.64	0.77	0.14	0.02	0.00	0.10	0.06	0.46
026880	Dhar Mateng	POOH	Kinnaur	0.55	0.77	0.00	0.00	0.00	0.00	0.00	0.31
026881	Dhar Begulum	POOH	Kinnaur	0.52	0.77	0.00	0.00	0.00	0.00	0.00	0.30
026882	Dangrang Kanda	POOH	Kinnaur	0.62	0.77	0.04	0.00	0.04	0.03	0.03	0.38
026883	Dhar Changmang	POOH	Kinnaur	0.54	0.76	0.00	0.00	0.00	0.00	0.00	0.30
026884	Changmang	POOH	Kinnaur	0.48	0.77	0.05	0.00	0.00	0.00	0.00	0.30
026885	D.P.F. C-216	POOH	Kinnaur	0.58	0.77	0.00	0.00	0.00	0.00	0.00	0.32
026886	Chakra	POOH	Kinnaur	0.63	0.77	0.09	0.00	0.00	0.03	0.01	0.38
026887	Lippa Khas	POOH	Kinnaur	0.59	0.77	0.23	0.09	0.00	0.00	0.03	0.46
026888	D.P.F.C-220	POOH	Kinnaur	0.59	0.77	0.00	0.00	0.00	0.00	0.00	0.32
026889	D.P.F.C-217	POOH	Kinnaur	0.59	0.77	0.00	0.00	0.00	0.00	0.00	0.32
026890	Lapo	POOH	Kinnaur	0.46	0.77	0.20	0.00	0.00	0.02	0.06	0.39
026891	D.P.F- C 218	POOH	Kinnaur	0.52	0.77	0.00	0.00	0.00	0.03	0.04	0.32
026892	Asrang Khas	POOH	Kinnaur	0.56	0.77	0.20	0.03	0.00	0.02	0.07	0.44
026893	D.P.F. C-219	POOH	Kinnaur	0.77	0.77	0.00	0.00	0.00	0.00	0.00	0.38
026894	D.P.F .C-219	POOH	Kinnaur	0.29	0.77	0.00	0.00	0.00	0.00	0.00	0.22
026895	Dhar Urang	POOH	Kinnaur	0.53	0.77	0.00	0.00	0.00	0.00	0.00	0.30
026896	Gyangra	POOH	Kinnaur	0.49	0.82	0.01	0.00	0.01	0.05	0.00	0.32
026897	Saring	POOH	Kinnaur	0.57	0.77	0.00	0.00	0.00	0.00	0.04	0.33
026898	D.P.F C -232	POOH	Kinnaur	0.69	0.73	0.00	0.00	0.00	0.00	0.00	0.34
026899	D.P.F.C-231	POOH	Kinnaur	0.45	0.83	0.00	0.00	0.00	0.00	0.00	0.30
026900	Sheelapur	POOH	Kinnaur	0.72	0.80	0.12	0.02	0.00	0.05	0.00	0.45
026901	D.P.F.C-230	POOH	Kinnaur	0.53	0.83	0.00	0.00	0.00	0.00	0.00	0.32
026902	Swaden	POOH	Kinnaur	0.72	0.83	0.15	0.02	0.00	0.10	0.02	0.50
026903	Dhar Gongra	POOH	Kinnaur	0.57	0.82	0.00	0.00	0.00	0.00	0.00	0.33
026904	Dhar Khatij	POOH	Kinnaur	0.70	0.80	0.00	0.00	0.00	0.00	0.00	0.37
026905	Chhappan	POOH	Kinnaur	0.52	0.77	0.00	0.00	0.00	0.00	0.12	0.34
026906	D.P.F.C -221	POOH	Kinnaur	0.50	0.77	0.00	0.00	0.00	0.00	0.00	0.29
026907	D.P.F.C-222	POOH	Kinnaur	0.66	0.77	0.00	0.00	0.00	0.00	0.00	0.35
026908	Rijing	POOH	Kinnaur	0.72	0.77	0.26	0.02	0.00	0.11	0.21	0.60
026909	D.P.F.C-223	POOH	Kinnaur	0.73	0.77	0.00	0.00	0.00	0.00	0.00	0.37
026910	D.P.F.C-225	POOH	Kinnaur	0.69	0.77	0.00	0.00	0.00	0.00	0.00	0.36
026911	D.P.F.C-215	POOH	Kinnaur	0.67	0.76	0.00	0.00	0.00	0.00	0.00	0.34
026912	Kutang	POOH	Kinnaur	0.75	0.76	0.11	0.00	0.00	0.00	0.04	0.43
026913	Dhar Shiling Khona	POOH	Kinnaur	0.65	0.73	0.00	0.00	0.00	0.00	0.00	0.33
026914	Nakal Kuwa	POOH	Kinnaur	0.64	0.64	0.01	0.00	0.00	0.00	0.02	0.31
026915	Samodpan Kanda	POOH	Kinnaur	0.63	0.95	0.01	0.00	0.00	0.01	0.01	0.41
026916	Dhar Timchhe	POOH	Kinnaur	0.71	0.83	0.00	0.00	0.00	0.00	0.00	0.38
026917	Thuwaring	POOH	Kinnaur	0.55	0.83	0.13	0.03	0.03	0.02	0.02	0.42
026918	Gramang	POOH	Kinnaur	0.62	0.83	0.27	0.09	0.01	0.06	0.02	0.53
026919	Jangi Khas	POOH	Kinnaur	0.53	0.83	0.14	0.07	0.00	0.01	0.02	0.41
026920	D.P.F.C-224	POOH	Kinnaur	0.74	0.81	0.00	0.00	0.00	0.00	0.00	0.39
026921	D.P.F.C-226	POOH	Kinnaur	0.47	0.83	0.00	0.00	0.00	0.00	0.00	0.30
026922	D.P.F.C-227	POOH	Kinnaur	0.36	0.83	0.00	0.00	0.00	0.00	0.00	0.26
026923	Dhar Jubling	POOH	Kinnaur	0.30	0.83	0.00	0.00	0.00	0.00	0.00	0.24
026924	Ringchil Kanda	POOH	Kinnaur	0.53	0.83	0.07	0.00	0.00	0.00	0.00	0.35
026925	Satera	POOH	Kinnaur	0.59	0.83	0.01	0.00	0.00	0.00	0.01	0.35

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
026926	D.P.F.C-228	POOH	Kinnaur	0.45	0.83	0.00	0.00	0.00	0.00	0.00	0.29
026927	Khadura	POOH	Kinnaur	0.55	0.83	0.19	0.04	0.00	0.06	0.00	0.44
026928	D.P.F.C-229	POOH	Kinnaur	0.58	0.83	0.00	0.00	0.00	0.00	0.00	0.34
026929	Rarang Khas	POOH	Kinnaur	0.54	0.83	0.32	0.17	0.00	0.08	0.04	0.56
026930	Paranga	POOH	Kinnaur	0.75	0.83	0.19	0.01	0.00	0.05	0.01	0.51
026931	D.P.F.C- 187	POOH	Kinnaur	0.76	0.83	0.04	0.00	0.00	0.00	0.00	0.42
026932	D.P.F.C-186	POOH	Kinnaur	0.31	0.83	0.00	0.00	0.00	0.00	0.00	0.24
026933	Sirmoling	POOH	Kinnaur	0.72	0.83	0.13	0.00	0.00	0.16	0.08	0.53
026934	Chhuyian	POOH	Kinnaur	0.63	0.83	0.32	0.00	0.00	0.02	0.07	0.53
026935	Dhar Jeshtharang	POOH	Kinnaur	0.34	0.81	0.00	0.00	0.00	0.00	0.00	0.25
026936	Dhar Puranga	POOH	Kinnaur	0.35	0.78	0.00	0.00	0.00	0.33	0.00	0.36
026937	Bato	POOH	Kinnaur	0.21	0.83	0.32	0.00	0.00	0.10	0.00	0.38
026938	D.P.F.C-188	POOH	Kinnaur	0.30	0.83	0.02	0.00	0.00	0.00	0.00	0.25
026939	Kutian	POOH	Kinnaur	0.58	0.83	0.83	0.15	0.00	0.05	0.02	0.77
026940	Ribba Khas	POOH	Kinnaur	0.39	0.83	0.70	0.52	0.00	0.12	0.03	0.80
026941	Holdang	POOH	Kinnaur	0.31	0.83	0.61	0.13	0.00	0.08	0.01	0.58
026942	Skiba	POOH	Kinnaur	0.40	0.83	0.23	0.08	0.04	0.02	0.07	0.45
026943	Akpa Khas	POOH	Kinnaur	0.58	0.83	0.13	0.04	0.00	0.09	0.02	0.45
026944	Up Muhal Holdo	POOH	Kinnaur	0.47	0.83	0.15	0.01	0.02	0.00	0.04	0.39
026945	Rispa Khas	POOH	Kinnaur	0.41	0.83	0.02	0.11	0.00	0.03	0.54	0.53
026946	Lijing	POOH	Kinnaur	0.39	0.83	0.12	0.01	0.02	0.43	0.00	0.49
026947	Khokpa	POOH	Kinnaur	0.53	0.83	0.17	0.04	0.00	0.00	0.02	0.41
026948	D.P.F.C-197	POOH	Kinnaur	0.69	0.83	0.00	0.00	0.00	0.00	0.00	0.38
026949	Shiling Khas	POOH	Kinnaur	0.44	0.83	0.21	0.09	0.00	0.03	0.03	0.43
026950	Shurboo Kanda	POOH	Kinnaur	0.64	0.83	0.02	0.00	0.00	0.00	0.00	0.37
026951	Roowang	POOH	Kinnaur	0.70	0.74	0.09	0.01	0.02	0.01	0.03	0.41
026952	D.P.F.C-196	POOH	Kinnaur	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.35
026953	Swaling	POOH	Kinnaur	0.85	0.71	0.04	0.00	0.04	0.00	0.01	0.43
026955	Dhar Khayo	POOH	Kinnaur	0.55	0.95	0.00	0.00	0.00	0.00	0.00	0.37
026956	Dhar Yamdaling	POOH	Kinnaur	0.55	0.97	0.00	0.00	0.00	0.00	0.00	0.38
026957	Dhar Lochhas	POOH	Kinnaur	0.71	0.88	0.00	0.00	0.00	0.00	0.00	0.40
026958	Dhar Wishrang	POOH	Kinnaur	0.77	0.71	0.00	0.00	0.00	0.00	0.00	0.37
026959	Lambar	POOH	Kinnaur	0.78	0.76	0.01	0.00	0.00	0.00	0.00	0.39
026960	D.P.F.C-195	POOH	Kinnaur	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.34
026961	Thangi Khas	POOH	Kinnaur	0.69	0.71	0.13	0.05	0.00	0.00	0.01	0.41
026962	Pibbar	POOH	Kinnaur	0.72	0.71	0.07	0.00	0.00	0.00	0.00	0.38
026963	D.P.F.C-194	POOH	Kinnaur	0.62	0.71	0.00	0.00	0.00	0.00	0.00	0.31
026964	D.P.F.C-193	POOH	Kinnaur	0.60	0.71	0.00	0.00	0.00	0.00	0.00	0.30
026965	D.P.F.C-191-192	POOH	Kinnaur	0.71	0.83	0.00	0.00	0.00	0.00	0.00	0.38
026966	Asno Kanda	POOH	Kinnaur	0.81	0.77	0.00	0.00	0.00	0.00	0.00	0.40
026967	Up Muhal Cherang Kanda	POOH	Kinnaur	0.73	0.83	0.00	0.00	0.00	0.00	0.02	0.40
026968	Panah Kanda	POOH	Kinnaur	0.69	0.83	0.01	0.00	0.00	0.00	0.02	0.39
026969	D.P.F. C -189 -190	POOH	Kinnaur	0.55	0.83	0.01	0.00	0.00	0.00	0.00	0.33
026970	Chang Kuwa	POOH	Kinnaur	0.24	0.83	0.07	0.00	0.00	0.00	0.12	0.29
026971	Kurpo	POOH	Kinnaur	0.33	0.83	0.12	0.00	0.00	0.02	0.01	0.31
026972	Dhar Panah	POOH	Kinnaur	0.60	0.83	0.00	0.00	0.00	0.00	0.00	0.35
026973	Dhar Kushkar	POOH	Kinnaur	0.66	0.77	0.00	0.00	0.00	0.00	0.00	0.34
026974	Dhar Gara	POOH	Kinnaur	0.50	0.71	0.00	0.00	0.00	0.30	0.00	0.38
026975	Dhar Sunkham	POOH	Kinnaur	0.53	0.71	0.00	0.00	0.00	0.00	0.00	0.28
026976	Dhar Parmati	POOH	Kinnaur	0.77	0.76	0.00	0.00	0.00	0.00	0.00	0.38
026977	Dhar Lalanti	POOH	Kinnaur	0.58	0.87	0.00	0.00	0.00	0.00	0.00	0.35
026978	Kyarbo	POOH	Kinnaur	0.69	1.00	0.00	0.00	0.00	0.00	0.00	0.44
026979	Surting Ting	POOH	Kinnaur	0.71	1.00	0.00	0.01	0.00	0.00	0.00	0.45
026980	Dhar Shangchawal	POOH	Kinnaur	0.73	1.00	0.00	0.00	0.00	0.00	0.00	0.45

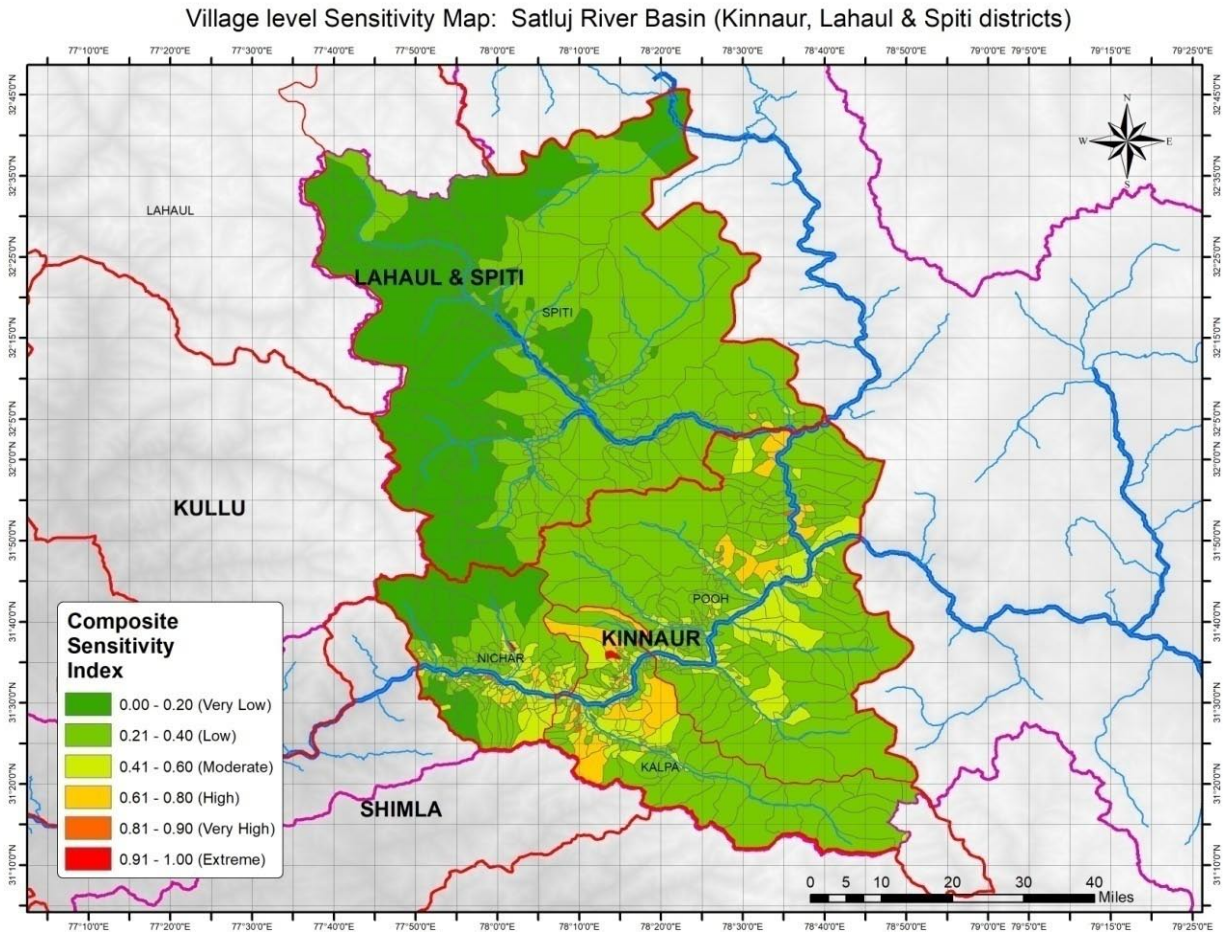
Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
026981	Kuno Khas	POOH	Kinnaur	0.75	0.99	0.01	0.01	0.00	0.00	0.02	0.47
026982	Kota	POOH	Kinnaur	0.52	0.99	0.01	0.00	0.01	0.00	0.00	0.38
026983	Dhar Shilachh	POOH	Kinnaur	0.67	0.99	0.00	0.00	0.00	0.00	0.00	0.43
026984	Dhar Dulmnish	POOH	Kinnaur	0.52	0.98	0.00	0.00	0.00	0.00	0.00	0.37
026985	Dhar Brati	POOH	Kinnaur	0.61	0.92	0.00	0.00	0.00	0.00	0.00	0.38
026986	Charang Khas	POOH	Kinnaur	0.58	0.87	0.04	0.03	0.00	0.00	0.03	0.39
026987	Gigu Lang	POOH	Kinnaur	0.46	0.87	0.04	0.00	0.00	0.00	0.09	0.36
026988	Wevgya	POOH	Kinnaur	0.58	0.96	0.04	0.00	0.00	0.00	0.06	0.42
026989	Dhar Chang kuche	POOH	Kinnaur	0.53	0.95	0.00	0.00	0.00	0.00	0.00	0.36
026990	Dhar Mangla	POOH	Kinnaur	0.55	0.87	0.00	0.00	0.00	0.00	0.00	0.34
026991	Dhar Gunrang	POOH	Kinnaur	0.51	0.89	0.00	0.00	0.00	0.00	0.00	0.33
012445	Dhar Dagduk	SPITI	Lahaul & Spiti	0.61	0.53	0.00	0.00	0.00	0.00	0.00	0.24
012446	Dhar Malung Samdo	SPITI	Lahaul & Spiti	0.51	0.53	0.00	0.00	0.00	0.00	0.00	0.21
012449	Dhar Rilosar	SPITI	Lahaul & Spiti	0.42	0.54	0.00	0.00	0.00	0.00	0.00	0.18
012450	Dhar Dojam Gyapma	SPITI	Lahaul & Spiti	0.20	0.54	0.00	0.00	0.00	0.00	0.00	0.10
012451	Dhar Dojam	SPITI	Lahaul & Spiti	0.56	0.54	0.00	0.00	0.00	0.00	0.00	0.23
012452	Dhar Nijom	SPITI	Lahaul & Spiti	0.52	0.54	0.00	0.00	0.00	0.00	0.00	0.21
012453	Dhar Kabjima	SPITI	Lahaul & Spiti	0.44	0.54	0.00	0.00	0.00	0.00	0.00	0.19
012454	Dhar Tangne	SPITI	Lahaul & Spiti	0.48	0.34	0.00	0.00	0.00	0.04	0.00	0.14
012455	Dhar Sumdo	SPITI	Lahaul & Spiti	0.44	0.32	0.00	0.00	0.00	0.00	0.00	0.11
012456	Dhar Vitung Nakpo	SPITI	Lahaul & Spiti	0.44	0.32	0.00	0.00	0.00	0.00	0.00	0.11
012457	Dhar Lungmochhe	SPITI	Lahaul & Spiti	0.45	0.32	0.00	0.00	0.00	0.00	0.00	0.11
012458	Dhar Tanve	SPITI	Lahaul & Spiti	0.44	0.51	0.00	0.00	0.00	0.00	0.00	0.17
012460	Dhar Pallamo	SPITI	Lahaul & Spiti	0.37	0.32	0.00	0.00	0.00	0.00	0.00	0.09
012461	Dhar Thachakarpo	SPITI	Lahaul & Spiti	0.36	0.32	0.00	0.00	0.00	0.00	0.00	0.08
012462	Dhar Siti Khud	SPITI	Lahaul & Spiti	0.41	0.32	0.00	0.00	0.00	0.00	0.00	0.10
012463	Dhar Nimaloksa	SPITI	Lahaul & Spiti	0.48	0.32	0.00	0.00	0.00	0.00	0.00	0.12
012464	Dhar Fagdansa	SPITI	Lahaul & Spiti	0.56	0.47	0.00	0.00	0.00	0.00	0.00	0.20
012465	Dhar Dindi	SPITI	Lahaul & Spiti	0.52	0.32	0.00	0.00	0.00	0.00	0.00	0.14
012466	Losar Khas	SPITI	Lahaul & Spiti	0.23	0.32	0.10	0.03	0.00	0.00	0.02	0.09
012467	Chichong	SPITI	Lahaul & Spiti	0.39	0.32	0.03	0.01	0.00	0.00	0.03	0.12
012468	Dhar Pang Kyamo	SPITI	Lahaul & Spiti	0.55	0.32	0.00	0.00	0.00	0.00	0.00	0.15
012469	Kyamo	SPITI	Lahaul & Spiti	0.32	0.32	0.06	0.01	0.00	0.00	0.02	0.10
012470	Dhar Latothanmo	SPITI	Lahaul & Spiti	0.50	0.37	0.00	0.00	0.00	0.00	0.00	0.14
012471	Hansa	SPITI	Lahaul & Spiti	0.32	0.32	0.16	0.02	0.00	0.00	0.01	0.14
012472	Dhar Soksa	SPITI	Lahaul & Spiti	0.52	0.32	0.00	0.00	0.00	0.00	0.00	0.14
012473	Kaito	SPITI	Lahaul & Spiti	0.50	0.31	0.07	0.01	0.00	0.00	0.01	0.16
012474	Dhar Tamba Kurkur	SPITI	Lahaul & Spiti	0.55	0.31	0.00	0.00	0.00	0.00	0.00	0.14
012475	Dhar Paldar	SPITI	Lahaul & Spiti	0.35	0.31	0.00	0.00	0.00	0.00	0.00	0.07
012476	Dhar Pangmo	SPITI	Lahaul & Spiti	0.46	0.31	0.00	0.00	0.00	0.00	0.00	0.11
012477	Dhar Ghiundi	SPITI	Lahaul & Spiti	0.54	0.31	0.00	0.00	0.00	0.00	0.00	0.14
012478	Hull	SPITI	Lahaul & Spiti	0.13	0.37	0.06	0.01	0.00	0.00	0.02	0.05
012479	Pangmo Khas	SPITI	Lahaul & Spiti	0.16	0.31	0.04	0.01	0.00	0.00	0.00	0.03
012480	Jugmothang	SPITI	Lahaul & Spiti	0.20	0.31	0.10	0.00	0.00	0.00	0.00	0.06
012481	Chigjar	SPITI	Lahaul & Spiti	0.55	0.32	0.00	0.00	0.00	0.00	0.00	0.15
012482	Dhar Laterse	SPITI	Lahaul & Spiti	0.36	0.39	0.00	0.00	0.00	0.00	0.00	0.10
012483	Dhar Panya	SPITI	Lahaul & Spiti	0.44	0.61	0.00	0.00	0.00	0.00	0.00	0.21
012484	Dhar Farah	SPITI	Lahaul & Spiti	0.32	0.65	0.00	0.00	0.00	0.00	0.00	0.18
012485	Chicham Khas	SPITI	Lahaul & Spiti	0.23	0.65	0.14	0.04	0.00	0.00	0.04	0.24
012486	Ladarcha	SPITI	Lahaul & Spiti	0.17	0.60	0.03	0.00	0.00	0.00	0.03	0.13
012487	Dumley	SPITI	Lahaul & Spiti	0.25	0.65	0.05	0.00	0.00	0.00	0.01	0.18
012488	Dhar Chicham	SPITI	Lahaul & Spiti	0.36	0.62	0.00	0.00	0.00	0.00	0.00	0.18
012489	Dhar Hal	SPITI	Lahaul & Spiti	0.74	0.41	0.00	0.00	0.00	0.00	0.00	0.24
012490	Dhar Yakya	SPITI	Lahaul & Spiti	0.49	0.50	0.00	0.00	0.00	0.00	0.00	0.19

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
012491	Kibber Khas	SPITI	Lahaul & Spiti	0.24	0.65	0.10	0.02	0.00	0.00	0.02	0.21
012492	Pinjoor	SPITI	Lahaul & Spiti	0.13	0.65	0.16	0.01	0.00	0.00	0.02	0.19
012493	Kee	SPITI	Lahaul & Spiti	0.13	0.42	0.04	0.02	0.00	0.00	0.06	0.08
012494	Gettey	SPITI	Lahaul & Spiti	0.41	0.43	0.05	0.01	0.00	0.00	0.03	0.17
012495	Tashi Gang	SPITI	Lahaul & Spiti	0.46	0.67	0.08	0.02	0.00	0.00	0.08	0.30
012496	Thinam	SPITI	Lahaul & Spiti	0.23	0.67	0.00	0.00	0.00	0.00	0.04	0.17
012497	Dhar Lama Chung Chung	SPITI	Lahaul & Spiti	0.42	0.40	0.00	0.00	0.00	0.00	0.00	0.13
012498	Langja	SPITI	Lahaul & Spiti	0.08	0.67	0.07	0.01	0.00	0.00	0.04	0.15
012499	Dhar Chhon Chhon Kanghilda	SPITI	Lahaul & Spiti	0.49	0.67	0.00	0.00	0.00	0.00	0.00	0.25
012500	Hikam	SPITI	Lahaul & Spiti	0.22	0.67	0.19	0.05	0.00	0.00	0.04	0.27
012501	Komik	SPITI	Lahaul & Spiti	0.11	0.62	0.00	0.03	0.00	0.00	0.13	0.15
012502	Kaza Khas	SPITI	Lahaul & Spiti	0.33	0.54	0.25	0.09	0.00	0.00	0.01	0.28
012503	Kaza Soma	SPITI	Lahaul & Spiti	0.20	0.53	0.55	0.22	0.51	0.00	0.00	0.63
012504	Kagti	SPITI	Lahaul & Spiti	0.56	0.54	0.17	0.02	0.00	0.00	0.00	0.30
012505	Lara Khas	SPITI	Lahaul & Spiti	0.59	0.62	0.06	0.01	0.00	0.00	0.01	0.30
012506	Shego	SPITI	Lahaul & Spiti	0.65	0.62	0.03	0.01	0.01	0.00	0.00	0.31
012507	Lidang	SPITI	Lahaul & Spiti	0.47	0.62	0.06	0.01	0.01	0.00	0.00	0.26
012508	Dhar Lung Wooh	SPITI	Lahaul & Spiti	0.25	0.58	0.00	0.00	0.00	0.00	0.00	0.13
012509	Keuling	SPITI	Lahaul & Spiti	0.08	0.58	0.09	0.01	0.09	0.00	0.07	0.18
012510	Dhar Keuling	SPITI	Lahaul & Spiti	0.57	0.55	0.00	0.00	0.00	0.00	0.00	0.23
012511	Kuang Khas	SPITI	Lahaul & Spiti	0.26	0.54	0.04	0.00	0.00	0.00	0.01	0.14
012512	Neked	SPITI	Lahaul & Spiti	0.29	0.49	0.15	0.00	0.15	0.00	0.34	0.37
012513	Marango Rangarik	SPITI	Lahaul & Spiti	0.23	0.36	0.10	0.05	0.00	0.00	0.05	0.13
012514	Yarango Rangarik	SPITI	Lahaul & Spiti	0.23	0.40	0.08	0.01	0.00	0.00	0.05	0.12
012515	Khurik	SPITI	Lahaul & Spiti	0.00	0.40	0.10	0.02	0.00	0.00	0.04	0.04
012516	Sumling	SPITI	Lahaul & Spiti	0.08	0.42	0.03	0.00	0.00	0.00	0.01	0.03
012517	Morang	SPITI	Lahaul & Spiti	0.09	0.40	0.02	0.01	0.00	0.00	0.04	0.04
012518	Dhar Tumserisha Doksa	SPITI	Lahaul & Spiti	0.54	0.40	0.00	0.00	0.00	0.00	0.00	0.17
012519	Dhar Sumling	SPITI	Lahaul & Spiti	0.56	0.40	0.00	0.00	0.00	0.00	0.00	0.18
012520	Dhar Lamanduba	SPITI	Lahaul & Spiti	0.50	0.39	0.00	0.00	0.00	0.00	0.00	0.16
012521	Dhar Ratang	SPITI	Lahaul & Spiti	0.54	0.38	0.00	0.00	0.00	0.00	0.00	0.16
012522	Dhar Dangdagma	SPITI	Lahaul & Spiti	0.46	0.63	0.00	0.00	0.00	0.00	0.00	0.23
012523	Dhar Pindo	SPITI	Lahaul & Spiti	0.63	0.65	0.00	0.00	0.00	0.00	0.00	0.29
012524	Dhar Ula	SPITI	Lahaul & Spiti	0.52	0.66	0.00	0.00	0.00	0.00	0.00	0.26
012525	Dhar Jong	SPITI	Lahaul & Spiti	0.62	0.65	0.00	0.00	0.00	0.00	0.00	0.29
012526	Chhidang	SPITI	Lahaul & Spiti	0.56	0.65	0.02	0.00	0.00	0.00	0.01	0.28
012527	Shilling	SPITI	Lahaul & Spiti	0.54	0.65	0.06	0.01	0.02	0.00	0.00	0.30
012528	Guling	SPITI	Lahaul & Spiti	0.14	0.65	0.11	0.06	0.11	0.00	0.02	0.24
012529	Barpa	SPITI	Lahaul & Spiti	0.38	0.65	0.13	0.04	0.13	0.00	0.01	0.33
012530	Dhar Chaling	SPITI	Lahaul & Spiti	0.51	0.65	0.00	0.00	0.00	0.00	0.00	0.25
012531	Dhar Chhau	SPITI	Lahaul & Spiti	0.44	0.65	0.00	0.00	0.00	0.00	0.00	0.22
012532	Kong Kong	SPITI	Lahaul & Spiti	0.37	0.65	0.05	0.00	0.00	0.00	0.06	0.24
012533	Uperla Guling	SPITI	Lahaul & Spiti	0.16	0.65	0.13	0.03	0.00	0.00	0.02	0.20
012534	Kungri	SPITI	Lahaul & Spiti	0.25	0.65	0.06	0.04	0.00	0.00	0.02	0.21
012535	Mikam	SPITI	Lahaul & Spiti	0.26	0.56	0.11	0.02	0.05	0.00	0.00	0.21
012536	Phukchung	SPITI	Lahaul & Spiti	0.44	0.31	0.02	0.00	0.02	0.00	0.01	0.12
012537	Ka	SPITI	Lahaul & Spiti	0.52	0.31	0.02	0.00	0.01	0.00	0.00	0.15
012538	Minsar	SPITI	Lahaul & Spiti	0.43	0.31	0.91	0.00	0.89	0.00	0.02	0.32
012539	Polole	SPITI	Lahaul & Spiti	0.40	0.31	0.00	0.00	0.00	0.00	0.01	0.09
012540	Dhar Kidul	SPITI	Lahaul & Spiti	0.49	0.35	0.00	0.00	0.00	0.00	0.00	0.14
012541	Dhar Gechang	SPITI	Lahaul & Spiti	0.55	0.31	0.00	0.00	0.00	0.00	0.00	0.14
012542	Rajgaon	SPITI	Lahaul & Spiti	0.53	0.31	0.05	0.00	0.00	0.00	0.00	0.16
012543	Sagnam	SPITI	Lahaul & Spiti	0.22	0.59	0.14	0.10	0.00	0.00	0.03	0.23
012544	Takshan	SPITI	Lahaul & Spiti	0.30	0.71	0.11	0.00	0.00	0.02	0.00	0.25

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
012545	Shaktan	SPITI	Lahaul & Spiti	0.45	0.31	0.00	0.00	0.00	0.00	0.00	0.11
012546	Thango	SPITI	Lahaul & Spiti	0.40	0.30	0.01	0.00	0.00	0.00	0.02	0.10
012547	Dhar Tisang	SPITI	Lahaul & Spiti	0.61	0.50	0.00	0.00	0.00	0.00	0.00	0.23
012548	Dhar Rajgaon	SPITI	Lahaul & Spiti	0.66	0.31	0.00	0.00	0.00	0.00	0.00	0.18
012549	Dhar Changlung	SPITI	Lahaul & Spiti	0.67	0.11	0.00	0.00	0.00	0.00	0.00	0.11
012550	Dhar Togseluganwa	SPITI	Lahaul & Spiti	0.54	0.10	0.00	0.00	0.00	0.00	0.00	0.06
012551	Dhar Thango	SPITI	Lahaul & Spiti	0.49	0.31	0.00	0.00	0.00	0.00	0.00	0.12
012552	Dhar Khamengar	SPITI	Lahaul & Spiti	0.47	0.29	0.00	0.00	0.00	0.00	0.00	0.11
012553	Dhar Devsa	SPITI	Lahaul & Spiti	0.50	0.04	0.00	0.00	0.00	0.00	0.00	0.03
012554	Dhar Noor	SPITI	Lahaul & Spiti	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.02
012555	Dhar Kilung	SPITI	Lahaul & Spiti	0.51	0.20	0.00	0.00	0.00	0.00	0.00	0.09
012556	Dhar Lakhang	SPITI	Lahaul & Spiti	0.44	0.34	0.00	0.00	0.00	0.00	0.00	0.11
012557	Dhar Thagpat	SPITI	Lahaul & Spiti	0.36	0.10	0.00	0.00	0.00	0.00	0.00	0.00
012558	Dhar Sonpat	SPITI	Lahaul & Spiti	0.48	0.10	0.00	0.00	0.00	0.00	0.00	0.04
012559	Dhar Chho Chho Dain	SPITI	Lahaul & Spiti	0.52	0.24	0.00	0.00	0.00	0.00	0.00	0.11
012560	Dhar Chhorak	SPITI	Lahaul & Spiti	0.36	0.10	0.00	0.00	0.00	0.00	0.00	0.00
012561	Dhar Tegvaldar	SPITI	Lahaul & Spiti	0.48	0.36	0.00	0.00	0.00	0.00	0.00	0.13
012562	Dhar Mahavaldar	SPITI	Lahaul & Spiti	0.43	0.66	0.00	0.00	0.00	0.00	0.00	0.22
012563	Dhar Jikvaldar	SPITI	Lahaul & Spiti	0.52	0.66	0.00	0.00	0.00	0.00	0.00	0.25
012564	Dhar Larang	SPITI	Lahaul & Spiti	0.50	0.57	0.00	0.00	0.00	0.00	0.00	0.22
012565	Dhar Tarpak	SPITI	Lahaul & Spiti	0.45	0.67	0.00	0.00	0.00	0.00	0.00	0.24
012566	Shan	SPITI	Lahaul & Spiti	0.48	0.66	0.02	0.00	0.00	0.00	0.00	0.25
012567	Dhar Sarval	SPITI	Lahaul & Spiti	0.56	0.66	0.00	0.00	0.00	0.00	0.00	0.27
012568	Mud	SPITI	Lahaul & Spiti	0.49	0.71	0.14	0.08	0.00	0.00	0.02	0.35
012569	Pharka	SPITI	Lahaul & Spiti	0.76	0.70	0.02	0.00	0.02	0.00	0.04	0.39
012570	Kilmoor	SPITI	Lahaul & Spiti	0.67	0.71	0.01	0.00	0.00	0.00	0.00	0.33
012571	Dhar Pilsur	SPITI	Lahaul & Spiti	0.59	0.71	0.00	0.00	0.00	0.00	0.00	0.30
012572	Teling	SPITI	Lahaul & Spiti	0.23	0.71	0.09	0.04	0.00	0.00	0.05	0.24
012573	Pilsur	SPITI	Lahaul & Spiti	0.25	0.70	0.01	0.00	0.01	0.00	0.00	0.19
012574	Chamling	SPITI	Lahaul & Spiti	0.42	0.65	0.00	0.01	0.00	0.00	0.06	0.25
012575	Haronaro	SPITI	Lahaul & Spiti	0.46	0.65	0.04	0.00	0.00	0.00	0.00	0.25
012576	Dhar Mallam	SPITI	Lahaul & Spiti	0.58	0.66	0.00	0.00	0.00	0.00	0.00	0.28
012577	Dhar Jamaro	SPITI	Lahaul & Spiti	0.37	0.65	0.00	0.00	0.00	0.00	0.00	0.20
012578	Dhar Sechin	SPITI	Lahaul & Spiti	0.52	0.65	0.00	0.00	0.00	0.00	0.00	0.26
012579	Dhar Turwand	SPITI	Lahaul & Spiti	0.52	0.65	0.00	0.00	0.00	0.00	0.00	0.26
012580	Dhar Sinsa	SPITI	Lahaul & Spiti	0.49	0.66	0.00	0.00	0.00	0.00	0.00	0.25
012581	Dharyansa	SPITI	Lahaul & Spiti	0.32	0.65	0.05	0.00	0.00	0.00	0.00	0.20
012582	Phika	SPITI	Lahaul & Spiti	0.48	0.68	0.07	0.00	0.07	0.00	0.00	0.31
012583	Dhar Charasa	SPITI	Lahaul & Spiti	0.63	0.66	0.00	0.00	0.00	0.00	0.00	0.30
012584	Todnam	SPITI	Lahaul & Spiti	0.22	0.71	0.09	0.03	0.09	0.00	0.01	0.25
012585	Khar	SPITI	Lahaul & Spiti	0.44	0.71	0.04	0.01	0.04	0.00	0.01	0.28
012586	Dhar Magling	SPITI	Lahaul & Spiti	0.65	0.70	0.00	0.00	0.00	0.00	0.00	0.32
012587	Dhar Lalung	SPITI	Lahaul & Spiti	0.54	0.65	0.00	0.00	0.00	0.00	0.00	0.26
012588	Dul	SPITI	Lahaul & Spiti	0.52	0.65	0.03	0.00	0.00	0.00	0.00	0.27
012589	Tangti Kogma	SPITI	Lahaul & Spiti	0.37	0.65	0.03	0.01	0.03	0.00	0.02	0.23
012590	Tangti Yogma	SPITI	Lahaul & Spiti	0.33	0.65	0.00	0.02	0.00	0.00	0.10	0.22
012591	Dhar Phua	SPITI	Lahaul & Spiti	0.69	0.65	0.00	0.00	0.00	0.00	0.00	0.31
012592	Dhar Lungje	SPITI	Lahaul & Spiti	0.57	0.67	0.00	0.00	0.00	0.00	0.00	0.28
012593	Dhankhar	SPITI	Lahaul & Spiti	0.32	0.67	0.05	0.01	0.05	0.00	0.00	0.24
012594	Shushna	SPITI	Lahaul & Spiti	0.27	0.67	0.05	0.01	0.00	0.00	0.00	0.20
012595	Siluk	SPITI	Lahaul & Spiti	0.23	0.67	0.03	0.01	0.00	0.00	0.00	0.18
012596	Shichling	SPITI	Lahaul & Spiti	0.36	0.65	0.03	0.02	0.00	0.00	0.02	0.22
012597	Newpur	SPITI	Lahaul & Spiti	0.47	0.60	0.05	0.01	0.00	0.00	0.00	0.24
012598	Samling	SPITI	Lahaul & Spiti	0.29	0.66	0.01	0.00	0.00	0.00	0.12	0.23

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
012599	Dhar Nipti	SPITI	Lahaul & Spiti	0.39	0.64	0.00	0.00	0.00	0.00	0.00	0.20
012600	Rama Khas	SPITI	Lahaul & Spiti	0.35	0.63	0.08	0.01	0.01	0.00	0.00	0.23
012601	Tulse Pena	SPITI	Lahaul & Spiti	0.27	0.63	0.07	0.00	0.07	0.00	0.00	0.22
012602	Tarbole	SPITI	Lahaul & Spiti	0.52	0.65	0.13	0.00	0.13	0.00	0.01	0.37
012603	Chobrang	SPITI	Lahaul & Spiti	0.58	0.63	0.04	0.01	0.00	0.00	0.02	0.30
012604	Lingti	SPITI	Lahaul & Spiti	0.56	0.63	0.00	0.09	0.00	0.00	0.02	0.30
012605	Sanglung	SPITI	Lahaul & Spiti	0.45	0.63	0.00	0.01	0.00	0.00	0.02	0.23
012606	Kunge	SPITI	Lahaul & Spiti	0.47	0.64	0.02	0.00	0.00	0.00	0.03	0.25
012607	Demul Khas	SPITI	Lahaul & Spiti	0.53	0.64	0.10	0.05	0.00	0.00	0.01	0.31
012608	Gangdo Demul	SPITI	Lahaul & Spiti	0.41	0.63	0.07	0.00	0.00	0.00	0.01	0.24
012609	Mulche	SPITI	Lahaul & Spiti	0.55	0.64	0.01	0.00	0.00	0.00	0.01	0.27
012610	Rizing	SPITI	Lahaul & Spiti	0.54	0.64	0.01	0.00	0.00	0.00	0.02	0.27
012611	Tishu	SPITI	Lahaul & Spiti	0.45	0.64	0.00	0.00	0.00	0.00	0.00	0.22
012612	Dhartak Damdam	SPITI	Lahaul & Spiti	0.33	0.64	0.00	0.00	0.00	0.00	0.00	0.18
012613	Dharsochin	SPITI	Lahaul & Spiti	0.52	0.64	0.00	0.00	0.00	0.00	0.00	0.25
012614	Dhar Dum Bachen	SPITI	Lahaul & Spiti	0.47	0.65	0.00	0.00	0.00	0.00	0.00	0.23
012615	Dhar Takling	SPITI	Lahaul & Spiti	0.44	0.50	0.00	0.00	0.00	0.00	0.00	0.17
012616	Dhar Parang	SPITI	Lahaul & Spiti	0.46	0.57	0.00	0.00	0.00	0.00	0.00	0.20
012617	Dhar Nusbosamdo	SPITI	Lahaul & Spiti	0.35	0.54	0.00	0.00	0.00	0.00	0.00	0.16
012618	Dhar Chhavigya	SPITI	Lahaul & Spiti	0.52	0.63	0.00	0.00	0.00	0.00	0.00	0.24
012619	Lalung Khas	SPITI	Lahaul & Spiti	0.45	0.63	0.23	0.05	0.01	0.00	0.02	0.35
012620	Phanve	SPITI	Lahaul & Spiti	0.49	0.63	0.06	0.00	0.00	0.00	0.02	0.27
012621	Kibri	SPITI	Lahaul & Spiti	0.57	0.63	0.01	0.00	0.00	0.06	0.00	0.29
012622	Yul Shikpo	SPITI	Lahaul & Spiti	0.65	0.63	0.00	0.00	0.00	0.00	0.00	0.29
012623	Phibuk Dogri	SPITI	Lahaul & Spiti	0.26	0.63	0.00	0.00	0.00	0.00	0.02	0.16
012624	Dhar Chokula	SPITI	Lahaul & Spiti	0.52	0.67	0.00	0.00	0.00	0.00	0.00	0.26
012625	Dhar Gangchhumi	SPITI	Lahaul & Spiti	0.56	0.61	0.00	0.00	0.00	0.00	0.00	0.25
012626	Landupdeen	SPITI	Lahaul & Spiti	0.53	0.60	0.06	0.00	0.00	0.00	0.00	0.26
012627	Mane Yogma	SPITI	Lahaul & Spiti	0.39	0.60	0.11	0.03	0.00	0.00	0.00	0.25
012628	Kaley	SPITI	Lahaul & Spiti	0.56	0.60	0.01	0.00	0.00	0.00	0.00	0.26
012629	Lar	SPITI	Lahaul & Spiti	0.49	0.62	0.00	0.00	0.00	0.00	0.02	0.24
012630	Dogsa	SPITI	Lahaul & Spiti	0.54	0.62	0.00	0.00	0.00	0.00	0.04	0.27
012631	Piyuche	SPITI	Lahaul & Spiti	0.38	0.67	0.01	0.00	0.00	0.00	0.03	0.22
012632	Mane Kogma	SPITI	Lahaul & Spiti	0.33	0.65	0.05	0.01	0.00	0.00	0.01	0.21
012633	Dhar Gunla	SPITI	Lahaul & Spiti	0.53	0.67	0.00	0.00	0.00	0.00	0.00	0.26
012634	Dhar Mane Rang	SPITI	Lahaul & Spiti	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.26
012635	Dhar Pomrang	SPITI	Lahaul & Spiti	0.49	0.60	0.00	0.00	0.00	0.00	0.00	0.23
012636	Poh	SPITI	Lahaul & Spiti	0.55	0.60	0.23	0.08	0.00	0.00	0.00	0.37
012637	Pomrang	SPITI	Lahaul & Spiti	0.67	0.60	0.08	0.00	0.00	0.00	0.08	0.35
012638	Nidang	SPITI	Lahaul & Spiti	0.58	0.60	0.04	0.02	0.00	0.00	0.00	0.28
012639	Qurith	SPITI	Lahaul & Spiti	0.58	0.60	0.03	0.00	0.00	0.00	0.01	0.27
012640	Tabo	SPITI	Lahaul & Spiti	0.48	0.63	0.19	0.07	0.00	0.00	0.03	0.35
012641	Lapcha	SPITI	Lahaul & Spiti	0.58	0.63	0.05	0.00	0.00	0.00	0.00	0.29
012642	Dhar Angla	SPITI	Lahaul & Spiti	0.58	0.64	0.00	0.00	0.00	0.00	0.00	0.27
012643	Dhar Jhanda Choksa	SPITI	Lahaul & Spiti	0.55	0.61	0.00	0.00	0.00	0.00	0.00	0.25
012644	Lari	SPITI	Lahaul & Spiti	0.55	0.63	0.17	0.03	0.00	0.00	0.03	0.35
012645	Duphuk	SPITI	Lahaul & Spiti	0.57	0.63	0.00	0.00	0.00	0.00	0.00	0.26
012646	Tipta	SPITI	Lahaul & Spiti	0.52	0.58	0.01	0.00	0.00	0.00	0.00	0.23
012647	Dhar Chhochhodun	SPITI	Lahaul & Spiti	0.62	0.73	0.00	0.00	0.00	0.00	0.00	0.32
012648	Dhar Kargyupa	SPITI	Lahaul & Spiti	0.49	0.91	0.00	0.00	0.00	0.00	0.00	0.33
012649	Gipu	SPITI	Lahaul & Spiti	0.60	0.92	0.12	0.03	0.00	0.00	0.06	0.46
012650	Lirit	SPITI	Lahaul & Spiti	0.50	0.91	0.07	0.01	0.00	0.00	0.01	0.38
012651	Kun	SPITI	Lahaul & Spiti	0.54	0.89	0.01	0.00	0.01	0.92	0.07	0.71
012652	Hiche	SPITI	Lahaul & Spiti	0.55	0.89	0.01	0.00	0.00	0.00	0.00	0.35

Village Code	Villag Name	Block	District	Indicators/Variables							Comp Sens.
				S01	S02	S03	S04	S05	S06	S07	
012653	Hurling	SPITI	Lahaul & Spiti	0.52	0.89	0.27	0.07	0.00	0.00	0.05	0.49
012654	Dhar Karjenpa	SPITI	Lahaul & Spiti	0.54	0.91	0.00	0.00	0.00	0.00	0.00	0.35
012655	Kauirik	SPITI	Lahaul & Spiti	0.44	0.91	0.00	0.14	0.00	0.00	0.09	0.40
012656	Samdo	SPITI	Lahaul & Spiti	0.38	0.90	0.00	0.08	0.00	0.00	0.00	0.32



Map 9.21: Village wise Composite Sensitivity Map

Map 9.21 depicts that the Sensitivity level of villages located in lower altitude of Nichar, Kalpa & Pooh blocks are high & very high whereas villages located in higher altitude of Spiti block haveing low sensitivity level. This result has been generated after analysing the indicators: Average Hill Slope, Percentage of Net Sown Area to Geographical area, Human population density, Percentage of Un-irrigated Land Area to Geographical area, Percentage of Barren & Un-cultivable Land Area to Geographical area, Percentage of Cultivable Waste Land Area to Geographical Area & decrease in Annual Average Water Yield.

9.7 Adaptive Capacity Indicators

Based upon sensitivity and exposure, the extent of response to the effects of climate change differs across different regions. For example, frequent drought like conditionscould be addressed by one by using appropriate irrigation technology, whereas other one may not be able to afford such technology or may lack the skills to operate it. Therefore, the ability to adapt to certain changes in conditions is very important to determine the vulnerability of a system towards the change. Adaptability, coping ability, stability, management capacity, flexibility, robustness and resilience, all together form the ability of a system to adapt to the changes effectively. Therefore, 'Adaptive capacity' is a significant factor that characterize vulnerability.

Adaptive capacity is also defined as the potential or ability of a system, region or community to adjust to the effects or impacts of climate change (IPCC). The adaptivecapacity of a system or society is to deal with the changes in conditions to modify itsown characteristics and behaviour.

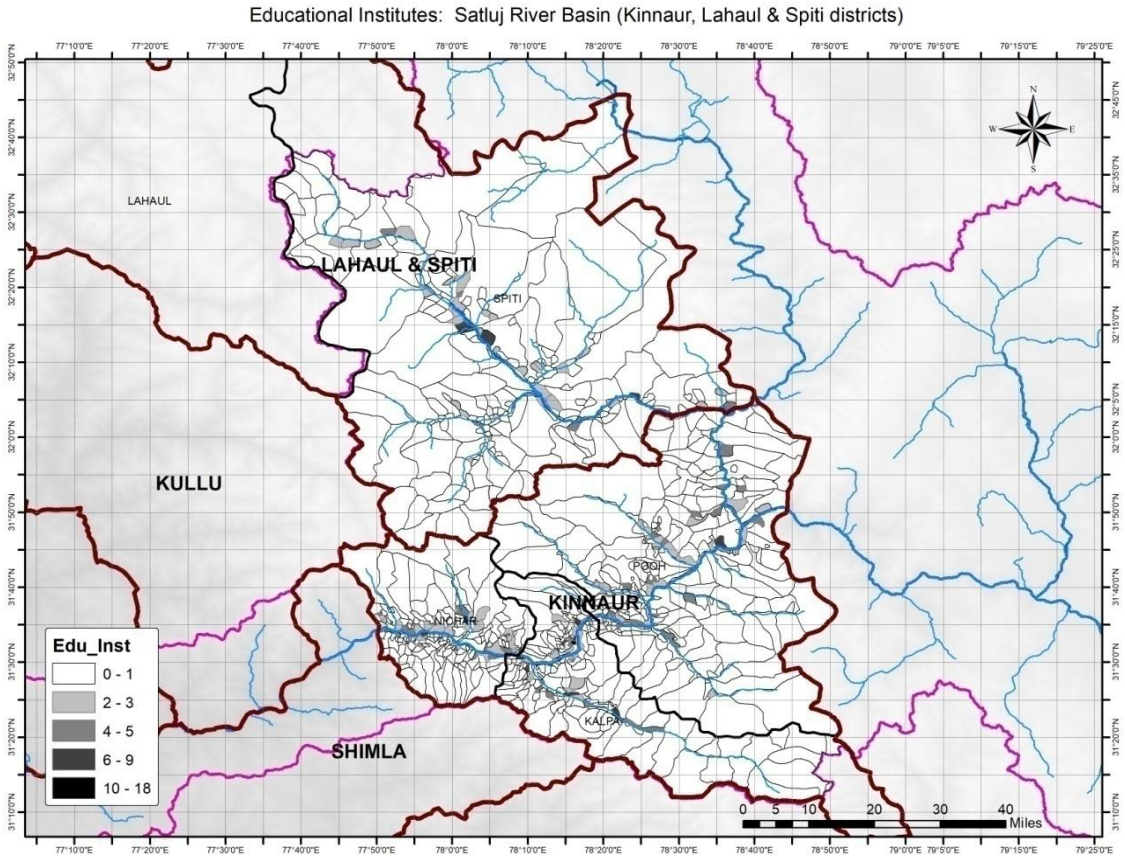
The increase in literacy rate levels enhances the capability of people to accessinformation and cope up with adversities, resulting into reduced vulnerability. The farms with larger agricultural income, landarea, farm value assets and latest technology are able to prepare and respond betteras compared to the farms with lower, less technology. Also, the farms with traditionaltechnologies are assumed to be less economically diversified and more vulnerableto climatic events. The availability of facilities like electricity, education, health care,etc. determines the state of poverty in a region. When two different agriculturalregions having the same crops and similar climate are compared with each other, the exposure to climate changes might be similar, but the adaptive capacity andvulnerability could be very different based on the socio-economic factors.

In addition to identification of threat, the analysis of vulnerability also involvesresilience or responsiveness of the system and its ability to exploit opportunitiesand recover from the environmental and climatic changes. Therefore, assetownership goes hand in hand with vulnerability. The people having more assetsare less vulnerable to climate change and on the other hand the people with less areas are more prone to climate change vulnerability.

In present case we have used eleven variables/ indicators to calculate adaptive capacity. The indicators for adaptive capacity are computed using 2011 census data. The maps have been generated for each of these indicators under adaptive capacity. The indicator-wise analysis with functional relationship is as under:

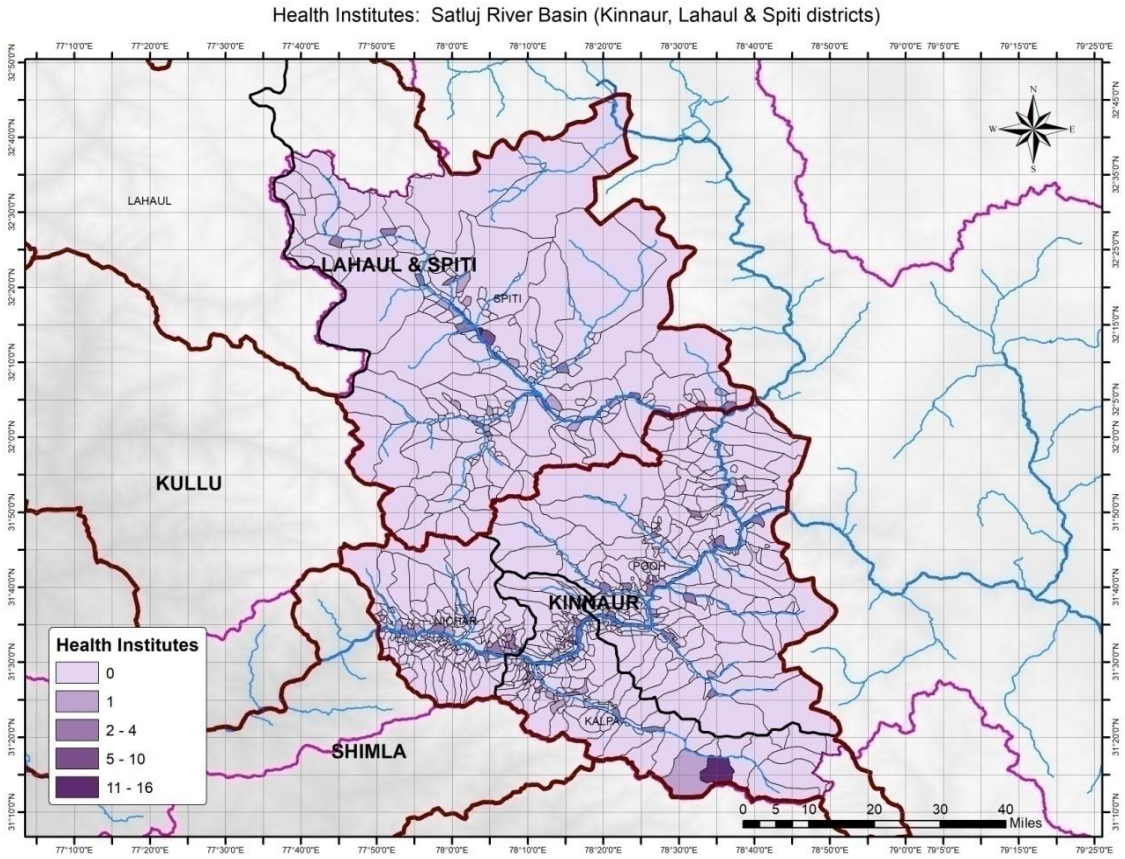
Code	Adaptive Capacity	Units	Years	Functional Relationship with Adaptive Capacity	Data Source
A01	Educational Institutes	Number	2011	↑	Census 2011
A02	Health Institutes	Number	2011	↑	Census 2011
A03	Road Network	Yes/No	2011	↑	Census 2011
A04	Agricultural Credit Societies	Yes/No	2011	↑	Census 2011
A05	Self Help Group	Yes/No	2011	↑	Census 2011
A06	Mandis/Regular Market	Yes/No	2011	↑	Census 2011
A07	Agricultural Marketing Society	Yes/No	2011	↑	Census 2011
A08	Hand Pump	Yes/No	2011	↑	Census 2011
A09	Spring Source	Yes/No	2011	↑	Census 2011
A10	Tank/Pond/Lake	Yes/No	2011	↑	Census 2011
A11	Irrigated Area	Hectares	2011	↑	Census 2011

A01 Educational Institutes



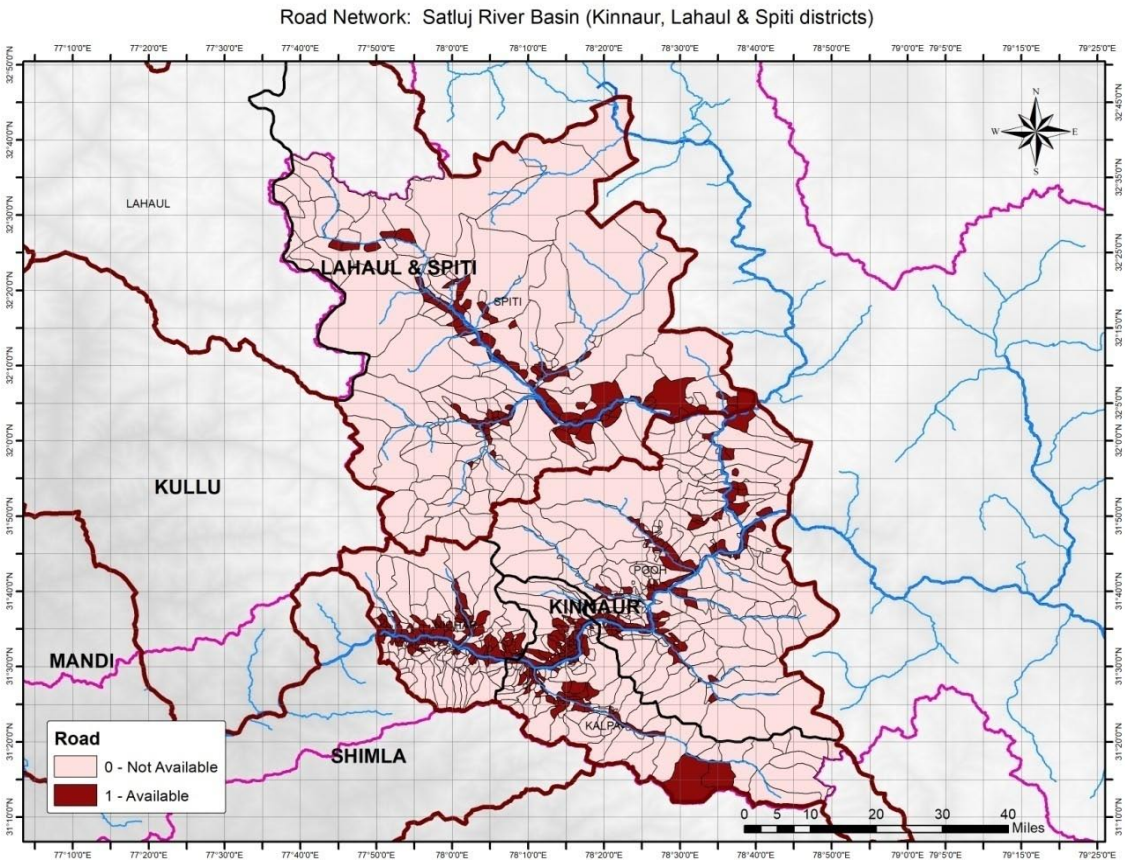
Map 9.22: Educational Institutes

A02 Health Institutes



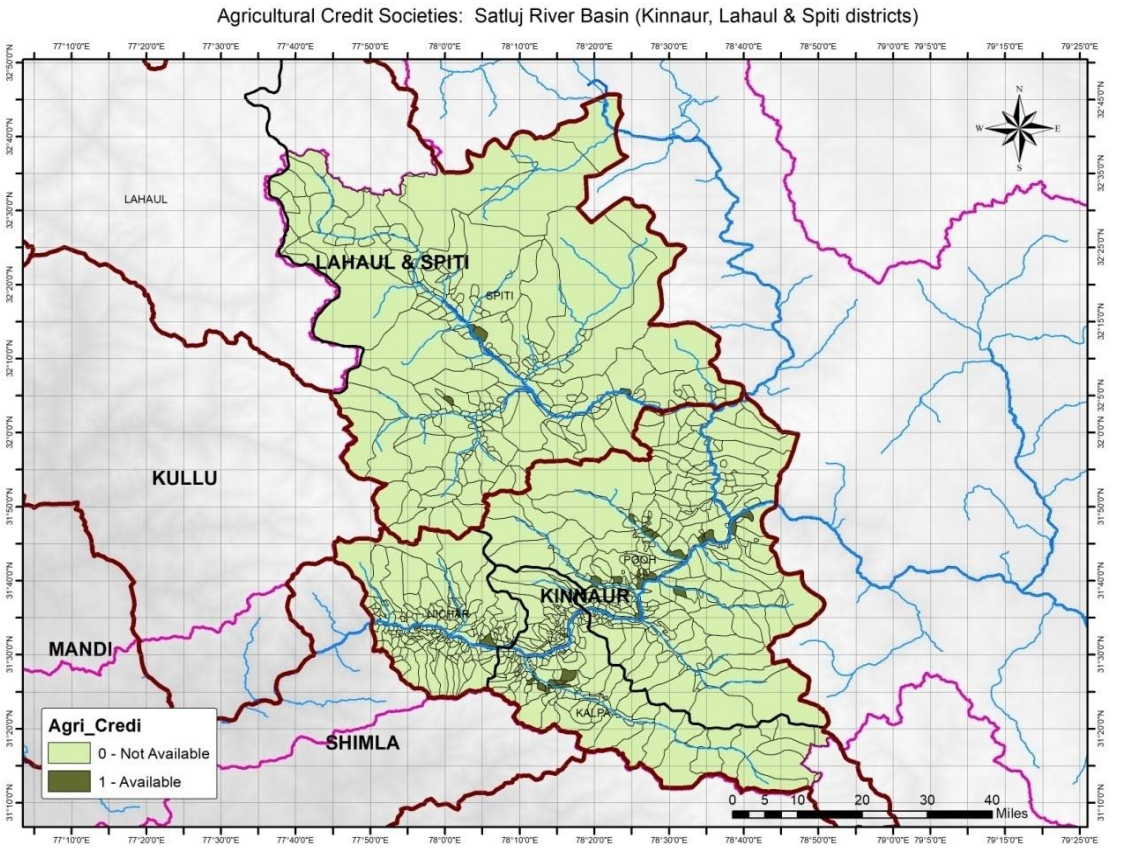
Map 9.23: Health Institutes

A03 Road Network



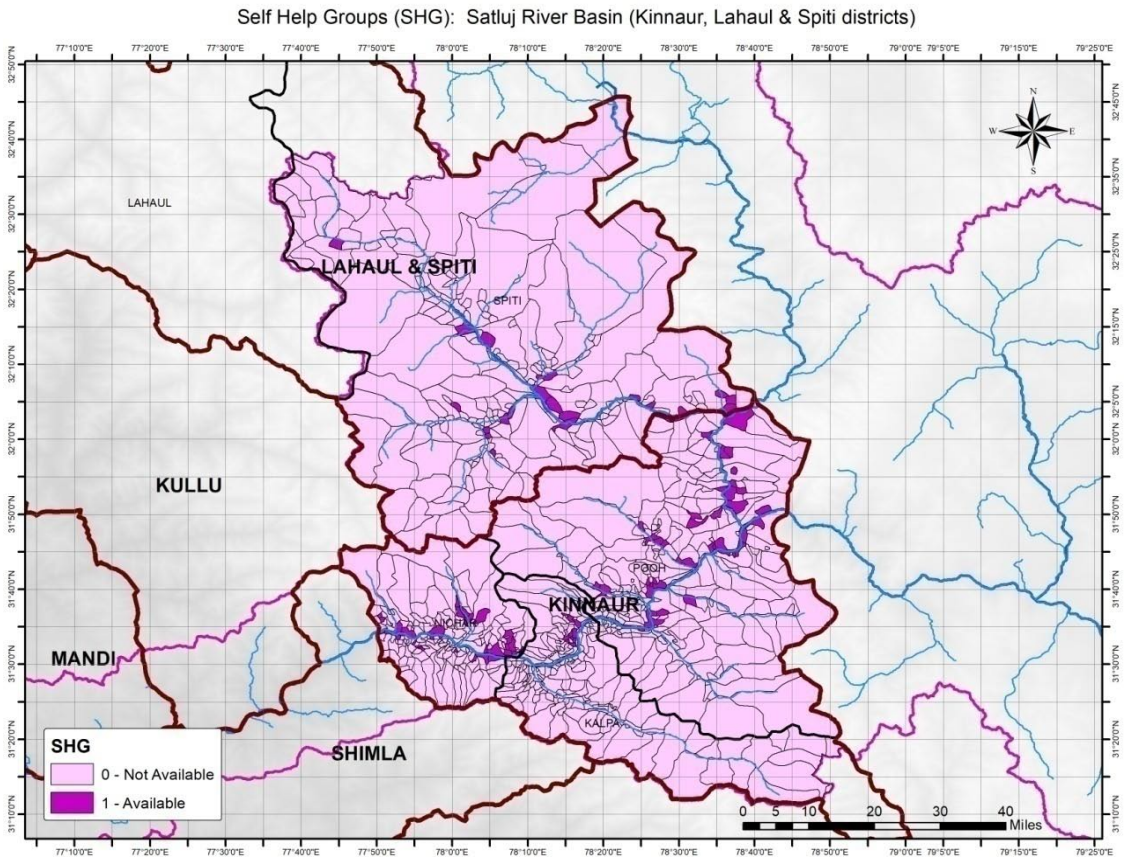
Map 9.24: Road Network

A04 Agricultural Credit Societies



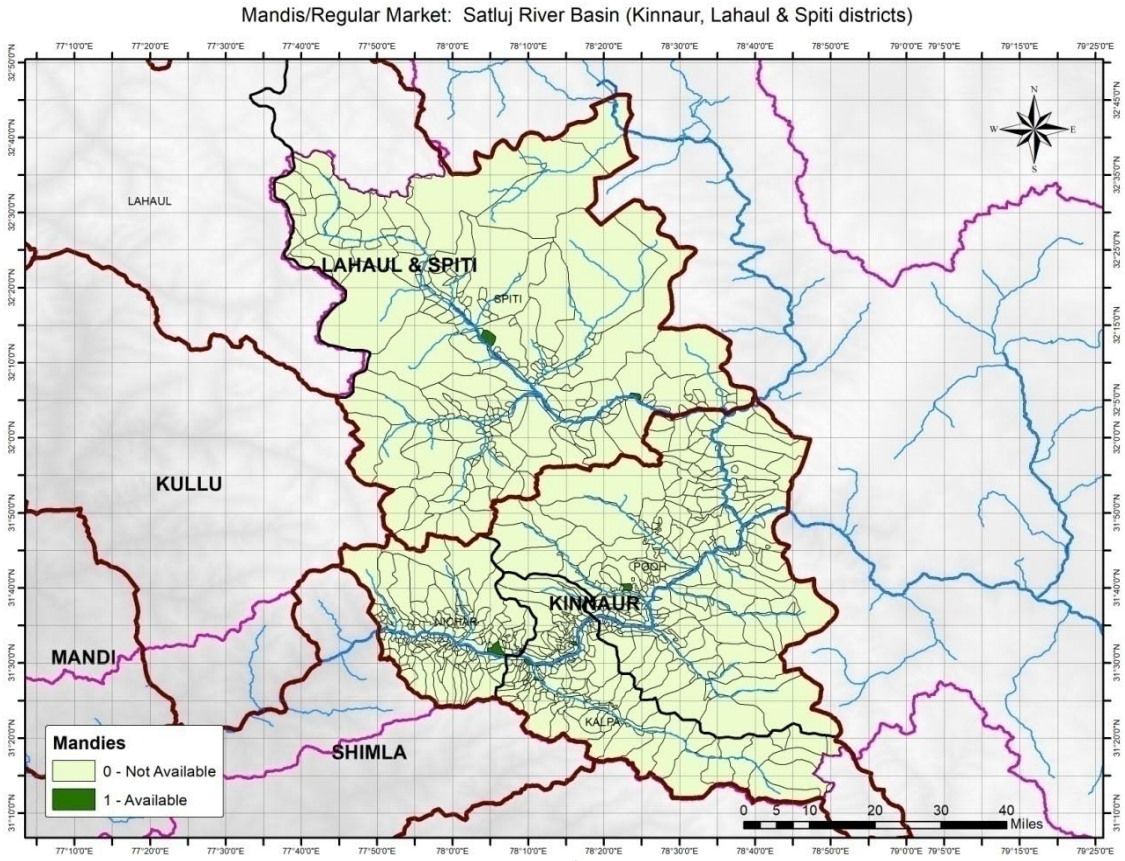
Map 9.25: Agricultural Credit Societies

A05 Self Help Group



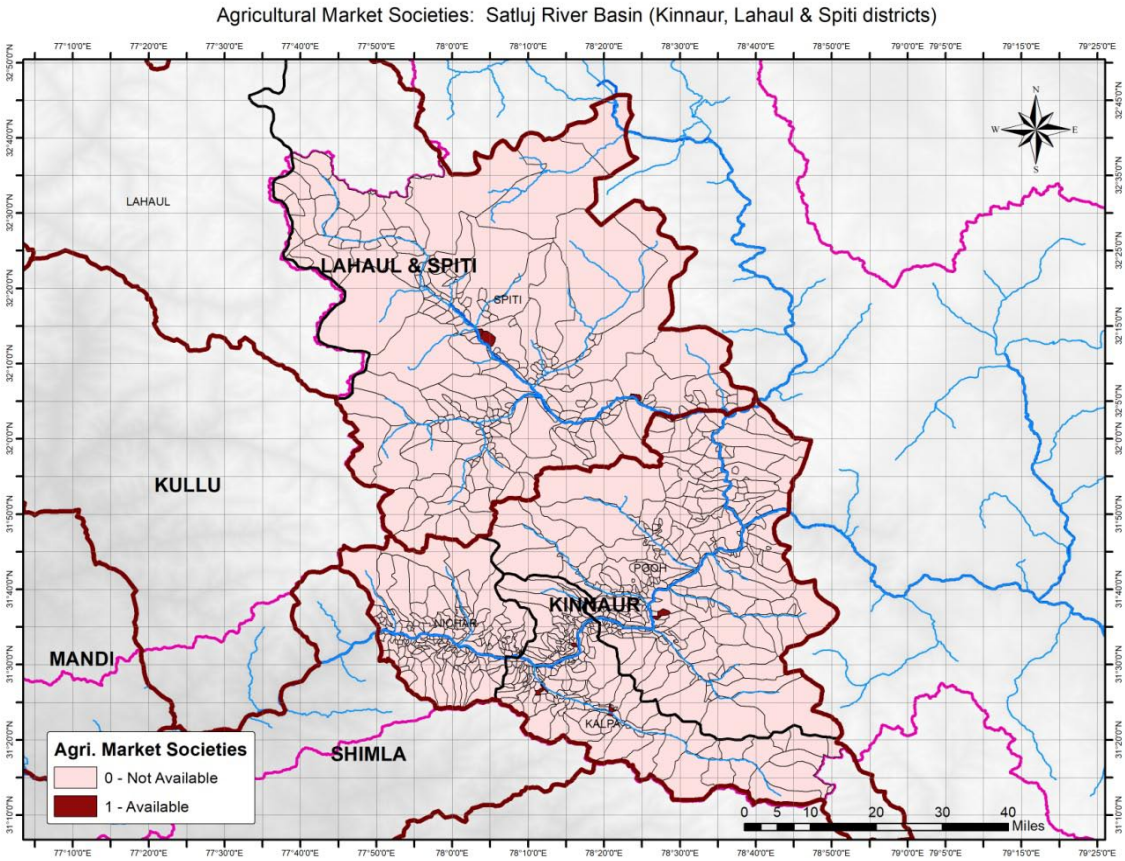
Map 9.26: Self Help Group

A06 Mandis/Regular Market



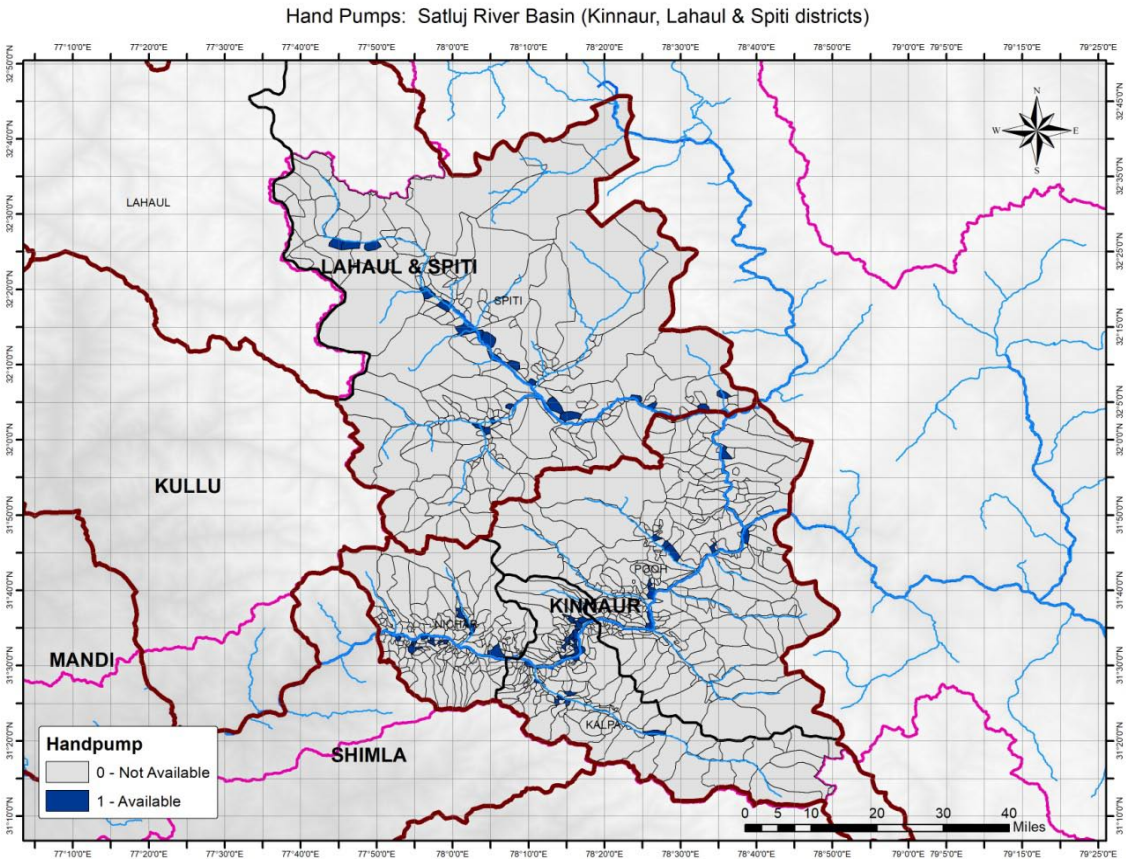
Map 9.27: Mandis/Regular Market

A07 Agricultural Marketing Society



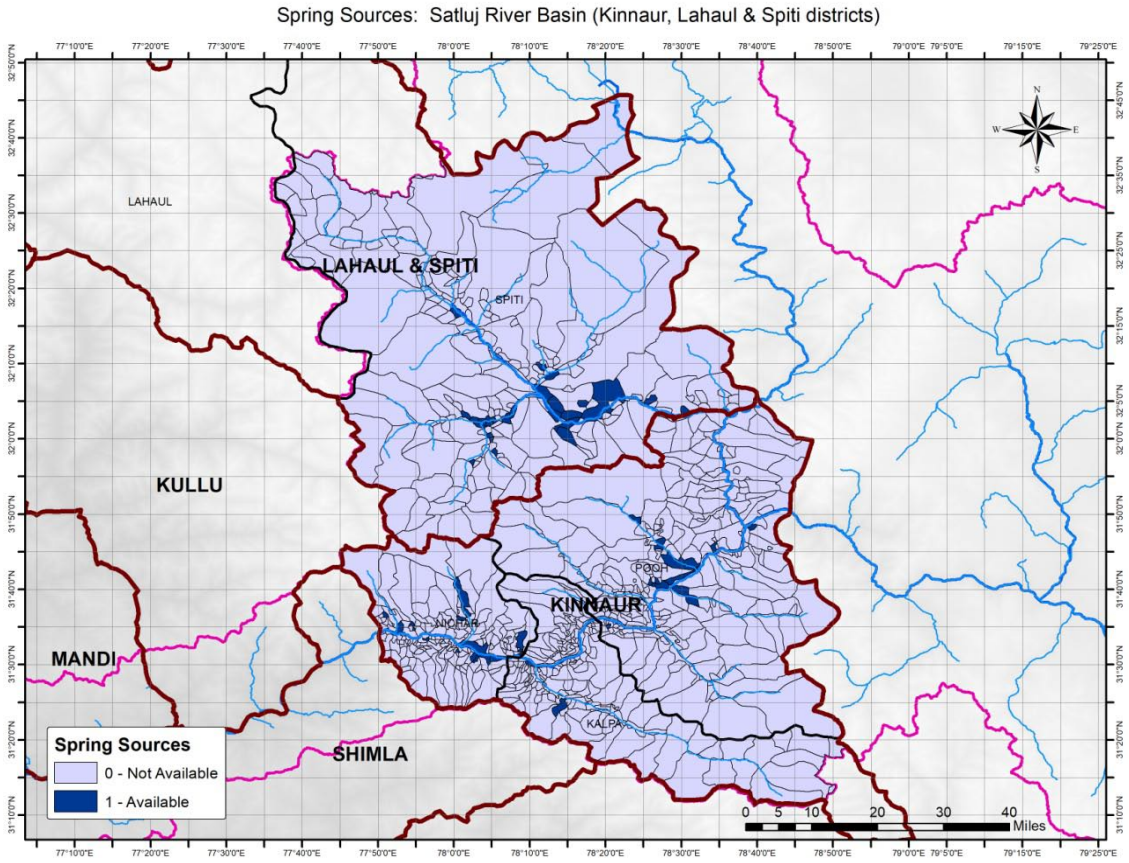
Map 9.28: Agricultural Marketing Societies

A08 Hand Pump



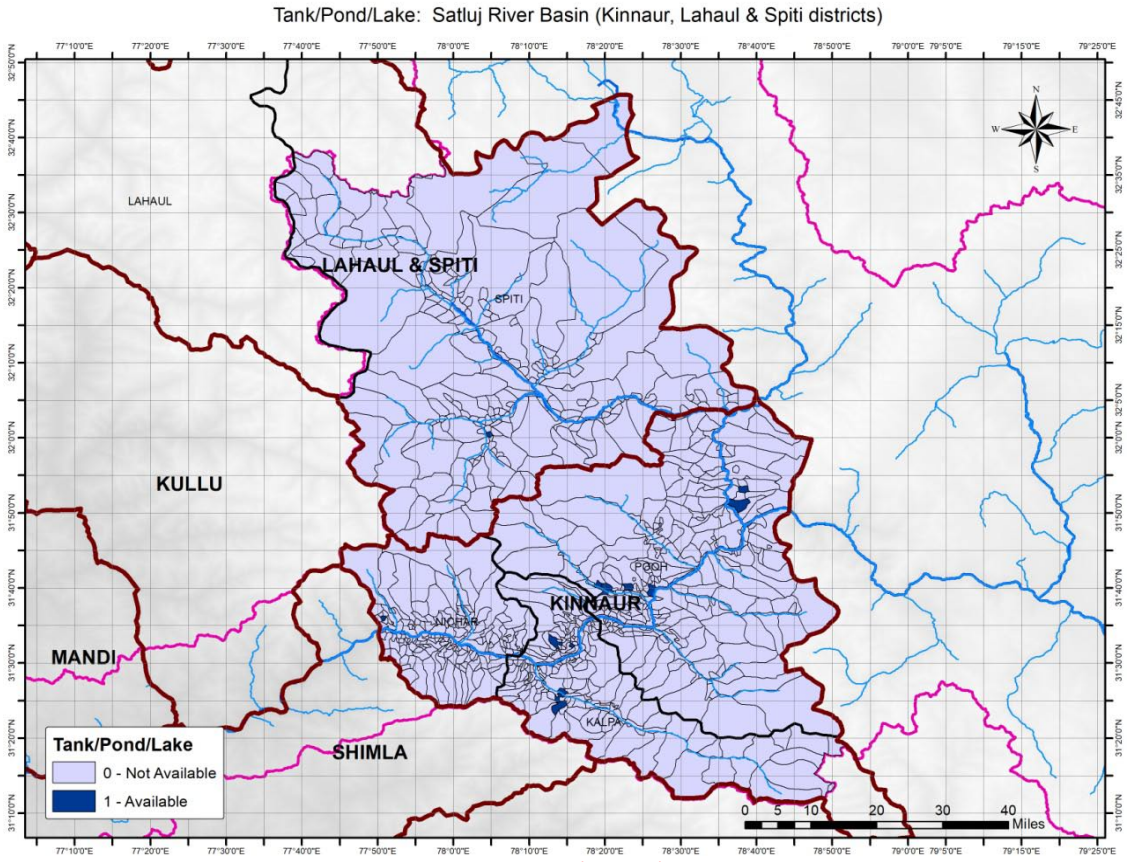
Map 9.29: Hand Pump

A09 Spring Source



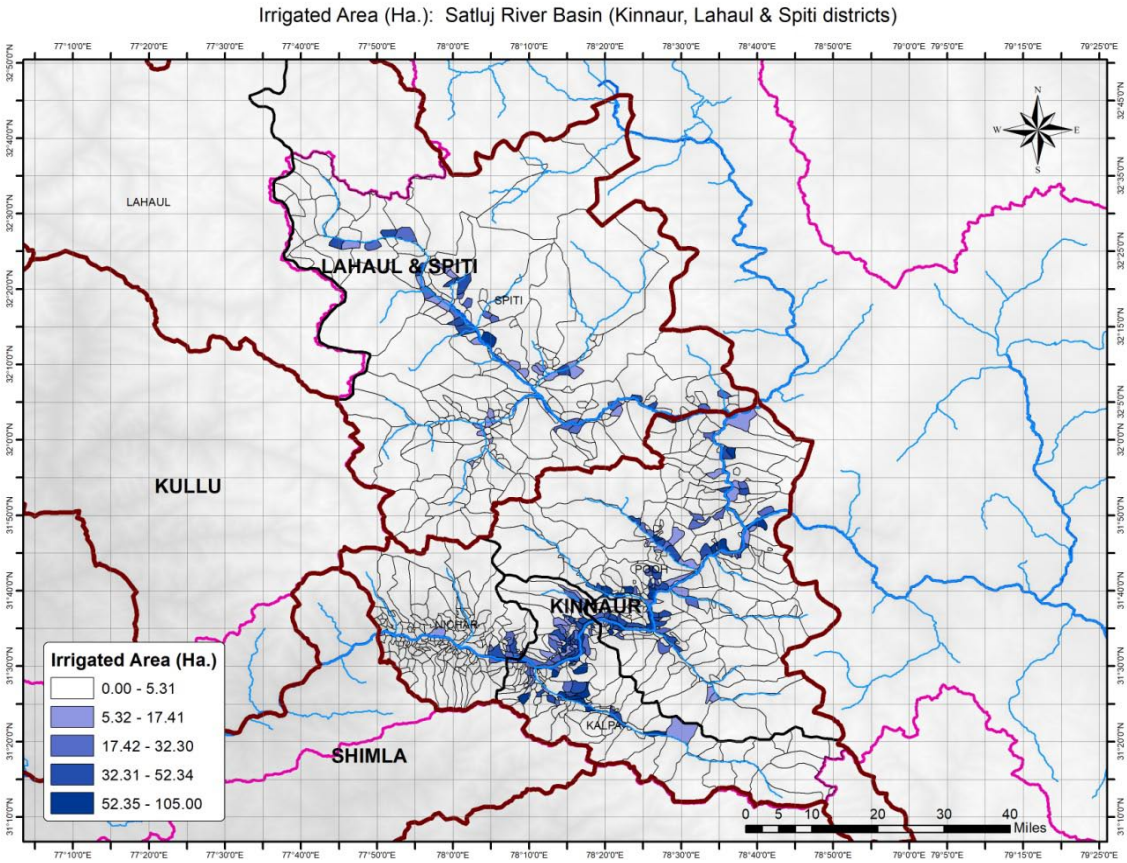
Map 9.30: Spring Source

A10 Tank/Pond/Lake



Map 9.31: Tanks/Ponds/Lakes

A11 Irrigated Area



Map 9.32: Irrigated Area (Hectares)

9.8 Composite Adaptive Capacity

Adaptive Capacity has been calculated using normalization of values of 11 variables viz. Educational Institutes, Health Institutes, Road Network, Agricultural Credit Societies, Self Help Group, Mandis/Regular Market, Agricultural Marketing Society, Hand Pump, Spring Source, Tank/Pond/Lake, Irrigated Area. Since the values are of different scale and units the normalization of indicators using functional relationship is done.

Variable Indicator A11 i.e. Irrigated Area has ↑ functional relationshipwith adaptive capacity and the normalization is done using the formula, which means the increase in Irrigated Area will increase the Adaptive Capacity resulting reduction in climate changevulnerability:

$$x_{ij} = \frac{X_{ij} - Min_i \{X_{ij}\}}{Max_i\{X_{ij}\} - Min_i\{X_{ij}\}}$$

After calculating the score of variables A01 to A11 the average score is calculated and the Composite Adaptive Capacity is calculated and mapped for all census villages:

V Code	Village Name	Block	District	Indicators/Variables											COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
026992	Dhar Rawal	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026993	Dhar Kyari	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026994	Nang Kashang	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.01
026995	Kashag Gramag	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.03
026996	Jangal Mehfuza	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026997	Kashang Getige	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.02
026998	Jangal Mehfuza	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026999	Ragura	KALPA	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.36	0.31

V Code	Village Name	Block	District	Indicators/Variables											COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
027000	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027001	Khwanta	KALPA	Kinnaur	0.06	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.47	0.46
027002	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027003	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.01
027004	Dhar Kurak Tasang	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027005	Dhar Gurgurti	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027006	Mebar	KALPA	Kinnaur	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.16
027007	Japredin	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.17
027008	Change	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.14
027009	Panwa	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.02
027010	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
027011	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027012	Boktu	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.07	0.27
027013	Pangi	KALPA	Kinnaur	0.50	0.13	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.49	0.53
027014	Purbani Khas	KALPA	Kinnaur	0.11	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.24
027015	Rawa	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.18
027016	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027017	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027018	Dhar Jeshta Grang	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027019	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027020	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027021	Kibar	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.04
027022	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027023	D.P.F. Talampi C	KALPA	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.17
027024	Pawari	KALPA	Kinnaur	0.11	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.23
027025	Telingi	KALPA	Kinnaur	0.11	0.06	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.25	0.44
027026	Tarkhwa	KALPA	Kinnaur	0.06	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.45	0.45
027027	Maki Mrang	KALPA	Kinnaur	0.00	0.06	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.21	0.42
027028	Khwangi	KALPA	Kinnaur	0.33	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.44	0.49
027029	Kothi	KALPA	Kinnaur	0.28	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.22
027030	Duni	KALPA	Kinnaur	0.11	0.06	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.37	0.46
027031	Kashmir	KALPA	Kinnaur	0.06	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.71	0.49
027032	Gonang	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.17
027033	Goli	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.15
027034	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027035	Dumdumka	KALPA	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.15
027036	Radule	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.25	0.29
027037	Dhar Dhumpawang	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027038	Dhar Shulacha Pilaya	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027039	Kastyo	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.13
027040	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027041	Dakhaye	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.16
027042	Talangcho	KALPA	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.15
027043	D.P.F. Rogi Soyam	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027044	D.P.F. Rogi Doyam	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027045	D.P.F. Rogi Awal	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027046	Rogi	KALPA	Kinnaur	0.11	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.18
027047	Shuda Rang	KALPA	Kinnaur	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.20
027048	D.P.F. Chini Doyam	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027049	Saryo	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.20
027050	D.P.F. Chini Awal	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14
027051	Kalpa	KALPA	Kinnaur	0.39	0.19	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.53	0.40
027052	Brelingi	KALPA	Kinnaur	0.11	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.25	0.31
027053	Reckong Peo	KALPA	Kinnaur	1.00	0.63	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.10	1.00
027054	Yuwaringi	KALPA	Kinnaur	0.22	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.30	0.33
027055	Raang	KALPA	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.32	0.31
027056	Yusaring	KALPA	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.18
027057	Rali	KALPA	Kinnaur	0.11	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.17
027058	D.P.F. Rali C-167	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027059	D.P.F. Gramag C-168	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027060	Phayag Choden	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.10
027061	Dhar Yutingra	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027062	Mebar Khas	KALPA	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.16
027063	D.P.F. Nalango C-169 AB	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027064	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027065	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027066	Barang Khas	KALPA	Kinnaur	0.11	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.24
027067	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

V Code	Village Name	Block	District	Indicators/Variables											COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
027068	Sharmi	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.02
027069	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027070	Tangling	KALPA	Kinnaur	0.17	0.06	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.41	0.34
027071	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027072	Meling Khata	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027073	Dhar Motas Chakru	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027074	Tatkhawa Kanda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.11
027075	Dhar Tikulrung Thar	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027089	Shorang	KALPA	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.16
027090	D.P.F. Bada Kamba C 97	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027091	Kumrang Dhar	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027264	Thikru	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027265	D.P.F.C-137 A+B	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027266	Nyardeem	KALPA	Kinnaur	0.44	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.28
027267	D.P.F.C-138 Thikru	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027268	D.P.F.C-139 Tiuden	KALPA	Kinnaur	0.11	0.13	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	0.24	0.58
027269	Kilba Khas	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027270	D.P.F.C-140-141 Kilba	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027271	Kanahi-Khas	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027272	D.P.F.C-143 Sapni	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.13
027273	D.P.F. C-142-144 Kumkumi	KALPA	Kinnaur	0.33	0.19	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.22
027274	Gunthar	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.15
027275	Patyo	KALPA	Kinnaur	0.06	0.19	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.17
027276	Sapni Khas	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027277	Shenan Den	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027278	Baturi	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027279	D.P.F. Baturi C-145	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027280	Baturi Kanda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027281	Supitang Dhar	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027282	Pilacho Dhar	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027283	Botyaring Dhar	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027284	Batingra Dhar	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027285	Anati Dhar	KALPA	Kinnaur	0.17	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.20
027286	D.P.F.C-146	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027287	D.P.F.C-147-148	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027288	Barua Khas	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027292	Regsthang	KALPA	Kinnaur	0.00	0.06	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.40
027293	D.P.F.C-164	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027294	D.P.F.C-151 A+B	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027295	Shobre Yanang	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.08
027296	D.P.F.C 149-150	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027297	Nagassaring	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027298	Mone Rang	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027299	Tilchakhula Dhar	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027300	Bulcho Dhar	KALPA	Kinnaur	0.28	0.13	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.48	0.50
027301	Dhar Pashel	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027302	Tesha Guden	KALPA	Kinnaur	0.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.08	0.40
027303	Shaung Khas	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027304	D.P.F.C-152	KALPA	Kinnaur	0.22	0.06	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.35
027305	Limoden	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027306	D.P.F.C-152	KALPA	Kinnaur	0.00	0.06	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00	0.29	0.56
027307	Chasu Khas	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
027308	Dhar Dambar	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027309	Jareyo	KALPA	Kinnaur	0.00	0.06	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.40
027310	D.P.F.C-153 Chindo	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.01	0.26
027311	Dhar Rupan	KALPA	Kinnaur	0.39	0.25	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.47
027312	Sangla Kanda	KALPA	Kinnaur	0.06	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.61	0.47
027313	D.P.F.C-154-155	KALPA	Kinnaur	0.17	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.41	0.46
027314	Sangla	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.15
027315	Kupa	KALPA	Kinnaur	0.17	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.33
027316	Kamru Khas	KALPA	Kinnaur	0.06	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.22
027317	Lachonden	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027318	Goroden	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027319	Thapa Saring	KALPA	Kinnaur	0.17	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.23
027320	Panpo Kanda	KALPA	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027321	D.P.F.C-162	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027322	Boning Saring	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027323	D.P.F.C 157 Basering	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

V Code	Village Name	Block	District	Indicators/Variables											COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
027324	D.P.F Hurua-C-156	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027325	Dewar Kanda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027326	Dhar Dewar	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027327	Dhar Hanyauperli	KALPA	Kinnaur	0.28	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.26
027328	Dhar Singan	KALPA	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.14
027329	Dhar Hanyanichli	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027330	Batseri	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027331	Seringche	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027332	D.P.F.C 162-B	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027333	Dhar Bujlang	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027334	Dhar Bhadri	KALPA	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.32	0.31
027335	D.P.F.C.-160	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027336	D.P.F.C-161	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027337	Kharogla	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027338	D.P.F.C 162-A	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027339	D.P.F.C-163	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027340	D.P.F.C-159 Batseri	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027341	Dhar Kalikutang Nichli	KALPA	Kinnaur	0.33	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.25
027342	Dhar Kali Kutang Uperli	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027343	Dhar Kamkamphur	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027344	Rakchham	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027345	Dhar Shoshla	KALPA	Kinnaur	0.22	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.16
027346	Dhar Gelap	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027347	Dhar Tawla	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027348	Mastrang	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027349	Dhar Noshang West	KALPA	Kinnaur	0.22	0.13	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.53	0.37
027350	Dhar Noshang Uperli	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01
027351	Dhar Noshang Nichli	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027352	Chhitkul	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027353	Dhar Bhujlang	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027354	Dhar Bhujaya	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027355	Dhar Gire	KALPA	Kinnaur	0.00	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027356	Dhar Shothang	KALPA	Kinnaur	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
027357	Dhar Hilap	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027358	Dhar Ranikanda	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027359	Dhar Shonchayo	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027360	Dhar Dumti	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027361	Dhar Nithal	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027362	Dhar Karu	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027363	Dhar Vaspa	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027364	Dhar Gundar	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027365	Dhar Jowtya	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027366	Dhar Nakdum	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027367	Dhar Arsomage	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027368	Dhar Chorgaarh	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027369	Dhar Nakurchhe	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027370	Dhar Thanda Pani	KALPA	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027076	Dhar Taal	NICHAR	Kinnaur	0.22	0.06	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
027077	Galding	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
027078	Shamnu	NICHAR	Kinnaur	0.11	0.06	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.41
027079	Majhgaon	NICHAR	Kinnaur	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027080	Nainsaring	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027081	Shagarcha	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027082	Dabling	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027083	Pashpa	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027084	Burang	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027085	Hurba	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027086	Tinrang	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027087	D.P.F. Rupi Shorang Awal	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027088	D.P.F. Rupi Shorang	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027089	Shorang	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027090	D.P.F. Bada Kamba C 97	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027091	Kumrang Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027092	Dhar Barke	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027093	Gharshu	NICHAR	Kinnaur	0.17	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
027094	D.P.F.Chhota Kamba	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027095	Basharang	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
027096	D.P.F.Chhota Kamba	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

V Code	Village Name	Block	District	Indicators/Variables										COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
027097	Chhota Kamba	NICHAR	Kinnaur	0.22	0.13	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
027098	Tiche	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027099	Bara Kamba	NICHAR	Kinnaur	0.17	0.06	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.42
027100	Dhar Phopal	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027101	D.P.F.C.-94	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027102	Salaring	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027103	Bayude	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027104	Rock Charang	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027105	Kachrang	NICHAR	Kinnaur	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027106	D.P.F.C-93 Dangrang Kachrang	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027107	Regegurgur Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027108	Yongrang Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027109	Saak Kanda	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027110	D.P.F.C-92	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027111	Kandar	NICHAR	Kinnaur	0.11	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.16
027112	Nathpa	NICHAR	Kinnaur	0.17	0.13	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.07	0.31
027113	Neugal Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027114	Shaling Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027115	Homte	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
027116	D.P.F.Kampurang C-90	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027117	Kafnu	NICHAR	Kinnaur	0.22	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.42
027118	Marpuling	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027119	Yangpa	NICHAR	Kinnaur	0.22	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.42
027120	Huri	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.40
027121	Masrang	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
027122	Sharoongch Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027123	Thuskeo Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027124	Chhirem	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
027125	D.P.F.Yati C-91	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027126	Yotrang	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027127	Katgaon	NICHAR	Kinnaur	0.50	0.19	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.61
027128	Karaba	NICHAR	Kinnaur	0.11	0.06	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
027129	Pandoshwar Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027130	Surcho	NICHAR	Kinnaur	0.11	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
027131	D.P.F.Dutrang C-89	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027132	Shango	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.27
027133	Baiyee	NICHAR	Kinnaur	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027134	Rarang	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027135	Kangarang	NICHAR	Kinnaur	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027136	D.P.F.-80	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027137	Puje	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027138	Agade	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027139	Linge	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027140	Garade	NICHAR	Kinnaur	0.06	0.19	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
027141	Kashpo	NICHAR	Kinnaur	0.22	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.29
027142	D.P.F.-81	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027143	Nigani	NICHAR	Kinnaur	0.06	0.06	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.27
027144	D.P.F.-82	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027145	D.P.F.-83	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027146	Rango	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027147	Rethachang Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027148	Chhot Kanda	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027149	Deya Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027150	Somo	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027151	Paring Khor	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027152	Kangosh	NICHAR	Kinnaur	0.17	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
027153	D.P.F.-78	NICHAR	Kinnaur	0.17	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.28
027154	Sungra	NICHAR	Kinnaur	0.44	0.06	1.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.45
027155	Punaspa	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027156	Saki Charang	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.40
027157	Baro	NICHAR	Kinnaur	0.06	0.06	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.27
027158	D.P.F.-79	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027159	Solding	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.27
027160	Palingi	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.27
027161	Ponda	NICHAR	Kinnaur	0.28	0.06	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.43
027162	Ralpa	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027163	Change	NICHAR	Kinnaur	0.17	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.41
027164	Gramang	NICHAR	Kinnaur	0.17	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28

V Code	Village Name	Block	District	Indicators/Variables											COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
027165	Rawa	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027166	D.P.F.-74	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027167	Chhayuda Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027168	D.P.F.-75,76	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027169	Rango	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027170	D.P.F.-77	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027171	Monilaat Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027172	Sarik Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027173	Nigul Sari	NICHAR	Kinnaur	0.22	0.13	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.43
027174	Thachh	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027175	Chaura	NICHAR	Kinnaur	0.22	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
027176	Kafaur	NICHAR	Kinnaur	0.06	0.06	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
027177	Shilani	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027178	D.P.F-68 A,B,C	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027179	Sarkund Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027180	D.P.F.69,70	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027181	Tikrang	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027182	Chhonda	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027183	Nanaspo	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027184	Karape	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
027185	Tranda	NICHAR	Kinnaur	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027186	D.P.F-72	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027187	D.P.F-72	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027188	D.P.F-Kutange C	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027189	D.P.F. Bore C	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027190	Phulyari Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027191	Gundali Tirmi Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027192	D.P.F-73 C	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027193	Bagantu Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027194	Bahal Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027195	Devli Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027196	Mohal Nishvasingh	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027197	Bhum Talas Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027198	Shaling Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027199	Phaktayowar Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027200	D.P.F.-84	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027201	Burcha	NICHAR	Kinnaur	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027202	D.P.F.-85	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027203	Joktaring	NICHAR	Kinnaur	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
027204	D.P.F.-86 A	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027205	Panwi Khas	NICHAR	Kinnaur	0.22	0.19	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.44
027206	D.P.F.-86 B	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027207	D.P.F.- C 126	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027208	D.P.F.- C 127	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027209	D.P.F.1 -128 A	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027210	Tando Nusko Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027211	Baltha Chang Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027212	Atang Melang Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027213	Yashang Dhar	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
027214	D.P.F.C - 258 B Tiyudang	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027215	D.P.F.Kangarang C-87 A,88 B	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027216	Kangarang	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027217	D.P.F.Tilchang C-256,257-258A	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027218	Shakamrang	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027219	Raag Panung	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.14
027220	Shakhar Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027221	Chatrang Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027222	Urabaning	NICHAR	Kinnaur	0.22	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
027223	Tapri	NICHAR	Kinnaur	0.17	0.19	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.34	0.74
027224	Dharmaling	NICHAR	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.16
027225	Yashang	NICHAR	Kinnaur	0.22	0.06	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.03	0.30
027226	Rora Kanda	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027227	Shunathachang Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027228	D.P.F.-Rachmanang C-254-255	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027229	Rall Santhang	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027230	Urni Khas	NICHAR	Kinnaur	0.06	0.13	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.27	0.32
027231	D.P.F.Baragdo C-253	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027232	Yulla Khas	NICHAR	Kinnaur	0.11	0.06	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.25	0.31

V Code	Village Name	Block	District	Indicators/Variables											COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
027233	Yuldang	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
027234	Kutano	NICHAR	Kinnaur	0.22	0.06	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.26	0.33
027235	D.P.F.Bargde C-252	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027236	D.P.F.Tilchoka C-251	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027237	Meeru Khas	NICHAR	Kinnaur	0.17	0.19	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.43	0.36
027238	D.P.F.Balaey C-250	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027239	D.P.F.Kashtee C-249	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027240	Ghumaruning	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.01	0.26
027241	Rukchawal Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027242	Runang Uperla	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027243	D.P.F.Runang C-248	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027244	Runang Nichla	NICHAR	Kinnaur	0.06	0.06	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.18	0.30
027245	Cholling	NICHAR	Kinnaur	0.11	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.17	0.30
027246	D.P.F. Kangsthal 128 B,129	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027247	Kagsthal	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
027248	Jani	NICHAR	Kinnaur	0.17	0.13	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.43
027249	Ramni Khas	NICHAR	Kinnaur	0.22	0.06	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.43
027250	Shuthanang	NICHAR	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
027251	Boring Chot Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027252	Roshang Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027253	Morang Kanda	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027254	D.P.F Ramni	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027255	D.P.F.Jani-131-132 A.B	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027256	Kalingo	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027257	Upat Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027258	Chhal Patri Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027259	Dulgi Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027260	Solah Dhar	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027261	Punang Kanda	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027262	D.P.F.Punang 133-136	NICHAR	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
027263	Punang Khas	NICHAR	Kinnaur	0.22	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.30	0.46
026714	Sumra	POOH	Kinnaur	0.17	0.06	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.37	0.34
026715	Dhar Langtharkheyu	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026716	Dhar Harmi	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026717	Dhar Phu	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026718	Dhar Kukri	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026719	Dhar Liyosu	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026720	Dhar Demchu	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026721	Thang Karma	POOH	Kinnaur	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.12	0.27
026722	Dhar Yang Pochhe	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026723	Dhar Pijong	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026724	Dhar Kawe	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026725	Shalkar	POOH	Kinnaur	0.06	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.25	0.30
026726	Dhar Mandasa	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026727	Dhar Dugona	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026728	Dhar Yungdang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026729	Changjam	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026730	Dhar Chango Uperla	POOH	Kinnaur	0.22	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.86	0.40
026731	Dhar Chango Nichla	POOH	Kinnaur	0.22	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.49	0.48
026732	Dhar Kumsa	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026733	Dhar Pargira	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026734	Dhar Khirpichi	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026735	Hemi	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026736	Liti	POOH	Kinnaur	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.01	0.26
026737	Yulang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01
026738	Dhar Lauechhe	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026739	Dhar Choniti	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026740	Dhar Bhajang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026741	Dhar Lipak	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026742	Dhar Jabar	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026743	Dhar Karsi	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026744	Dhar Chara Thang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026745	Dhar Khakrash	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026746	Malling Dogri	POOH	Kinnaur	0.00	0.06	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.06	0.27
026747	Malling	POOH	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.16
026748	Dhar Shansar	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026749	Nako	POOH	Kinnaur	0.22	0.19	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.50	0.51
026750	Yangthang	POOH	Kinnaur	0.06	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.09	0.28

V Code	Village Name	Block	District	Indicators/Variables											COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
026751	Leo	POOH	Kinnaur	0.28	0.19	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.36	0.37
026752	Shuni	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
026753	Dhar Thana	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026754	Dhar Dumdumthang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026755	Dhar Pegdu	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026756	Dhar Biepuche	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026757	Dhar Potali	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026758	Dhar Chang Chimo	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026759	Chang Chimo	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026760	Hango	POOH	Kinnaur	0.22	0.13	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.25	0.34
026761	Dung	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
026762	Hangmat	POOH	Kinnaur	0.11	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.28	0.31
026763	Dhar Pusang Dang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026764	Chuling	POOH	Kinnaur	0.22	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.30	0.33
026765	Dhar Lasangthang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026766	Dhar Lambrafa	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026767	Ka	POOH	Kinnaur	0.11	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.40
026768	Dhar Lahyok	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026769	Dhar Lalosa	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026770	Dhar Kila	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026771	Dhar Manela	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026772	Dhar Larsa Niyowal	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026773	Up Mohal Thoropa	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.32	0.30
026774	Dhar Chang Guar Guar	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026775	Up Mohal Ropakhas	POOH	Kinnaur	0.17	0.06	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.28	0.45
026776	D.P.F.C-205	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026777	Up Mohal Sumtat	POOH	Kinnaur	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.17
026778	D.P.F.C-204	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026779	Up Mohal Shive	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
026780	D.P.F.C-201	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026781	D.P.F.C-200	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026782	Up Mohal Charti	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
026783	D.P.F.C-202	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026784	D.P.F.C-203	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026785	Up Mohal Giabong Khas	POOH	Kinnaur	0.28	0.19	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.72	0.67
026786	Up Mohal Giabong Parla	POOH	Kinnaur	0.11	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.08	0.28
026787	D.P.F.C-208	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026788	D.P.F.C-207	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026789	D.P.F.C-206	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026790	Up Mohal Jang Phachho	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026791	Dhar Khabai	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026792	Up Mohal Brati Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
026793	D.P.F.C-209	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026794	Up Mohal Taling	POOH	Kinnaur	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.08	0.28
026795	Up Mohal Rush Kulang	POOH	Kinnaur	0.11	0.00	1.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	0.39	0.58
026796	Up Mohal Sunam Khas	POOH	Kinnaur	0.22	0.06	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.23	0.59
026797	Up Mohal Chelit Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.02
026798	Up Mohal Khad Makha	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026799	Dhupak	POOH	Kinnaur	0.17	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.35	0.33
026800	D.P.F.C-210	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026801	Up Mohal Chelit	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
026802	Dhar Binathang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026803	Up Mohal Shurpu	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.05
026804	Up Mohal Tapang Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.03
026805	Dhar Mandal Gurunag	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026806	D.P.F.C-212	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026807	Up Mohal Labrang Khas	POOH	Kinnaur	0.22	0.19	1.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.43	0.76
026808	Up Mohal Namkalang	POOH	Kinnaur	0.28	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.19	0.45
026809	Up Mohal Foche	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026810	D.P.F.C-214	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026811	Up Mohal Spiloo Khas	POOH	Kinnaur	0.17	0.19	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00	0.73	0.79
026812	D.P.F.C-213	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026813	Up Mohal Kanam Khas	POOH	Kinnaur	0.28	0.19	1.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	0.28	0.61
026814	D.P.F.C-211	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026815	Up Mohal Kanam Nichla	POOH	Kinnaur	0.17	0.06	1.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	0.37	0.60
026816	Up Mohal Gyamil	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.06	0.27
026817	Dhar Gyabyum	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026818	Dhar Dumba	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

V Code	Village Name	Block	District	Indicators/Variables											COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
026819	Up Mohal Shyaso	POOH	Kinnaur	0.11	0.00	1.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	0.14	0.55
026820	Dhar Chho	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026821	Dhar Aye	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026822	Up Mohal Rizing Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.05
026823	Up Mohal Danmochhe	POOH	Kinnaur	0.17	0.06	1.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.60	0.76
026824	Up Mohal Labrang	POOH	Kinnaur	0.00	0.13	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.18	0.43
026825	Up Mohal Poo	POOH	Kinnaur	0.33	0.13	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.53	0.52
026826	Up Mohal Doling Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
026827	Dhar Dolma	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026828	Up Mohal Chakulang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
026829	Up Mohal Khabo	POOH	Kinnaur	0.11	0.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.12	0.55
026830	Up Mohal Namgia Kanda	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.16	0.28
026831	Up Mohal Namgia Khas	POOH	Kinnaur	0.28	0.13	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.52	0.51
026832	Up Mohal Tashi Gang	POOH	Kinnaur	0.11	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.19	0.30
026833	Dhar Potal	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026834	Dhar Chhopan	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026835	Dhar Yangusa	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026836	Up Mohal Thunsa Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026837	Dhar Dulse Thang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026838	Up Mohal Dulse Thang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026839	Dhar Thunsa	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026840	Up Mohal Yangti Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026841	Up Mohal Dubling	POOH	Kinnaur	0.17	0.06	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33
026842	Mohal Bali Dhar	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026843	D.P.F.C-199	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026844	Up Mohal Dabling	POOH	Kinnaur	0.17	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.19	0.31
026845	D.P.F.C-198	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026846	Up Mohal Rishi Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026847	Dhar Maryul	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026848	Dhar yang Dogsa	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026849	Dhar Yurfuk	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026850	Dhar Rishi	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026851	Horang Pawa	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.08	0.27
026852	Dhar Piwung	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026853	Nesang Khas	POOH	Kinnaur	0.28	0.13	1.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	0.28	0.61
026854	Shaktang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026855	Dhar Doge	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026856	Gyamting	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026857	Dhar Warchha	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026858	Piana	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026859	Khadi	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026860	Dhar Tipung	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026861	Dhar Rothen	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026862	Dhar Lungpha	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026863	Dhar Joganchan	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026864	Jagechan	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026865	Dhar Chamangti	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026866	Dhar Lung Kurkur	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026867	Dhar Lawar	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026868	Dhar Tepang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026869	Shuti Garang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026870	Dhar Gunjang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026871	Dhar Wari	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026872	Becho Thach	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026873	Dhar Bhang Mochhe	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026874	Dhar Shyangla	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026875	Fulang Thach	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026876	Dhar Kagte	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026877	Dhar Kyari	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026878	Porang Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.04
026879	Tokto	POOH	Kinnaur	0.17	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.32	0.45
026880	Dhar Mateng	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026881	Dhar Begulum	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026882	Dangrang Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026883	Dhar Changmang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026884	Changmang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
026885	D.P.F. C-216	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026886	Chakra	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.03

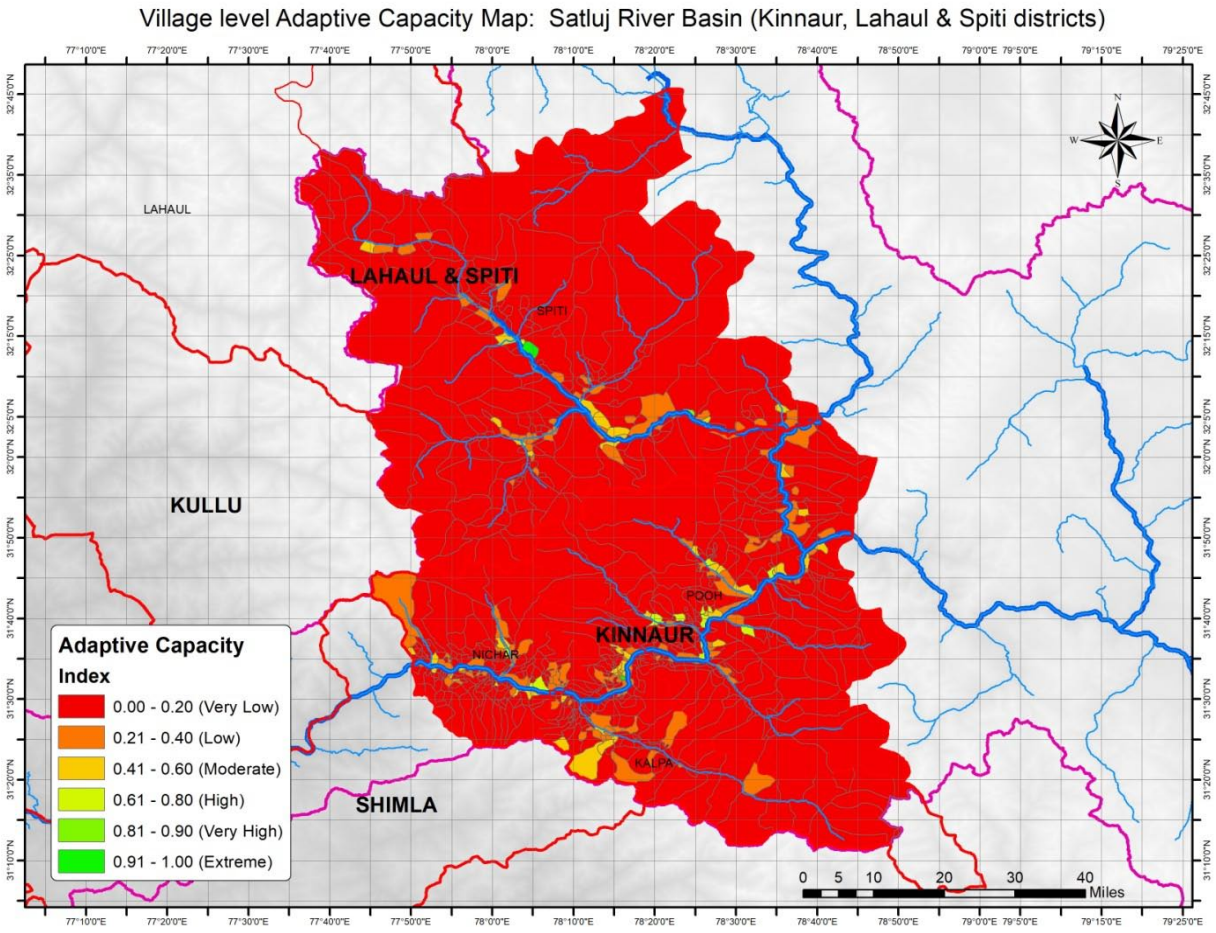
V Code	Village Name	Block	District	Indicators/Variables											COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
026887	Lippa Khas	POOH	Kinnaur	0.28	0.19	1.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.81	0.68
026888	D.P.F.C-220	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026889	D.P.F.C-217	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026890	Lapo	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.21
026891	D.P.F- C 218	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026892	Asrang Khas	POOH	Kinnaur	0.11	0.13	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.55	0.62
026893	D.P.F. C-219	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026894	D.P.F .C-219	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026895	Dhar Urang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026896	Gyangra	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026897	Saring	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026898	D.P.F C -232	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026899	D.P.F.C-231	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026900	Sheelapur	POOH	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.16
026901	D.P.F.C-230	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026902	Swaden	POOH	Kinnaur	0.06	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.19
026903	Dhar Gongra	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026904	Dhar Khatij	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026905	Chhappan	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026906	D.P.F.C -221	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026907	D.P.F.C-222	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026908	Rijing	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.14
026909	D.P.F.C-223	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026910	D.P.F.C-225	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
026911	D.P.F.C-215	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026912	Kutang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.04
026913	Dhar Shiling Khona	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026914	Nakal Kuwa	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
026915	Samodpan Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01
026916	Dhar Timchhe	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026917	Thuwaring	POOH	Kinnaur	0.06	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.32	0.44
026918	Gramang	POOH	Kinnaur	0.06	0.06	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.41	0.33
026919	Jangi Khas	POOH	Kinnaur	0.17	0.06	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.65	0.63
026920	D.P.F.C-224	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026921	D.P.F.C-226	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026922	D.P.F.C-227	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026923	Dhar Jubling	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026924	Ringchil Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
026925	Satera	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
026926	D.P.F.C-228	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026927	Khadura	POOH	Kinnaur	0.17	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.20
026928	D.P.F.C-229	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026929	Rarang Khas	POOH	Kinnaur	0.28	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.24
026930	Paranga	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.18
026931	D.P.F.C- 187	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01
026932	D.P.F.C-186	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
026933	Sirmoling	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.13
026934	Chhuyian	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.17
026935	Dhar Jeshtharang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026936	Dhar Puranga	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026937	Bato	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.20
026938	D.P.F.C-188	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13
026939	Kutian	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.17
026940	Ribba Khas	POOH	Kinnaur	0.06	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.19
026941	Holdang	POOH	Kinnaur	0.22	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.26
026942	Skiba	POOH	Kinnaur	0.11	0.13	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.18	0.31
026943	Akpa Khas	POOH	Kinnaur	0.22	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.21
026944	Up Muhal Holdo	POOH	Kinnaur	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.15
026945	Rispa Khas	POOH	Kinnaur	0.11	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.02	0.28
026946	Lijing	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.14
026947	Khokpa	POOH	Kinnaur	0.06	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.39	0.32
026948	D.P.F.C-197	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026949	Shiling Khas	POOH	Kinnaur	0.22	0.19	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.31	0.35
026950	Shurboo Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
026951	Roowang	POOH	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.16
026952	D.P.F.C-196	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026953	Swaling	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
026955	Dhar Khayo	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

V Code	Village Name	Block	District	Indicators/Variables										COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
026956	Dhar Yamdaling	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026957	Dhar Lochhas	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026958	Dhar Wishrang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026959	Lambar	POOH	Kinnaur	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.14
026960	D.P.F.C-195	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026961	Thangi Khas	POOH	Kinnaur	0.22	0.19	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.24
026962	Pibbar	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.03
026963	D.P.F.C-194	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026964	D.P.F.C-193	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026965	D.P.F.C-191-192	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026966	Asno Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
026967	Up Muhal Cherang Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
026968	Panah Kanda	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
026969	D.P.F. C -189 -190	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
026970	Chang Kuwa	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
026971	Kurpo	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.16
026972	Dhar Panah	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026973	Dhar Kushkar	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026974	Dhar Gara	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026975	Dhar Sunkham	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026976	Dhar Parmati	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026977	Dhar Lalanti	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026978	Kyarbo	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026979	Surting Ting	POOH	Kinnaur	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
026980	Dhar Shangchawal	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026981	Kuno Khas	POOH	Kinnaur	0.06	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.15
026982	Kota	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026983	Dhar Shilachh	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026984	Dhar Dulmnish	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026985	Dhar Brati	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026986	Charang Khas	POOH	Kinnaur	0.11	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.17
026987	Gigu Lang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.01
026988	Wevgya	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
026989	Dhar Chang kuche	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026990	Dhar Mangla	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
026991	Dhar Gunrang	POOH	Kinnaur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012445	Dhar Dagduk	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012446	Dhar Malung Samdo	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012449	Dhar Rilosar	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012450	Dhar Dojam Gyapma	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012451	Dhar Dojam	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012452	Dhar Nijom	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012453	Dhar Kabjima	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012454	Dhar Tangne	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012455	Dhar Sumdo	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012456	Dhar Vitung Nakpo	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012457	Dhar Lungmochhe	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012458	Dhar Tanve	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012460	Dhar Pallamo	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012461	Dhar Thachakarpo	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012462	Dhar Siti Khud	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012463	Dhar Nimaloksa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012464	Dhar Fagdansa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012465	Dhar Dindi	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012466	Losar Khas	SPITI	Lahaul & Spiti	0.11	0.13	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.34	0.46
012467	Chichong	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.15	0.29
012468	Dhar Pang Kyamo	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012469	Kyamo	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.22	0.30
012470	Dhar Latothanmo	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012471	Hansa	SPITI	Lahaul & Spiti	0.22	0.19	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.23
012472	Dhar Soksa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012473	Kaito	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.18
012474	Dhar Tamba Kurkur	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012475	Dhar Paldar	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012476	Dhar Pangmo	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012477	Dhar Ghiundi	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012478	Hull	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.22	0.30
012479	Pangmo Khas	SPITI	Lahaul & Spiti	0.06	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.17

V Code	Village Name	Block	District	Indicators/Variables											COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
012480	Jugmothang	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.05
012481	Chigjar	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012482	Dhar Laterse	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012483	Dhar Panya	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012484	Dhar Farah	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012485	Chicham Khas	SPITI	Lahaul & Spiti	0.11	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.20
012486	Ladarcha	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.01
012487	Dumley	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.01
012488	Dhar Chicham	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012489	Dhar Hal	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012490	Dhar Yakya	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012491	Kibber Khas	SPITI	Lahaul & Spiti	0.11	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.21
012492	Pinjoor	SPITI	Lahaul & Spiti	0.22	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.19
012493	Kee	SPITI	Lahaul & Spiti	0.06	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.17
012494	Gettey	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.15
012495	Tashi Gang	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.14
012496	Thinam	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012497	Dhar Lama Chung Chung	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012498	Langja	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.18
012499	Dhar Chhon Chhon Kanghilda	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012500	Hikam	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.17
012501	Komik	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
012502	Kaza Khas	SPITI	Lahaul & Spiti	0.33	0.38	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.53	0.94
012503	Kaza Soma	SPITI	Lahaul & Spiti	0.11	0.75	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.05	0.64
012504	Kagti	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15
012505	Lara Khas	SPITI	Lahaul & Spiti	0.06	0.06	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.14	0.29
012506	Shego	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.14
012507	Lidang	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16
012508	Dhar Lung Wooh	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012509	Keuling	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.27
012510	Dhar Keuling	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012511	Kuang Khas	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.15
012512	Neked	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012513	Marango Rangarik	SPITI	Lahaul & Spiti	0.50	0.13	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.46	0.53
012514	Yarango Rangarik	SPITI	Lahaul & Spiti	0.17	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.19
012515	Khurik	SPITI	Lahaul & Spiti	0.11	0.06	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.27	0.32
012516	Sumling	SPITI	Lahaul & Spiti	0.06	0.06	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.15	0.29
012517	Morang	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.14
012518	Dhar Tumserisha Doksa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012519	Dhar Sumling	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012520	Dhar Lamanduba	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012521	Dhar Ratang	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012522	Dhar Dangdagma	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012523	Dhar Pindo	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012524	Dhar Ula	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012525	Dhar Jong	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012526	Chhidang	SPITI	Lahaul & Spiti	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.02	0.26
012527	Shilling	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.14
012528	Guling	SPITI	Lahaul & Spiti	0.17	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
012529	Barpa	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
012530	Dhar Chaling	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012531	Dhar Chhau	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012532	Kong Kong	SPITI	Lahaul & Spiti	0.06	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.15
012533	Uperla Guling	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.07	0.40
012534	Kungri	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.11	0.28
012535	Mikam	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.02	0.27
012536	Phukchung	SPITI	Lahaul & Spiti	0.06	0.06	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.27
012537	Ka	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.03	0.28
012538	Minsar	SPITI	Lahaul & Spiti	0.17	0.06	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.01	0.42
012539	Polole	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012540	Dhar Kidul	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012541	Dhar Gechang	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012542	Rajgaon	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01
012543	Sagnam	SPITI	Lahaul & Spiti	0.28	0.13	1.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.17	0.46
012544	Takshan	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.02
012545	Shaktan	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012546	Thango	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
012547	Dhar Tisang	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

V Code	Village Name	Block	District	Indicators/Variables										COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
012548	Dhar Rajgaon	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012549	Dhar Changlung	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012550	Dhar Togseluganwa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012551	Dhar Thango	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012552	Dhar Khamengar	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012553	Dhar Devsa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012554	Dhar Noor	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012555	Dhar Kilung	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012556	Dhar Lakhang	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012557	Dhar Thagpat	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012558	Dhar Sonpat	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012559	Dhar Chho Chho Dain	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012560	Dhar Chhorak	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012561	Dhar Tegvaldar	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012562	Dhar Mahavaldar	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012563	Dhar Jikvaldar	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012564	Dhar Larang	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012565	Dhar Tarpak	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012566	Shan	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
012567	Dhar Sarval	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012568	Mud	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.10	0.29
012569	Pharka	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012570	Kilmoor	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
012571	Dhar Pilsur	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012572	Teling	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.12	0.29
012573	Pilsur	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012574	Chamling	SPITI	Lahaul & Spiti	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.39
012575	Haronaro	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
012576	Dhar Mallam	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012577	Dhar Jamaro	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012578	Dhar Sechin	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012579	Dhar Turwand	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012580	Dhar Sinsa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012581	Dharyansa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
012582	Phika	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012583	Dhar Charasa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012584	Todnam	SPITI	Lahaul & Spiti	0.06	0.13	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.54
012585	Khar	SPITI	Lahaul & Spiti	0.06	0.06	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.40
012586	Dhar Magling	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012587	Dhar Lalung	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012588	Dul	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01
012589	Tangti Kogma	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.40
012590	Tangti Yogma	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.40
012591	Dhar Phua	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012592	Dhar Lungje	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012593	Dhankhar	SPITI	Lahaul & Spiti	0.17	0.06	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.55
012594	Shushna	SPITI	Lahaul & Spiti	0.17	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.17
012595	Siluk	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.02	0.27
012596	Shichling	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	0.03	0.53
012597	Newpur	SPITI	Lahaul & Spiti	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.01	0.26
012598	Samling	SPITI	Lahaul & Spiti	0.17	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.03	0.41
012599	Dhar Nipti	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012600	Rama Khas	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.06	0.40
012601	Tulse Pena	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012602	Tarbole	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012603	Chobrang	SPITI	Lahaul & Spiti	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.02	0.26
012604	Lingti	SPITI	Lahaul & Spiti	0.06	0.06	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.27
012605	Sanglung	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
012606	Kunge	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
012607	Demul Khas	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.15	0.29
012608	Gangdo Demul	SPITI	Lahaul & Spiti	0.11	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.16
012609	Mulche	SPITI	Lahaul & Spiti	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.13
012610	Rizing	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
012611	Tishu	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012612	Dhartak Damdam	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012613	Dharsochin	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012614	Dhar Dum Bachen	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012615	Dhar Takling	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

V Code	Village Name	Block	District	Indicators/Variables											COMP. AC
				A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	
012616	Dhar Parang	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012617	Dhar Nusbosamdo	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012618	Dhar Chhavigya	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012619	Lalung Khas	SPITI	Lahaul & Spiti	0.11	0.13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.20
012620	Phanve	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.01
012621	Kibri	SPITI	Lahaul & Spiti	0.17	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15
012622	Yul Shikpo	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012623	Phibuk Dogri	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012624	Dhar Chokula	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012625	Dhar Gangchhumi	SPITI	Lahaul & Spiti	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
012626	Landupdeen	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
012627	Mane Yogma	SPITI	Lahaul & Spiti	0.22	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.20
012628	Kaley	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.14
012629	Lar	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012630	Dogsa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012631	Piyuche	SPITI	Lahaul & Spiti	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
012632	Mane Kogma	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.24	0.43
012633	Dhar Gunla	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012634	Dhar Mane Rang	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012635	Dhar Pomrang	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012636	Poh	SPITI	Lahaul & Spiti	0.11	0.06	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.18
012637	Pomrang	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.16
012638	Nidang	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.14
012639	Qurith	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.14
012640	Tabo	SPITI	Lahaul & Spiti	0.33	0.13	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.41	0.89
012641	Lapcha	SPITI	Lahaul & Spiti	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.01	0.39
012642	Dhar Angla	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012643	Dhar Jhanda Choksa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012644	Lari	SPITI	Lahaul & Spiti	0.06	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.37	0.44
012645	Duphuk	SPITI	Lahaul & Spiti	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.26
012646	Tipta	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012647	Dhar Chhochhodun	SPITI	Lahaul & Spiti	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
012648	Dhar Kargyupa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012649	Gipu	SPITI	Lahaul & Spiti	0.11	0.06	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.20	0.44
012650	Lirit	SPITI	Lahaul & Spiti	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.03	0.26
012651	Kun	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012652	Hiche	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012653	Hurling	SPITI	Lahaul & Spiti	0.11	0.13	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.24	0.32
012654	Dhar Karjenpa	SPITI	Lahaul & Spiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
012655	Kauirik	SPITI	Lahaul & Spiti	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
012656	Samdo	SPITI	Lahaul & Spiti	0.22	0.13	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30



Map 9.33: Village wise Composite Adaptive Capacity

Map 9.33 depicts that the adaptive capacity almost all the villages of blocks of Kinnaur, Lahaul & Spiti district is very poor/low except villages located near the Spiti River & Satluj River. The main reason of the low adaptive capacity are that the less number of Irrigation facilities, less number of Educational Institutes, Health Institutes, Road Network, Agricultural Credit Societies, Self Help Group, Mandis/Regular Market, Agricultural Marketing Society, Hand Pump, Spring Source, Tank/Pond/Lake etc. Major obstacle of developing adaptive capacity of the region is very tough geographical conditions. Desert like conditions prevails most of the area of Kinnaur, Lahaul & Spiti district.

9.9 Composite Vulnerability

Once the weight of each indicator is determined, exposure, sensitivity and adaptive capacity maps have been prepared by taking weighted some of the rank of all relevant indicators. These three components and maps along with their functional relationship with vulnerability resulted in the final calculation of vulnerability map varying from 1 to 6 (very low, low, moderate, high, very high and extreme). The composite vulnerability rating maps have been generated using quantum GIS software.

The composite vulnerability rating is arrived at by combining the exposure, sensitivity and adaptive capacity using their respective weights using following formula:

Composite Vulnerability= (Exposure + Sensitivity- Adaptive Capacity)

The study is taken one step ahead towards determining vulnerability for all the villages separately. The vulnerabilityindex was normalized on 0 to 1 scale for all the villages of each Block in study areaand then the maps were prepared showing normalized vulnerability for

each census village.The normalized vulnerability index has been computed using following formula:

$$\text{Normalized Vulnerability} = (X-X_{min})/(X_{max}-X_{min})$$

where, X is the value of vulnerability index of the villages, X_{min} is the minimum vulnerability of the villages, X_{max} is the maximum vulnerability index ofthe villages. The following table shows the vulnerability calculated for each census village of the four developmental blocks of the district Kinnaur, Lahaul & Spiti falling in Satluj River Basin:

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
026992	Dhar Rawal	KALPA	Kinnaur	0.53	0.29	0.00	0.56
026993	Dhar Kyari	KALPA	Kinnaur	0.51	0.63	0.00	0.69
026994	Nang Kashang	KALPA	Kinnaur	0.54	0.39	0.01	0.60
026995	Kashag Gramag	KALPA	Kinnaur	0.54	0.31	0.03	0.56
026996	Jangal Mehfuza	KALPA	Kinnaur	0.54	0.26	0.00	0.55
026997	Kashang Getige	KALPA	Kinnaur	0.54	0.35	0.02	0.58
026998	Jangal Mehfuza	KALPA	Kinnaur	0.54	0.33	0.00	0.58
026999	Ragura	KALPA	Kinnaur	0.55	0.41	0.31	0.48
027000	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.55	0.33	0.00	0.58
027001	Khwanta	KALPA	Kinnaur	0.55	0.43	0.46	0.43
027002	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.55	0.41	0.00	0.61
027003	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.55	0.36	0.01	0.59
027004	Dhar Kurak Tasang	KALPA	Kinnaur	0.54	0.63	0.00	0.70
027005	Dhar Gurgurti	KALPA	Kinnaur	0.59	0.41	0.00	0.63
027006	Mebar	KALPA	Kinnaur	0.55	0.99	0.16	0.79
027007	Japredin	KALPA	Kinnaur	0.55	0.42	0.17	0.55
027008	Change	KALPA	Kinnaur	0.55	0.40	0.14	0.55
027009	Panwa	KALPA	Kinnaur	0.55	0.57	0.02	0.67
027010	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.55	0.28	0.00	0.56
027011	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.55	0.30	0.00	0.57
027012	Boktu	KALPA	Kinnaur	0.55	0.40	0.27	0.50
027013	Pangi	KALPA	Kinnaur	0.55	0.47	0.53	0.42
027014	Purbani Khas	KALPA	Kinnaur	0.55	0.51	0.24	0.56
027015	Rawa	KALPA	Kinnaur	0.55	0.36	0.18	0.52
027016	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.52	0.38	0.00	0.59
027017	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.54	0.28	0.00	0.56
027018	Dhar Jeshta Grang	KALPA	Kinnaur	0.55	0.23	0.00	0.54
027019	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.55	0.21	0.00	0.53
027020	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.55	0.22	0.00	0.53
027021	Kibar	KALPA	Kinnaur	0.55	0.37	0.04	0.58
027022	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.55	0.31	0.00	0.57
027023	D.P.F. Talampi C	KALPA	Kinnaur	0.68	0.37	0.17	0.58
027024	Pawari	KALPA	Kinnaur	0.55	0.39	0.23	0.51
027025	Telingi	KALPA	Kinnaur	0.55	0.34	0.44	0.40
027026	Tarkhwa	KALPA	Kinnaur	0.55	0.59	0.45	0.50
027027	Maki Mrang	KALPA	Kinnaur	0.55	0.66	0.42	0.54
027028	Khwangi	KALPA	Kinnaur	0.55	0.50	0.49	0.44
027029	Kothi	KALPA	Kinnaur	0.55	0.85	0.22	0.71
027030	Duni	KALPA	Kinnaur	0.55	0.67	0.46	0.53
027031	Kashmir	KALPA	Kinnaur	0.55	0.57	0.49	0.47
027032	Gonang	KALPA	Kinnaur	0.55	0.38	0.17	0.53
027033	Goli	KALPA	Kinnaur	0.55	0.33	0.15	0.52
027034	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.55	0.18	0.00	0.52
027035	Dumdumka	KALPA	Kinnaur	0.6	0.61	0.15	0.66

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
027036	Radule	KALPA	Kinnaur	0.8	0.45	0.29	0.61
027037	Dhar Dhumpawang	KALPA	Kinnaur	0.7	0.26	0.00	0.61
027038	Dhar Shulacha Pilaya	KALPA	Kinnaur	0.92	0.37	0.00	0.75
027039	Kastyo	KALPA	Kinnaur	0.99	0.47	0.13	0.77
027040	Jangal Mehfuza Mehduda	KALPA	Kinnaur	0.99	0.40	0.00	0.80
027041	Dakhaye	KALPA	Kinnaur	1	0.48	0.16	0.77
027042	Talangcho	KALPA	Kinnaur	1	0.45	0.15	0.76
027043	D.P.F. Rogi Soyam	KALPA	Kinnaur	1	0.31	0.00	0.76
027044	D.P.F. Rogi Doyam	KALPA	Kinnaur	1	0.40	0.00	0.80
027045	D.P.F. Rogi Awal	KALPA	Kinnaur	1	0.34	0.00	0.78
027046	Rogi	KALPA	Kinnaur	1	0.45	0.18	0.75
027047	Shuda Rang	KALPA	Kinnaur	1	0.45	0.20	0.74
027048	D.P.F. Chini Doyam	KALPA	Kinnaur	1	0.30	0.00	0.76
027049	Saryo	KALPA	Kinnaur	1	0.64	0.20	0.82
027050	D.P.F. Chini Awal	KALPA	Kinnaur	0.92	0.29	0.14	0.66
027051	Kalpa	KALPA	Kinnaur	0.74	0.61	0.40	0.61
027052	Brelingi	KALPA	Kinnaur	0.55	0.74	0.31	0.62
027053	Reckong Peo	KALPA	Kinnaur	0.55	0.72	1.00	0.32
027054	Yuwaringi	KALPA	Kinnaur	0.66	0.54	0.33	0.58
027055	Raang	KALPA	Kinnaur	0.94	0.47	0.31	0.67
027056	Yusaring	KALPA	Kinnaur	1	0.54	0.18	0.78
027057	Rali	KALPA	Kinnaur	1	0.40	0.17	0.73
027058	D.P.F. Rali C-167	KALPA	Kinnaur	1	0.38	0.00	0.79
027059	D.P.F. Gramag C-168	KALPA	Kinnaur	1	0.40	0.00	0.80
027060	Phayag Choden	KALPA	Kinnaur	1	0.54	0.10	0.82
027061	Dhar Yutingra	KALPA	Kinnaur	1	0.71	0.00	0.93
027062	Mebar Khas	KALPA	Kinnaur	1	0.71	0.16	0.86
027063	D.P.F. Nalango C-169 AB	KALPA	Kinnaur	1	0.41	0.00	0.81
027064	Jangal Mehfuza Mehduda	KALPA	Kinnaur	1	0.46	0.00	0.83
027065	Jangal Mehfuza Mehduda	KALPA	Kinnaur	1	0.44	0.00	0.82
027066	Barang Khas	KALPA	Kinnaur	1	0.69	0.24	0.82
027067	Jangal Mehfuza Mehduda	KALPA	Kinnaur	1	0.33	0.00	0.77
027068	Sharmi	KALPA	Kinnaur	1	0.49	0.02	0.83
027069	Jangal Mehfuza Mehduda	KALPA	Kinnaur	1	0.37	0.00	0.79
027070	Tangling	KALPA	Kinnaur	0.91	0.37	0.34	0.61
027071	Jangal Mehfuza Mehduda	KALPA	Kinnaur	1	0.38	0.00	0.79
027072	Meling Khata	KALPA	Kinnaur	1	0.44	0.00	0.82
027073	Dhar Motas Chakru	KALPA	Kinnaur	0.98	0.73	0.00	0.93
027074	Tatkhawa Kanda	KALPA	Kinnaur	1	0.54	0.11	0.81
027075	Dhar Tikulrung Thar	KALPA	Kinnaur	1	0.74	0.00	0.94
027089	Shorang	KALPA	Kinnaur	0.69	0.42	0.16	0.61
027090	D.P.F. Bada Kamba C 97	KALPA	Kinnaur	0.57	0.34	0.00	0.59
027091	Kumrang Dhar	KALPA	Kinnaur	0.31	0.20	0.00	0.42
027264	Thikru	KALPA	Kinnaur	0.99	0.41	0.00	0.80
027265	D.P.F.C-137 A+B	KALPA	Kinnaur	0.99	0.34	0.00	0.77
027266	Nyardeem	KALPA	Kinnaur	0.99	0.55	0.28	0.74
027267	D.P.F.C-138 Thikru	KALPA	Kinnaur	0.99	0.35	0.00	0.78
027268	D.P.F.C-139 Tiuden	KALPA	Kinnaur	0.99	0.40	0.58	0.55
027269	Kilba Khas	KALPA	Kinnaur	0.99	0.50	0.00	0.84
027270	D.P.F.C-140-141 Kilba	KALPA	Kinnaur	0.99	0.40	0.00	0.80
027271	Kanahi-Khas	KALPA	Kinnaur	0.99	0.53	0.00	0.85
027272	D.P.F.C-143 Sapni	KALPA	Kinnaur	0.99	0.34	0.13	0.72
027273	D.P.F. C-142-144 Kumkumi	KALPA	Kinnaur	0.99	0.34	0.22	0.68
027274	Gunthar	KALPA	Kinnaur	0.99	0.63	0.15	0.83

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
027275	Patyo	KALPA	Kinnaur	0.98	0.77	0.17	0.88
027276	Sapni Khas	KALPA	Kinnaur	0.98	0.89	0.00	1.00
027277	Shenan Den	KALPA	Kinnaur	0.98	0.51	0.00	0.84
027278	Baturi	KALPA	Kinnaur	0.98	0.64	0.00	0.89
027279	D.P.F. Baturi C-145	KALPA	Kinnaur	0.98	0.37	0.00	0.78
027280	Baturi Kanda	KALPA	Kinnaur	0.98	0.67	0.00	0.91
027281	Supitang Dhar	KALPA	Kinnaur	0.98	0.35	0.00	0.77
027282	Pilacho Dhar	KALPA	Kinnaur	0.91	0.41	0.00	0.77
027283	Botyaring Dhar	KALPA	Kinnaur	0.91	0.35	0.00	0.74
027284	Batingra Dhar	KALPA	Kinnaur	0.93	0.35	0.00	0.75
027285	Anati Dhar	KALPA	Kinnaur	0.93	0.34	0.20	0.66
027286	D.P.F.C-146	KALPA	Kinnaur	0.98	0.38	0.00	0.78
027287	D.P.F.C-147-148	KALPA	Kinnaur	0.98	0.40	0.13	0.74
027288	Barua Khas	KALPA	Kinnaur	0.98	0.45	0.00	0.81
027292	Regsthang	KALPA	Kinnaur	0.98	0.44	0.40	0.64
027293	D.P.F.C-164	KALPA	Kinnaur	0.98	0.49	0.00	0.83
027294	D.P.F.C-151 A+B	KALPA	Kinnaur	0.98	0.41	0.13	0.74
027295	Shobre Yanang	KALPA	Kinnaur	0.98	0.50	0.08	0.80
027296	D.P.F.C 149-150	KALPA	Kinnaur	0.98	0.48	0.00	0.83
027297	Nagassaring	KALPA	Kinnaur	0.98	0.83	0.00	0.97
027298	Mone Rang	KALPA	Kinnaur	0.98	0.46	0.00	0.82
027299	Tilchakhula Dhar	KALPA	Kinnaur	0.98	0.35	0.00	0.77
027300	Bulcho Dhar	KALPA	Kinnaur	0.98	0.35	0.50	0.56
027301	Dhar Pashel	KALPA	Kinnaur	0.96	0.66	0.00	0.89
027302	Tesha Guden	KALPA	Kinnaur	0.98	0.39	0.40	0.62
027303	Shaung Khas	KALPA	Kinnaur	0.98	0.53	0.00	0.85
027304	D.P.F.C-152	KALPA	Kinnaur	0.98	0.37	0.35	0.63
027305	Limoden	KALPA	Kinnaur	0.98	0.56	0.00	0.86
027306	D.P.F.C-152	KALPA	Kinnaur	0.98	0.34	0.56	0.53
027307	Chasu Khas	KALPA	Kinnaur	0.98	0.50	0.26	0.72
027308	Dhar Dambar	KALPA	Kinnaur	0.96	0.76	0.00	0.94
027309	Jareyo	KALPA	Kinnaur	0.72	0.44	0.40	0.53
027310	D.P.F.C-153 Chindo	KALPA	Kinnaur	0.59	0.37	0.26	0.50
027311	Dhar Rupan	KALPA	Kinnaur	0.6	0.66	0.47	0.54
027312	Sangla Kanda	KALPA	Kinnaur	0.59	0.41	0.47	0.43
027313	D.P.F.C-154-155	KALPA	Kinnaur	0.59	0.38	0.46	0.42
027314	Sangla	KALPA	Kinnaur	0.59	0.46	0.15	0.59
027315	Kupa	KALPA	Kinnaur	0.76	0.59	0.33	0.64
027316	Kamru Khas	KALPA	Kinnaur	0.59	0.60	0.22	0.62
027317	Lachonden	KALPA	Kinnaur	0.69	0.42	0.13	0.62
027318	Goroden	KALPA	Kinnaur	0.59	0.41	0.00	0.63
027319	Thapa Saring	KALPA	Kinnaur	0.59	0.54	0.23	0.59
027320	Panpo Kanda	KALPA	Kinnaur	0.59	0.74	0.14	0.71
027321	D.P.F.C-162	KALPA	Kinnaur	0.59	0.37	0.00	0.61
027322	Boning Saring	KALPA	Kinnaur	0.59	0.51	0.00	0.67
027323	D.P.F.C 157 Basering	KALPA	Kinnaur	0.59	0.36	0.00	0.61
027324	D.P.F Hurua-C-156	KALPA	Kinnaur	0.59	0.36	0.00	0.61
027325	Dewar Kanda	KALPA	Kinnaur	0.59	0.44	0.00	0.64
027326	Dhar Dewar	KALPA	Kinnaur	0.59	0.33	0.00	0.60
027327	Dhar Hanyauperli	KALPA	Kinnaur	0.58	0.32	0.26	0.48
027328	Dhar Singan	KALPA	Kinnaur	0.58	0.38	0.14	0.56
027329	Dhar Hanyanichli	KALPA	Kinnaur	0.59	0.41	0.00	0.63
027330	Batseri	KALPA	Kinnaur	0.59	0.61	0.00	0.72
027331	Seringche	KALPA	Kinnaur	0.59	0.49	0.00	0.67

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
027332	D.P.F.C 162-B	KALPA	Kinnaur	0.59	0.43	0.00	0.64
027333	Dhar Bujlang	KALPA	Kinnaur	0.61	0.42	0.00	0.64
027334	Dhar Bhadri	KALPA	Kinnaur	0.57	0.33	0.31	0.46
027335	D.P.F.C.-160	KALPA	Kinnaur	0.54	0.28	0.00	0.56
027336	D.P.F.C-161	KALPA	Kinnaur	0.54	0.36	0.00	0.59
027337	Kharogla	KALPA	Kinnaur	0.54	0.37	0.00	0.59
027338	D.P.F.C 162-A	KALPA	Kinnaur	0.57	0.43	0.00	0.63
027339	D.P.F.C-163	KALPA	Kinnaur	0.57	0.33	0.00	0.59
027340	D.P.F.C-159 Batseri	KALPA	Kinnaur	0.56	0.29	0.00	0.57
027341	Dhar Kalikutang Nichli	KALPA	Kinnaur	0.54	0.39	0.25	0.50
027342	Dhar Kali Kutang Uperli	KALPA	Kinnaur	0.54	0.39	0.00	0.60
027343	Dhar Kamkamphur	KALPA	Kinnaur	0.54	0.32	0.00	0.57
027344	Rakchham	KALPA	Kinnaur	0.54	0.52	0.00	0.66
027345	Dhar Shoshla	KALPA	Kinnaur	0.54	0.37	0.16	0.53
027346	Dhar Gelap	KALPA	Kinnaur	0.54	0.35	0.00	0.58
027347	Dhar Tawla	KALPA	Kinnaur	0.53	0.38	0.00	0.59
027348	Mastrang	KALPA	Kinnaur	0.54	0.30	0.00	0.56
027349	Dhar Noshang West	KALPA	Kinnaur	0.54	0.43	0.37	0.46
027350	Dhar Noshang Uperli	KALPA	Kinnaur	0.54	0.35	0.01	0.58
027351	Dhar Noshang Nichli	KALPA	Kinnaur	0.53	0.27	0.00	0.55
027352	Chhitkul	KALPA	Kinnaur	0.53	0.35	0.00	0.58
027353	Dhar Bhujlang	KALPA	Kinnaur	0.54	0.36	0.00	0.59
027354	Dhar Bhujaya	KALPA	Kinnaur	0.53	0.32	0.00	0.57
027355	Dhar Gire	KALPA	Kinnaur	0.54	0.35	0.14	0.53
027356	Dhar Shothang	KALPA	Kinnaur	0.55	0.38	0.26	0.49
027357	Dhar Hilap	KALPA	Kinnaur	0.55	0.35	0.00	0.59
027358	Dhar Ranikanda	KALPA	Kinnaur	0.55	0.31	0.00	0.57
027359	Dhar Shonchayo	KALPA	Kinnaur	0.54	0.31	0.00	0.57
027360	Dhar Dumti	KALPA	Kinnaur	0.52	0.34	0.00	0.57
027361	Dhar Nithal	KALPA	Kinnaur	0.51	0.32	0.00	0.56
027362	Dhar Karu	KALPA	Kinnaur	0.51	0.31	0.00	0.56
027363	Dhar Vaspa	KALPA	Kinnaur	0.51	0.30	0.00	0.55
027364	Dhar Gundar	KALPA	Kinnaur	0.51	0.30	0.00	0.55
027365	Dhar Jowtya	KALPA	Kinnaur	0.51	0.30	0.00	0.55
027366	Dhar Nakdum	KALPA	Kinnaur	0.51	0.30	0.00	0.55
027367	Dhar Arsomage	KALPA	Kinnaur	0.56	0.27	0.00	0.56
027368	Dhar Chorgaarh	KALPA	Kinnaur	0.59	0.25	0.00	0.56
027369	Dhar Nakurchhe	KALPA	Kinnaur	0.59	0.30	0.00	0.58
027370	Dhar Thanda Pani	KALPA	Kinnaur	0.51	0.53	0.00	0.65
027076	Dhar Taal	NICHAR	Kinnaur	0.3	0.19	0.30	0.29
027077	Galding	NICHAR	Kinnaur	0.68	0.27	0.26	0.50
027078	Shamnu	NICHAR	Kinnaur	0.73	0.28	0.41	0.46
027079	Majhgaon	NICHAR	Kinnaur	0.73	0.77	0.14	0.78
027080	Nainsaring	NICHAR	Kinnaur	0.64	0.37	0.13	0.58
027081	Shagarcha	NICHAR	Kinnaur	0.73	0.52	0.13	0.68
027082	Dabling	NICHAR	Kinnaur	0.73	0.37	0.14	0.61
027083	Pashpa	NICHAR	Kinnaur	0.73	0.37	0.00	0.67
027084	Burang	NICHAR	Kinnaur	0.63	0.39	0.00	0.64
027085	Hurba	NICHAR	Kinnaur	0.72	0.52	0.00	0.73
027086	Tinrang	NICHAR	Kinnaur	0.31	0.24	0.14	0.38
027087	D.P.F. Rupi Shorang Awal	NICHAR	Kinnaur	0.48	0.15	0.14	0.42
027088	D.P.F. Rupi Shorang	NICHAR	Kinnaur	0.3	0.20	0.00	0.42
027089	Shorang	NICHAR	Kinnaur	0.69	0.42	0.00	0.68
027090	D.P.F. Bada Kamba C 97	NICHAR	Kinnaur	0.57	0.34	0.00	0.59

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
027091	Kumrang Dhar	NICHAR	Kinnaur	0.31	0.20	0.00	0.42
027092	Dhar Barke	NICHAR	Kinnaur	0.3	0.20	0.00	0.42
027093	Gharshu	NICHAR	Kinnaur	0.31	0.32	0.16	0.41
027094	D.P.F.Chhota Kamba	NICHAR	Kinnaur	0.31	0.26	0.13	0.39
027095	Basharang	NICHAR	Kinnaur	0.31	0.32	0.26	0.36
027096	D.P.F.Chhota Kamba	NICHAR	Kinnaur	0.31	0.20	0.00	0.42
027097	Chhota Kamba	NICHAR	Kinnaur	0.31	0.38	0.30	0.37
027098	Tiche	NICHAR	Kinnaur	0.3	0.27	0.00	0.45
027099	Bara Kamba	NICHAR	Kinnaur	0.3	0.38	0.42	0.32
027100	Dhar Phopal	NICHAR	Kinnaur	0.29	0.19	0.00	0.41
027101	D.P.F.C.-94	NICHAR	Kinnaur	0.31	0.25	0.00	0.44
027102	Salaring	NICHAR	Kinnaur	0.31	0.30	0.14	0.41
027103	Bayude	NICHAR	Kinnaur	0.31	0.28	0.00	0.46
027104	Rock Charang	NICHAR	Kinnaur	0.31	0.29	0.14	0.40
027105	Kachrang	NICHAR	Kinnaur	0.31	0.30	0.14	0.41
027106	D.P.F.C-93 Dangrang Kachrang	NICHAR	Kinnaur	0.31	0.28	0.00	0.46
027107	Regegurgur Dhar	NICHAR	Kinnaur	0.34	0.27	0.00	0.47
027108	Yongrang Dhar	NICHAR	Kinnaur	0.87	0.33	0.00	0.72
027109	Saak Kanda	NICHAR	Kinnaur	0.64	0.39	0.00	0.64
027110	D.P.F.C-92	NICHAR	Kinnaur	0.64	0.30	0.13	0.55
027111	Kandar	NICHAR	Kinnaur	0.73	0.38	0.16	0.61
027112	Nathpa	NICHAR	Kinnaur	0.39	0.30	0.31	0.37
027113	Neugal Dhar	NICHAR	Kinnaur	0.27	0.11	0.00	0.37
027114	Shaling Dhar	NICHAR	Kinnaur	0.72	0.32	0.00	0.65
027115	Homte	NICHAR	Kinnaur	0.98	0.60	0.27	0.76
027116	D.P.F.Kampurang C-90	NICHAR	Kinnaur	0.98	0.41	0.00	0.80
027117	Kafnu	NICHAR	Kinnaur	0.98	0.54	0.42	0.67
027118	Marpuling	NICHAR	Kinnaur	0.98	0.57	0.00	0.86
027119	Yangpa	NICHAR	Kinnaur	0.98	1.00	0.42	0.87
027120	Huri	NICHAR	Kinnaur	0.98	0.76	0.40	0.78
027121	Masrang	NICHAR	Kinnaur	0.96	0.35	0.26	0.65
027122	Sharoongch Dhar	NICHAR	Kinnaur	0.91	0.37	0.00	0.75
027123	Thuskeo Dhar	NICHAR	Kinnaur	0.31	0.13	0.00	0.39
027124	Chhirem	NICHAR	Kinnaur	0.98	0.46	0.26	0.71
027125	D.P.F.Yati C-91	NICHAR	Kinnaur	0.83	0.38	0.00	0.72
027126	Yotrang	NICHAR	Kinnaur	0.97	0.38	0.00	0.78
027127	Katgaon	NICHAR	Kinnaur	0.98	0.53	0.61	0.59
027128	Karaba	NICHAR	Kinnaur	0.98	0.54	0.28	0.73
027129	Pandoshwar Dhar	NICHAR	Kinnaur	0.82	0.32	0.00	0.69
027130	Surcho	NICHAR	Kinnaur	0.98	0.45	0.27	0.70
027131	D.P.F.Dutrang C-89	NICHAR	Kinnaur	0.98	0.43	0.00	0.81
027132	Shango	NICHAR	Kinnaur	0.98	0.48	0.27	0.71
027133	Baiyee	NICHAR	Kinnaur	0.98	0.46	0.14	0.76
027134	Rarang	NICHAR	Kinnaur	0.8	0.45	0.13	0.68
027135	Kangarang	NICHAR	Kinnaur	0.98	0.45	0.14	0.75
027136	D.P.F.-80	NICHAR	Kinnaur	0.31	0.17	0.00	0.41
027137	Puje	NICHAR	Kinnaur	0.31	0.79	0.14	0.61
027138	Agade	NICHAR	Kinnaur	0.34	0.24	0.13	0.40
027139	Linge	NICHAR	Kinnaur	0.73	0.57	0.13	0.70
027140	Garade	NICHAR	Kinnaur	0.44	0.77	0.29	0.60
027141	Kashpo	NICHAR	Kinnaur	0.38	0.71	0.29	0.55
027142	D.P.F.-81	NICHAR	Kinnaur	0.69	0.27	0.00	0.61
027143	Nigani	NICHAR	Kinnaur	0.73	0.84	0.27	0.76
027144	D.P.F.-82	NICHAR	Kinnaur	0.73	0.34	0.00	0.66

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
027145	D.P.F.-83	NICHAR	Kinnaur	0.73	0.36	0.00	0.67
027146	Rango	NICHAR	Kinnaur	0.7	0.41	0.00	0.68
027147	Rethachang Dhar	NICHAR	Kinnaur	0.68	0.39	0.00	0.66
027148	Chhot Kanda	NICHAR	Kinnaur	0.69	0.43	0.00	0.68
027149	Deya Dhar	NICHAR	Kinnaur	0.69	0.36	0.00	0.65
027150	Somo	NICHAR	Kinnaur	0.69	0.51	0.00	0.72
027151	Paring Khor	NICHAR	Kinnaur	0.69	0.43	0.13	0.63
027152	Kangosh	NICHAR	Kinnaur	0.31	0.31	0.15	0.41
027153	D.P.F.-78	NICHAR	Kinnaur	0.31	0.14	0.28	0.28
027154	Sungra	NICHAR	Kinnaur	0.31	0.49	0.45	0.36
027155	Punaspa	NICHAR	Kinnaur	0.31	0.31	0.13	0.42
027156	Saki Charang	NICHAR	Kinnaur	0.31	0.32	0.40	0.31
027157	Baro	NICHAR	Kinnaur	0.31	0.38	0.27	0.39
027158	D.P.F.-79	NICHAR	Kinnaur	0.34	0.21	0.00	0.44
027159	Solding	NICHAR	Kinnaur	0.31	0.25	0.27	0.33
027160	Palingi	NICHAR	Kinnaur	0.31	0.44	0.27	0.41
027161	Ponda	NICHAR	Kinnaur	0.31	0.54	0.43	0.39
027162	Ralpa	NICHAR	Kinnaur	0.31	0.48	0.13	0.49
027163	Change	NICHAR	Kinnaur	0.31	0.60	0.41	0.42
027164	Gramang	NICHAR	Kinnaur	0.31	0.62	0.28	0.48
027165	Rawa	NICHAR	Kinnaur	0.31	0.30	0.00	0.47
027166	D.P.F.-74	NICHAR	Kinnaur	0.31	0.18	0.00	0.42
027167	Chhayuda Dhar	NICHAR	Kinnaur	0.56	0.29	0.00	0.57
027168	D.P.F.-75,76	NICHAR	Kinnaur	0.31	0.21	0.00	0.43
027169	Rango	NICHAR	Kinnaur	0.31	0.43	0.00	0.52
027170	D.P.F.-77	NICHAR	Kinnaur	0.31	0.23	0.00	0.44
027171	Monilaat Dhar	NICHAR	Kinnaur	0.32	0.16	0.00	0.41
027172	Sarik Dhar	NICHAR	Kinnaur	0.37	0.16	0.00	0.43
027173	Nigul Sari	NICHAR	Kinnaur	0.31	0.39	0.43	0.32
027174	Thachh	NICHAR	Kinnaur	0.31	0.38	0.14	0.44
027175	Chaura	NICHAR	Kinnaur	0.7	0.41	0.29	0.56
027176	Kafaur	NICHAR	Kinnaur	0.73	0.37	0.27	0.56
027177	Shilani	NICHAR	Kinnaur	0.73	0.40	0.14	0.63
027178	D.P.F-68 A,B,C	NICHAR	Kinnaur	0.65	0.23	0.00	0.58
027179	Sarkund Dhar	NICHAR	Kinnaur	0.62	0.17	0.00	0.54
027180	D.P.F.69,70	NICHAR	Kinnaur	0.31	0.19	0.00	0.42
027181	Tikrang	NICHAR	Kinnaur	0.31	0.38	0.13	0.44
027182	Chhonda	NICHAR	Kinnaur	0.31	0.55	0.14	0.51
027183	Nanaspo	NICHAR	Kinnaur	0.31	0.57	0.14	0.52
027184	Karape	NICHAR	Kinnaur	0.31	0.34	0.26	0.37
027185	Tranda	NICHAR	Kinnaur	0.31	0.40	0.14	0.45
027186	D.P.F-72	NICHAR	Kinnaur	0.31	0.25	0.00	0.44
027187	D.P.F-72	NICHAR	Kinnaur	0.31	0.31	0.00	0.47
027188	D.P.F-Kutange C	NICHAR	Kinnaur	0.31	0.17	0.00	0.41
027189	D.P.F. Bore C	NICHAR	Kinnaur	0.31	0.19	0.00	0.42
027190	Phulyari Dhar	NICHAR	Kinnaur	0.31	0.16	0.00	0.41
027191	Gundali Tirmi Dhar	NICHAR	Kinnaur	0.31	0.17	0.00	0.41
027192	D.P.F-73 C	NICHAR	Kinnaur	0.31	0.25	0.00	0.44
027193	Bagantu Dhar	NICHAR	Kinnaur	0.31	0.18	0.00	0.42
027194	Bahal Dhar	NICHAR	Kinnaur	0.31	0.44	0.00	0.53
027195	Devli Dhar	NICHAR	Kinnaur	0.31	0.13	0.00	0.39
027196	Mohal Nishvasingh	NICHAR	Kinnaur	0.59	0.30	0.00	0.58
027197	Bhum Talas Dhar	NICHAR	Kinnaur	0.69	0.38	0.00	0.66
027198	Shaling Dhar	NICHAR	Kinnaur	0.69	0.41	0.00	0.67

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
027199	Phaktayowar Dhar	NICHAR	Kinnaur	0.69	0.42	0.00	0.68
027200	D.P.F.-84	NICHAR	Kinnaur	0.69	0.42	0.00	0.68
027201	Burcha	NICHAR	Kinnaur	0.69	0.55	0.14	0.67
027202	D.P.F.-85	NICHAR	Kinnaur	0.69	0.38	0.00	0.66
027203	Joktaring	NICHAR	Kinnaur	0.69	0.69	0.14	0.73
027204	D.P.F.-86 A	NICHAR	Kinnaur	0.69	0.44	0.13	0.63
027205	Panwi Khas	NICHAR	Kinnaur	0.69	0.57	0.44	0.56
027206	D.P.F.-86 B	NICHAR	Kinnaur	0.69	0.39	0.00	0.67
027207	D.P.F.- C 126	NICHAR	Kinnaur	0.69	0.46	0.00	0.69
027208	D.P.F.- C 127	NICHAR	Kinnaur	0.69	0.45	0.00	0.69
027209	D.P.F.1 -128 A	NICHAR	Kinnaur	0.69	0.47	0.00	0.70
027210	Tando Nusko Dhar	NICHAR	Kinnaur	0.69	0.77	0.00	0.83
027211	Baltha Chang Dhar	NICHAR	Kinnaur	0.69	0.45	0.00	0.69
027212	Atang Melang Dhar	NICHAR	Kinnaur	0.69	0.39	0.00	0.67
027213	Yashang Dhar	NICHAR	Kinnaur	0.74	0.46	0.26	0.61
027214	D.P.F.C - 258 B Tiyudang	NICHAR	Kinnaur	0.81	0.40	0.00	0.72
027215	D.P.F.Kangarang C-87 A,88 B	NICHAR	Kinnaur	0.98	0.41	0.00	0.80
027216	Kangarang	NICHAR	Kinnaur	0.98	0.42	0.00	0.80
027217	D.P.F.Tilchang C-256,257-258A	NICHAR	Kinnaur	0.9	0.34	0.00	0.73
027218	Shakamrang	NICHAR	Kinnaur	0.92	0.63	0.13	0.81
027219	Raag Panung	NICHAR	Kinnaur	0.75	0.49	0.14	0.67
027220	Shakhar Dhar	NICHAR	Kinnaur	0.98	0.35	0.00	0.77
027221	Chatrang Dhar	NICHAR	Kinnaur	0.98	0.25	0.00	0.73
027222	Urabaning	NICHAR	Kinnaur	0.72	0.63	0.16	0.71
027223	Tapri	NICHAR	Kinnaur	0.7	0.51	0.74	0.41
027224	Dharmaling	NICHAR	Kinnaur	0.69	0.75	0.16	0.75
027225	Yashang	NICHAR	Kinnaur	0.69	0.58	0.30	0.62
027226	Rora Kanda	NICHAR	Kinnaur	0.95	0.32	0.00	0.75
027227	Shunathachang Dhar	NICHAR	Kinnaur	0.99	0.31	0.00	0.76
027228	D.P.F.-Rachmanang C-254-255	NICHAR	Kinnaur	0.83	0.37	0.00	0.72
027229	Rall Santhang	NICHAR	Kinnaur	0.99	0.62	0.13	0.83
027230	Urni Khas	NICHAR	Kinnaur	0.99	0.62	0.32	0.75
027231	D.P.F.Baragdo C-253	NICHAR	Kinnaur	0.99	0.41	0.00	0.80
027232	Yulla Khas	NICHAR	Kinnaur	0.99	0.56	0.31	0.73
027233	Yuldang	NICHAR	Kinnaur	0.99	0.48	0.00	0.83
027234	Kutano	NICHAR	Kinnaur	0.99	0.47	0.33	0.69
027235	D.P.F.Bargde C-252	NICHAR	Kinnaur	0.99	0.39	0.00	0.79
027236	D.P.F.Tilchoka C-251	NICHAR	Kinnaur	0.99	0.34	0.00	0.77
027237	Meeru Khas	NICHAR	Kinnaur	0.99	0.52	0.36	0.69
027238	D.P.F.Balaey C-250	NICHAR	Kinnaur	0.99	0.37	0.00	0.78
027239	D.P.F.Kashtee C-249	NICHAR	Kinnaur	0.99	0.62	0.00	0.89
027240	Ghumaruning	NICHAR	Kinnaur	0.99	0.42	0.26	0.69
027241	Rukchawal Dhar	NICHAR	Kinnaur	0.99	0.35	0.00	0.78
027242	Runang Uperla	NICHAR	Kinnaur	0.99	0.42	0.00	0.81
027243	D.P.F.Runang C-248	NICHAR	Kinnaur	0.99	0.41	0.00	0.80
027244	Runang Nichla	NICHAR	Kinnaur	0.99	0.37	0.30	0.66
027245	Cholling	NICHAR	Kinnaur	0.99	0.48	0.30	0.70
027246	D.P.F. Kangsthal 128 B,129	NICHAR	Kinnaur	0.69	0.45	0.00	0.69
027247	Kagsthal	NICHAR	Kinnaur	0.69	0.44	0.13	0.63
027248	Jani	NICHAR	Kinnaur	0.69	0.53	0.43	0.54
027249	Ramni Khas	NICHAR	Kinnaur	0.69	0.55	0.43	0.55
027250	Shuthanang	NICHAR	Kinnaur	0.69	0.57	0.26	0.63
027251	Boring Chot Dhar	NICHAR	Kinnaur	0.69	0.36	0.00	0.65
027252	Roshang Dhar	NICHAR	Kinnaur	0.69	0.38	0.00	0.66

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
027253	Morang Kanda	NICHAR	Kinnaur	0.69	0.46	0.00	0.69
027254	D.P.F Ramni	NICHAR	Kinnaur	0.69	0.38	0.00	0.66
027255	D.P.F.Jani-131-132 A.B	NICHAR	Kinnaur	0.69	0.41	0.00	0.67
027256	Kalingo	NICHAR	Kinnaur	0.69	0.74	0.00	0.81
027257	Upat Dhar	NICHAR	Kinnaur	0.69	0.37	0.00	0.66
027258	Chhal Patri Dhar	NICHAR	Kinnaur	0.69	0.40	0.00	0.67
027259	Dulgi Dhar	NICHAR	Kinnaur	0.69	0.40	0.00	0.67
027260	Solah Dhar	NICHAR	Kinnaur	0.79	0.43	0.00	0.72
027261	Punang Kanda	NICHAR	Kinnaur	0.72	0.45	0.00	0.70
027262	D.P.F.Punang 133-136	NICHAR	Kinnaur	0.77	0.43	0.00	0.72
027263	Punang Khas	NICHAR	Kinnaur	0.74	0.61	0.46	0.58
026714	Sumra	POOH	Kinnaur	0.23	0.34	0.34	0.31
026715	Dhar Langtharkheyu	POOH	Kinnaur	0.23	0.26	0.00	0.42
026716	Dhar Harmi	POOH	Kinnaur	0.23	0.23	0.00	0.40
026717	Dhar Phu	POOH	Kinnaur	0.25	0.48	0.00	0.52
026718	Dhar Kukri	POOH	Kinnaur	0.26	0.28	0.00	0.44
026719	Dhar Liyosu	POOH	Kinnaur	0.35	0.75	0.00	0.67
026720	Dhar Demchu	POOH	Kinnaur	0.34	0.60	0.00	0.61
026721	Thang Karma	POOH	Kinnaur	0.13	0.28	0.27	0.27
026722	Dhar Yang Pochhe	POOH	Kinnaur	0.11	0.34	0.00	0.40
026723	Dhar Pijong	POOH	Kinnaur	0.23	0.32	0.00	0.44
026724	Dhar Kawe	POOH	Kinnaur	0.38	0.30	0.00	0.50
026725	Shalkar	POOH	Kinnaur	0.36	0.60	0.30	0.49
026726	Dhar Mandasa	POOH	Kinnaur	0.36	0.33	0.00	0.50
026727	Dhar Dugona	POOH	Kinnaur	0.36	0.64	0.00	0.63
026728	Dhar Yungdang	POOH	Kinnaur	0.36	0.31	0.00	0.49
026729	Changjam	POOH	Kinnaur	0.36	0.27	0.00	0.47
026730	Dhar Chango Uperla	POOH	Kinnaur	0.36	0.45	0.40	0.38
026731	Dhar Chango Nichla	POOH	Kinnaur	0.37	0.31	0.48	0.29
026732	Dhar Kumsa	POOH	Kinnaur	0.37	0.34	0.00	0.51
026733	Dhar Pargira	POOH	Kinnaur	0.39	0.31	0.00	0.50
026734	Dhar Khirpichi	POOH	Kinnaur	0.4	0.28	0.00	0.50
026735	Hemi	POOH	Kinnaur	0.41	0.25	0.00	0.49
026736	Liti	POOH	Kinnaur	0.41	0.30	0.26	0.40
026737	Yulang	POOH	Kinnaur	0.41	0.36	0.01	0.53
026738	Dhar Lauechhe	POOH	Kinnaur	0.41	0.29	0.00	0.50
026739	Dhar Choniti	POOH	Kinnaur	0.4	0.29	0.00	0.50
026740	Dhar Bhajang	POOH	Kinnaur	0.41	0.27	0.00	0.50
026741	Dhar Lipak	POOH	Kinnaur	0.5	0.22	0.00	0.51
026742	Dhar Jabar	POOH	Kinnaur	0.5	0.23	0.00	0.52
026743	Dhar Karsi	POOH	Kinnaur	0.41	0.30	0.00	0.51
026744	Dhar Chara Thang	POOH	Kinnaur	0.41	0.37	0.00	0.54
026745	Dhar Khakrash	POOH	Kinnaur	0.46	0.32	0.00	0.54
026746	Malling Dogri	POOH	Kinnaur	0.41	0.69	0.27	0.56
026747	Malling	POOH	Kinnaur	0.41	0.65	0.16	0.59
026748	Dhar Shansar	POOH	Kinnaur	0.41	0.23	0.00	0.48
026749	Nako	POOH	Kinnaur	0.41	0.32	0.51	0.30
026750	Yangthang	POOH	Kinnaur	0.44	0.64	0.28	0.55
026751	Leo	POOH	Kinnaur	0.47	0.81	0.37	0.59
026752	Shuni	POOH	Kinnaur	0.5	0.31	0.00	0.55
026753	Dhar Thana	POOH	Kinnaur	0.5	0.29	0.00	0.54
026754	Dhar Dumdumthang	POOH	Kinnaur	0.5	0.27	0.00	0.53
026755	Dhar Pegdu	POOH	Kinnaur	0.5	0.24	0.00	0.52
026756	Dhar Biepuche	POOH	Kinnaur	0.5	0.26	0.00	0.53

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
026757	Dhar Potali	POOH	Kinnaur	0.5	0.21	0.00	0.51
026758	Dhar Chang Chimo	POOH	Kinnaur	0.5	0.26	0.00	0.53
026759	Chang Chimo	POOH	Kinnaur	0.5	0.25	0.00	0.53
026760	Hango	POOH	Kinnaur	0.5	0.59	0.34	0.53
026761	Dung	POOH	Kinnaur	0.5	0.64	0.13	0.64
026762	Hangmat	POOH	Kinnaur	0.5	0.51	0.31	0.50
026763	Dhar Pusang Dang	POOH	Kinnaur	0.5	0.27	0.00	0.53
026764	Chuling	POOH	Kinnaur	0.5	0.63	0.33	0.55
026765	Dhar Lasangthang	POOH	Kinnaur	0.5	0.32	0.00	0.56
026766	Dhar Lambrafa	POOH	Kinnaur	0.5	0.36	0.00	0.57
026767	Ka	POOH	Kinnaur	0.5	0.62	0.40	0.51
026768	Dhar Lahyok	POOH	Kinnaur	0.45	0.25	0.00	0.50
026769	Dhar Lalosa	POOH	Kinnaur	0.41	0.28	0.00	0.50
026770	Dhar Kila	POOH	Kinnaur	0.49	0.25	0.00	0.52
026771	Dhar Manela	POOH	Kinnaur	0.5	0.28	0.00	0.54
026772	Dhar Larsa Niyowal	POOH	Kinnaur	0.49	0.28	0.00	0.53
026773	Up Mohal Thoropa	POOH	Kinnaur	0.45	0.38	0.30	0.43
026774	Dhar Chang Guar Guar	POOH	Kinnaur	0.46	0.29	0.00	0.53
026775	Up Mohal Ropakhas	POOH	Kinnaur	0.45	0.40	0.45	0.38
026776	D.P.F.C-205	POOH	Kinnaur	0.45	0.29	0.00	0.52
026777	Up Mohal Sumtat	POOH	Kinnaur	0.45	0.42	0.17	0.50
026778	D.P.F.C-204	POOH	Kinnaur	0.45	0.34	0.00	0.54
026779	Up Mohal Shive	POOH	Kinnaur	0.45	0.31	0.00	0.53
026780	D.P.F.C-201	POOH	Kinnaur	0.45	0.39	0.00	0.56
026781	D.P.F.C-200	POOH	Kinnaur	0.45	0.33	0.00	0.54
026782	Up Mohal Charti	POOH	Kinnaur	0.45	0.66	0.00	0.68
026783	D.P.F.C-202	POOH	Kinnaur	0.45	0.35	0.00	0.55
026784	D.P.F.C-203	POOH	Kinnaur	0.45	0.22	0.00	0.49
026785	Up Mohal Giabong Khas	POOH	Kinnaur	0.45	0.41	0.67	0.29
026786	Up Mohal Giabong Parla	POOH	Kinnaur	0.45	0.69	0.28	0.57
026787	D.P.F.C-208	POOH	Kinnaur	0.45	0.30	0.00	0.53
026788	D.P.F.C-207	POOH	Kinnaur	0.45	0.35	0.00	0.55
026789	D.P.F.C-206	POOH	Kinnaur	0.45	0.33	0.00	0.54
026790	Up Mohal Jang Phachho	POOH	Kinnaur	0.45	0.27	0.00	0.51
026791	Dhar Khabai	POOH	Kinnaur	0.45	0.29	0.00	0.52
026792	Up Mohal Brati Kanda	POOH	Kinnaur	0.45	0.34	0.00	0.54
026793	D.P.F.C-209	POOH	Kinnaur	0.45	0.34	0.00	0.54
026794	Up Mohal Taling	POOH	Kinnaur	0.45	0.34	0.28	0.42
026795	Up Mohal Rush Kulang	POOH	Kinnaur	0.45	0.36	0.58	0.31
026796	Up Mohal Sunam Khas	POOH	Kinnaur	0.45	0.44	0.59	0.33
026797	Up Mohal Chelit Kanda	POOH	Kinnaur	0.45	0.33	0.02	0.53
026798	Up Mohal Khad Makha	POOH	Kinnaur	0.45	0.66	0.00	0.68
026799	Dhupak	POOH	Kinnaur	0.45	0.35	0.33	0.41
026800	D.P.F.C-210	POOH	Kinnaur	0.45	0.33	0.00	0.54
026801	Up Mohal Chelit	POOH	Kinnaur	0.45	0.37	0.26	0.44
026802	Dhar Binathang	POOH	Kinnaur	0.53	0.32	0.00	0.57
026803	Up Mohal Shurpu	POOH	Kinnaur	0.48	0.42	0.05	0.57
026804	Up Mohal Tapang Kanda	POOH	Kinnaur	0.48	0.43	0.03	0.58
026805	Dhar Mandal Gurunag	POOH	Kinnaur	0.48	0.23	0.00	0.51
026806	D.P.F.C-212	POOH	Kinnaur	0.48	0.22	0.00	0.50
026807	Up Mohal Labrang Khas	POOH	Kinnaur	0.48	0.64	0.76	0.36
026808	Up Mohal Namkalang	POOH	Kinnaur	0.48	0.48	0.45	0.42
026809	Up Mohal Foche	POOH	Kinnaur	0.48	0.23	0.00	0.51
026810	D.P.F.C-214	POOH	Kinnaur	0.48	0.25	0.00	0.52

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
026811	Up Mohal Spiloo Khas	POOH	Kinnaur	0.48	0.37	0.79	0.23
026812	D.P.F.C-213	POOH	Kinnaur	0.48	0.25	0.00	0.52
026813	Up Mohal Kanam Khas	POOH	Kinnaur	0.48	0.52	0.61	0.37
026814	D.P.F.C-211	POOH	Kinnaur	0.48	0.28	0.00	0.53
026815	Up Mohal Kanam Nichla	POOH	Kinnaur	0.51	0.37	0.60	0.33
026816	Up Mohal Gyamil	POOH	Kinnaur	0.64	0.41	0.27	0.54
026817	Dhar Gyabyum	POOH	Kinnaur	0.64	0.45	0.00	0.67
026818	Dhar Dumba	POOH	Kinnaur	0.64	0.59	0.00	0.73
026819	Up Mohal Shyaso	POOH	Kinnaur	0.45	0.44	0.55	0.35
026820	Dhar Chho	POOH	Kinnaur	0.53	0.34	0.00	0.58
026821	Dhar Aye	POOH	Kinnaur	0.61	0.69	0.00	0.76
026822	Up Mohal Rizing Kanda	POOH	Kinnaur	0.64	0.41	0.05	0.63
026823	Up Mohal Danmochhe	POOH	Kinnaur	0.61	0.45	0.76	0.33
026824	Up Mohal Labrang	POOH	Kinnaur	0.61	0.61	0.43	0.54
026825	Up Mohal Poo	POOH	Kinnaur	0.61	0.49	0.52	0.45
026826	Up Mohal Doling Kanda	POOH	Kinnaur	0.61	0.34	0.00	0.61
026827	Dhar Dolma	POOH	Kinnaur	0.55	0.40	0.00	0.61
026828	Up Mohal Chakulang	POOH	Kinnaur	0.44	0.55	0.00	0.63
026829	Up Mohal Khabo	POOH	Kinnaur	0.45	0.42	0.55	0.34
026830	Up Mohal Namgia Kanda	POOH	Kinnaur	0.44	0.44	0.28	0.46
026831	Up Mohal Namgia Khas	POOH	Kinnaur	0.44	0.47	0.51	0.38
026832	Up Mohal Tashi Gang	POOH	Kinnaur	0.44	0.43	0.30	0.45
026833	Dhar Potal	POOH	Kinnaur	0.44	0.42	0.00	0.57
026834	Dhar Chhopan	POOH	Kinnaur	0.44	0.38	0.00	0.56
026835	Dhar Yangusa	POOH	Kinnaur	0.46	0.37	0.00	0.56
026836	Up Mohal Thunsa Kanda	POOH	Kinnaur	0.44	0.38	0.00	0.56
026837	Dhar Dulse Thang	POOH	Kinnaur	0.45	0.33	0.00	0.54
026838	Up Mohal Dulse Thang	POOH	Kinnaur	0.44	0.39	0.00	0.56
026839	Dhar Thunsa	POOH	Kinnaur	0.45	0.35	0.00	0.55
026840	Up Mohal Yangti Kanda	POOH	Kinnaur	0.44	0.41	0.00	0.57
026841	Up Mohal Dubling	POOH	Kinnaur	0.56	0.61	0.33	0.56
026842	Mohal Bali Dhar	POOH	Kinnaur	0.59	0.40	0.00	0.63
026843	D.P.F.C-199	POOH	Kinnaur	0.61	0.36	0.00	0.62
026844	Up Mohal Dabling	POOH	Kinnaur	0.61	0.42	0.31	0.51
026845	D.P.F.C-198	POOH	Kinnaur	0.46	0.41	0.00	0.58
026846	Up Mohal Rishi Kanda	POOH	Kinnaur	0.46	0.38	0.00	0.56
026847	Dhar Maryul	POOH	Kinnaur	0.49	0.36	0.00	0.57
026848	Dhar yang Dogsa	POOH	Kinnaur	0.48	0.40	0.00	0.58
026849	Dhar Yurfuk	POOH	Kinnaur	0.46	0.38	0.00	0.56
026850	Dhar Rishi	POOH	Kinnaur	0.47	0.34	0.00	0.55
026851	Horang Pawa	POOH	Kinnaur	0.55	0.43	0.27	0.51
026852	Dhar Piwung	POOH	Kinnaur	0.52	0.43	0.00	0.61
026853	Nesang Khas	POOH	Kinnaur	0.5	0.44	0.61	0.35
026854	Shaktang	POOH	Kinnaur	0.5	0.43	0.00	0.60
026855	Dhar Doge	POOH	Kinnaur	0.5	0.42	0.00	0.60
026856	Gyamting	POOH	Kinnaur	0.5	0.47	0.00	0.62
026857	Dhar Warchha	POOH	Kinnaur	0.5	0.41	0.00	0.59
026858	Piana	POOH	Kinnaur	0.5	0.46	0.00	0.61
026859	Khadi	POOH	Kinnaur	0.5	0.45	0.00	0.61
026860	Dhar Tipung	POOH	Kinnaur	0.5	0.40	0.00	0.59
026861	Dhar Rothen	POOH	Kinnaur	0.5	0.37	0.00	0.58
026862	Dhar Lungpha	POOH	Kinnaur	0.5	0.37	0.00	0.58
026863	Dhar Joganchan	POOH	Kinnaur	0.49	0.32	0.00	0.55
026864	Jagechan	POOH	Kinnaur	0.5	0.28	0.00	0.54

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
026865	Dhar Chamangti	POOH	Kinnaur	0.53	0.28	0.00	0.55
026866	Dhar Lung Kurkur	POOH	Kinnaur	0.5	0.31	0.00	0.55
026867	Dhar Lawar	POOH	Kinnaur	0.5	0.33	0.00	0.56
026868	Dhar Tepang	POOH	Kinnaur	0.53	0.27	0.00	0.55
026869	Shuti Garang	POOH	Kinnaur	0.53	0.28	0.00	0.55
026870	Dhar Gunjang	POOH	Kinnaur	0.52	0.22	0.00	0.52
026871	Dhar Wari	POOH	Kinnaur	0.5	0.28	0.00	0.54
026872	Becho Thach	POOH	Kinnaur	0.5	0.32	0.00	0.56
026873	Dhar Bhang Mochhe	POOH	Kinnaur	0.5	0.30	0.00	0.55
026874	Dhar Shyangla	POOH	Kinnaur	0.49	0.30	0.00	0.54
026875	Fulang Thach	POOH	Kinnaur	0.5	0.40	0.00	0.59
026876	Dhar Kagte	POOH	Kinnaur	0.5	0.32	0.00	0.56
026877	Dhar Kyari	POOH	Kinnaur	0.5	0.28	0.00	0.54
026878	Porang Kanda	POOH	Kinnaur	0.5	0.44	0.04	0.59
026879	Tokto	POOH	Kinnaur	0.5	0.46	0.45	0.42
026880	Dhar Mateng	POOH	Kinnaur	0.5	0.31	0.00	0.55
026881	Dhar Begulum	POOH	Kinnaur	0.5	0.30	0.00	0.55
026882	Dangrang Kanda	POOH	Kinnaur	0.5	0.38	0.00	0.58
026883	Dhar Changmang	POOH	Kinnaur	0.49	0.30	0.00	0.54
026884	Changmang	POOH	Kinnaur	0.5	0.30	0.00	0.55
026885	D.P.F. C-216	POOH	Kinnaur	0.5	0.32	0.00	0.56
026886	Chakra	POOH	Kinnaur	0.5	0.38	0.03	0.57
026887	Lippa Khas	POOH	Kinnaur	0.5	0.46	0.68	0.33
026888	D.P.F.C-220	POOH	Kinnaur	0.5	0.32	0.00	0.56
026889	D.P.F.C-217	POOH	Kinnaur	0.5	0.32	0.00	0.56
026890	Lapo	POOH	Kinnaur	0.5	0.39	0.21	0.50
026891	D.P.F- C 218	POOH	Kinnaur	0.5	0.32	0.00	0.56
026892	Asrang Khas	POOH	Kinnaur	0.5	0.44	0.62	0.34
026893	D.P.F. C-219	POOH	Kinnaur	0.5	0.38	0.00	0.58
026894	D.P.F .C-219	POOH	Kinnaur	0.5	0.22	0.00	0.51
026895	Dhar Urang	POOH	Kinnaur	0.5	0.30	0.00	0.55
026896	Gyangra	POOH	Kinnaur	0.5	0.32	0.00	0.56
026897	Saring	POOH	Kinnaur	0.52	0.33	0.00	0.57
026898	D.P.F C -232	POOH	Kinnaur	0.54	0.34	0.00	0.58
026899	D.P.F.C-231	POOH	Kinnaur	0.5	0.30	0.00	0.55
026900	Sheelapur	POOH	Kinnaur	0.51	0.45	0.16	0.55
026901	D.P.F.C-230	POOH	Kinnaur	0.5	0.32	0.00	0.56
026902	Swaden	POOH	Kinnaur	0.5	0.50	0.19	0.55
026903	Dhar Gongra	POOH	Kinnaur	0.5	0.33	0.00	0.56
026904	Dhar Khatij	POOH	Kinnaur	0.5	0.37	0.00	0.58
026905	Chhappan	POOH	Kinnaur	0.5	0.34	0.00	0.56
026906	D.P.F.C -221	POOH	Kinnaur	0.5	0.29	0.00	0.54
026907	D.P.F.C-222	POOH	Kinnaur	0.5	0.35	0.00	0.57
026908	Rijing	POOH	Kinnaur	0.5	0.60	0.14	0.61
026909	D.P.F.C-223	POOH	Kinnaur	0.5	0.37	0.00	0.58
026910	D.P.F.C-225	POOH	Kinnaur	0.5	0.36	0.26	0.46
026911	D.P.F.C-215	POOH	Kinnaur	0.49	0.34	0.00	0.56
026912	Kutang	POOH	Kinnaur	0.49	0.43	0.04	0.58
026913	Dhar Shiling Khona	POOH	Kinnaur	0.49	0.33	0.00	0.56
026914	Nakal Kuwa	POOH	Kinnaur	0.48	0.31	0.00	0.54
026915	Samodpan Kanda	POOH	Kinnaur	0.5	0.41	0.01	0.59
026916	Dhar Timchhe	POOH	Kinnaur	0.53	0.38	0.00	0.59
026917	Thuwaring	POOH	Kinnaur	0.5	0.42	0.44	0.41
026918	Gramang	POOH	Kinnaur	0.5	0.53	0.33	0.50

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
026919	Jangi Khas	POOH	Kinnaur	0.5	0.41	0.63	0.33
026920	D.P.F.C-224	POOH	Kinnaur	0.5	0.39	0.00	0.58
026921	D.P.F.C-226	POOH	Kinnaur	0.5	0.30	0.00	0.55
026922	D.P.F.C-227	POOH	Kinnaur	0.5	0.26	0.00	0.53
026923	Dhar Jubling	POOH	Kinnaur	0.5	0.24	0.00	0.52
026924	Ringchil Kanda	POOH	Kinnaur	0.5	0.35	0.00	0.57
026925	Satera	POOH	Kinnaur	0.5	0.35	0.00	0.57
026926	D.P.F.C-228	POOH	Kinnaur	0.5	0.29	0.00	0.54
026927	Khadura	POOH	Kinnaur	0.5	0.44	0.20	0.52
026928	D.P.F.C-229	POOH	Kinnaur	0.5	0.34	0.00	0.56
026929	Rarang Khas	POOH	Kinnaur	0.5	0.56	0.24	0.56
026930	Paranga	POOH	Kinnaur	0.5	0.51	0.18	0.56
026931	D.P.F.C- 187	POOH	Kinnaur	0.5	0.42	0.01	0.59
026932	D.P.F.C-186	POOH	Kinnaur	0.5	0.24	0.26	0.41
026933	Sirmoling	POOH	Kinnaur	0.5	0.53	0.13	0.59
026934	Chhuyian	POOH	Kinnaur	0.5	0.53	0.17	0.57
026935	Dhar Jeshtharang	POOH	Kinnaur	0.5	0.25	0.00	0.53
026936	Dhar Puranga	POOH	Kinnaur	0.51	0.36	0.00	0.58
026937	Bato	POOH	Kinnaur	0.5	0.38	0.20	0.50
026938	D.P.F.C-188	POOH	Kinnaur	0.5	0.25	0.13	0.47
026939	Kutian	POOH	Kinnaur	0.5	0.77	0.17	0.67
026940	Ribba Khas	POOH	Kinnaur	0.5	0.80	0.19	0.68
026941	Holdang	POOH	Kinnaur	0.5	0.58	0.26	0.56
026942	Skiba	POOH	Kinnaur	0.5	0.45	0.31	0.48
026943	Akpa Khas	POOH	Kinnaur	0.5	0.45	0.21	0.52
026944	Up Muhal Holdo	POOH	Kinnaur	0.5	0.39	0.15	0.52
026945	Rispa Khas	POOH	Kinnaur	0.5	0.53	0.28	0.53
026946	Lijing	POOH	Kinnaur	0.5	0.49	0.14	0.57
026947	Khokpa	POOH	Kinnaur	0.5	0.41	0.32	0.46
026948	D.P.F.C-197	POOH	Kinnaur	0.5	0.38	0.00	0.58
026949	Shiling Khas	POOH	Kinnaur	0.5	0.43	0.35	0.45
026950	Shurboo Kanda	POOH	Kinnaur	0.5	0.37	0.00	0.58
026951	Roowang	POOH	Kinnaur	0.59	0.41	0.16	0.56
026952	D.P.F.C-196	POOH	Kinnaur	0.61	0.35	0.00	0.61
026953	Swaling	POOH	Kinnaur	0.62	0.43	0.13	0.60
026955	Dhar Khayo	POOH	Kinnaur	0.5	0.37	0.00	0.58
026956	Dhar Yamdaling	POOH	Kinnaur	0.5	0.38	0.00	0.58
026957	Dhar Lochhas	POOH	Kinnaur	0.57	0.40	0.00	0.62
026958	Dhar Wishrang	POOH	Kinnaur	0.61	0.37	0.00	0.62
026959	Lambar	POOH	Kinnaur	0.6	0.39	0.14	0.57
026960	D.P.F.C-195	POOH	Kinnaur	0.62	0.34	0.00	0.61
026961	Thangi Khas	POOH	Kinnaur	0.62	0.41	0.24	0.54
026962	Pibbar	POOH	Kinnaur	0.62	0.38	0.03	0.62
026963	D.P.F.C-194	POOH	Kinnaur	0.62	0.31	0.00	0.60
026964	D.P.F.C-193	POOH	Kinnaur	0.61	0.30	0.00	0.59
026965	D.P.F.C-191-192	POOH	Kinnaur	0.5	0.38	0.00	0.58
026966	Asno Kanda	POOH	Kinnaur	0.56	0.40	0.00	0.61
026967	Up Muhal Cherang Kanda	POOH	Kinnaur	0.5	0.40	0.00	0.59
026968	Panah Kanda	POOH	Kinnaur	0.5	0.39	0.00	0.58
026969	D.P.F. C -189 -190	POOH	Kinnaur	0.5	0.33	0.00	0.56
026970	Chang Kuwa	POOH	Kinnaur	0.5	0.29	0.00	0.54
026971	Kurpo	POOH	Kinnaur	0.5	0.31	0.16	0.48
026972	Dhar Panah	POOH	Kinnaur	0.52	0.35	0.00	0.58
026973	Dhar Kushkar	POOH	Kinnaur	0.57	0.34	0.00	0.59

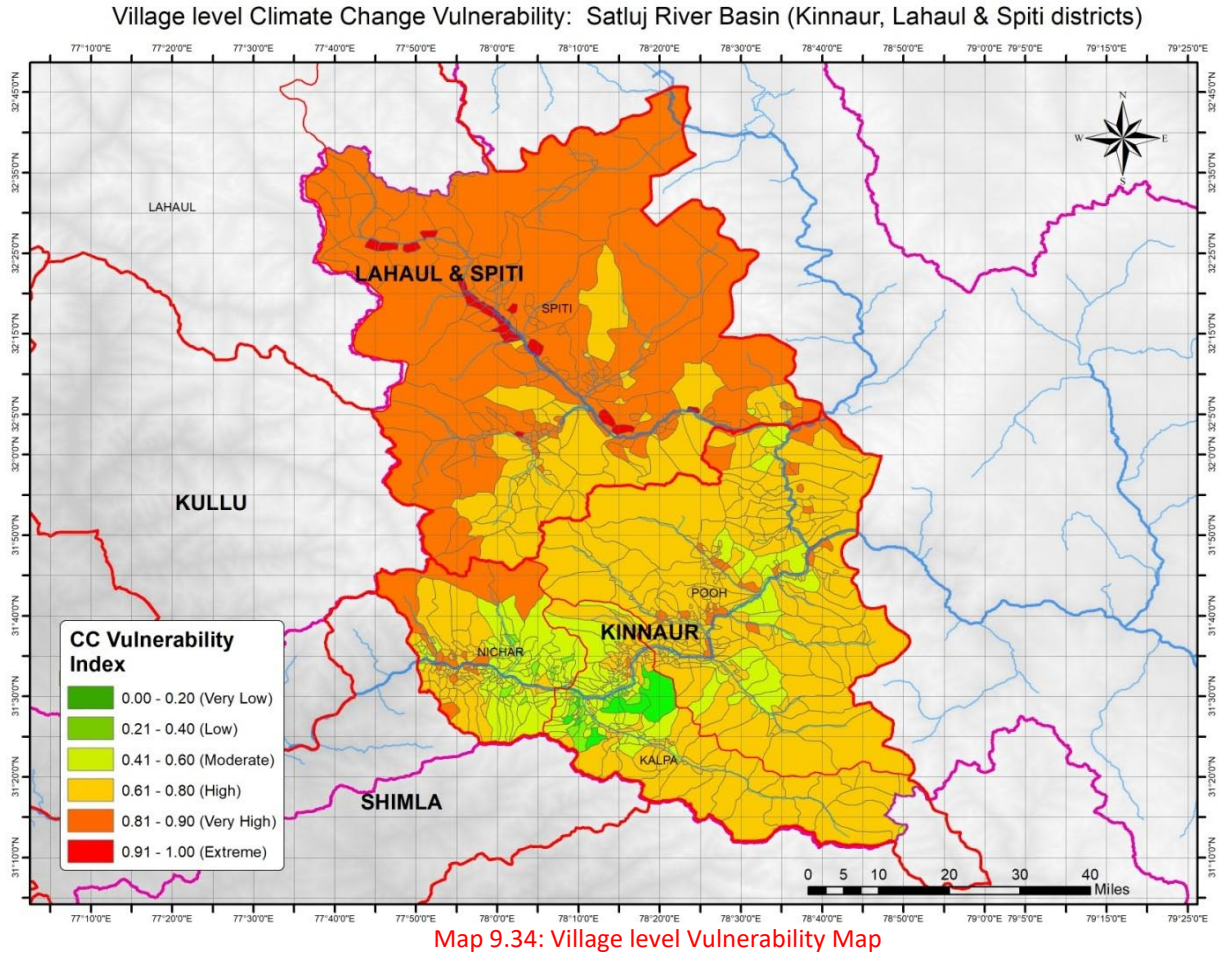
Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
026974	Dhar Gara	POOH	Kinnaur	0.62	0.38	0.00	0.63
026975	Dhar Sunkham	POOH	Kinnaur	0.61	0.28	0.00	0.58
026976	Dhar Parmati	POOH	Kinnaur	0.6	0.38	0.00	0.62
026977	Dhar Lalanti	POOH	Kinnaur	0.57	0.35	0.00	0.60
026978	Kyarbo	POOH	Kinnaur	0.54	0.44	0.00	0.62
026979	Surting Ting	POOH	Kinnaur	0.54	0.45	0.13	0.57
026980	Dhar Shangchawal	POOH	Kinnaur	0.52	0.45	0.00	0.62
026981	Kuno Khas	POOH	Kinnaur	0.49	0.47	0.15	0.55
026982	Kota	POOH	Kinnaur	0.49	0.38	0.00	0.58
026983	Dhar Shilachh	POOH	Kinnaur	0.49	0.43	0.00	0.60
026984	Dhar Dulmnish	POOH	Kinnaur	0.52	0.37	0.00	0.58
026985	Dhar Brati	POOH	Kinnaur	0.52	0.38	0.00	0.59
026986	Charang Khas	POOH	Kinnaur	0.52	0.39	0.17	0.52
026987	Gigu Lang	POOH	Kinnaur	0.52	0.36	0.01	0.58
026988	Wevgya	POOH	Kinnaur	0.53	0.42	0.00	0.61
026989	Dhar Chang kuche	POOH	Kinnaur	0.53	0.36	0.00	0.58
026990	Dhar Mangla	POOH	Kinnaur	0.52	0.34	0.00	0.57
026991	Dhar Gunrang	POOH	Kinnaur	0.55	0.33	0.00	0.58
012445	Dhar Dagduk	SPITI	Lahaul & Spiti	0.08	0.24	0.00	0.34
012446	Dhar Malung Samdo	SPITI	Lahaul & Spiti	0.08	0.21	0.00	0.33
012449	Dhar Rilosar	SPITI	Lahaul & Spiti	0.18	0.18	0.00	0.36
012450	Dhar Dojam Gyapma	SPITI	Lahaul & Spiti	0.18	0.10	0.00	0.33
012451	Dhar Dojam	SPITI	Lahaul & Spiti	0.18	0.23	0.00	0.38
012452	Dhar Nijom	SPITI	Lahaul & Spiti	0.18	0.21	0.00	0.37
012453	Dhar Kabjima	SPITI	Lahaul & Spiti	0.17	0.19	0.00	0.36
012454	Dhar Tangne	SPITI	Lahaul & Spiti	0.09	0.14	0.00	0.31
012455	Dhar Sumdo	SPITI	Lahaul & Spiti	0.08	0.11	0.00	0.29
012456	Dhar Vitung Nakpo	SPITI	Lahaul & Spiti	0.08	0.11	0.00	0.29
012457	Dhar Lungmochhe	SPITI	Lahaul & Spiti	0.08	0.11	0.00	0.29
012458	Dhar Tanve	SPITI	Lahaul & Spiti	0.16	0.17	0.00	0.35
012460	Dhar Pallamo	SPITI	Lahaul & Spiti	0.08	0.09	0.00	0.28
012461	Dhar Thachakarpo	SPITI	Lahaul & Spiti	0.08	0.08	0.00	0.28
012462	Dhar Siti Khud	SPITI	Lahaul & Spiti	0.08	0.10	0.00	0.28
012463	Dhar Nimaloksa	SPITI	Lahaul & Spiti	0.08	0.12	0.00	0.29
012464	Dhar Fagdansa	SPITI	Lahaul & Spiti	0.15	0.20	0.00	0.36
012465	Dhar Dindi	SPITI	Lahaul & Spiti	0.08	0.14	0.00	0.30
012466	Losar Khas	SPITI	Lahaul & Spiti	0.08	0.09	0.46	0.08
012467	Chichong	SPITI	Lahaul & Spiti	0.08	0.12	0.29	0.17
012468	Dhar Pang Kyamo	SPITI	Lahaul & Spiti	0.09	0.15	0.00	0.31
012469	Kyamo	SPITI	Lahaul & Spiti	0.08	0.10	0.30	0.16
012470	Dhar Latothanmo	SPITI	Lahaul & Spiti	0.1	0.14	0.00	0.31
012471	Hansa	SPITI	Lahaul & Spiti	0.08	0.14	0.23	0.20
012472	Dhar Soksa	SPITI	Lahaul & Spiti	0.07	0.14	0.00	0.30
012473	Kaito	SPITI	Lahaul & Spiti	0.07	0.16	0.18	0.23
012474	Dhar Tamba Kurkur	SPITI	Lahaul & Spiti	0.08	0.14	0.00	0.30
012475	Dhar Paldar	SPITI	Lahaul & Spiti	0.07	0.07	0.00	0.27
012476	Dhar Pangmo	SPITI	Lahaul & Spiti	0.08	0.11	0.00	0.29
012477	Dhar Ghiundi	SPITI	Lahaul & Spiti	0.19	0.14	0.00	0.35
012478	Hull	SPITI	Lahaul & Spiti	0.05	0.05	0.30	0.12
012479	Pangmo Khas	SPITI	Lahaul & Spiti	0.07	0.03	0.17	0.18
012480	Jugmothang	SPITI	Lahaul & Spiti	0.07	0.06	0.05	0.24
012481	Chigjar	SPITI	Lahaul & Spiti	0.07	0.15	0.00	0.30
012482	Dhar Laterse	SPITI	Lahaul & Spiti	0.09	0.10	0.00	0.29
012483	Dhar Panya	SPITI	Lahaul & Spiti	0.16	0.21	0.00	0.36

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
012484	Dhar Farah	SPITI	Lahaul & Spiti	0.17	0.18	0.00	0.36
012485	Chicham Khas	SPITI	Lahaul & Spiti	0.17	0.24	0.20	0.30
012486	Ladarcha	SPITI	Lahaul & Spiti	0.16	0.13	0.01	0.33
012487	Dumley	SPITI	Lahaul & Spiti	0.17	0.18	0.01	0.35
012488	Dhar Chicham	SPITI	Lahaul & Spiti	0.16	0.18	0.00	0.35
012489	Dhar Hal	SPITI	Lahaul & Spiti	0.02	0.24	0.00	0.32
012490	Dhar Yakya	SPITI	Lahaul & Spiti	0.06	0.19	0.00	0.31
012491	Kibber Khas	SPITI	Lahaul & Spiti	0.17	0.21	0.21	0.28
012492	Pinjoor	SPITI	Lahaul & Spiti	0.17	0.19	0.19	0.28
012493	Kee	SPITI	Lahaul & Spiti	0.01	0.08	0.17	0.17
012494	Gettey	SPITI	Lahaul & Spiti	0.02	0.17	0.15	0.22
012495	Tashi Gang	SPITI	Lahaul & Spiti	0.2	0.30	0.14	0.36
012496	Thinam	SPITI	Lahaul & Spiti	0.2	0.17	0.00	0.36
012497	Dhar Lama Chung Chung	SPITI	Lahaul & Spiti	0	0.13	0.00	0.26
012498	Langja	SPITI	Lahaul & Spiti	0.2	0.15	0.18	0.28
012499	Dhar Chhon Chhon Kanghilda	SPITI	Lahaul & Spiti	0.2	0.25	0.00	0.40
012500	Hikam	SPITI	Lahaul & Spiti	0.2	0.27	0.17	0.33
012501	Komik	SPITI	Lahaul & Spiti	0.2	0.15	0.14	0.30
012502	Kaza Khas	SPITI	Lahaul & Spiti	0.17	0.28	0.94	0.00
012503	Kaza Soma	SPITI	Lahaul & Spiti	0.17	0.63	0.64	0.28
012504	Kagti	SPITI	Lahaul & Spiti	0.17	0.30	0.15	0.34
012505	Lara Khas	SPITI	Lahaul & Spiti	0.22	0.30	0.29	0.31
012506	Shego	SPITI	Lahaul & Spiti	0.22	0.31	0.14	0.37
012507	Lidang	SPITI	Lahaul & Spiti	0.22	0.26	0.16	0.34
012508	Dhar Lung Wooh	SPITI	Lahaul & Spiti	0.18	0.13	0.00	0.34
012509	Keuling	SPITI	Lahaul & Spiti	0.19	0.18	0.27	0.25
012510	Dhar Keuling	SPITI	Lahaul & Spiti	0.19	0.23	0.00	0.39
012511	Kuang Khas	SPITI	Lahaul & Spiti	0.17	0.14	0.15	0.28
012512	Neked	SPITI	Lahaul & Spiti	0.17	0.37	0.00	0.44
012513	Marango Rangarik	SPITI	Lahaul & Spiti	0.1	0.13	0.53	0.08
012514	Yarango Rangarik	SPITI	Lahaul & Spiti	0	0.12	0.19	0.18
012515	Khurik	SPITI	Lahaul & Spiti	0	0.04	0.32	0.09
012516	Sumling	SPITI	Lahaul & Spiti	0.01	0.03	0.29	0.10
012517	Morang	SPITI	Lahaul & Spiti	0	0.04	0.14	0.17
012518	Dhar Tumserisha Doksa	SPITI	Lahaul & Spiti	0.01	0.17	0.00	0.28
012519	Dhar Sumling	SPITI	Lahaul & Spiti	0.01	0.18	0.00	0.29
012520	Dhar Lamanduba	SPITI	Lahaul & Spiti	0.02	0.16	0.00	0.28
012521	Dhar Ratang	SPITI	Lahaul & Spiti	0.19	0.16	0.00	0.36
012522	Dhar Dangdagma	SPITI	Lahaul & Spiti	0.22	0.23	0.00	0.40
012523	Dhar Pindo	SPITI	Lahaul & Spiti	0.24	0.29	0.00	0.43
012524	Dhar Ula	SPITI	Lahaul & Spiti	0.21	0.26	0.00	0.41
012525	Dhar Jong	SPITI	Lahaul & Spiti	0.23	0.29	0.00	0.43
012526	Chhidang	SPITI	Lahaul & Spiti	0.23	0.28	0.26	0.31
012527	Shilling	SPITI	Lahaul & Spiti	0.23	0.30	0.14	0.37
012528	Guling	SPITI	Lahaul & Spiti	0.23	0.24	0.16	0.34
012529	Barpa	SPITI	Lahaul & Spiti	0.23	0.33	0.14	0.39
012530	Dhar Chaling	SPITI	Lahaul & Spiti	0.23	0.25	0.00	0.41
012531	Dhar Chhau	SPITI	Lahaul & Spiti	0.23	0.22	0.00	0.40
012532	Kong Kong	SPITI	Lahaul & Spiti	0.23	0.24	0.15	0.34
012533	Uperla Guling	SPITI	Lahaul & Spiti	0.23	0.20	0.40	0.22
012534	Kungri	SPITI	Lahaul & Spiti	0.24	0.21	0.28	0.28
012535	Mikam	SPITI	Lahaul & Spiti	0.23	0.21	0.27	0.28
012536	Phukchung	SPITI	Lahaul & Spiti	0.14	0.12	0.27	0.20
012537	Ka	SPITI	Lahaul & Spiti	0.14	0.15	0.28	0.21

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
012538	Minsar	SPITI	Lahaul & Spiti	0.14	0.32	0.42	0.22
012539	Polole	SPITI	Lahaul & Spiti	0.14	0.09	0.00	0.31
012540	Dhar Kidul	SPITI	Lahaul & Spiti	0.15	0.14	0.00	0.33
012541	Dhar Gechang	SPITI	Lahaul & Spiti	0.14	0.14	0.00	0.33
012542	Rajgaon	SPITI	Lahaul & Spiti	0.14	0.16	0.01	0.33
012543	Sagnam	SPITI	Lahaul & Spiti	0.35	0.23	0.46	0.26
012544	Takshan	SPITI	Lahaul & Spiti	0.44	0.25	0.02	0.49
012545	Shaktan	SPITI	Lahaul & Spiti	0.14	0.11	0.00	0.31
012546	Thango	SPITI	Lahaul & Spiti	0.15	0.10	0.00	0.31
012547	Dhar Tisang	SPITI	Lahaul & Spiti	0.28	0.23	0.00	0.42
012548	Dhar Rajgaon	SPITI	Lahaul & Spiti	0.15	0.18	0.00	0.35
012549	Dhar Changlung	SPITI	Lahaul & Spiti	0.31	0.11	0.00	0.39
012550	Dhar Togseluganwa	SPITI	Lahaul & Spiti	0.32	0.06	0.00	0.37
012551	Dhar Thango	SPITI	Lahaul & Spiti	0.25	0.12	0.00	0.36
012552	Dhar Khamengar	SPITI	Lahaul & Spiti	0.3	0.11	0.00	0.38
012553	Dhar Devsa	SPITI	Lahaul & Spiti	0.4	0.03	0.00	0.39
012554	Dhar Noor	SPITI	Lahaul & Spiti	0.4	0.02	0.00	0.39
012555	Dhar Kilung	SPITI	Lahaul & Spiti	0.37	0.09	0.00	0.40
012556	Dhar Lakhang	SPITI	Lahaul & Spiti	0.43	0.11	0.00	0.44
012557	Dhar Thagpat	SPITI	Lahaul & Spiti	0.33	0.00	0.00	0.35
012558	Dhar Sonpat	SPITI	Lahaul & Spiti	0.33	0.04	0.00	0.36
012559	Dhar Chho Chho Dain	SPITI	Lahaul & Spiti	0.38	0.11	0.00	0.42
012560	Dhar Chhorak	SPITI	Lahaul & Spiti	0.33	0.00	0.00	0.35
012561	Dhar Tegvaldar	SPITI	Lahaul & Spiti	0.42	0.13	0.00	0.44
012562	Dhar Mahavaldar	SPITI	Lahaul & Spiti	0.53	0.22	0.00	0.53
012563	Dhar Jikvaldar	SPITI	Lahaul & Spiti	0.53	0.25	0.00	0.54
012564	Dhar Larang	SPITI	Lahaul & Spiti	0.5	0.22	0.00	0.51
012565	Dhar Tarpak	SPITI	Lahaul & Spiti	0.52	0.24	0.00	0.53
012566	Shan	SPITI	Lahaul & Spiti	0.53	0.25	0.00	0.54
012567	Dhar Sarval	SPITI	Lahaul & Spiti	0.51	0.27	0.00	0.54
012568	Mud	SPITI	Lahaul & Spiti	0.44	0.35	0.29	0.42
012569	Pharka	SPITI	Lahaul & Spiti	0.45	0.39	0.00	0.56
012570	Kilmoor	SPITI	Lahaul & Spiti	0.44	0.33	0.00	0.53
012571	Dhar Pilsur	SPITI	Lahaul & Spiti	0.44	0.30	0.00	0.52
012572	Teling	SPITI	Lahaul & Spiti	0.44	0.24	0.29	0.37
012573	Pilsur	SPITI	Lahaul & Spiti	0.45	0.19	0.00	0.48
012574	Chamling	SPITI	Lahaul & Spiti	0.51	0.25	0.39	0.36
012575	Haronaro	SPITI	Lahaul & Spiti	0.51	0.25	0.00	0.53
012576	Dhar Mallam	SPITI	Lahaul & Spiti	0.51	0.28	0.00	0.54
012577	Dhar Jamaro	SPITI	Lahaul & Spiti	0.51	0.20	0.00	0.51
012578	Dhar Sechin	SPITI	Lahaul & Spiti	0.51	0.26	0.00	0.53
012579	Dhar Turwand	SPITI	Lahaul & Spiti	0.51	0.26	0.00	0.53
012580	Dhar Sinsa	SPITI	Lahaul & Spiti	0.42	0.25	0.00	0.49
012581	Dharyansa	SPITI	Lahaul & Spiti	0.51	0.20	0.00	0.51
012582	Phika	SPITI	Lahaul & Spiti	0.47	0.31	0.00	0.54
012583	Dhar Charasa	SPITI	Lahaul & Spiti	0.44	0.30	0.00	0.52
012584	Todnam	SPITI	Lahaul & Spiti	0.44	0.25	0.54	0.27
012585	Khar	SPITI	Lahaul & Spiti	0.44	0.28	0.40	0.34
012586	Dhar Magling	SPITI	Lahaul & Spiti	0.42	0.32	0.00	0.52
012587	Dhar Lalung	SPITI	Lahaul & Spiti	0.23	0.26	0.00	0.42
012588	Dul	SPITI	Lahaul & Spiti	0.23	0.27	0.01	0.42
012589	Tangti Kogma	SPITI	Lahaul & Spiti	0.23	0.23	0.40	0.23
012590	Tangti Yogma	SPITI	Lahaul & Spiti	0.23	0.22	0.40	0.23
012591	Dhar Phua	SPITI	Lahaul & Spiti	0.24	0.31	0.00	0.44

Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
012592	Dhar Lungje	SPITI	Lahaul & Spiti	0.29	0.28	0.00	0.45
012593	Dhankhar	SPITI	Lahaul & Spiti	0.28	0.24	0.55	0.19
012594	Shushna	SPITI	Lahaul & Spiti	0.28	0.20	0.17	0.34
012595	Siluk	SPITI	Lahaul & Spiti	0.28	0.18	0.27	0.29
012596	Shichling	SPITI	Lahaul & Spiti	0.27	0.22	0.53	0.19
012597	Newpur	SPITI	Lahaul & Spiti	0.25	0.24	0.26	0.31
012598	Samling	SPITI	Lahaul & Spiti	0.27	0.23	0.41	0.25
012599	Dhar Nipti	SPITI	Lahaul & Spiti	0.26	0.20	0.00	0.40
012600	Rama Khas	SPITI	Lahaul & Spiti	0.22	0.23	0.40	0.23
012601	Tulse Pena	SPITI	Lahaul & Spiti	0.22	0.22	0.00	0.39
012602	Tarbole	SPITI	Lahaul & Spiti	0.26	0.37	0.00	0.47
012603	Chobrang	SPITI	Lahaul & Spiti	0.22	0.30	0.26	0.32
012604	Lingti	SPITI	Lahaul & Spiti	0.22	0.30	0.27	0.31
012605	Sanglung	SPITI	Lahaul & Spiti	0.22	0.23	0.14	0.34
012606	Kunge	SPITI	Lahaul & Spiti	0.21	0.25	0.00	0.40
012607	Demul Khas	SPITI	Lahaul & Spiti	0.21	0.31	0.29	0.31
012608	Gangdo Demul	SPITI	Lahaul & Spiti	0.21	0.24	0.16	0.33
012609	Mulche	SPITI	Lahaul & Spiti	0.21	0.27	0.13	0.36
012610	Rizing	SPITI	Lahaul & Spiti	0.21	0.27	0.00	0.41
012611	Tishu	SPITI	Lahaul & Spiti	0.21	0.22	0.00	0.39
012612	Dhartak Damdam	SPITI	Lahaul & Spiti	0.21	0.18	0.00	0.37
012613	Dharsochin	SPITI	Lahaul & Spiti	0.24	0.25	0.00	0.42
012614	Dhar Dum Bachen	SPITI	Lahaul & Spiti	0.19	0.23	0.00	0.39
012615	Dhar Takling	SPITI	Lahaul & Spiti	0.08	0.17	0.00	0.31
012616	Dhar Parang	SPITI	Lahaul & Spiti	0.1	0.20	0.00	0.33
012617	Dhar Nusbosamdo	SPITI	Lahaul & Spiti	0.09	0.16	0.00	0.31
012618	Dhar Chhavigya	SPITI	Lahaul & Spiti	0.22	0.24	0.00	0.40
012619	Lalung Khas	SPITI	Lahaul & Spiti	0.22	0.35	0.20	0.36
012620	Phanve	SPITI	Lahaul & Spiti	0.22	0.27	0.01	0.41
012621	Kibri	SPITI	Lahaul & Spiti	0.22	0.29	0.15	0.36
012622	Yul Shikpo	SPITI	Lahaul & Spiti	0.22	0.29	0.00	0.42
012623	Phibuk Dogri	SPITI	Lahaul & Spiti	0.22	0.16	0.00	0.37
012624	Dhar Chokula	SPITI	Lahaul & Spiti	0.2	0.26	0.00	0.40
012625	Dhar Gangchhumi	SPITI	Lahaul & Spiti	0.25	0.25	0.26	0.31
012626	Landupdeen	SPITI	Lahaul & Spiti	0.25	0.26	0.00	0.42
012627	Mane Yogma	SPITI	Lahaul & Spiti	0.25	0.25	0.20	0.33
012628	Kaley	SPITI	Lahaul & Spiti	0.25	0.26	0.14	0.36
012629	Lar	SPITI	Lahaul & Spiti	0.26	0.24	0.00	0.42
012630	Dogsa	SPITI	Lahaul & Spiti	0.26	0.27	0.00	0.43
012631	Piyuche	SPITI	Lahaul & Spiti	0.28	0.22	0.26	0.31
012632	Mane Kogma	SPITI	Lahaul & Spiti	0.27	0.21	0.43	0.23
012633	Dhar Gunla	SPITI	Lahaul & Spiti	0.28	0.26	0.00	0.44
012634	Dhar Mane Rang	SPITI	Lahaul & Spiti	0.25	0.26	0.00	0.42
012635	Dhar Pomrang	SPITI	Lahaul & Spiti	0.25	0.23	0.00	0.41
012636	Poh	SPITI	Lahaul & Spiti	0.25	0.37	0.18	0.39
012637	Pomrang	SPITI	Lahaul & Spiti	0.25	0.35	0.16	0.39
012638	Nidang	SPITI	Lahaul & Spiti	0.25	0.28	0.14	0.37
012639	Qurith	SPITI	Lahaul & Spiti	0.25	0.27	0.14	0.37
012640	Tabo	SPITI	Lahaul & Spiti	0.25	0.35	0.89	0.08
012641	Lapcha	SPITI	Lahaul & Spiti	0.24	0.29	0.39	0.27
012642	Dhar Angla	SPITI	Lahaul & Spiti	0.24	0.27	0.00	0.42
012643	Dhar Jhanda Choksa	SPITI	Lahaul & Spiti	0.24	0.25	0.00	0.42
012644	Lari	SPITI	Lahaul & Spiti	0.25	0.35	0.44	0.28
012645	Duphuk	SPITI	Lahaul & Spiti	0.25	0.26	0.26	0.31

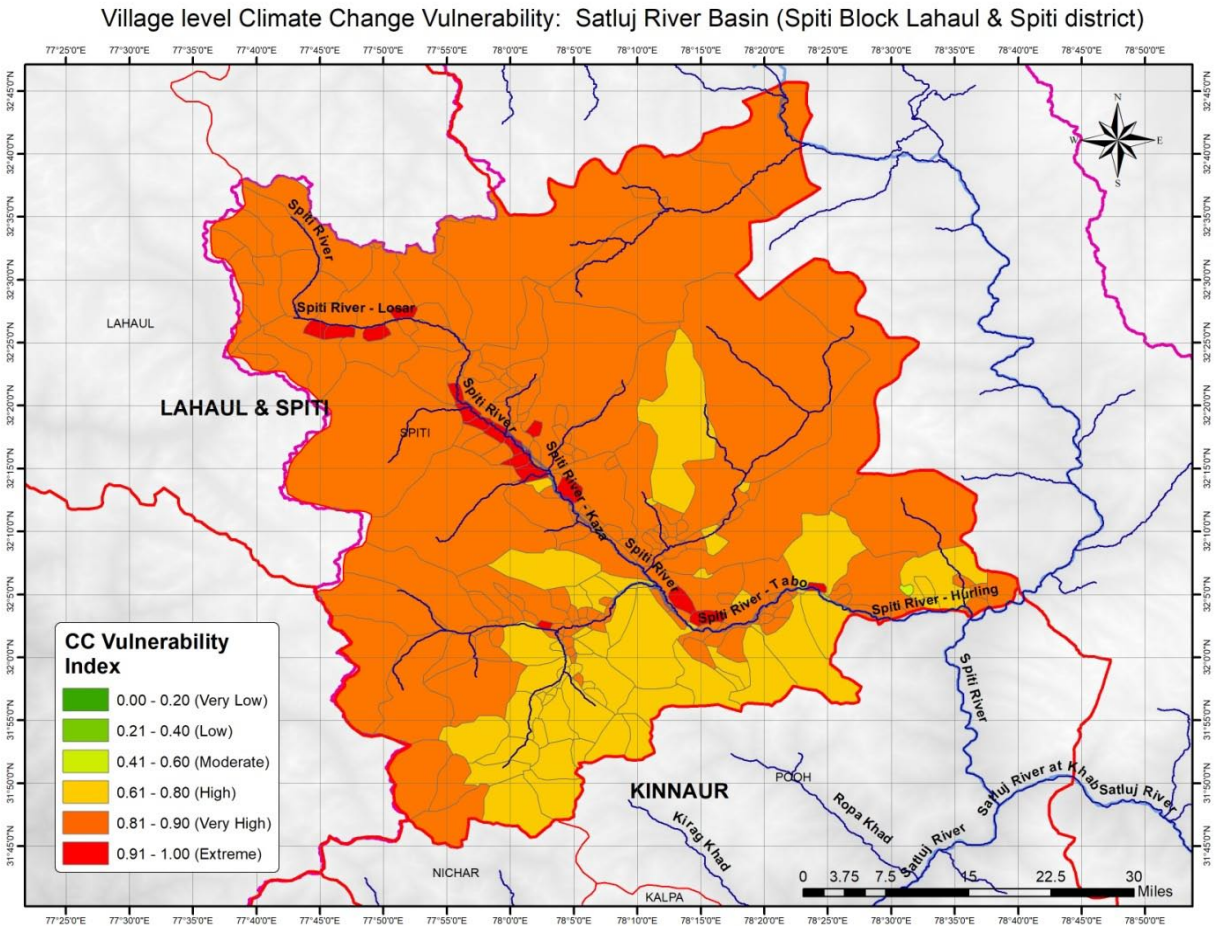
Village Code	Village Name	Block	District	Com. Exp.	Comp. Sen.	Comp. AC	CC Vulnerability
012646	Tipta	SPITI	Lahaul & Spiti	0.23	0.23	0.00	0.40
012647	Dhar Chhochhodun	SPITI	Lahaul & Spiti	0.26	0.32	0.13	0.40
012648	Dhar Kargyupa	SPITI	Lahaul & Spiti	0.13	0.33	0.00	0.40
012649	Gipu	SPITI	Lahaul & Spiti	0.12	0.46	0.44	0.27
012650	Lirit	SPITI	Lahaul & Spiti	0.19	0.38	0.26	0.34
012651	Kun	SPITI	Lahaul & Spiti	0.31	0.71	0.00	0.64
012652	Hiche	SPITI	Lahaul & Spiti	0.31	0.35	0.00	0.49
012653	Hurling	SPITI	Lahaul & Spiti	0.31	0.49	0.32	0.41
012654	Dhar Karjenpa	SPITI	Lahaul & Spiti	0.17	0.35	0.00	0.43
012655	Kauirik	SPITI	Lahaul & Spiti	0.11	0.40	0.13	0.37
012656	Samdo	SPITI	Lahaul & Spiti	0.25	0.32	0.30	0.32



Map 9.34: Village level Vulnerability Map

Vulnerability Map 9.34 shows the village level vulnerability. For better understanding the vulnerability is grouped in 1-6 levels with certain range assigned to each level. For very low vulnerability range has been fixed between 0.00-0.20, for low vulnerability range has been fixed between 0.21-0.40, for moderate vulnerability range has been fixed between 0.41-0.60, for high vulnerability range is fixed between 0.61-0.80, for very high vulnerability range has been fixed between 0.81-0.90 and 0.91-1.00 range has been fixed for extreme vulnerability. Vulnerability map depicts that the climate change vulnerability of the Spiti Block of district Lahaul & Spiti is high as compare to the other Blocks of Kinnaur district. The major reasons of this high vulnerability is less adaptive capacity and high exposure & sensitivity to the changing climate.

Further the vulnerability maps have also been generated separately for each blocks of district Kinnaur, Lahaul & Spiti along with the categorization of the villages vulnerable to the changing climate in 6 different levels (Extreme, Very High, High, Moderate, Low, Very Low).

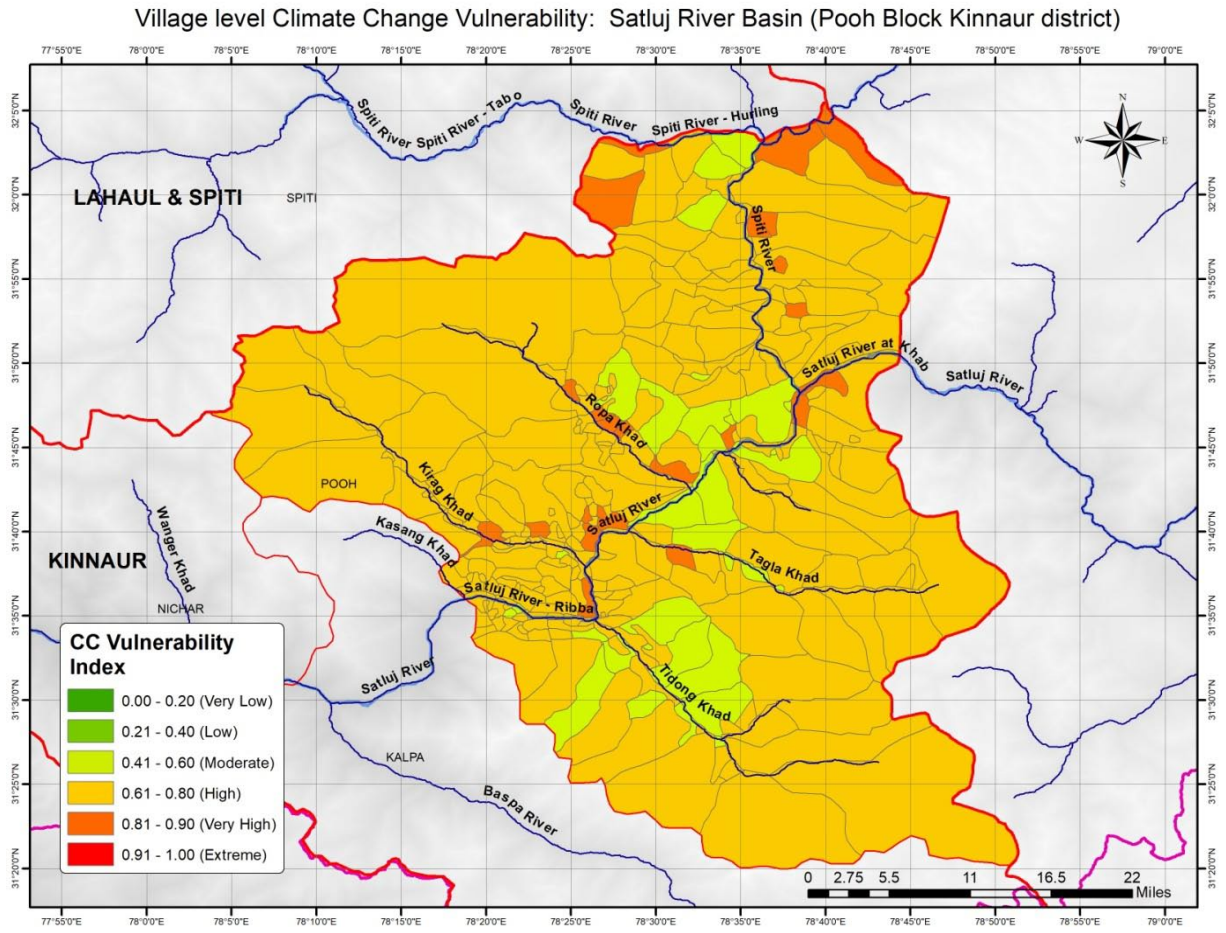


Map 9.35: Vulnerability Map: Spiti Block

Vulnerable Villages –Spiti Block– District Lahaul & Spiti					
Very Low	**Low**	**Moderate**	**High**	**Very High**	**Extreme**
(0.00-0.20)	**(0.21-0.40)**	**(0.41-0.60)**	**(0.61-0.80)**	**(0.81-0.90)**	**(0.91-1.00)**
0.00 Kaza Khas	0.21 Ka	0.41 Dhar Ula	0.64 Kun		
0.08 Losar Khas	0.22 Gettey	0.41 Dhar Chaling			
0.08 Marango Rangarik	0.22 Uperla Guling	0.41 Rizing			
0.08 Tabo	0.22 Minsar	0.41 Phanve			
0.09 Khurik	0.23 Kaito	0.41 Dhar Pomrang			
0.10 Sumling	0.23 Tangti Kogma	0.41 Hurling			
0.12 Hull	0.23 Tangti Yogma	0.42 Dhar Tisang			
0.16 Kyamo	0.23 Rama Khas	0.42 Dhar Chho Chho Dain			
0.17 Chichong	0.23 Mane Kogma	0.42 Mud			
0.17 Kee	0.24 Jugmothang	0.42 Dhar Lalung			
0.17 Morang	0.25 Keuling	0.42 Dul			
0.18 Pangmo Khas	0.25 Samling	0.42 Dharsochin			
0.18 Yarango Rangarik	0.26 Dhar Lama Chung Chung	0.42 Yul Shikpo			
0.19 Dhankhar	0.26 Sagnam	0.42 Landupdeen			
0.19 Shichling	0.27 Dhar Paldar	0.42 Lar			
0.20 Hansa	0.27 Todnam	0.42 Dhar Mane Rang			
0.20 Phukchung	0.27 Lapcha	0.42 Dhar Angla			
	0.27 Gipu	0.42 Dhar Jhanda Choksa			
	0.28 Dhar Pallamo	0.43 Dhar Pindo			
	0.28 Dhar Thachakarpo	0.43 Dhar Jong			
	0.28 Dhar Siti Khud	0.43 Dogsa			
	0.28 Kibber Khas	0.43 Dhar Karjenpa			
	0.28 Pinjoor	0.44 Neked			
	0.28 Langja	0.44 Dhar Lakhang			
	0.28 Kaza Soma	0.44 Dhar Tegvaldar			
	0.28 Kuang Khas	0.44 Dhar Phua			

Vulnerable Villages –Spiti Block– District Lahaul & Spiti					
Very Low	Low	Moderate	High	Very High	Extreme
(0.00-0.20)	(0.21-0.40)	(0.41-0.60)	(0.61-0.80)	(0.81-0.90)	(0.91-1.00)
	0.28 Dhar Tumserisha Doksa	0.44 Dhar Gunla			
	0.28 Dhar Lamanduba	0.45 Dhar Lungje			
	0.28 Kungri	0.47 Tarbole			
	0.28 Mikam	0.48 Pilsur			
	0.28 Lari	0.49 Takshan			
	0.29 Dhar Sumdo	0.49 Dhar Sinsa			
	0.29 Dhar Vitung Nakpo	0.49 Hiche			
	0.29 Dhar Lungmochhe	0.51 Dhar Larang			
	0.29 Dhar Nimaloksa	0.51 Dhar Jamaro			
	0.29 Dhar Pangmo	0.51 Dharyansa			
	0.29 Dhar Laterse	0.52 Dhar Pilsur			
	0.29 Dhar Sumling	0.52 Dhar Charasa			
	0.29 Siluk	0.52 Dhar Magling			
	0.30 Dhar Dindi	0.53 Dhar Mahavaldar			
	0.30 Dhar Soksa	0.53 Dhar Tarpak			
	0.30 Dhar Tamba Kurkur	0.53 Kilmoor			
	0.30 Chigjar	0.53 Haronaro			
	0.30 Chicham Khas	0.53 Dhar Sechin			
	0.30 Komik	0.53 Dhar Turwand			
	0.31 Dhar Tangne	0.54 Dhar Jikvaldar			
	0.31 Dhar Pang Kyamo	0.54 Shan			
	0.31 Dhar Latothanmo	0.54 Dhar Sarval			
	0.31 Dhar Yakya	0.54 Dhar Mallam			
	0.31 Lara Khas	0.54 Phika			
	0.31 Chhidang	0.56 Pharka			
	0.31 Pololе				
	0.31 Shaktan				
	0.31 Thango				
	0.31 Newpur				
	0.31 Lingti				
	0.31 Demul Khas				
	0.31 Dhar Takling				
	0.31 Dhar Nusbosamdo				
	0.31 Dhar Gangchhumi				
	0.31 Piyuche				
	0.31 Duphuk				
	0.32 Dhar Hal				
	0.32 Chobrang				
	0.32 Samdo				
	0.33 Dhar Malung Samdo				
	0.33 Dhar Dojam Gyapma				
	0.33 Ladarcha				
	0.33 Hikam				
	0.33 Dhar Kidul				
	0.33 Dhar Gechang				
	0.33 Rajgaon				
	0.33 Gangdo Demul				
	0.33 Dhar Parang				
	0.33 Mane Yogma				
	0.34 Dhar Dagduk				
	0.34 Kagti				
	0.34 Lidang				
	0.34 Dhar Lung Wooh				
	0.34 Guling				
	0.34 Kong Kong				
	0.34 Khar				
	0.34 Shushna				
	0.34 Sanglung				
	0.34 Lirit				
	0.35 Dhar Tanve				
	0.35 Dhar Ghiundi				
	0.35 Dumley				
	0.35 Dhar Chicham				
	0.35 Dhar Rajgaon				
	0.35 Dhar Thagpat				
	0.35 Dhar Chhorak				
	0.36 Dhar Rilosar				
	0.36 Dhar Kabjima				
	0.36 Dhar Fagdansa				
	0.36 Dhar Panya				

Vulnerable Villages –Spiti Block– District Lahaul & Spiti					
Very Low	Low	Moderate	High	Very High	Extreme
(0.00-0.20)	(0.21-0.40)	(0.41-0.60)	(0.61-0.80)	(0.81-0.90)	(0.91-1.00)
	0.36 Dhar Farah				
	0.36 Tashi Gang				
	0.36 Thinam				
	0.36 Dhar Ratang				
	0.36 Dhar Thango				
	0.36 Dhar Sonpat				
	0.36 Chamling				
	0.36 Mulche				
	0.36 Lalung Khas				
	0.36 Kibri				
	0.36 Kaley				
	0.37 Dhar Nijom				
	0.37 Shego				
	0.37 Shilling				
	0.37 Dhar Togseluganwa				
	0.37 Teling				
	0.37 Dhartak Damdam				
	0.37 Phibuk Dogri				
	0.37 Nidang				
	0.37 Qurith				
	0.37 Kauirik				
	0.38 Dhar Dojam				
	0.38 Dhar Khamengar				
	0.39 Dhar Keuling				
	0.39 Barpa				
	0.39 Dhar Changlung				
	0.39 Dhar Devsa				
	0.39 Dhar Noor				
	0.39 Tulse Pena				
	0.39 Tishu				
	0.39 Dhar Dum Bachen				
	0.39 Poh				
	0.39 Pomrang				
	0.40 Dhar Chhon Chhon Kanghilda				
	0.40 Dhar Dangdagma				
	0.40 Dhar Chhau				
	0.40 Dhar Kilung				
	0.40 Dhar Nipti				
	0.40 Kunge				
	0.40 Dhar Chhavigya				
	0.40 Dhar Chokula				
	0.40 Tipta				
	0.40 Dhar Chhochhodun				
	0.40 Dhar Kargyupa				



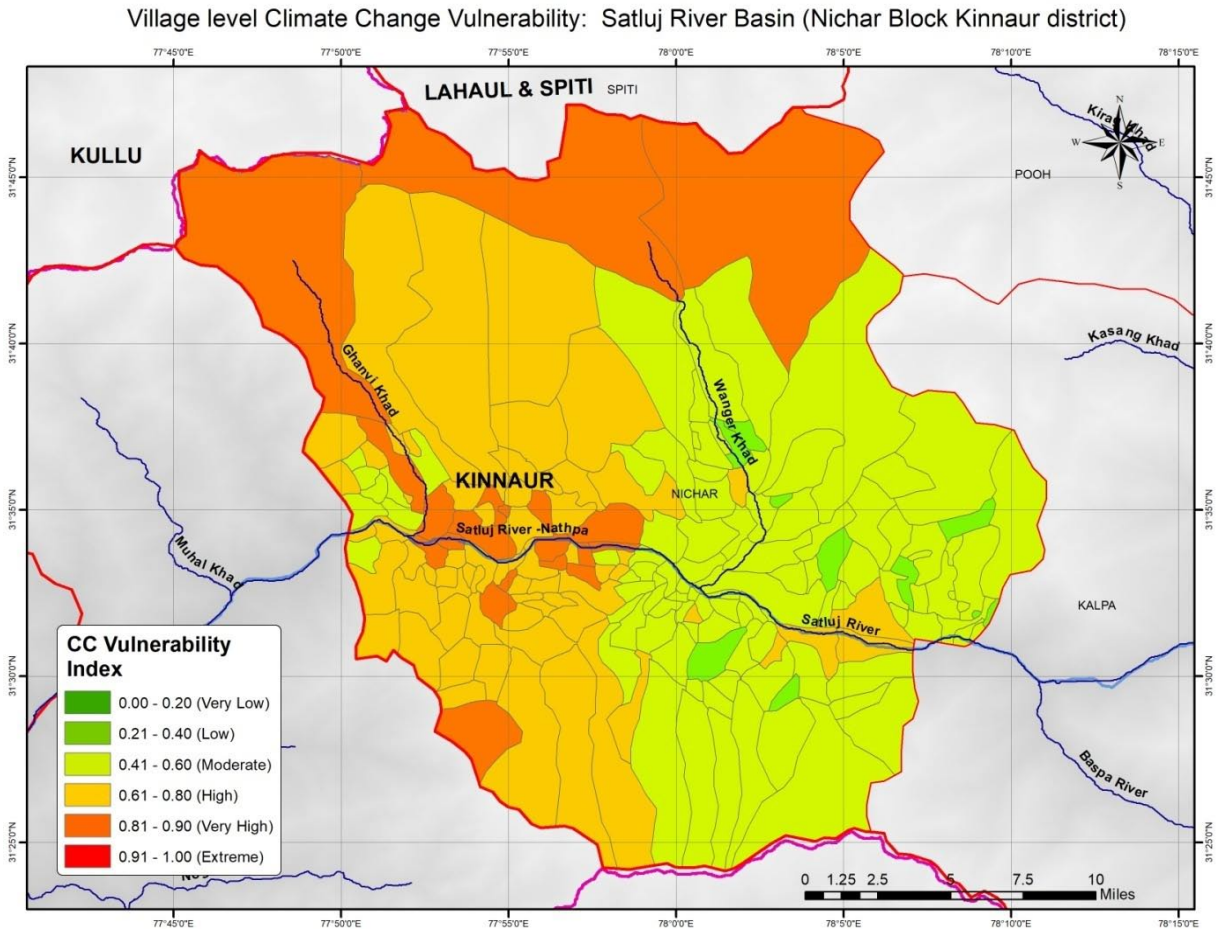
Map 9.36: Vulnerability Map: Pooh Block

Vulnerable Villages –Pooh Block– District Kinnaur					
Very Low	Low	Moderate	High	Very High	Extreme
(0.00-0.20)	(0.21-0.40)	(0.41-0.60)	(0.61-0.80)	(0.81-0.90)	(0.91-1.00)
	0.23 Up Mohal Spiloo Khas	0.41 Dhupak	0.61 Dhar Demchu		
	0.27 Thang Karma	0.41 Thuwaring	0.61 Up Mohal Doling Kanda		
	0.29 Dhar Chango Nichla	0.41 D.P.F.C-186	0.61 Dhar Dolma		
	0.29 Up Mohal Giabong Khas	0.42 Dhar Langtharkheyu	0.61 Dhar Piwung		
	0.30 Nako	0.42 Up Mohal Taling	0.61 Piana		
	0.31 Sumra	0.42 Up Mohal Namkalang	0.61 Khadi		
	0.31 Up Mohal Rush Kulang	0.42 Tokto	0.61 Rijing		
	0.33 Up Mohal Sunam Khas	0.43 Up Mohal Thoropa	0.61 D.P.F.C-196		
	0.33 Up Mohal Kanam Nichla	0.44 Dhar Kukri	0.61 D.P.F.C-195		
	0.33 Up Mohal Danmochhe	0.44 Dhar Pijong	0.61 Asno Kanda		
	0.33 Lippa Khas	0.44 Up Mohal Chelit	0.61 Wevgya		
	0.33 Jangi Khas	0.45 Up Mohal Poo	0.62 D.P.F.C-199		
	0.34 Up Mohal Khabo	0.45 Up Mohal Tashi Gang	0.62 Gyamting		
	0.34 Asrang Khas	0.45 Shiling Khas	0.62 Dhar Lochhas		
	0.35 Up Mohal Shyaso	0.46 Up Mohal Namgia Kanda	0.62 Dhar Wishrang		
	0.35 Nesang Khas	0.46 D.P.F.C-225	0.62 Pibbar		
	0.36 Up Mohal Labrang Khas	0.46 Khokpa	0.62 Dhar Parmati		
	0.37 Up Mohal Kanam Khas	0.47 Changjam	0.62 Kyarbo		
	0.38 Dhar Chango Uperla	0.47 D.P.F.C-188	0.62 Dhar Shangchawal		
	0.38 Up Mohal Ropakhas	0.48 Dhar Shansar	0.63 Dhar Dugona		
	0.38 Up Mohal Namgia Khas	0.48 Skiba	0.63 Up Mohal Rizing Kanda		
	0.40 Dhar Harmi	0.48 Kurpo	0.63 Up Mohal Chakulang		
	0.40 Dhar Yang Pochhe	0.49 Shalkar	0.63 Mohal Bali Dhar		
	0.40 Liti	0.49 Dhar Yungdang	0.63 Dhar Gara		
		0.49 Hemi	0.64 Dung		
		0.49 D.P.F.C-203	0.67 Dhar Liyosu		
		0.50 Dhar Kawe	0.67 Dhar Gyabyum		
		0.50 Dhar Mandasa	0.67 Kutian		
		0.50 Dhar Pargira	0.68 Up Mohal Charti		
		0.50 Dhar Khirpichi	0.68 Up Mohal Khad Makha		
		0.50 Dhar Lauechhe	0.68 Ribba Khas		
		0.50 Dhar Choniti	0.73 Dhar Dumba		

Vulnerable Villages –Pooh Block– District Kinnaur					
Very Low	Low	Moderate	High	Very High	Extreme
(0.00-0.20)	(0.21-0.40)	(0.41-0.60)	(0.61-0.80)	(0.81-0.90)	(0.91-1.00)
		0.50 Dhar Bhajang	0.76 Dhar Aye		
		0.50 Hangmat			
		0.50 Dhar Lahyok			
		0.50 Dhar Lalosa			
		0.50 Up Mohal Sumtat			
		0.50 D.P.F.C-212			
		0.50 Lapo			
		0.50 Gramang			
		0.50 Bato			
		0.51 Dhar Kumsa			
		0.51 Dhar Lipak			
		0.51 Dhar Karsi			
		0.51 Dhar Potali			
		0.51 Ka			
		0.51 Up Mohal Jang Phachho			
		0.51 Dhar Mandal Gurunag			
		0.51 Up Mohal Foche			
		0.51 Up Mohal Dabling			
		0.51 Horang Pawa			
		0.51 D.P.F .C-219			
		0.52 Dhar Phu			
		0.52 Dhar Jabar			
		0.52 Dhar Pegdu			
		0.52 Dhar Kila			
		0.52 D.P.F.C-205			
		0.52 Dhar Khabai			
		0.52 D.P.F.C-214			
		0.52 D.P.F.C-213			
		0.52 Dhar Gunjang			
		0.52 Dhar Jubling			
		0.52 Khadura			
		0.52 Akpa Khas			
		0.52 Up Muhal Holdo			
		0.52 Charang Khas			
		0.53 Yulang			
		0.53 Dhar Dumdumthang			
		0.53 Dhar Biepuche			
		0.53 Dhar Chang Chimo			
		0.53 Chang Chimo			
		0.53 Hango			
		0.53 Dhar Pusang Dang			
		0.53 Dhar Larsa Niyowal			
		0.53 Dhar Chang Guar Guar			
		0.53 Up Mohal Shive			
		0.53 D.P.F.C-208			
		0.53 Up Mohal Chelit Kanda			
		0.53 D.P.F.C-211			
		0.53 D.P.F.C-227			
		0.53 Dhar Jeshtharang			
		0.53 Rispa Khas			
		0.54 Dhar Chara Thang			
		0.54 Dhar Khakrash			
		0.54 Dhar Thana			
		0.54 Dhar Manela			
		0.54 D.P.F.C-204			
		0.54 D.P.F.C-200			
		0.54 D.P.F.C-206			
		0.54 Up Mohal Brati Kanda			
		0.54 D.P.F.C-209			
		0.54 D.P.F.C-210			
		0.54 Up Mohal Gyamil			
		0.54 Up Mohal Labrang			
		0.54 Dhar Dulse Thang			
		0.54 Jagechan			
		0.54 Dhar Wari			
		0.54 Dhar Shyangla			
		0.54 Dhar Kyari			
		0.54 Dhar Changmang			
		0.54 D.P.F.C -221			
		0.54 Nakal Kuwa			

Vulnerable Villages –Pooh Block– District Kinnaur					
Very Low	Low	Moderate	High	Very High	Extreme
(0.00-0.20)	(0.21-0.40)	(0.41-0.60)	(0.61-0.80)	(0.81-0.90)	(0.91-1.00)
		0.54 D.P.F.C-228			
		0.54 Thangi Khas			
		0.54 Chang Kuwa			
		0.55 Yangthang			
		0.55 Shuni			
		0.55 Chuling			
		0.55 D.P.F.C-202			
		0.55 D.P.F.C-207			
		0.55 Dhar Thunsa			
		0.55 Dhar Rishi			
		0.55 Dhar Joganchan			
		0.55 Dhar Chamangti			
		0.55 Dhar Lung Kurkur			
		0.55 Dhar Tepang			
		0.55 Shuti Garang			
		0.55 Dhar Bhang Mochhe			
		0.55 Dhar Mateng			
		0.55 Dhar Begulum			
		0.55 Changmang			
		0.55 Dhar Urang			
		0.55 D.P.F.C-231			
		0.55 Sheelapur			
		0.55 Swaden			
		0.55 D.P.F.C-226			
		0.55 Kuno Khas			
		0.56 Malling Dogri			
		0.56 Dhar Lasangthang			
		0.56 D.P.F.C-201			
		0.56 Dhar Chhopan			
		0.56 Dhar Yangusa			
		0.56 Up Mohal Thunsa Kanda			
		0.56 Up Mohal Dulse Thang			
		0.56 Up Mohal Dubling			
		0.56 Up Mohal Rishi Kanda			
		0.56 Dhar Yurfuk			
		0.56 Dhar Lawar			
		0.56 Becho Thach			
		0.56 Dhar Kagte			
		0.56 D.P.F. C-216			
		0.56 D.P.F.C-220			
		0.56 D.P.F.C-217			
		0.56 D.P.F- C 218			
		0.56 Gyangra			
		0.56 D.P.F.C-230			
		0.56 Dhar Gongra			
		0.56 Chhappan			
		0.56 D.P.F.C-215			
		0.56 Dhar Shiling Khona			
		0.56 D.P.F.C-229			
		0.56 Rarang Khas			
		0.56 Paranga			
		0.56 Holdang			
		0.56 Roowang			
		0.56 D.P.F. C -189 -190			
		0.57 Dhar Lambrafa			
		0.57 Up Mohal Giabong Parla			
		0.57 Dhar Binathang			
		0.57 Up Mohal Shurpu			
		0.57 Dhar Potal			
		0.57 Up Mohal Yangti Kanda			
		0.57 Dhar Maryul			
		0.57 Chakra			
		0.57 Saring			
		0.57 D.P.F.C-222			
		0.57 Ringchil Kanda			
		0.57 Satera			
		0.57 Chhuyian			
		0.57 Lijing			
		0.57 Lambar			
		0.57 Surting Ting			

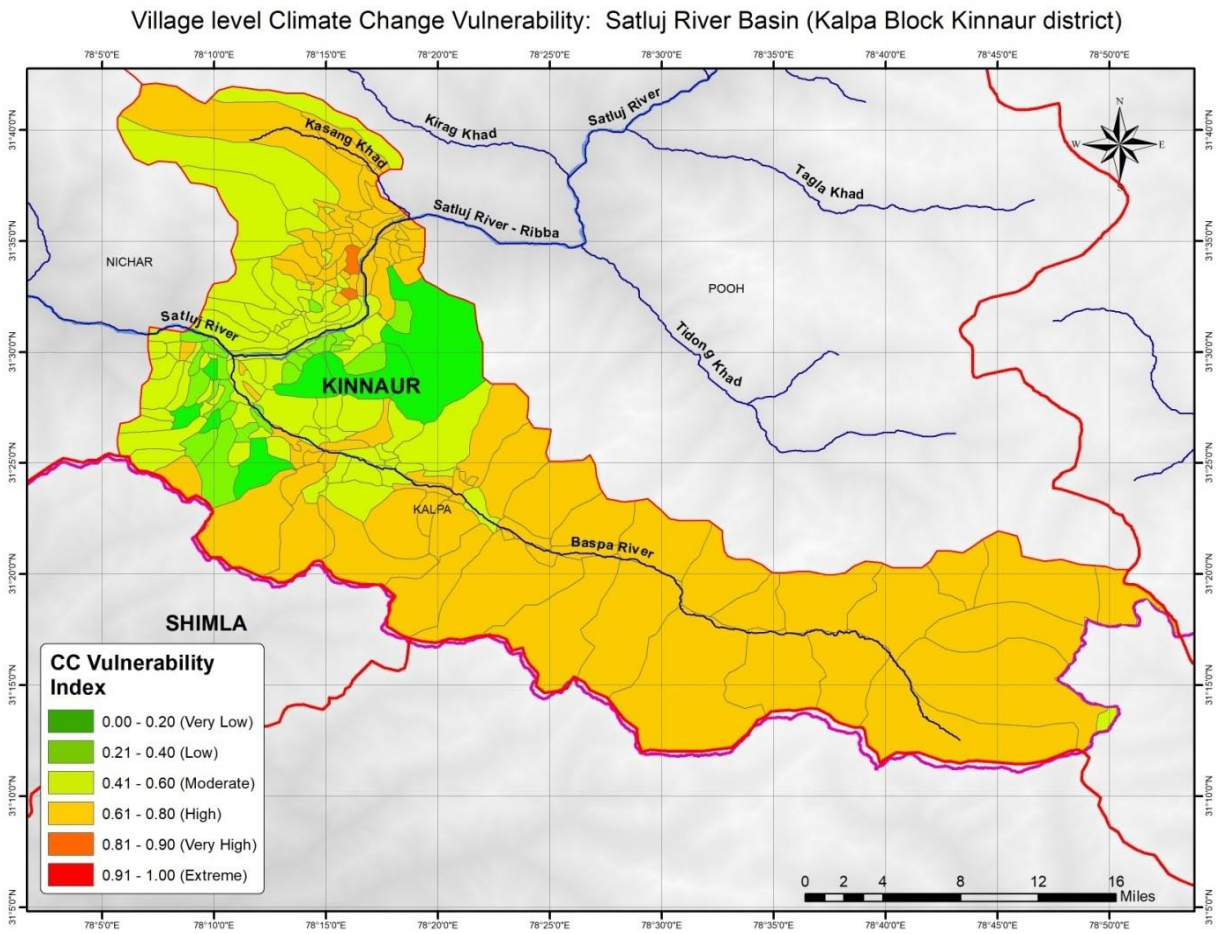
Vulnerable Villages –Pooh Block– District Kinnaur					
Very Low	Low	Moderate	High	Very High	Extreme
(0.00-0.20)	(0.21-0.40)	(0.41-0.60)	(0.61-0.80)	(0.81-0.90)	(0.91-1.00)
		0.57 Dhar Mangla 0.58 Up Mohal Tapang Kanda 0.58 Dhar Chho 0.58 D.P.F.C-198 0.58 Dhar yang Dogsa 0.58 Dhar Rothen 0.58 Dhar Lungpha 0.58 Dangrang Kanda 0.58 D.P.F. C-219 0.58 D.P.F C -232 0.58 Dhar Khatij 0.58 D.P.F.C-223 0.58 Kutang 0.58 D.P.F.C-224 0.58 Dhar Puranga 0.58 D.P.F.C-197 0.58 Shurboo Kanda 0.58 Dhar Khayo 0.58 Dhar Yamdaling 0.58 D.P.F.C-191-192 0.58 Panah Kanda 0.58 Dhar Panah 0.58 Dhar Sunkham 0.58 Kota 0.58 Dhar Dulmnish 0.58 Gigu Lang 0.58 Dhar Chang kuche 0.58 Dhar Gunrang 0.59 Malling 0.59 Leo 0.59 Dhar Warchha 0.59 Dhar Tipung 0.59 Fulang Thach 0.59 Porang Kanda 0.59 Samodpan Kanda 0.59 Dhar Timchhe 0.59 D.P.F.C- 187 0.59 Sirmoling 0.59 D.P.F.C-193 0.59 Up Muhal Cherang Kanda 0.59 Dhar Kushkar 0.59 Dhar Brati 0.60 Shaktang 0.60 Dhar Doge 0.60 Swaling 0.60 D.P.F.C-194 0.60 Dhar Lalanti 0.60 Dhar Shilachh		



Map 9.37: Vulnerability Map: Nichar Block

Vulnerable Villages –Nichar Block– District Kinnaur					
Very Low (0.00-0.20)	**Low (0.21-0.40)**	**Moderate (0.41-0.60)**	**High (0.61-0.80)**	**Very High (0.81-0.90)**	**Extreme (0.91-1.00)**
	0.28 D.P.F.-78	0.41 Gharshu	0.61 Dabling	0.81 D.P.F.Dutrang C-89	
	0.29 Dhar Taal	0.41 Dhar Phopal	0.61 Kandar	0.81 Shakamrang	
	0.31 Saki Charang	0.41 Salaring	0.61 Puje	0.81 Runang Uperla	
	0.32 Bara Kamba	0.41 Kachrang	0.61 D.P.F.-81	0.81 Kalingo	
	0.32 Nigul Sari	0.41 D.P.F.-80	0.61 Yashang Dhar	0.83 Tando Nusko Dhar	
	0.33 Solding	0.41 Kangosh	0.62 Yashang	0.83 Rall Santhang	
	0.36 Basharang	0.41 Palingi	0.63 Paring Khor	0.83 Yuldang	
	0.36 Sungra	0.41 Monilaat Dhar	0.63 Shilani	0.86 Marpuling	
	0.37 Chhota Kamba	0.41 D.P.F-Kutange C	0.63 D.P.F.-86 A	0.87 Yangpa	
	0.37 Nathpa	0.41 Phulyari Dhar	0.63 Kagsthal	0.89 D.P.F.Kashtee C-249	
	0.37 Neugal Dhar	0.41 Gundali Tirmi Dhar	0.63 Shuthanang		
	0.37 Karape	0.41 Tapri	0.64 Burang		
	0.38 Tinrang	0.42 D.P.F. Rupi Shorang Awal	0.64 Saak Kanda		
	0.39 D.P.F.Chhota Kamba	0.42 D.P.F. Rupi Shorang	0.65 Shaling Dhar		
	0.39 Thuskeo Dhar	0.42 Kumrang Dhar	0.65 Masrang		
	0.39 Baro	0.42 Dhar Barke	0.65 Deya Dhar		
	0.39 Ponda	0.42 D.P.F.Chhota Kamba	0.65 Boring Chot Dhar		
	0.39 Devli Dhar	0.42 Punaspa	0.66 D.P.F.-82		
	0.40 Rock Charang	0.42 Change	0.66 Rethachang Dhar		
	0.40 Agade	0.42 D.P.F.-74	0.66 Bhum Talas Dhar		
		0.42 D.P.F.69,70	0.66 D.P.F.-85		
		0.42 D.P.F. Bore C	0.66 Runang Nichla		
		0.42 Bagantu Dhar	0.66 Roshang Dhar		
		0.43 D.P.F.-75,76	0.66 D.P.F Ramni		
		0.43 Sarik Dhar	0.66 Upat Dhar		
		0.44 D.P.F.C.-94	0.67 Pashpa		
		0.44 D.P.F.-79	0.67 Kafnu		
		0.44 D.P.F.-77	0.67 D.P.F.-83		
		0.44 Thachh	0.67 Shaling Dhar		
		0.44 Tikrang	0.67 Burcha		
		0.44 D.P.F-72	0.67 D.P.F.-86 B		

Vulnerable Villages –Nichar Block– District Kinnaur					
Very Low (0.00-0.20)	Low (0.21-0.40)	Moderate (0.41-0.60)	High (0.61-0.80)	Very High (0.81-0.90)	Extreme (0.91-1.00)
		0.44 D.P.F-73 C 0.45 Tiche 0.45 Tranda 0.46 Shamnu 0.46 Bayude 0.46 D.P.F.C-93 Dangrang Kachrang 0.47 Regegurgur Dhar 0.47 Rawa 0.47 D.P.F-72 0.48 Gramang 0.49 Ralpa 0.50 Galding 0.51 Chhonda 0.52 Rango 0.52 Nanaspo 0.53 Bahal Dhar 0.54 Sarkund Dhar 0.54 Jani 0.55 D.P.F.C-92 0.55 Kashpo 0.55 Ramni Khas 0.56 Chaura 0.56 Kafaur 0.56 Panwi Khas 0.57 Chhayuda Dhar 0.58 Nainsaring 0.58 D.P.F-68 A,B,C 0.58 Mohal Nishvasingh 0.58 Punang Khas 0.59 D.P.F. Bada Kamba C 97 0.59 Katgaon 0.60 Garade	0.67 Atang Melang Dhar 0.67 Raag Panung 0.67 D.P.F.Jani-131-132 A.B 0.67 Chhal Patri Dhar 0.67 Dulgi Dhar 0.68 Shagarcha 0.68 Shorang 0.68 Rarang 0.68 Rango 0.68 Chhot Kanda 0.68 Phaktayowar Dhar 0.68 D.P.F.-84 0.69 Pandoshwar Dhar 0.69 D.P.F.- C 126 0.69 D.P.F.- C 127 0.69 Baltha Chang Dhar 0.69 Kutano 0.69 Meeru Khas 0.69 Ghumaruning 0.69 D.P.F. Kangsthal 128 B,129 0.69 Morang Kanda 0.70 Surcho 0.70 Linge 0.70 D.P.F.1 -128 A 0.70 Cholling 0.70 Punang Kanda 0.71 Chhirem 0.71 Shango 0.71 Urabaning 0.72 Yongrang Dhar 0.72 D.P.F.Yati C-91 0.72 Somo 0.72 D.P.F.C - 258 B Tiyudang 0.72 D.P.F.-Rachmanang C-254-255 0.72 Solah Dhar 0.72 D.P.F.Punang 133-136 0.73 Hurba 0.73 Karaba 0.73 Joktaring 0.73 D.P.F.Tilchang C-256,257-258A 0.73 Chatrang Dhar 0.73 Yulla Khas 0.75 Sharoongch Dhar 0.75 Kangarang 0.75 Dharmaling 0.75 Rora Kanda 0.75 Urni Khas 0.76 Homte 0.76 Baiyee 0.76 Nigani 0.76 Shunathachang Dhar 0.77 Shakhar Dhar 0.77 D.P.F.Tilchoka C-251 0.78 Majhgaon 0.78 Huri 0.78 Yotrang 0.78 D.P.F.Balaey C-250 0.78 Rukchawal Dhar 0.79 D.P.F.Bargde C-252 0.80 D.P.F.Kampurang C-90 0.80 D.P.F.Kangarang C-87 A,88 B 0.80 Kangarang 0.80 D.P.F.Baragdo C-253 0.80 D.P.F.Runang C-248		



Map 9.38: Vulnerability Map: Kalpa Block

Vulnerable Villages –Kalpa Block– District Kinnaur					
Very Low (0.00-0.20)	**Low (0.21-0.40)**	**Moderate (0.41-0.60)**	**High (0.61-0.80)**	**Very High (0.81-0.90)**	**Extreme (0.91-1.00)**
	0.32 Reckong Peo	0.42 Pangi	0.61 Jangal Mehfuza Mehduda	0.81 D.P.F. Nalango C-169 AB	0.91 Baturi Kanda
	0.40 Telingi	0.42 Kumrang Dhar	0.61 Radule	0.81 Tatkhawa Kanda	0.93 Dhar Yutingra
		0.42 D.P.F.C-154-155	0.61 Dhar Dhumpawang	0.81 Barua Khas	0.93 Dhar Motas Chakru
		0.43 Khwanta	0.61 Kalpa	0.82 Saryo	0.94 Dhar Tikulrung Thar
		0.43 Sangla Kanda	0.61 Tangling	0.82 Phayag Choden	0.94 Dhar Dambar
		0.44 Khwangi	0.61 Shorang	0.82 Jangal Mehfuza Mehduda	0.97 Nagassaring
		0.46 Dhar Bhadri	0.61 D.P.F.C-162	0.82 Barang Khas	1.00 Sapni Khas
		0.46 Dhar Noshang West	0.61 D.P.F.C 157 Basering	0.82 Meling Khata	
		0.47 Kashmir	0.61 D.P.F Hurua-C-156	0.82 Mone Rang	
		0.48 Ragura	0.62 Brelingi	0.83 Jangal Mehfuza Mehduda	
		0.48 Dhar Hanyauperli	0.62 Tesha Guden	0.83 Sharmi	
		0.49 Dhar Shothang	0.62 Kamru Khas	0.83 Gunthar	
		0.50 Boktu	0.62 Lachonden	0.83 D.P.F.C-164	
		0.50 Tarkhwa	0.63 Dhar Gurgurti	0.83 D.P.F.C 149-150	
		0.50 D.P.F.C-153 Chindo	0.63 D.P.F.C-152	0.84 Kilba Khas	
		0.50 Dhar Kalikutang Nichli	0.63 Goroden	0.84 Shenan Den	
		0.51 Pawari	0.63 Dhar Hanyanichli	0.85 Kanahi-Khas	
		0.52 Rawa	0.63 D.P.F.C 162-A	0.85 Shaung Khas	
		0.52 Goli	0.64 Regsthang	0.86 Mebar Khas	
		0.52 Jangal Mehfuza Mehduda	0.64 Kupa	0.86 Limoden	
		0.53 Jangal Mehfuza Mehduda	0.64 Dewar Kanda	0.88 Patyo	
		0.53 Jangal Mehfuza Mehduda	0.64 D.P.F.C 162-B	0.89 Baturi	
		0.53 Duni	0.64 Dhar Bujlang	0.89 Dhar Pashel	
		0.53 Gonang	0.65 Dhar Thanda Pani		
		0.53 D.P.F.C-152	0.66 Dumdumka		
		0.53 Jareyo	0.66 D.P.F. Chini Awal		
		0.53 Dhar Shoshla	0.66 Anati Dhar		
		0.53 Dhar Gire	0.66 Rakchham		
			0.67 Panwa		
			0.67 Raang		

Vulnerable Villages –Kalpa Block– District Kinnaur					
Very Low (0.00-0.20)	Low (0.21-0.40)	Moderate (0.41-0.60)	High (0.61-0.80)	Very High (0.81-0.90)	Extreme (0.91-1.00)
		0.54 Dhar Jeshta Grang 0.54 Maki Mrang 0.54 Dhar Rupan 0.55 Jangal Mehfuza 0.55 Japredin 0.55 Change 0.55 D.P.F.C-139 Tiuden 0.55 Dhar Noshang Nichli 0.55 Dhar Vaspa 0.55 Dhar Gundar 0.55 Dhar Jowtya 0.55 Dhar Nakdum 0.56 Dhar Rawal 0.56 Kashag Gramag 0.56 Jangal Mehfuza Mehduda 0.56 Purbani Khas 0.56 Jangal Mehfuza Mehduda 0.56 Bulcho Dhar 0.56 Dhar Singan 0.56 D.P.F.C.-160 0.56 Mastrang 0.56 Dhar Nithal 0.56 Dhar Karu 0.56 Dhar Arsomage 0.56 Dhar Chorgaarh 0.57 Jangal Mehfuza Mehduda 0.57 Jangal Mehfuza Mehduda 0.57 D.P.F.C-159 Batseri 0.57 Dhar Kamkamphur 0.57 Dhar Bhujaya 0.57 Dhar Ranikanda 0.57 Dhar Shonchayo 0.57 Dhar Dumti 0.58 Kashang Getige 0.58 Jangal Mehfuza 0.58 Jangal Mehfuza Mehduda 0.58 Kibar 0.58 D.P.F. Talampi C 0.58 Yuwaringi 0.58 Dhar Gelap 0.58 Dhar Noshang Uperli 0.58 Chhitkul 0.58 Dhar Nakurchhe 0.59 Jangal Mehfuza Mehduda 0.59 Jangal Mehfuza Mehduda 0.59 D.P.F. Bada Kamba C 97 0.59 Sangla 0.59 Thapa Saring 0.59 D.P.F.C-161 0.59 Kharogla 0.59 D.P.F.C-163 0.59 Dhar Tawla 0.59 Dhar Bhujlang 0.59 Dhar Hilap 0.60 Nang Kashang 0.60 Dhar Dewar 0.60 Dhar Kali Kutang Uperli	0.67 Boning Saring 0.67 Seringche 0.68 D.P.F. C-142-144 Kumkumi 0.69 Dhar Kyari 0.70 Dhar Kurak Tasang 0.71 Kothi 0.71 Panpo Kanda 0.72 D.P.F.C-143 Sapni 0.72 Chasu Khas 0.72 Batseri 0.73 Rali 0.74 Shuda Rang 0.74 Nyardeem 0.74 Botyaring Dhar 0.74 D.P.F.C-147-148 0.74 D.P.F.C-151 A+B 0.75 Dhar Shulacha Pilaya 0.75 Rogi 0.75 Batingra Dhar 0.76 Talangcho 0.76 D.P.F. Rogi Soyam 0.76 D.P.F. Chini Doyam 0.77 Kastyo 0.77 Dakhaye 0.77 Jangal Mehfuza Mehduda 0.77 D.P.F.C-137 A+B 0.77 Supitang Dhar 0.77 Pilacho Dhar 0.77 Tilchakhula Dhar 0.78 D.P.F. Rogi Awal 0.78 Yusaring 0.78 D.P.F.C-138 Thikru 0.78 D.P.F. Baturi C-145 0.78 D.P.F.C-146 0.79 Mebar 0.79 D.P.F. Rali C-167 0.79 Jangal Mehfuza Mehduda 0.79 Jangal Mehfuza Mehduda 0.80 Jangal Mehfuza Mehduda 0.80 D.P.F. Rogi Doyam 0.80 D.P.F. Gramag C-168 0.80 Thikru 0.80 D.P.F.C-140-141 Kilba 0.80 Shobre Yanang		

As depicted above, all villages of four developmental blocks of Kinnaur, Lahaul & Spiti districts falling in Satluj River Basin have been placed according to their corresponding vulnerability levels Extreme, Very High, High, Moderate Low & Very Low. An adaptation plan/ framework needs to be evolved in order to reduce climate change vulnerability of these villages falling in Extreme, Very High & High levels of vulnerability.

This analysis can facilitate the policy makers to know the climate change vulnerability level of each village. Based upon the findings or level of vulnerability the village can be prioritized for developmental works.

10

Analysis Report - Conclusions

10 Analysis Report - Conclusions

The task wise outcomes are given as follows:

10.1 Summary of Vulnerability Assessment at Village level

After detailed analysis of the study area using hydrological and climate change modelling we have been able to determine and identify those villages, which are vulnerable to the climate change. It is evident that change in climate is definitely going to have an impact on agriculture, horticulture, forests and water resources of vulnerable areas. Therefore, in order to reduce vulnerability there is an urgent need to apply clear-cut strategies to cope with the climate change vulnerability in these sectors both long term as well as short term.

The agriculture & horticulture is critical for food, nutritional and livelihood security of people of the district. The Kinnaur, Lahaul & Spiti districts have made significant progress during the few decades or so and has become a self-sufficient district by producing various cash crops mainly fruits & vegetables. However, with passage of time, it is presently facing several challenges like increase in temperature, un even distribution of rainfall, climate change induced diseases, stagnation in net sown area, decrease in crop yield, deterioration of soil quality, reduction in per capita land availability etc. are emerging issues.

The Forests are also playing very important role in determining the accumulation of greenhouse gases in the atmosphere; they absorb 2.6 billion tonnes of carbon dioxide each year, about one-third of the carbon dioxide released from the burning of fossil fuels. However, this great storage system also means that when forests are cut down, the impact is big. Deforestation accounts for nearly 20% of all greenhouse gas emissions — more than the world's entire transport sector. At the same time, the GHG's off setting capacity of forests is decreased as forests either illegally cut or lost gradually or not quality forests. With the increase of temperature especially in summer season the district encounters more forest fire insidences.

Forests are important for reducing impacts of climate change both present and future effects on people. For example, forest goods tend to be more climate-resilient than traditional agriculture crops and so when disasters strike or crops fail, forests act as safety nets protecting communities from losing all sources of food and income. They also regulate waterways; protect soil, temperature for anentire regions, and more.

There is a need to analyse how forest management can be improved and grow tree cover to benefit the environment and livelihoods. Our research needs to consider everything from REDD+ implementation to land-use change and wetland carbon stores, all of which contribute to our goals of effective climate change mitigation and adaptation.

In case earth's temperature continues to rise, one can expect a significant impact on our fresh water supplies regime with the potential for devastating effects on these resources. As temperatures increase, evaporation increases, sometimes resulting in droughts. In addition, rising temperatures are melting glacial ice at an unprecedented rate and are noted in this region unpresidently.

Glaciers are an important source of freshwater and someare under critical threat of disappearing within the 21st century. Areas that previously depended on glaciers for freshwater will then have to seek other sources i.e. entire river system in Satluj basin will be affected. The relationship between climate change and water doesn't end there.

After consulting district administeration, stakeholder departments/organization the problems of drying up of hand pumps have been reported especially in summer season. The reason behind is ofcourse level water table which is gradually going down.

The adaptation to climate change has the potential to reduce many of its adverse impacts and can lead to enhanced benefits. The key features of climate change vulnerability and adaptation are related to variability and extremes i.e. risks & hazards. The limited economic resources, information and skills, poor infrastructure and insufficient levels of technology makes the blocks inadequate to adapt and highly vulnerable. Increase in adaptive capacity is necessary for reducing vulnerability to climate changes, encountered in the frequency and intensity of extreme events, like floods and droughts which have sever impacts on agriculture and livelihood of local community.

The villages of the four developmental blocks vulnerable to climate change, need intervention at policy plan and programme level with higher priority. The results are useful for stakeholders such as farmers, policy makers and technical advisors, the scientific community and traders for targeting financial resources and better management of resources towards adaptive capacity with village level analysis. The most of the areas of Satluj River Basin falling in Kinnaur, Lahaul & Spiti District observed to be quite vulnerable to climate change. In the villages which are highly vulnerable, policy makers are required to take immediate measures to support effective management of environmental resources (e.g., soil, vegetation and water resources); promote increased market participation, especially within the large subsistence farming sector; stimulate both agricultural intensification and diversification of livelihoods away from agriculture practices; and introduce social programs and including on health, education and welfare, which can help in maintaining and augmenting both physical and intangible human capital.

Investment is required for developing infrastructure in rural areas, and in highly exposed regions, priority is required to be accorded to the development of more accurate systems for early warning of extreme climatic events (e.g., drought or flood) apart from appropriate relief programs and financial inclusion programmes are required for both agri-horti sectors. In addition to the usefulness of the study for policy makers and stakeholders, the study is expected to act as a baseline to further improve the methodologies for assessing vulnerability of agriculture to climate change.

10.2 Vulnerability & Potential for Adaptation:

The most important factor for agriculture/ horticulture, forests & water resources is timely availability of rain and irrigation facilities. The farmers of the both the districts are mostly dependent on the rain for irrigation of farms. People residing along the banks of Satluj River Basin somehow manage to irrigate their farms but farmers residing on higher altitude are dependent of rain only there is no option except rain. During summer it gets very sever, when all the natural water resources dries up. Due to the tough geographical condition, it is difficult to connect all the villages with irrigation schemes besides economic reasons.

So far as the government schemes for irrigation are concerned they are not at present available to the all farmers in the region. There are villages where the irrigation schemes were initiated but these are functional as on date and are pending for one or the other reason.

The State Government is implementing various schemes in order to improve agricultural, horticultural production, increasing forest cover and water resource management in sustainable manner various watershed programmes are being run for local communities.

Proper implementation of these schemes in the district could help the farmers manage the adverse impacts of climate change and in reduction of climate change vulnerability while improving adaptive capacity of farmers. These schemes should be implemented across all sectors, regions for maximum coverage horizontally and vertically.

10.3 Indicative Priority Area/ Sector Climate Change Adaptation-Measures to Reduce Vulnerability:

10.3.1 Possible Strategies for Climate Change Adaptation – Water Sector

- Planning, development and management of water resources need to be governed by common integrated perspective considering local, regional, State and national context, having an environmentally sound basis, keeping in view the human, social and economic needs.
- Principle of equity and social justice must inform use and allocation of water.
- Good governance through transparent informed decision making is crucial to the objectives of equity, social justice and sustainability. Meaningful intensive participation, transparency and accountability should guide decision making and regulation of water resources.
- Water needs to be managed as a common pool community resource held, by the state, under public trust doctrine to achieve food security, support livelihood, and ensure equitable and sustainable development for all.
- Water is essential for sustenance of eco-system, and therefore, minimum ecological needs should be given due consideration and priority.
- Safe Water for drinking and sanitation should be considered as pre-emptive needs, followed by high priority allocation for other basic domestic needs (including needs of animals), achieving food security, supporting sustenance agriculture and minimum eco-system needs. Available water, after meeting the above needs, should be allocated in a manner to promote its conservation and efficient use.
- All the elements of the water cycle, i.e., evapo-transpiration, precipitation, runoff, river, lakes, soil moisture, and ground water, sea, etc., are interdependent and the basic hydrological unit is the river basin, which should be considered as the basic hydrological unit for planning.
- Given the limits on enhancing the availability of utilizable water resources and increased variability in supplies due to climate change, meeting the future needs will depend more on demand management, and hence, this needs to be given priority, especially through (a) evolving an agricultural system which economizes on water use and maximizes value from water, and (b) bringing in maximum efficiency in use of water and avoiding wastages/ spillages.
- The impact of climate change on water resources availability must be factored into water management related decisions. Water using activities need to be regulated keeping in mind the local geo climatic and hydrological situation.
- All data and entire information (except data of sensitive and classified nature) should be placed in public domain.
- The initial projections of the impact of climate change on water resources including the likely changes in the water availability in time and location to be targeted.
- Reassessment of basin wise water availability and demands.
- Empowerment and involvement of Panchayati Raj Institutions, urban local bodies, Water Users' Associations and primary stake holders in management of water resources with focus on water conservation, augmentation and harvesting.
- Promote participatory irrigation management.
- Encourage participation of NGOs in various activities related to water resources management, particularly in planning, capacity building and mass awareness.

- Involve and encourage corporate sector / industries to take up support and promote water conservation, augmentation and preservation within the industry and as part of corporate social responsibility.
- Sensitization of all Panchayat members and their functionaries on water availability.
- Promotion of water efficient techniques and technologies including (a) promotion of micro irrigation techniques such as sprinkler and drip irrigation and (b) expansion of Farmers Participatory Action Research Programme, moisture management techniques.
- Undertake Pilot projects for improvement in water use efficiency.
- Promote Water Regulatory Authorities for ensuring equitable water distribution and rational charges for water facilities.
- Promote mandatory water audit including those for drinking & irrigation.
- Adequate provision for operation & maintenance of water resources projects.
- Incentive through award for water conservation & efficient use of water.
- Incentivize use of efficient irrigation practices and fully utilize the created facilities.
- Guidelines for different uses of water e.g., irrigation, drinking, industrial etc. particularly in context of basin wise situations.

10.3.2 Possible Strategies for Climate Change Adaptation – Agriculture & Horticulture Sector Sector

- In order to increase the production of food grains, emphasis to be laid on distribution of seeds of high yielding varieties to the farmers.
- Establishment of Seed Multiplication Farms from where foundation seed to be distributed to registered farmers.
- In order to increase the production of crops, adoption of plant protection measures is of paramount importance. During each season, campaigns to be organised to fight the menace of crop disease, insects and pest etc.
- In order to maintain the fertility of the soil during each season, soil samples to be collected from the farmers field and analysed in the soil testing laboratories. Soil testing laboratories should be established in all the blocks of the district Kinnaur, Lahaul & Spiti, where as mobile soil testing vans/labs ply in each panchayat in operation for testing the soil samples at site.
- The organic farming is becoming popular being suitable, environmental friendly and health concern to all concerned. Organic farming is to be promoted in each block in a systematic manner by providing trainings, laying out demonstrations, organizing fairs/ seminars to the farmers.
- Set-up vermi-composting units at every house & financial & technical assistance to the farmers is to be provided.
- Sustainable use of fertilizer to increase the production to be promoted.
- Crop insurance scheme against crop loss especially due to climate change is to be provided to the farmers through financial inclusion programmes.
- In order to maintain the quality of the seeds and also ensure higher prices of seeds to the growers, Seed certification programme has to be given due emphasis.
- With the objective to safeguard the interest of the farming community the regulated markets established in different parts of the Blocks to be providing useful services to the farmers. A modernised market complex at least in each Block needs to be made functional for marketing of agricultural produce, besides construction of market yards in cluster in different Blocks.
- New farm implements/ machines are to be popularized among the farmers. Testing of new machines be carried out and popularize the small power tillers suited for small land holdings.
- Due to topographical factors the soil is subject to splash sheet and Gully erosion resulting into degradation of the soil. Besides this there is biotic pressure on the land. To

curb this menace particularly on the Agriculture lands effective soil and water conservation programme should be implemented.

- Water conservation and minor irrigation programme to be accorded priority in order to boost agriculture production.
- Harvesting of rain water and construction of tanks, ponds, check-dams and storage structures needs to be prioritized. Besides this, optimum use of water by low lifting water devices and efficient irrigation system through sprinklers, drip irrigation are to be popularized in rural areas.
- Establishment of Farmer Product Organizations (FPO) in each block.
- Promote sustainable agriculture practices- adopting organic farming, crop rotation, reducing land degradation and soil conservation.
- Improve land management strategies used to protect the environment, boost productivity, strengthen livelihood and enhance food security among marginal sections of society.

INDICATIVE OPTIONS FOR ADAPTATION AT VILLAGE LEVEL INTERVENTION

Climate Change Adaptation measures to reduce vulnerability of rural areas of identified blocks. The indicative option for improving the adaptive capacity of different blocks based on the selected variable at village level is listed in following table:

Adaptive Capacity Indicators		**Possible intervention- Adaptation Options**					
ID	**Indicator Description**	**Extreme (0 .90-1.00)**	**Very High (0.80-0.90)**	**High (0.60-0.80)**	**Moderate (0.40-0.60)**	**Low (0.20-0.40)**	**Very Low (0-0.20)**
VI-A01	Educational Institutes	Educational institutes required. Road networks.	Educational institutes required.	Educational institutes networks. Efforts to improve quality of educational institutes	Strengthen educational institute's network. Efforts to improve quality of educational institutes.	Efforts to improve quality of educational institutes	Efforts to sustain educational networks.
VI-A02	Health Institutes	Health institutes required. Road connectivity.	Set up health dispensary.	Set up health dispensary.	Improvement in existing infrastructure. Set up health dispensary. Health camps.	Improvement in existing infrastructure. Health camps	Improvement in existing infrastructure.
VI-A03	Road Network	Develop road connectivity. Develop mobile crop collection centers.	Develop road connectivity. Develop mobile crop collection centers.	Develop road connectivity. Improve road networks. Develop mobile crop collection centers.	Built pucca all weather roads Improve road network	Built pucca all weather roads Improve road network. Improve existing roads.	Maintain road network.
VI-A04	Agricultural Credit Societies	Establishment of Agricultural Credit Societies. Develop networking with existing agri societies in	Establishment of Agricultural Credit Societies. Develop networking with	Develop networking with existing agri societies in block. Improve networking with	Develop networking with existing agri societies in block. Improve networking	Strengthen agri societies with new interventions.	Strengthen agri societies with new interventions.

Adaptive Capacity Indicators		Possible intervention- Adaptation Options					
ID	Indicator Description	Extreme (0 .90-1.00)	Very High (0.80-0.90)	High (0.60-0.80)	Moderate (0.40-0.60)	Low (0.20-0.40)	Very Low (0-0.20)
		block.	existing agri societies in block.	farmers.	with farmers.		
VI-A05	Self Help Group	Create Self Help Groups	Create Self Help Groups required	Strengthen Self Help Groups. Self Help Group networks.	Strengthen self help groups. Effective networking. Training on seed banking.	Improve operational domain of self help groups. Training on seed banking.	Improve operational domain of self help groups. Training on seed banking.
VI-A06 VI-A07	Mandis/ Regular Market. Agricultural Marketing Society	Develop market infra structures for day to day crops. Develop collection Centers. Develop mobile crop collection centers. Establishment of Agricultural Credit Societies. Develop networking with existing agri societies in block.	Establishment of Agricultural Credit Societies. Develop networking with existing agri societies in block. Develop on farm collection Centers. Develop mobile crop collection centers.	Develop networking with existing agri societies in block. Improve networking with farmers. Develop on farm collectionCenters. Develop mobile crop collection centers.	Develop networking with existing agri societies in block. Improve networking with farmers. Develop on farm collection Centers. Develop mobile crop collection centers.	Strengthen agri societies with new interventions. Develop on farm collection Centers. Develop on farm mobile crop collection centers.	Strengthen agri societies with new interventions.
VI-A08	Hand Pump	Survey to set up hand pumps be carried out.	Survey to set up hand pumps be carried out.	Survey to set up hand pumps be carried out. Revive existing hand pumps	New hand pumps, Revive existing hand pumps	Water recharging be done. Revive existing hand pumps	Water recharging. .
VI-A9	Spring Source	Survey to explore possibility of natural water sources. Ground water recharge.	Survey to explore possibility of natural water sources.	Conservation of natural water sources. Ground water recharge.	Revival / restoration of natural water sources.	Conservation, Revival / restoration of	Conservation of natural water sources.

Adaptive Capacity Indicators		Possible intervention- Adaptation Options					
ID	Indicator Description	Extreme (0 .90-1.00)	Very High (0.80-0.90)	High (0.60-0.80)	Moderate (0.40-0.60)	Low (0.20-0.40)	Very Low (0-0.20)
			Revival / restoration of natural water sources. Ground water recharge.		Ground water recharge.	natural water sources.	
VI-A10	Tank/Pond/Lake	Create Tank/Pond/Lake. Built new water harvesting structure.	Create and conserve Tank/Pond/Lake. Built new water harvesting structure. Restore traditional ponds.	Create and conserve Tank/Pond/Lake. Built new water harvesting structure. Restore traditional ponds	Conserve existing Tank/Pond/Lake. Effective use of water harvesting structure. Restore traditional ponds	Conserve Tank/Pond/Lake. Restore traditional ponds	Conserve traditional ponds
VI-A11	Irrigated Area	Survey for water sources and irrigation potential. Built Irrigation schemes. Water harvesting structures.	Built Irrigation schemes. Survey for water sources and irrigation potential. Water harvesting structures.	Built Irrigation schemes. Survey for water sources and irrigation potential. Water harvesting structures. Channelization of water. Check leakage of water. Link water ponds, water channels with farms.	Water harvesting structures. Channelization of water. Check leakage of water. Link water ponds, water channels with farms.	Water harvesting structures. Channelization of water. Check leakage of water. Link water ponds, water channels with farms. Assess irrigation potential.	Enhance irrigation coverage. Assess irrigation potential.

Sensitivity Indicators		Possible intervention- Options to reduce Sensitivity					
ID	Indicator Description	Extreme (0 .90-1.00)	Very High (0.80-0.90)	High (0.60-0.80)	Moderate (0.40-0.60)	Low (0.20-0.40)	Very Low (0-0.20)
VI-S01	Avarage Hill Slope	– Avoid construction in Slopes.	– Avoid construction in Slopes.	– Avoid construction in Slopes.	– Streamline Stabilization of	Construct Run off Channels	Hill slope stabilization works

Sensitivity Indicators		Possible intervention- Options to reduce Sensitivity					
ID	**Indicator Description**	**Extreme (0 .90-1.00)**	**Very High (0.80-0.90)**	**High (0.60-0.80)**	**Moderate (0.40-0.60)**	**Low (0.20-0.40)**	**Very Low (0-0.20)**
		– No excavation.	– No excavation	– No excavation.	Hill Slopes. – Improve drainage		maintained
VI-S02	Annual Average Water Yield	– Promote water recharge actions. – Maximize Rainwater harvesting – Check dams & bio-engineering works	– Promote water recharge actions. – MazimizeRainwater harvesting – Check dams & bio-engineering works.	– Promote water recharge actions. – MazimizeRainwater harvesting – Check dams & bio-engineering works	Maintain rain water harvesting capacity & forest cover	Maintain rain water harvesting capacity & forest cover	Maintain rain water harvesting capacity & forest cover.
VI-S03	Percentage of Net Sown Area to Geographical area	Increase Percentage of Net Sown Area to Geographical area	Increase Percentage of Net Sown Area to Geographical area	Enhance Sown Area	Maintain Sown Area	Sown area to be retained	Sown area to be retained
VI-S04	Human population density	Human population density to be nationalized with area	Human population density to be nationalized with area	Nationalize the population density	Population density to be rationalized with area	Maintain ratio	Maintain ratio
VI-S05	Percentage of Un-irrigated Land Area to Geographical area	Irrigated land area to be enhanced.	Irrigated land area to be enhanced.	Prioritization facilitation to be increased.	Maintain irrigation facilitation	Irrigation facilities to be made effective	Irrigation facilities to be made effective
VI-S06	Percentage of Barren & Un-cultivable Land Area to Geographical area	Barren & Un-cultivable land area to be brought under irrigation	Target barren land for irrigation	Target barren land for irrigation	– Forestation facilities to be enhanced. – Plantation awareness training –	– Forestation facilities to be enhanced. – Plantation Programme, Awareness	– Forestation facilities to be enhanced. – Plantation Programme, Awareness
VI-S07	Percentage of Cultivable Waste Land Area to Geographical	Cultivable Waste Land Area to the Geographical Area to be reduced	Target cultivable Waste land for irrigation	Target cultivable Waste land for irrigation	Target capacity building programme for villagers	Target capacity building programme for villagers	Target capacity building programme for villagers

Sensitivity Indicators		Possible intervention- Options to reduce Sensitivity					
ID	Indicator Description	Extreme (0 .90-1.00)	Very High (0.80-0.90)	High (0.60-0.80)	Moderate (0.40-0.60)	Low (0.20-0.40)	Very Low (0-0.20)
	Area						

10.4 Framework to reduce vulnerability to Climate Change

The framework has been developed in accordance with the State Strategy and Climate Change Action Plan, This framework is intended to complement the SAPCC. It is necessary to develop strategies and plans at regional and local level. Efforts are required to identify resource management and economic opportunities that climate change may pose to these areas. This framework may help to position marginal farmers in these areas to take effective early steps to avoid potential consequences of climate change. The purpose of this framework is to:

- Identify likely future climate conditions that pose major risks for livelihood security of the marginal farmers.
- Assess the capacity of state programs to effectively address climate-related risks to marginal farmers, local communities, infrastructure, and natural resources. Identify short-term and low- or no-cost priority actions to mitigate such climate induced risks.
- Provide context and initial direction for additional coordination and planning for future climate conditions.

As per recommendations of SCCAP the state Government has initiated the process to develop strategic framework to address climate change vulnerability assessment including following:

- Determine how climate change will affect local regions.
- Support stakeholder organizations/ institutions and individuals in responding to climate change.
- Transform planning processes to deal with climate change from local level.
- Incorporate the agricultural, public health implications of climate change in to planning process.
- Continue to develop and refine a climate change research agenda for local level planning.

This framework could only act as an initial step; it by no mean completes the work needed to be fully implemented. Considerable work is required, especially in collaboration with local farmers, local governments and federal agencies, to fully address climate risks to region. In order to design the potential adaptation options it is important to indicate and scope the associated risks that may pose threat to the local communities.

The most vulnerable resources in the Satluj River Basin

Resource	Drivers of vulnerability	Adaptive capacity
Natural systems		
Human resources	– The obvious impoverishment of most people, especially in rural areas, and the increasing stratification of society. – A deteriorating demographic situation caused by a negative natural increase of	For its maintenance a radical revision of people residing around the Satluj River better social and economic policies is needed.

Resource	Drivers of vulnerability	Adaptive capacity
	the population and the aging of societies against the increase in morbidity and mortality. – A decline in the quality of education and its incompatibility with the contemporary needs of society and, above all, the economy. – Public risks associated with extreme events.	
Water resources	– The high probability of exposure to the consequences of climate change and variability because "a river is a product of climate." – Evident increase of variability of the Satluj River runoff regime and quantity of flow, which makes more difficult their evaluation and prognosis. – Disastrous ecological conditions of small rivers, often being at risk of extinction, and reduction of their contribution to the basin's water resources. – Deterioration of surface water quality due to water temperature increase, decrease in runoff, and anthropogenic pollution. – Very likely continued decline of groundwater levels due to increased climate aridity, intense water withdrawal, and lack of the monitoring of ground water storage and quality.	Ample enough, with the anticipated maintenance or 15% increase in river flow and in the case of extending the network of water reservoirs, a competent river flow control and strict ensuring a minimum environmental runoff, as well as matching the water use with water resource availability.
Forest resources	– A likely change in species composition and wood species' horizontal and vertical areas; the disappearance of certain species. – A very likely emergence of	Intensive afforestation is needed.

Resource	Drivers of vulnerability	Adaptive capacity
	new diseases and pests. An ongoing unauthorized felling, often caused by high poverty levels.	
Ecosystems and wetlands	– Very likely decrease of biodiversity and the replacement of primary successions by low-productive secondary ones. – Very likely decrease of natural habitats of indigenous species due to their drying, water quality deterioration at higher temperatures, and alien species invasion. – Likely deficit of water supply due to the priority use of Satluj River water by certain "privileged" users, for example, hydropower.	At present is low, being in essence reduced to autonomous adaptation.
Branches of economy		
Agriculture	– A very likely increase of aridity; more frequent and intensive droughts and extreme weather phenomena (frost, heavy rains, hail, and rainless periods), especially in the middle and lower parts of the basin. – Almost complete destruction of the previous irrigation system, combined with a shortage in water resources available for irrigation. – Likely deterioration of soil fertility due to a possible increase in soil salinity, water erosion, and landslides. – Likely emergence and invasion of new plant pests and animal diseases. – Very likely further depopulation of rural areas and the declining contribution of agriculture to GDP.	Low due to reduced production, rural depopulation and rural-to-urban or abroad migration, and to destruction of large farms. The absence of public subsidies that reduces the competitiveness of domestic products on local and foreign markets and export potential. Reducing the capacity and efficiency of agricultural science.
Water supply	– The likely falling of	Low if the present economic situation will

Resource	Drivers of vulnerability	Adaptive capacity
and sanitation	groundwater table and drying up of wells and springs that are main sources of water in rural area. – Lack of proper diversification of water delivery to its users. Likely shortages of available water resources and the worsening of water quality.	continue.
Fish industry	Likely change in the fish fauna, reduction of its biodiversity, and commercial fish catches due to the disappearance or reduction of spawning grounds.	Medium in the case of the strict control of fishing and spring water releases for spawning fish.
Infrastructure	Likely deterioration due to both climate change direct effects (e.g., high summer temperatures or heavy rainfalls) and the lack of material resources to its maintaining.	Low due to the obvious lack of resources for maintenance and improvement.

10.5 Risk assessment encompassing Water & Agriculture sector:

Scoping Climate Risks

Under this assignment the initial tasks were to identify likely changes in block's climate conditions at Panchayat level and that how it has merged for the last ~30-40 years. The working team identified and worked on several indicators to identify the climate change vulnerability.

In this framework, these likely changes- vulnerability has been defined as climate risks. As the work team refined the inventory of risks, characterizing the risks to economic systems became more and more difficult. More to the point, very limited information is available on the likely economic effects of climate change in the State. Risks to GoHP's economy that were identified by the work team were really risks to other systems restated in very general economic terms. In other words, climate-related risks to GoHP's economy reflected the economic consequences of risks to natural systems, built and developed systems, public health and safety. In the end, while this framework attempted to include the economic effects of future climate conditions within its scope, there is limited information available to do so with confidence in given time. Further collaboration with economists and organizations outside government is necessary to improve the assessment of the possible or likely economic consequences of climate change on marginal farmers and the State at a whole.

Following climate risks listed below and in the table and the indicative mainstreaming options constitutes the substantive foundation for the adaptation framework. Climate risks have varying degrees of likelihood; that is, not all the identified climate risks are equally likely to occur in District. The risks are listed according to likelihood levels; the three levels

of Very likely, Likely, and More likely than not correspond roughly to 90 percent, 66 percent, and 60 percent confidence levels, respectively. In planning for future climate conditions, it will be important to recognize variability and uncertainty in climate risks.

Potential Consequences of Climate Risks

The team compiled a survey of likely consequences for each climate risk. Some of the consequences are summarized below. The summaries are by no means exhaustive, but rather are intended to help identify state responsibilities and programs that will likely need to prepare for and adapt to the effects of climate change.

Risks Very likely to occur	Risks Likely to occur	Risks More likely than not to occur
Increase in average annual temperatures and likelihood of extreme events. Overall, increased average temperatures will result in increased water temperatures and reduced flows in streams, which over the long term will cause shifts in aquatic habitats, species, and communities. There is serious risk that increased average air temperatures will affect water temperatures and aquatic habitats to the extent that important native species will go extinct. In main plain region low altitude areas hot air will result in increased deaths and illness among vulnerable human populations. The elderly, infants, chronically ill, low income communities, and outdoor workers are the main groups threatened by high temperatures. Higher temperatures increase the threat of human illness from both waterborne diseases and vector borne illnesses. In addition, heat waves, drought and changes in hydrology will contribute to an increase in the threat of wildfire, which will result in increased exposure of vulnerable groups, including marginal farmers. In creased temperature will lead to shift in cropping pattern, change in	**Loss of wetland, water bodies ecosystems and services** Water bodies and Wetlands play key roles in major ecological processes and provide a number of essential ecosystem services, such as flood reduction, groundwater recharge, pollution control, recreational opportunities, and fish and wildlife habitat, including for endangered species. As such, increases in air temperature and changes in hydrology will exacerbate impacts to already degraded and fragmented wetland and other water bodies-ecosystems. The consequences for losing water bodies, wetland ecosystems and their associated services will potentially affect all systems—natural, built and developed systems, public health and safety, and local economy. Examples of the effects of a loss or reduction in water bodies, wetland ecosystem services include increased flood damage to agricultural lands, and roads; increased requirement of new and expanded drinking water treatment facilities; and increased need for water storage facilities for flood control and to meet seasonal	**Increased frequency of extreme precipitation events and incidence and magnitude of damaging floods** Extreme precipitation events have the potential to cause localized flooding due partly to inadequate capacity of storm drain systems. Extreme events can damage or cause failure of even dams. Increased incidence and magnitude of flood events will increase damage to property and infrastructure, and will increase the vulnerability of areas that already experience soil changes. Areas thought to be outside the floodplain may experience flooding. Many of these areas have improvements that are not insured against flood damage, and thus floods will probably result in catastrophic property damage and losses. Finally, increased flooding will disrupt ecosystems, thereby affecting the distribution of water, agriculture, and essential services. **Increased incidence of landslides** Increased landslides will cause increased damage to property and infrastructure, and will disrupt transportation and the

seed quality, with negative change in soil quality living adverse impacts on marginal farmers. **Changes in hydrology and water supply; reduced snowpack and water availability in some basins; changes in water quality and timing of water availability** Changes in hydrologic patterns in major river basin i.e. Satluj river basin which comprises of ~ 70 % area under study with some micro watersheds will affect supplies of water for all uses, and will contribute to increased water quality problems. Reduced availability of water will affect marginal irrigators, changed water supply planning in many micro watersheds, and affect the quality and availability of water for some public drinking water systems as well. Proposals for surface water storage may increase. Changes in the timing and quality of available water will affect aquatic, wetland, and riparian ecosystems and species, especially species that need adequate water in stream to survive and populations that are already identified as threatened or endangered. Hydrologic changes will exacerbate temperature-related water quality problems. Water users suffering the most adverse consequences will be the marginal farmers-irrigators. Irrigated agriculture is a primary economic driver in both the districts so without careful planning for the consequences of climate change, the agricultural economy may suffer significantly. Changes in hydrology have the potential to significantly affect agricultural productivity until crops suited to new hydrologic	water demand. The loss of wetland ecosystems and services will have indirect consequences on a range of economic activities. Loss of water bodies that provide habitats can eventually reduce the soil quality, fertility. Loss of seasonal wetlands and water bodies will impact waterfowl and shorebird populations. Loss of wetland that provide flood protection may result in higher damage costs as a result of increased flood related damages. Loss of wetland, water bodies that purify water may result in the need for expanded or additional drinking water treatment facilities. Loss of wetland, water bodies that provide water storage may result in the need for the construction of expanded and additional infrastructure to prevent flooding and to meet summer time water demands. **Increase in stream temperatures, with potential for changes in rivulets chemistry** Higher temperature of water bodies will have a negative effect on some local native species and could result in dramatic changes in local ecosystems. Changes in temperature and upwelling may be positive for some species and negative for others off. If there are large increases in temperatures, there is a potential for significant restructuring of the ecological communities on the rivers basin. Population variation of many local species is likely to increase due to direct biological effects of climate change and indirect cascading ecological effects. **Increased incidence of drought**	distribution of water, agriculture, and essential eco services. Widespread damaging landslides that accompany intense rainstorms and related floods occur during spring seasons, monsoon season. Particularly high-consequence events occur about every decade as reported in SCCAP.

conditions are developed.	Longer and drier growing seasons and drought will result in increased demand on ground water resources and increased consumption of water for irrigation, which will have potential consequences for natural systems. Droughts affect wetlands, stream systems, and aquatic habitats. Drought will result in drier forests and increase likelihood of forest fires. Droughts will cause significant economic damage to the agriculture industry through reduced yields and quality of some crops. Droughts can increase irrigation-related water consumption, and thus increase irrigation costs. Drought conditions can also have a significant effect on the supply of drinking water. **Increased soil erosion and risk of inundation from increasing levels due to rain intensity and increasing storm intensity** Increased storm, and high rain intensity levels can lead to loss of natural buffering functions of land scapes, wetlands. Accelerating soil erosion has been observed, and may require increased applications of check dams, protective structures. Soil alterations typically reduce the fertility, chocking of wetlands, and dune to adjust to new conditions. Increasing temperatures, dry conditions will increase soil erosion and likely increase damage to irrigated lands, agricultural lands and infrastructure situated on river banks. Soil erosion and the common response to reduce soil erosion can lead to long-term loss of natural buffering functions of irrigated lands and micro watersheds. Applications for soil alteration permits to protect property and such	

	infrastructure are increasing, but in the long term they may reduce the ability of micro watershed systems to adjust to new conditions. **Changes in abundance and geographical distributions of plant species and habitats for aquatic and terrestrial wildlife** Changes in temperature and precipitation regimes will result in a gradual migration of some species and habitats north and to higher elevations. Species that cannot migrate or shift their range quickly enough to respond to climate change, or that have specific life-history needs that cannot be met through migration, will likely experience a decline in population numbers, potentially leading to extinction. Changes in temperatures and hydrology will affect aquatic, wetland, and riparian ecosystems and species, especially species or population units that are already identified as threatened or endangered. Risk of damage by insect and plant pests, which can result in significant damage to native species and communities, will increase with warmer temperatures. Alterations to the species composition of native ecosystems will likely result in a decline in important ecosystem services, including water quality and quantity, carbon storage, soil stabilization, flood control, and nutrient cycling. **Increase in diseases, invasive species and insect, animal and plant pests** Invasive species can negatively impact native plants, fish, and wildlife in agricultural ecosystems by displacing native species, changing habitat	

	characteristics, consuming significant amounts of water, and changing fire regimes. Invasive species have already caused damage forests, grasslands, and wetlands, and agricultural economy. Spread of infectious diseases in the some of micro watershed is occurring, with increased vulnerability to local ecosystems to existing and emerging conditions. **Increase in wildfire frequency and intensity** Increased temperatures, the potential for reduced precipitation in summer months, and accumulation of dry leaves, pine needles in forests due to insect and disease damage (particularly in eastside forests) present high risk for catastrophic fires. An increase in frequency and intensity of forests fire may damage larger areas, and likely cause greater ecosystem and habitat damage. Forests fires may causes crop damages, human health risks due to exposure to smoke etc. Increased risk of forests fire may result in increased potential for economic damage at the urban-forest land interface. Forests fire destroy property, recreational opportunities, and ecosystem services. Some buildings and infrastructure subject to increased fire risk may not be adequately insured against losses due to fire. Increased fire danger will increase the cost to prevent, prepare for, and respond to forests fires.	

Selecting Short-Term Priority Actions

From the above climate risks one can easily look at;

1) The basic capacities of different organizations to address the identified risks; and

2) to compile a list of immediate or short-term actions that may help to improve local capacity to address the risks.

This effort is indicative primarily an initial scoping exercise. There may be many other short-term actions that may be needed to effectively address the identified risks. But given resourceand time considerations makes it paramount to limit the list of needed actions to a few relatively low-cost actions. Resources are not indicated to implement any or more than only a few of the needed actions. It thus in turn necessary to identify a limited set of top priority, short-term, low-cost actions from the list. In consultation with nodal department, stakeholders, local agencies, the team prioritized needed actions according to the benefits of each one relative to all the other actions. In selecting priority actions, the team based its assessment on a very general idea of the relative magnitude of the costs and benefits for each of the actions. In attempting to narrow its focus on low cost, high benefit actions, the team assigned high, medium, and low cost and benefit values to each action, relative to the costs and benefits of the other actions, using the following guidelines in the evaluation:

Costs

- Costs to the state: The approximate individual cost to implement the action.
- Costs to major farmers, landowners and growers: Costs to private parties and businesses associations of implementing the action.
- Costs to the public and to particular vulnerable communities, marginal farmers: All other costs to the public, including infrastructure costs and costs to local governments.

Benefits

- Higher priority actions respond to higher likelihood of risks.
- Avoided costs: Reduced losses and damage from climate conditions that will be achieved in a 10-20 year timeframe if the actions are initiated now onwards.
- Higher priority actions address the effects of more than one risks simultaneously.

More time and detailed information about the costs and likely benefits of required actions are necessary to improve the process of identifying priority actions. The present study in given time & resources, preparation of inventory of gaps and actions is by no means exhaustive, nor is it intended to be the last one in identifying climate change adaptation priorities. This framework represents a starting point and initial assessment of State capacity to deal with present and future climate risks at local level. The table as follows lists the short-term priority actions needed to improve local farmer's capacity to address the identified climate risks.

10.6 Climate Risks and Short-Term Priority Actions

Sr. No.	Risk		Action
1.	Very likely to occur	Increase in average annual temperatures and likelihood of extreme events.	– Enhance and sustain public health system capacity to prepare for and respond to high temperatures and crop protection measures, pests attacks, air pollution incidences, and improve delivery of information on high temperatures and possible ways to deal with it, especially for isolated and vulnerable

Sr. No.	Risk		Action
		Hail storms	populations. – Enhance infrastructural support to marginal farmers on drip irrigations/ precision irrigations. – Provide high quality seeds. – Provide support to marginal farmers to use antihail nets on at least horticulture farming. – Enhance reach of protected cropings.
		Changes in hydrology and water supply; reduced snowpack and water availability in some basins; changes in water quality and timing of water availability	– Maintain the capacity to provide assistance to local farmers to restore water bodies, wetlands, uplands and riparian zones to increase the capacity for natural water storage. – Improve real-time forecasting of water delivery and basin yields to improve management of stored water. – Improve capacity to provide technical assistance and incentives to increase storage capacity and to improve conservation, reuse, and water use efficiency among all consumptive water uses. – Enhance water harvestings in micro watersheds. – Built water storage tanks for marginal communities. – Systematic approach for coping with floods – mapping of areas likely to experience floods, establishing hydraulic and hydrological models and developing comprehensive schemes for flood management and reservoir sedimentation. – Crop diversification among marginal farmers.
2.	Likely to occur	Loss of water bodies, wetland ecosystems and services	– Support implementation of priority actions for Risks 2, 5, 6, 7, and 10 related to hydrologic changes, drought, soil erosion and inundation, habitats, and flooding.
		Increase in water bodies temperatures, with potential for changes in water regime/ chemistry and increased pollution loads	– Increase research on the impacts of changes in water temperature and regime/ chemistry river basin, micro watershed habitats and resources. – Promotion of traditional system of water conservation. – Physical sustainability of groundwater resources.
		Increased incidence of drought	– Improve capacity to provide technical assistance and incentives to increase water storage capacity to marginal farmers and to improve conservation, reuse, and water use efficiency among all consumptive water uses. – Comprehensive assessment of ground water to

Sr. No.	Risk	Action
		be made. – All over-exploited areas should be covered by recharge of ground water. – Expeditious implementation of water resources projects particularly the multipurpose projects with carry over storages benefitting drought prone and rain deficit areas – Development of guidelines for incentivizing recycling of water including wastewater.
	Increased soil erosion and risk of inundation from increasing levels due to rain intensity and increasing storm intensity	– Inventory and map micro watersheds- irrigated lands that are at risk of soil erosion or inundation, or are barriers to migration, and develop long-term state and local adaptation strategies. – High flooding zonations and potential threat zoning.
	Changes in the abundance and geographical distributions of plant species and habitats for aquatic and terrestrial wildlife	– Identification of ways to manage ecosystems that will improve their resilience to changes in climate conditions. – Local / native species inventory.
	Increase in diseases, invasive species, and insect, animal and plant pests	– Increase monitoring, detection and control measures for pest insects and plant and wildlife diseases. – Increase surveillance and monitoring for climate-sensitive infectious diseases to crops and humans. – Increase outreach and community education about disease and invasive species prevention measures. – Seek new means of securing resources to detect and combat diseases and invasive species.
	Increase in forests fire frequency and intensity	– Include forest fires in planning to reduce vulnerability to natural hazards. – Restore fire-adapted ecosystems to withstand natural recurring forest fires. – Develop short- and medium-term climate change adaptation strategies for forests and other fire-prone habitats, and improve development standards to reduce exposure to fire risk at the urban-forests land interface. – Improve the capabilities of public health agencies to plan for and respond to the public health and safety risks of forest fire emergencies.

Sr. No.	Risk		Action
3.	More likely to occur than not	Increased frequency of extreme precipitation events and incidence and magnitude of damaging floods	– Inventory past flood conditions and define and map future flood conditions. – Improve capability to rapidly assess and repair damaged transportation infrastructure, in order to ensure rapid reopening of transportation corridors. – Soil quality checking center development.
		Increased incidence of landslides	– Develop public education and outreach on landslide risks and how to adapt to landslide risks associated with the agriculture.

10.7 Mainstreaming Adaptation- Implementation Framework

Climate variability and change will affect almost 75 % local communities residing in rural areasand nearly every important sector of these four blocks district economy in the coming decades will be under stress. Mounting and maintaining an effective response effort within State government requires coordination and collaboration among local agencies. Given the continuing long-term challenge, climate change and adaptation needs to be 'mainstreamed' in programs and operations.

The local farmers group and the inter departmental working group should be coordinated through effective framework. The District level authorities, as a steering group, should provide oversight for the coordinated implementation of the short-term priority actions and the implementation of recommendations.

Implementing the short-term priority actions shall help local community to make a start on a long-term path for improving community resilience on climate change. Implementing the priority actions initiate the process of factoring information on climate risks in policy and planning at the block, district and state level. But in case implementation of the framework is limited to just the priority actions, several important issues will remain unaddressed. The framework includes a series of recommendations related to these issues, which are not tied exclusively to any one risk.

Sr. No.	Actions	Relevance	Recommendations
1.	Identify Research Needed for Management	Just like all planning efforts, the anticipated future conditions that form the foundation for the framework involve some uncertainty. Further planning for climate change should involve continued identification of needed research to help ensure that measures being considered are the most appropriate measures. In particular, research is needed on the potential economic costs and	– Compile an inventory of research needed to improve the effectiveness of adaptation measures at the state and local levels in following prioritized areas: 1. Irrigation & Public Health 2. Agriculture 3. Horticulture

Sr. No.	Actions	Relevance	Recommendations
		benefits of alternative adaptation strategies.	4. Forests 5. Soil
2.	Monitoring for Management	Monitoring is an underappreciated element of effective resource management. District or local agencies draw on information from many sources, and may monitor a variety of conditions, to improve local level efficiencies and the management of resources. The foundation of information for managing natural resources and state infrastructure could be improved, however, and such improvements will almost invariably improve local's ability to respond to the effects of future climate conditions.	– Compile an inventory and maps of current surveillance (for crop diseases) and monitoring (for environmental conditions) efforts, and assess the feasibility of integrating different monitoring efforts into a district wide monitoring system. – Monitoring of Crop diversification and traditional seed banking management.
3.	Sectoral Program Assessments	State agencies already have some important capacities to prepare for, respond, and adapt to the effects of future climate conditions. However, the challenge that climate variability and change present to marginal farmers, local communities is that conditions are changing faster than has generally been experienced before. Therefore, it is important that local level policy, program, and permit choices in the future incorporate information about likely future climate conditions, so as to avoid policies that might have clear climate-related future costs.	– State agencies should undertake an initial broad-scale assessment to identify policy and program elements that could result in decisions that place local people, resources or infrastructure at risk such as excessive crop diversification.
4.	Integrating Economic Information into Adaptation Planning	Development of this framework has been somewhat hampered by the absence of reliable information about either 1) the economic costs of projected changes to local climate, especially over time; and 2) the likely cost to effectively respond to such changes, especially at the local level. The framework had to be developed on the basis of the estimated magnitude of costs-of both the effects of climate conditions and actions to address	– State Government should work with economists and climate adaptation specialists and existing groups or institutes with expertise in economics to compile plan to analyse the data that can be used to improve the effectiveness of planning for climate variability and change.

Sr. No.	Actions	Relevance	Recommendations
		those effects-relative to other effects and actions. It is necessary to improve the economic foundation for future adaptation planning.	
5.	Inter-departmental / organizations Coordination	Building resilience to the effects of climate change will require coordination among all levels of government, and should include non-government entities as well. The most effective adaptation strategies will be implemented at the local or regional level, but may well be a function of state or National initiatives. The private and non-profit sectors will also be actively engaged at the local, statewide, and national scale in building resilience in areas such as the economy and social welfare. Activities at all levels will need to be coordinated to assure cost effectiveness and to avoid working at cross-purposes.	– Himachal Pradesh state agencies should consult with National agencies, stakeholders, representatives of local panchayats, and the private and nonprofit sectors to identify ways to coordinate the implementation of climate adaptation initiatives.
6.	Integrating Adaptation and Mitigation Strategies	There is very little in the way of credible scientific challenge to the conclusion that much of the change in climate at the global scale is being driven by increased carbon dioxide emissions from the combustion of fossil fuels. One of the priority overarching actions of an adaptation framework should be to renew the commitment to reducing the generation of greenhouse gasses.	– Assess existing emission reduction strategies to determine how best to incorporate climate change preparedness considerations.
7.	Communications and Outreach	Given the village level exposure to the effects of climate variability and change, the somewhat unpredictable nature of some climate-related events, and the potential to make decisions that increase vulnerability to various effects of climate change, it is critical to increase communications and outreach with the public about preparing for climate change. Communication and outreach efforts to inform local communities about	– Improve ways to ensure effective messaging and outreach to the public related to preparing for climate change.

Sr. No.	Actions	Relevance	Recommendations
		the likely effects of future climate conditions should include information on how individuals and marginal communities can reduce exposure to climate-related risks, and on how individuals can become involved in community-level efforts to prepare for climate change.	

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Appendices

Appendix-I(a)

Questionnaire for Field Survey

1.	Name of District				
2.	Name of Block				
3.	Name of Panchayat				
4.	Name of Village	Village Code:		Name:	
5.	Details of Information Provider (Preferably Panchayat Representative)	Name & Address: Contact No:			
6.	Average Land Holdings (in Ha.)	Total Land Holding (Ha.) Agricultural Activities (Ha.) Horticultural Activities (Ha.) Other Activities (Ha.)			
7.	District Head Quarter	Name	Distance		
8.	Average Crop Production	Crop Type (Rabi/Kharif)	Crop Name	Production (Q/Ha.)	
9.	Drought History & Impact	**Year**	**Crop Loss** 1. <50% 2. 50 - 75 % 3. > 75%	**Surface Water** 1. Adequate 2. Manageable 3. Poor	**Livestock Death** 1. > Normal 2. Normal 3. <Normal
10.	Schematic Enrolment	**Scheme**		**Enrolment (Yes/No)**	
		MGNREGA *Old Age Pension* *Public Distribution System* *Crop Insurance* *Agricultural Credit* *Irrigation Source* *Other (Specify)*			
11.	Local Climate/ Environment (Last 10 years)	**Temperature** *(Increase/ Decrease)*	**Rainfall** *(Increase/ Decrease)*	**Rainfall Shift** *In Time/Late/ Earlier*	
12.	Problems & Coping during Drought	**Problems** *Food Grain Shortage* *Seeds availability* *Scope of employment*	**Yes/No**	**Coping Strategy**	

		Portable Drinking Water *Water for livestock* *Water for irrigation* *Other (Specify)*		
13.	Government support during Drought	**Support**	**Yes/No**	**Benefit availed**
		Debt Relief *Free seeds* *Input subsidy* *Grain support through PDS* *Insurance Premium waiver* *Wage Employment Scope* *Emergency Feeding* *Special Financial Package* *Other (Specify)*		
14.	Farmer Produce Organization	**Available (Yes/No)**	**Name**	**No. of Members**
15.	Details of Association with Self Help Group/ CBOs Other Institutions/ Organization	**No. of Members**	**Type of Product/ Activity**	**Amount Lent (In Rs.)** / **Bank Linkage (Yes/No)**
16.	Infrastructure Facility	**Infrastructure Type**	**Nos.**	**Distance (Mtrs)**
		<u>Storage & Market</u> *Warehouse* *Cold Storage* *Market Yard (Mandi)* *Others (Specify)*		
		<u>Irrigation Infrastructure</u> *Hand Pump* *Natural Spring* *River/Canal (Kulh)* *Lake/Pond/Tank* *Dug Well* *Bore Well* *Lift Irrigation Scheme* *Flow Irrigation Scheme* *Others (Specify)*		
		<u>Drinking Water</u> *Drinking Water Supply Scheme* *Natural Spring*		

		Other (Specify) <u>Health Infrastructure</u> *Hospital* *Dispensary* *Primary Health Centre* *Community Health Centre* *Anganwadi Centre* *Animal Husbandry Hospital* *Others (Specify)* <u>Educational Institution</u> *University* *College* *School* *Technical Institute* *Others (Specify)* <u>Roads</u> *National Highway* *State Highway* *District Road* *Motorable Village Road* *Foot path* *Waterways* *Other (Specify)* <u>Transportation</u> *Railways* *Government Bus Service* *Private Bus Service* *Taxi Service* *Other (Specify)* <u>Sanitation</u> *Public/Community Toilet (Male)* *Public/Community Toilet (Female)* *Toilet in House* *Sewage Treatment Plant* *Biomedical Waste Treatment Plant* *Garbage Collection/ Disposal Plant* *Other (Specify)* <u>Electricity/Energy</u> *Power Supply* *Solar Light* *Other (Specify)* <u>Commutation</u> *Landline Telephone* *Mobile Phone* *Post Office* *Internet Cafes* *Others (Specify)* <u>Broadcasting Service</u>		

		TV *Radio* *Others (Specify)* <u>Financial Services</u> *Bank* *Agricultural Credit Societies* *ATMs* *Others (Specify)* <u>Industries</u> *Large Scale Industries* *Small Scale Industries* *Handicrafts* *Handlooms* *Other (Specify)* <u>Other Infrastructure</u> *Public Distribution Service (Shop)* *Field Office (Horticulture Deptt.)* *Field Office (Agriculture Deptt.)* *Field Office (Animal Husbandry Deptt.)* *Agriculture & Horticulture Service Shop* *Seed Shop* *Fertilizer Shop* *Others (Specify)*		

Discussions

Measures taken during drought to save crop?

Paddy:
Wheat:
Pulses:
Vegetables:
Fruits:
Others:

What are the impacts of climate change on crop health?

Sr. No	Disease	Impacts	Measures taken

Awareness on drought proofing measures (put)

Sr. No	**Drought proofing measures**	**Fully aware**	**Have heard but not fully**	**Not aware**
1	Change in cropping pattern			
2	Judicious use of ground water			
3	Water Conservation method			
4	Rain water harvesting			
5	MGNREGA/BRGF/Watershed projects			
6	Govt alert warning on drought			
7	Others (specify)			

What are the problems faced during drought situation?

a. Social:

b. Economic:

C: Livelihood:

What are the measures taken during drought situation (last time)

a. Govt……

b. Own…….

c. NGO/CBO/Others

Is there any migration situation aroused during drought in the village? If yes then discuss it elaborately. Yes

a. How many people migrated during last drought? Approximately
b.
c. Where they have migrated and for how many days?

Women participation in watershed Committee

Total No. of member in the watershed Committee

Total No. of women in the watershed Committee

Whether this watershed committee 1. Functional 2. De-Funct

What do you suggest to tackle the drought situation? (Suggestion of the participants)

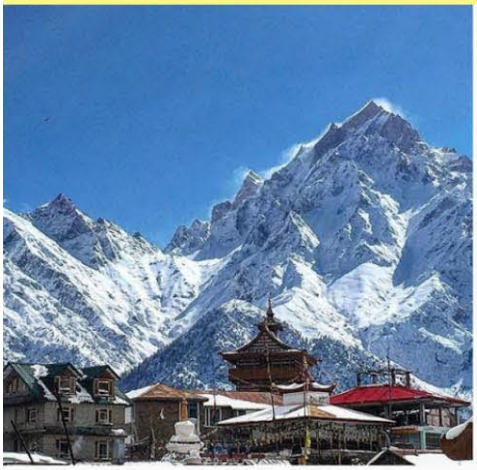
Certify that the above information is correct as per the best of my knowledge and experience.

Signature/Thumb Impression

Proforma to collect/update data

1	Sr. No.		
2	Block/Panchayat		
3	No. of households		
4	Total population		
5	Male		
6	Female		
7	Total S.C. Population		
8	Male S.C.		
9	Female S.C		
10	Total S.T. Population		
11	Male S.T.		
12	Female S.T		
13	Cultivated Area		
14	Total Cropped Area		
15	Horticulture Area		
16	Total Irrigated Area		
17	Total Agricultural Workers (Nos)		
18	Primary		
19	Middle		
20	High		
21	Sr. Sec.		
22	Colleges		
23	ITI Centre		
24	B.Ed. College		
25	Tailoring Centre		
26	BalWariCentres		
27	AganWariCentres		
28	Other Professional Centre		
29	Out of School Children (6-14 Years)		
30	No. of Schools Without Water & Toilet Facilities		
31	Total Literate in the village		
32	Hospital		
33	CHC		
34	PHC		
35	Dispensary		
36	Sub centre		
37	Private Clinic		
38	Hospital		
39	Dispensary		
40	Homeopathic Dispensary		
41	Unani Dispensary		
42	Childern age (0-5)		
43	Birth in Ref. Year		
44	Death in Ref. Year Age (0-1)		
45	Death in Ref. Year		
46	Veterinary Dispensary		
47	B.P.L Famlies		
48	B.P.L. S.C Famlies		
49	B.P.L. S.T Famlies		
50	Population under poverty alleviation Prog.		
51	Fair Price Shop		
52	HH' s Purchases Food Grain through PDS		
53	Houses Constructed for Houseless Families		
54	No. of Houses with Toilets		
55	Electricity Yes-1; No-2		
56	HHS with Tap water		
57	Water Supply Scheme Yes-1; No-2		
58	Motorable Yes-1; No-2		

Prepared by:
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Protect & Conserve

Natural Resources

for Future Generations...

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