



**GOVERNMENT OF HIMACHAL PRADESH
REVENUE DEPARTMENT
(DISASTER MANAGEMENT CELL)**

**MEMORANDUM
OF
DAMAGES DUE TO
HAILSTORM – 2021**

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MEMORANDUM REGARDING DAMAGES DUE TO HAILSTORM, 2021

State Profile

Physical Location:

Himachal Pradesh is predominantly a mountainous State located in North – West India. It shares an international border with China. The State has highly dissected mountain ranges interspersed with deep gorges and valleys. It is also characterized with diverse climate that varies from semi tropical in lower hills, to semi arctic in the cold deserts areas of Spiti and Kinnaur. Altitude ranges from 350 meters to 6975 meters above mean sea level. It is located **between Latitude 30° 22'.40" N to 33° 12'.20" N and Longitude 75° 45'.55" E to 79° 04'.20" E.**

Demography:

Population of Himachal Pradesh is 68.56 lakh persons as per the Census report for the year 2011. 89.01% of the total population inhabits 20,604 villages in the rural areas of the State. These villages are sparsely distributed across the State having population density as low as 1-2 persons per square kilometer in the remote and tribal area of Lahaul & Spiti, Hamirpur district has largest population density of 369 persons per square kilometer as against 123 persons per square kilometer for the whole State. Himachal Pradesh is one of the few states of the country where gender equality is an integral part of the social ethos as well as the overall development strategy. Female literacy is well above the national level and women employment is much higher than in most states of the country.

Table 1.1 Demographic Features Since 1901

Year	Population	Decennial growth rate	Female per 1000 males	Density per Sq. Km. (Persons)	Scheduled Castes (Percentage)	Scheduled Tribes (Percentage)
1901	1920294	-	884	34	-	-
1911	1896944	-1.22	889	34	-	-
1921	1928206	1.65	890	35	-	-
1931	2029113	5.23	897	36	-	-
1941	2263245	11.54	890	41	-	-

1951	2385981	5.42	912	43	22.69	0.26
1961	2812463	17.87	938	51	22.88	4.35
1971	2460434	23.04	958	61	22.24	4.09
1981	4280818	23.71	973	77	24.62	4.61
1991	5170877	20.79	976	93	25.34	4.22
2001	6077900	27.54	968	109	24.72	4.02
2011(P)	6864602	12.95	972	123	-	

Source: Census of India.

Table 1.2 Areas, Density and Decennial Growth Population in Different Districts

District	Area in Sq. Kms.	Total Population		Decennial growth (2001-2011)(P)	Density per Sq. Km. (2011(P) Census)
		2001 Census	2011 (P) Census		
1. Bilaspur	1167	340885	381956	12.08	327
2. Chamba	6528	460887	519080	12.58	80
3. Hamirpur	1118	412700	454768	10.08	406
4. Kangra	5739	1339030	1510075	12.56	263
5. Kinnaur	6401	78334	84121	7.61	13
6. Kullu	5503	381571	437903	14.65	79
7. L&S	13835	33224	31564	-5.10	2
8. Mandi	3950	901344	999777	10.89	253
9. Shimla	5131	722502	814010	12.58	159
10. Sirmour	2825	45893	529855	15.61	188
11. Solan	1936	500557	580320	15.21	298
12. Una	1540	448273	521173	16.24	338
Himachal Pradesh	55673	6077900	6864602	12.95%	123

Source: Census of India.

Administrative Units:

In order to make the functioning smooth, the State is divided into twelve districts which are grouped in three Revenue Divisions i.e. Shimla, Mandi and Kangra. There are 73 Sub Divisions, 109 Tehsil, 63 Sub-Tehsil, 79 Development Blocks and 3226 Panchayats. The State has very effective structure of PRI's comprising 12 Zila Parishads and 78 Panchayat Samitis. There are also 30 Municipal Councils and 23 Nagar Panchayats, besides 7 Cantonment Boards and 2 Municipal Corporation in the State.

Topography:

Topographically, the state can be divided into three zones:

- 1. The Shiwaliks or Outer Himalayas:** It covers the lower hills of Kangra, Hamirpur, Una and Bilaspur, lower parts of Mandi, Solan and Sirmour districts. Within this zone, altitude varies from 350 m to 1500 m.
- 2. Inner Himalayas or mid-mountains:** Altitude varies from 1500 m to 4500 m above mean sea level and includes areas such as the upper parts of Pachhad and Renuka in Sirmaur district, Chachiot and Karsog tehsils of Mandi district and upper parts of Churah tehsil of Chamba district.
- 3. Alpine zone or the greater Himalayas:** Has altitude above 4500 m above mean sea level and comprises areas of Kinnaur district, Pangi tehsil of Chamba district and area of Lahaul & Spiti district.

Geology & Geomorphology:

Himachal Pradesh with its complex geological structures presents a complicated topography with intricate mosaic of mountainous ranges, hills and valleys. Composed of recent Alluvium, Shiwalik hills are made up of rocks such as sandstone, shale and clay that came into existence during the Eocene, Miocene and Pliocene period.

The central part that extends from Chamba district in the north to Shimla district in the south is mainly represented by Jatog group of rocks which originated in middle Proterozoic period. In the north eastern portion unclassified Granites borders the central part in between Kullu, eastern Shimla, Lahaul Spiti and parts of Kinnaur district. The eastern greater Himalaya presents the Triassic formation which is found in Kaza tehsil of Lahaul Spiti district. The oldest rocks are Granites found at Jeori-Wangtu and Bandel near Lari in Kullu district. These granites date back to a stage of the crust at a time when India was located 8000 Km southwest of its present position.

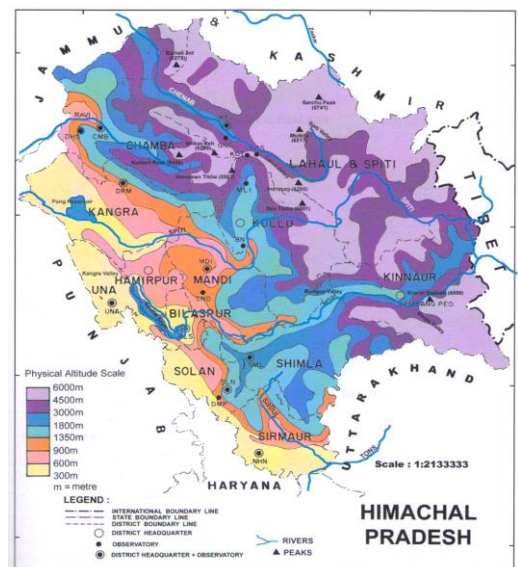


Figure 1.2 Geography of Himachal Pradesh

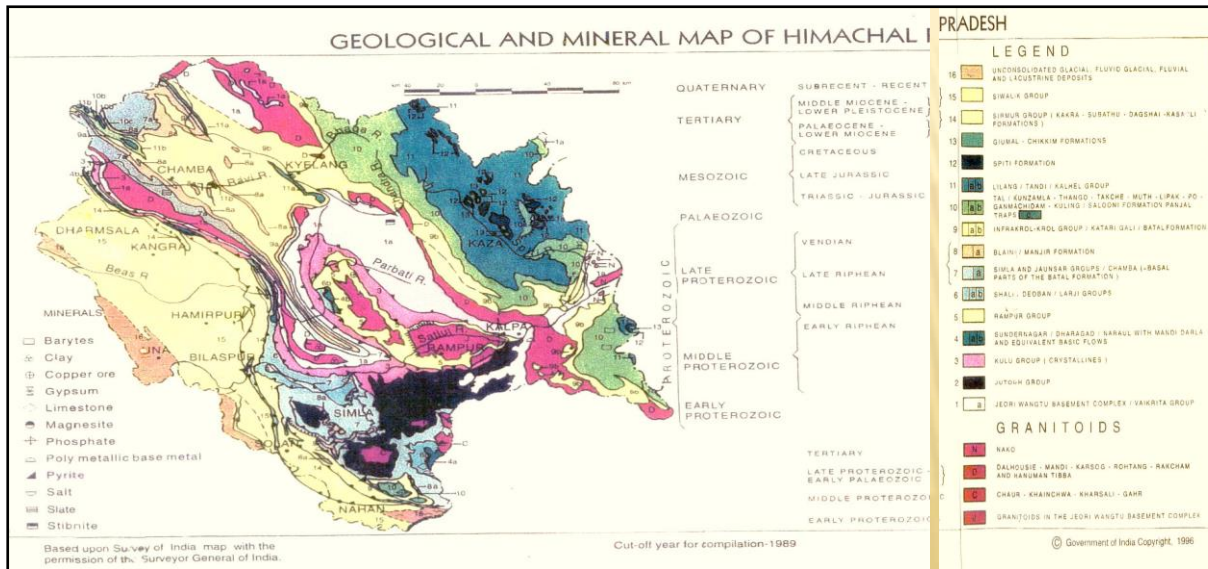


Figure 1.3 Geological and Mineral Map of Himachal Pradesh

Climate:

The climate varies across the state with the altitude. In the southern low tracks between an altitude of 400-900 it is hot sub humid type, between 900-1800m altitude warm & temperate, between 900-2400 m cool & temperate, cold alpine & glacial above 2400-4800 m altitude. Bilaspur, Kangra, Mandi, Sirmour, and Una districts experience sub tropical monsoon, mild and dry winter and hot summer. Shimla district has tropical upland type climate with mild and dry winter and short warm summer. Chamba district experiences, humid subtropical type climate having mild winter, long hot summer and moist all season. Kullu district experience mainly humid subtropical type of climate with mild winter moist all season, long hot summer and marine. During the period from January to February heavy snowfall in higher reaches create conditions for low temperature throughout the state making it unpleasant and series of western disturbances also affect the state.

Table 1.3 Climate Pattern of Himachal Pradesh

Climate Pattern	Districts
Sub-tropical Monsoon (Cwa type) Mild and dry winter, hot summer	Bilaspur, Kangra, Mandi, Sirmour, Una, Hamirpur, Solan, Chamba
Sub-tropical Monsoon (Cwb type) Mild and dry winter, moderate hot summer	Shimla, Parts of Chamba
Sub-tropical monsoon (Cfa type) Without dry winter with hot summer	Chamba, Major parts of Kullu, Mandi

Sub-tropical monsoon (Cfb type) Without dry winter with moderate hot summer	Minor parts of Kullu
Humid continental (Dwb type) Severe and dry winter, warm summer	Kinnaur
Humid continental (Dfb type) Severe winter moist all seasons, short warm summer	Lahaul & Spiti

Land use:

As per Land use statistics, Ministry of Agriculture (GoI), 2005, about 12.21 percent of the total reporting area of 4547000 ha of the state (out of 5567000 ha. of geographical area) is under cultivation. 24.06 percent under forest. Permanent pastures and other grasslands account for about 33.63 percent, 1.25 percent land under miscellaneous tree crops and groves, 2.73 percent is under the cultivable wasteland, fallow land other than current fallow 0.29 percent, current fallow 1.19 percent and net sown area is 12.21 percent.

Rivers and Catchments:

Five perennial rivers Satluj, Beas, Ravi, Chenab and Yamuna flow through the state. The utility of these rivers though restricted considerably by the rugged and undulating terrain of the State, nevertheless, these rivers possess immense potential for the generation of hydro-electricity. The following river catchment areas fall in the State. Figure 1.5 land use in Himachal Pradesh

Table 1.4 River Catchment Areas in Himachal Pradesh

Name of River System	Area of Catchment	Area in percentage
Sutlej	20,398	30.69%
Beas	13,663	24.50%
Chenab	7,850	14.20%
Yamuna	5,872	10.60%
Ravi	5,528	09.90%
Indus	1,450	02.60%
Markanda	360	00.60%
Ganga	290	00.50%
Ghaggar	262	00.50%
TOTAL	55,673	100%

Lakes/Reservoirs:

The state has both manmade and natural water bodies located in different parts of the state for specific purposes viz. irrigation, hydro-electricity, and flood control. Some of the important reservoirs of the state are Govind Sagar, which spreads into the Bilaspur and Una districts, Pong Dam in Kangra, and Pandoh in Mandi District. Chandertal, Renuka and Manimahesh are some the important natural lakes of the state.

Health:

The State has an extensive network of health care institutions. There are 86 hospitals, 2084 Sub- centres, 91 CHC's/RH, 576 PHC's, with available bed capacity of 12527. Similarly, there are 33 Ayurvedic hospitals, 1175 dispensaries/health centres with a bed capacity of 941 available in the state. Besides, there are 3 Ayurvedic Pharmacies and 1 Research Institute. Birth and death rate in the state is 22.1 per 1000 and 7.2 per 1000 respectively (statistical Year Book of H.P.-2017-18).

Roads and Bridges:

As per 207-18 data, the state has total road length of 37131 Kms in which motor able double lane is 2453 km, single lane is 32940 Km, Jeep able 369 Km and less than Jeep able 1396 Km and there are 1365 bridges. About 18156 villages are connected with roads.

Table 1.5 Population and distribution data

S. No	Name of the district	NO. of the villages	Population			Distribution of population		Sex Ratio	Population density	Literacy rate	Number of Households
			Male	Female	Total(4+5)	Urban population	Rural population				
1.	Bilaspur	1061	1,92,764	1,89,192	3,81,956	25,129	3,56,827	981	327	84.6	80,485
2.	Chamba	1591	261320	257767	5,19,080	36,108	4,82,972	986	80	72.2	1,02,460
3.	Hamirpur	1725	2,170,70	2,37,698	4,54,768	31,430	4,23,338	1095	407	88.2	1,05,519
4.	Kangra	3869	750591	759484	15,10075	86,281	14,23,794	1,012	263	85.7	3,38,887
5.	Kinnaur	660	46,249	37,872	84,121	-	84,121	819	13	80.0	19,976
6.	Kullu	326	225452	212451	4,37,903	41,391	3,96,512	942	80	79.4	94,807
7.	L & S	521	16588	14976	31,564	-	31,564	903	2	76.8	6,674
8.	Mandi	3338	498065	501712	9,99,777	62,637	9,37,140	1,007	253	81.5	2,19,145

9.	Shimla	3231	425039	388,971	8,14,010	2,01,351	6,12,659	915	159	83.6	1,84,362
10.	Sirmaur	976	276289	2,53,566	5,29,855	57,165	4,72,690	918	188	78.8	98,208
11.	Solan	2544	308754	271,566	5,80,320	1,02,147	4,78,173	880	300	83.7	1,22,425
12.	Una	848	263692	257481	5,21,173	44,913	4,76,260	976	338	86.5	1,10,332
Total	HP	20690	3481873	3382729	6864602	688552	6176050	972	123	82.8	1483280

Source: Deptt. of Economics and Stats.

Table 1.6 Profile of the state in respect of Agriculture, Road, Irrigation, Primary Health Centers, Primary School, Panchayat Ghar

S. No	Name of the district	Agriculture Sector				Road (in Kms)	No. of PHC	No. of PS	No. of Panchayat
		Cultivated Area (in ha)	Total No. of farmers	No of SMF**	No. of landless agriculture labourers				
1.	Bilaspur	31459	56097	50325	2923	1701	35	1379	151
2.	Chamba	43389	70012	65232	1655	3257	42	2824	283
3.	Hamirpur	40939	72926	63708	3291	1893	26	1200	229
4.	Kangra	127204	230416	206944	39534	5951	80	4133	748
5.	Kinnaur	9687	10507	8463	1101	1060	21	453	65
6.	Kullu	40028	67753	64452	5590	1907	17	1896	204
7.	Lahaul-Spiti	3461	4152	3015	339	1256	16	383	41
8.	Mandi	96073	149654	135546	6518	5667	63	3916	469
9.	Shimla	80581	109868	92694	9814	5405	86	3400	363
10.	Sirmaur	44646	49046	33993	5767	3062	36	2353	228
11.	Solan	40894	50145	35988	6309	2961	33	1913	211
12.	Una	40395	62807	51910	11330	1929	19	1389	234
Total	Himachal Pradesh	598756	933383	812270	94,171	36049	474	25239	3226

Source: Deptt. Of Economics and Statistic

Small and Marginal Farmers

Current Disaster

LOSS CAUSED DUE TO HAILSTORM.

Weather summery for the month of January 2021 (i.e. 01st January to 31st January)

- Rainfall occurred in Himachal Pradesh in the month of January-2021 was deficit. During this month, 37.6 mm precipitation was recorded in Himachal, which is (-58%) below than normal rainfall.
- All the twelve districts in HP received deficit rainfall in the month of January 2021
- There were 2 rainfall/snowfall spells in Himachal Pradesh. Rest of the days was dry during this month.

Weather summery for the month of February 2021 (i.e. 01st February to 28th February)

- Rainfall occurred in Himachal Pradesh in the month of Febraury-2021 was deficit. During this month, 20.8 mm precipitation was recorded in Himachal, which is (-80%) below than normal rainfall.
- All the twelve districts in HP received deficit rainfall in the month of February 2021
- There were 1 rainfall/snowfall spells in Himachal Pradesh. Rest of the days was dry during this month.

Weather summery for the month of March 2021 (i.e. 01st March to 31st March)

- Rainfall occurred in Himachal Pradesh in the month of March-2021 was deficit. During this month, 20.8 mm precipitation was recorded in Himachal, which is (-62%) below than normal rainfall.
- All the twelve districts in HP received deficit rainfall in the month of February 2021

- There were 5 rainfall/snowfall spells in Himachal Pradesh. Rest of the days was dry during this month.

Seasonal Precipitation

- **During the Pre Monsoon Season (i.e. from 1st Mar to 31st May 2021)** 105.5 mm precipitation occurred in Himachal Pradesh which is 11% less than from the normal precipitation. This precipitation comes in the normal range of precipitation i.e. between the range of -19% to +19%.
- Out of total 12 districts of the state of HP, 5 districts viz. Mandi (48%), Solan (41%), Shimla (35%), Sirmour (35%) and Kullu (30%), have received excess rainfall, 4 districts viz. Kangra (7%), Una (2%), Kinnaur (-9%) and Chamba (-12%) have received normal rainfall. And rest of the 3 districts viz. Lahul & Spiti (-28%), Bilaspur (-24%) and Hamirpur (-22%) have deficient rainfall during Pre-Monsoon.
- Out of these 17 spells during the whole season, 11 spells gave fairly widespread (many places-51% to 75% stations) to widespread (most places (>75% stations) precipitation.

Monthly precipitation during the Summer-season:

In the month of March-2021:

- ❖ *In the month of March-2021, 41.7 mm precipitation recorded in Himachal, which is 62% (large deficient precipitation) less than normal precipitation occurred in Himachal Pradesh. All the twelve districts in HP received either deficient (-20% to -59%) or large deficient (< - 59%) precipitation during this month. There were 04 spells of precipitation during March- 2021.*
- ❖ **On 08th Mar 2021:** Precipitation occurred at most places over the state. Significant **rainfall was at:** Rampur: 32.5mm, Saharan: 31.0mm, Jhanjheli: 28.0mm, Bijahi: 26.0mm, Gohar: 26.0mm, Kumarsain: 21.6mm, Shillaro: 21.1mm. **Snowfall occurred at:** Hansa: 5.0cm, Sumdo: 4.0cm. Kalpa: 2.0cm.
- ❖ **On 22nd Mar 2021:** Light to moderate precipitation occurred at most places over the state. Significant **Rainfall was at:** Manali: 30mm Tissa: 27.0mm and Gohar :23.0mm. And **snowfall was at:** Udaipur25.8cm, , Gondala:15cm , Keylong: 9.0cm Hansa: 5.0cm,
- ❖ **On 23rd March** -Precipitation occurred at most places

over the state.

Rainfall: Dalhousie(Chamba):42.0mm,Rampur(Shimla):25.5mm,Manali(Kullu):20.0mm, Shimla(Shimla):19.7mm. **Snowfall-** Gondala20.5cm,Hansa:7.6cm,Kalpa:5cm

❖ **On 24th March** Precipitation occurred at most places over the state.

Rainfall: Gohar(Mandi):25.0mm,Dalhousie,AWS (Chamba):17.0mm ,Saharan(Shimla):15.0mm.**Snowfall-** Keylong:10.0cm,Kalpa:6.4cm

In the month of Apr-2021

❖ During this month, 111.5 mm precipitation recorded in Himachal, which is 62% greater than normal precipitation. Among the twelve districts, two districts Chamba and Kullu in HP received Excessive rainfall and other ten districts received large excessive rainfall. There were 05 spells of precipitation during May month.

❖ **On 07th April**-Light to moderate rainfall with isolated heavy occurred at most places over the state. **Snowfall:** Gondla: 30.0 cm, Hansa: 25.4 cm,Pooh:17.7 cm,Kalpa:15.0 cm.

❖ **On 17th April**- Moderate Rainfall occurred over most places over the state.

❖ **Snowfall**-Keylong: 3.0cm and Hansa: 2.1cm (both in Lahul and Spiti),

❖ **Rainfall:** Bharmaur(Chamba):16.4mm, Dalhousie (Chamba):14.0mm, Keylong (LahulSpiti):10.0mm and Manali (Kullu):9.0mm,

❖ **On 18th April** -Moderate Precipitation occurred over most places over the state. **Snowfall-** Gondla:(Lahul and Spiti):15.4cm, **Rainfal:**Manali(Kullu):49.0mm,Seobagh(Kullu)45.8mm ,Dalhousie (Chamba):36.0mm, Jogindernagar(Mandi):30.0mm. Light Hail Occurred in Sangrath (Sirmaur district).

❖ Precipitation occurred at most places over the state. **Snowfall:** Keylong: 12.0 cm, Kalpa: 11.4.

In the month of May-2021

- ❖ In the month of May-2021. During this May month 63.8mm precipitation was recorded in Himachal, which is 04% less than normal precipitation. There were 08 spells of precipitation during May month.
- ❖ On 5th may Light to moderate rainfall occurred at many places over the state with Widespread thunder activity. **Rainfall:** Solan: 43.4 mm, Kothi: 35.4 mm, Dharamshala: 35.6 mm, Dalhousie
AWS: 24.0 mm, Manali: 22.0 mm, Baldwara: 22.0 mm, AMS Shimla: 20.9 mm, Jogindernagar:
20.0 mm, Kandaghat: 17.6 mm.
- ❖ **On 7th May** Light to Moderate rainfall occurred at many places over the state with Widespread Thunder Activity. **Rainfall:** Sarahan: 30.0 mm, Jogindernagar: 21.0 mm, Jatton Barrage: 18.8 mm, Paonta Sahib: 14.2 mm, Sujanpura Tira: 14.0 mm, Solan: 11.6 mm.
- ❖ **On 8th may** Light to moderate rainfall occurred at many places over the state with Widespread Thunder Activity. **Rainfall:** Kandaghat: 58.2 mm, Shillaro: 40.0 mm, Dharampur: 40.1 mm, Solan: 33.2 mm, Kasauli: 33.0 mm, Chamba AWS: 33.0 mm
- ❖ **On 13th May**-Light to Moderate rainfall occurred at most places over the state. Widespread Thunder Activity. Hailstorm at isolated places in Shimla and Chamba district. **Rainfall:** Dharamshala: 65.4 mm, Malan ARG: 57.0 mm, Mandi: 31.2 mm, Kumarsain: 26.8 mm, Rohru: 26.5 mm, Palampur: 24.2 mm, Kangra Aero: 20.7 mm, Narkanda AWS: 21.5 mm.
- ❖ **On 15th May** Light to Moderate rainfall occurred at many places over the state. **Rainfall:** Shillaro: 36.0 mm, Solan: 29.3 mm, Tander: 26.07 mm, Bijahi: 25.0 mm, Gohar: 24.0 mm, Banjar: 23.0 mm, Ghamroor: 22.4 mm, Sundernagar: 19.2 mm.
- ❖ **On 20th May** Light to moderate Precipitation occurred at scattered places over the state. **Snowfall:** Hansa (Lahual and Spiti): 10cm **Rainfall:** Kalpa (Kinnaur): 44.8mm, Rekong- Peo (Kinnaur): 43.0, Pooh (Kinnaur): 26.0mm, and Rohru (Shimla): 24.5mm
- ❖ **On 21st May** Light to moderate Rainfall occurred at scattered places over the state. **Rainfall:** Tissa (Chamba): 40.8mm, Chamba: 21.0mm, Kalpa (Kinnaur): 18.6mm, Rekong- Peo (Kinnaur): 18.5mm, and Dalhousie (Chamba): 17.0mm

Temperature

Maximum Temperature: observed in the district of **Una :42.7°C** on 27th May 2021

Minimum Temperature: observed in Keylong **-6.1°C** 24th April 2021

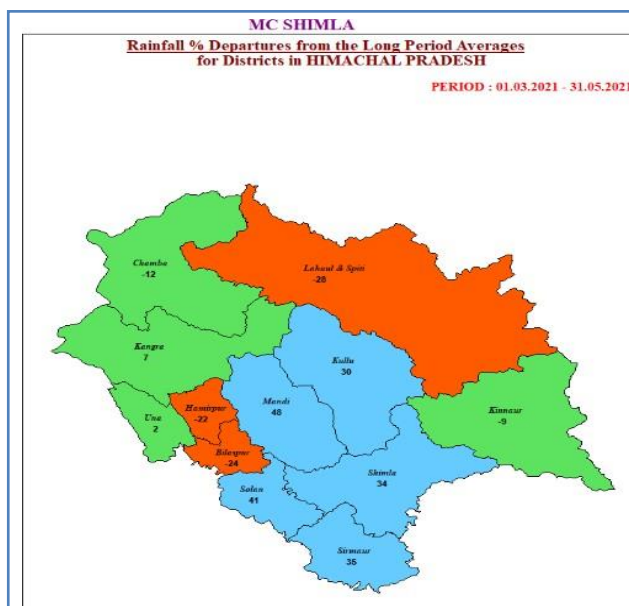
Table 1. Precipitation of Summer Season (March to May) for the years from 2004 to 2021																		
YEAR	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Actual R/F	90	136	144	220	101	131	157	168	134	130	249	313	230	207	143	134	273	217.1
%dep. of R/F	-63	-42	-42	-11	-59	-47	-31	-26	-41	-42	10	39	2	-15	-41	-45	21	-11
LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%) ■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA																		

Rainfall of Summer Season (Mar-Apr) -2021			
Districts	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from the normal r/f
BILASPUR	105.5	138.2	-24
CHAMBA	280.1	316.6	-12
HAMIRPUR	108.6	140.1	-22
KANGRA	187.1	174.7	7
KINNAUR	236.1	258.5	-9
KULLU	348.7	268.6	30
LAHAUL & SPITI	238	329.5	-28
MANDI	269.3	181.4	48
SHIMLA	274.5	205.1	34
SIRMAUR	143.3	105.8	35
SOLAN	189.1	133.9	41
UNA	95.8	93.7	2
Himachal Pradesh	217	243.4	-11
LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%) ■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) NO DATA			

Rainfall for the m/o May-2021			
Districts	Actual Rainfall(mm)	Normal Rainfall (mm)	% Departure from the normal r/f
BILASPUR	17.8	48.4	-63
CHAMBA	109.2	93.5	17
HAMIRPUR	34.6	49.7	-30
KANGRA	77.4	53.1	46
KINNAUR	59.1	62.3	-5
KULLU	73.8	69.1	7
LAHAUL & SPITI	33.5	74.9	-55
MANDI	107.5	65.3	65
SHIMLA	115.1	71.7	60
SIRMAUR	91.3	36.8	148
SOLAN	107	49.6	116
UNA	28.1	31.5	-11
Himachal Pradesh	63.8	66.8	-4

LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) NO DATA

LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) NO DATA



In Summer Season, State of Himachal Pradesh has faced Hailstorm Hazard:

Hail Storm and Unseasonal Snowfall:

Hailstorm in Himachal Pradesh and adjoining regions has battered different vegetables and fruit crops, impeding the income prospects of several farmers.

Farmers have asked the state government to give compensation as this year the erratic weather has already jeopardized several crops. Kisan Sabha Samiti's member Satyawan Pundir has asked the state government to amend the amount of compensation as the relief funds given by the government are "very less" & do not meet the need of cultivators.

He added that "Hailstorm has spoiled our vegetables and the amount which the state government gives is not even sufficient to buy agricultural tools. The government must also provide seeds to the farmers as we will have to re-sow some crops, which takes at least fifteen days".

It must be noted that farming is the main source of livelihood of the people of Himachal Pradesh.

Unseasoned snowfall in upper regions of the state has damaged apples and stone fruits, resulting in huge losses to the orchardists. Untimely snowfall in major apple belts of Shimla, Kinnaur, Chamba and Kullu districts has ravaged crops worth crores.

Due to heavy snowfall many trees were uprooted and anti-hail nets were damaged.

This untimely snowfall has badly affected the flowering process of the fruit crops. To make matters worse, hailstorm also occurred in many parts of the apple growing areas in Shimla district, further damaging the crops.

Indian Farmers Union Himachal Pradesh has claimed that the snowfall and hailstorm has caused more than 80 percent damage to apples and stone fruits. The Union has demanded the central and state government to provide a relief package of Rs 1,000 crores to the orchardists as soon as possible.

Extent of damages:

The damages are detailed here under:

1. Damage to Horticulture Crops:

Horticulture is an important sector of economic development in the state, which is contributing around ₹ 6518.18 crore towards state economy. It has a capacity to generate more income and employment per unit area. Fruit crops occupy about 2.33 lakh Ha area in the state (2019-20). Apple, Peach, Plum, Mango and citrus are the major fruit crops grown in the state and constitute about 83% of total fruit production. Apple is the dominating fruit crop of the state occupying about 48.93% of the total area under fruits & about 84.60% of the total production and the state earned its name as **“Apple State of India”** is marching forward as **“Fruit bowl of India”**. About 6 lac families are directly or indirectly involved in the Horticulture primarily fruit production & its allied activities viz. Bee Keeping, Mushroom production, Floriculture and Fruit processing. During the past couple of years the state is witnessing natural fury/ calamities at intermittent intervals particularly losses being inflicted during the April and May resulting thereby the fluctuating production and productivity of fruit crops. Major losses generally inflicted during this period are losses in the form of mortality of young nursery plants due to drought. Major losses to fruit crops are experienced during April and May as the fruit crops are at developmental stage, hailing followed by unseasonal snowfall reduce the quantity as well as quality of the fruits, break the branches of trees

During the month of April and May 2021 hail storm followed by snowfall have damaged the fruit crops in all districts in Himachal Pradesh. In the month of April firstly fruit plants were affected

due to drought like conditions and later affected by the hail storms. The actual losses to fruit crops during this period were to the tune of ₹ 138.79 crores. (Details at Annexure-A)

(Rs. 138.79 Crore)

2. Damage to Agriculture Crops:

Himachal Pradesh is a relatively small state in area and population and is geographically different from most Indian states in the plains. The State lies between 30°22'40" and 33°12' 20" north latitude and 75°45' 55" and 79°04'20" east longitude. Himachal Pradesh has relatively abundant water resources from major five river systems, mostly originating from glaciers. The five major river basins cover around 90% of the geographical area. The surface water resources of these river systems are perennial, originating from glaciers, and the flow is further augmented by run-off from the downstream catchments. Most glaciers are small in size with length of 2-25 km and accumulation zone of 2-4 sq km. Due to the adverse effect of global warming phenomenon, constant recession phenomenon is recently hastening in these glaciers.

Climate and Agro-ecological Zones

Climatically, Himachal Pradesh is different from most plain states in India. In the State, three seasons viz. Winter season (October to February), Summer season (March to June) and Monsoon season (July to September) are there. However, due to wide range in altitude, the climate of the State varies from sub-humid tropical (Elevation 350-1000 m) in the southern low tracts, warm and temperate (Elevation 1001-1,500 m), cool and temperate (Elevation 1,501-2,500 m), and cold alpine and glacial (Elevation 2,501- 6,975 m) in the northern and eastern mountain ranges.

During April, 2021, the state witnessed an unseasonal Hailstorm due to which further caused damage to the standing crops. Wheat and vegetable crops were badly affected. As per assessment, an area of 21103.11 Hectares was damaged and a total loss amounting to **Rs. 72.80 Crore** were assessed. (Details at Annexure-B)

(Rs. 72.80 Crore)

Cumulative Losses – Rs. 211.59 Crore

Sr. No.	Sectors	Losses(Rs In Crore)
1.	Horticulture	138.79
2.	Agriculture	72.80
Total		211.59

In view of large scale damages and losses, the allocation of Fund under SDRF for the year 2021-22 is insufficient to meet restoration of damages and losses. For current financial year, allocation of Rs. 454.00 crores has been made to State under SDRF, out of which 50% funds need for Covid-19 pandemic. Besides, 20% and 10% funds are also earmarked for Mitigation Fund and Capacity Building respectively. Actual funds available for relief and restoration works remains 20% which are highly insufficient keeping in view the extent of damages and losses sustained during Summer Season-2021.

In view of the above, additional funds are needed out of NDRF to carryout necessary relief and restoration work of the damaged infrastructure in the hilly State.

Preparatory measures taken to prevent/reduce losses from disasters during this period:

- Hon'ble Chief Minister, Chief Secretary, Additional Chief Secretary (Rev-DM) and Special Secretary (Rev-DM) monitored the drought like situation & Hailstorm situation on daily basis.
- The State government was well prepared for Drought like situation, and a videoconference with all the DCs was held on 17th of April, 2021 under the chairmanship of Additional Chief Secretary (Revenue).
- The State has released the SDRF funds to mitigate the disasters.
- The DEOCs were monitoring and reporting incidents/losses and damages regularly and the State EOC generated cumulative loss reports on daily basis.
- Control Rooms at SEOC/DEOCs are functioning round the clock.
- Weather forecast & early warning was regularly disseminated to all stakeholders by different means.
- Do's and Don'ts were broadcasted through AIR, TV, Print and Other electronic media about winter preparedness measures.

Summary of the total requirement of funds under NDRF:

Sr. No.	Items/Sectors	Actual Loss (Rs. In Crore)	As Per MHA GoI Norms.
Hail Storm			
	Agriculture + Horticulture		
(a)	Horticulture crop loss	138.79	117.33
(b)	Agriculture crop loss	72.80	11.18
(c)	Loss of Horticulture land	40829.85 Hec.	8691.19 Hec.
(d)	Loss of Agriculture land	21103.11 Hec.	13733.50 Hec.
	Grand Total	211.59	128.51

No. 29-30/2021-Udyan-IV
Directorate of Horticulture
Himachal Pradesh, Shimla-2

Annexure - A

From

Director of Horticulture,
Himachal Pradesh

To

The Special Secretary (Rev-DM) to the
Government of Himachal Pradesh.

12 8 SEP 2021

Dated Shimla-171002, the

September, 2021

Subject:-

**Regarding development of Memorandum of losses due to
different hazard happened in Monsson 2021.**

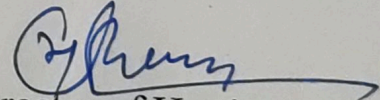
Sir,

This is in continuation to letter of even No. dated 25.09.2021
on the subject cited above.

In this context, the requisite information pertaining to
Horticulture Department is being enclosed for further necessary action please.

Encls: As above

Yours faithfully,



Director of Horticulture,
Himachal Pradesh.

Ph.No. 0177-2842390

Email-horticul-hp@nic.in

Assessment of Horticulture Cropped Area Affected due to Hail storm

Name of calamity : Hail storm

Period of Occurrence: April 2021 to till date

Name of District	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%
		No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)	No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bilaspur	Fruit crops	554.00	662.00	265.00	1,481.00	204.60	336.90	158.30	699.80	-	-	-	-	-	-	143.70	30.53	81.89	19.12	49.645	285.90	413.90
Chamba	Fruit crops	44,138.00	1,822.00	13.00	45,973.00	9,341.85	740.67	18.15	10,100.67	-	-	-	-	-	-	21,978.90	390.23	6,322.67	232.20	622.43	6,078.85	4,021.82
Hamirpur	Fruit crops	688.00	423.00	308.00	1,419.00	135.38	103.01	102.56	340.95	-	-	-	-	660.00	0.83	261.08	38.72	3.84	0.69	40.24	340.95	-
Kangra	Fruit crops	1,462.00	508.00	85.00	2,055.00	462.30	381.93	125.40	969.63	9.00	514.00	3.26	-	-	-	58.80	12.98	588.18	87.54	103.78	922.33	47.30
Kinnaur	Fruit crops	1,267.00	123.00	30.00	1,420.00	42.83	4.72	1.39	48.94	-	-	-	2,499.00	10,609.00	229.23	-	-	-	-	229.23	48.88	0.06
Kullu	Fruit crops	3,779.00	132.00	-	3,911.00	971.62	80.70	-	1,052.32	-	-	-	-	-	-	1,085.00	261.90	293.55	45.67	307.57	1,052.32	-
Lahaul Spiti	Fruit crops	39.00	17.00	1.00	57.00	7.00	4.00	2.00	13.00	-	-	-	15.00	5.00	0.825	7.00	1.50	5.00	1.00	4.00	10.00	3.00
Mandi	Fruit crops	3,008.00	205.00	1,245.00	4,458.00	1,057.00	107.00	553.00	1,717.00	-	-	-	-	-	-	792.00	158.40	-	-	158.40	1,717.00	-
Shimla	Fruit crops	23,233.00	7,029.00	766.00	31,028.00	9,566.60	6,126.01	1,230.12	16,922.73	9,653.04	1,60,982.00	3,911.63	2,948.00	7,314.00	227.26	13,209.67	3,714.80	25,929.35	3,849.47	11,703.16	14,198.51	2,724.22
Sirmour	Fruit crops	10,000.00	5,385.00	1,680.00	17,065.00	3,994.00	2,840.00	1,254.00	8,088.00	-	-	5.65	1,250.00	7,156.00	8.11	4,000.00	340.00	858.00	40.00	393.76	6,900.00	1,188.00
Solan	Fruit crops	759.00	604.00	326.00	1,689.00	134.98	139.29	113.54	387.81	-	-	-	-	-	-	301.50	110.34	-	-	110.34	94.92	292.89
Una	Fruit crops	2,068.00	442.00	43.00	2,553.00	330.00	131.50	27.50	489.00	-	-	-	-	-	-	1,794.20	113.66	-	-	156.43	489.00	-
	G.Total	90,995.00	17,352.00	4,762.00	1,13,109.00	26,248.16	10,995.73	3,585.96	40,829.85	9,662.04	1,61,496.00	3,920.54	6,712.00	25,744.00	466.25	43,631.85	5,173.05	34,082.48	4,275.69	13,878.98	32,138.66	8,691.19

Rs 138.79

Period of Occurrence: April till date

Name of District	Name of Block	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%
			No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)	No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)			
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bilaspur	Sadar	Fruit crops	197.00	267.00	73.00	537.00	78.80	106.80	29.20	214.80	-	-	-	-	-	-	52.63	13.87	45.11	11.89	25.76	6.50	208.30
	Jhandutta	Fruit crops	149.00	188.00	70.00	407.00	52.10	101.80	59.90	213.80	-	-	-	-	-	-	36.90	6.335	11.50	1.93	8.265	213.80	-
	Ghumarwin	Fruit crops	159.00	135.00	79.00	373.00	54.10	99.50	52.00	205.60	-	-	-	-	-	-	38.10	6.48	11.50	2.01	8.49	-	205.60
	Swarghat	Fruit crops	49.00	72.00	43.00	164.00	19.60	28.80	17.20	65.60	-	-	-	-	-	-	16.07	3.84	13.78	3.29	7.13	65.60	-
G.Total			554.00	662.00	265.00	1,481.00	204.60	336.90	158.30	699.80	-	-	-	-	-	-	143.70	30.53	81.89	19.12	49.645	285.90	413.90

Period of Occurrence: April, 2021 till date

Name of District	Name of Block	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%
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1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Chamba	Chamba	Fruit crops	1538	152	0	1690	896	20	0	916	0	0	0	0	0	0	2745.6	34.52	523.6	18.52	53.04	619.66	296.34
	Mehla		1768	206	0	1974	963	22.25	0	985.25	0	0	0	0	0	0	2847.6	36.23	658.9	20.96	57.19	677.29	307.96
	Tissa		5327	396	0	5723	1862.85	56	7.14	1925.99	0	0	0	0	0	0	4220.9	78.52	1287.87	52	130.52	1610.73	315.26
	Salooni		3763	358	13	4134	1678	44	3.154	1725.154	0	0	0	0	0	0	3587.9	72.55	890.32	49.32	121.87	838.034	887.12
	Bhatiyat		568	0	0	568	52	0	0	52	0	0	0	0	0	0	10.8	2.16	0	0	2.16	52	0
	Bharmour		21349	456	0	21805	2352	560	4.86	2916.86	0	0	0	0	0	0	4968.6	92.23	1965.47	59.35	151.58	1727.08	1189.78
	Pangi		9825	254	0	10079	1538	38.42	3	1579.42	0	0	0	0	0	0	3597.5	74.022	996.51	32.048	106.07	554.06	1025.36
Total			44138	1822	13	45973	9341.85	740.67	18.15	10100.674	0	0	0	0	0	0	21978.90	390.232	6322.67	232.20	622.43	6078.854	4021.82

Period of Occurrence: April, 2021 till date

Name of District	Name of Block	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%	
			No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)	No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)				
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Hamirpur	Sujanpur	Fruit crops	168.00	98.00	74.00	340.00	43.30	43.20	30.35	116.85	-	-	-	-	-	-	73.18	11.45	3.84	0.69	12.14	116.85	-	
	Bhijiri	Fruit crops	115.00	63.00	54.00	232.00	18.46	14.06	29.11	61.63	-	-	-	-	-	-	21.33	3.39	-	-	3.39	61.63	-	
	Nadaun	Fruit crops	57.00	21.00	66.00	144.00	20.67	9.58	12.00	42.25	-	-	-	-	-	-	31.34	3.87	-	-	3.87	42.25	-	
	Bhoranj	Fruit crops	102.00	68.00	21.00	191.00	13.79	10.23	5.72	29.74	-	-	-	-	-	-	32.16	5.66	-	-	5.66	29.74	-	
	Hamirpur	Fruit crops	92.00	62.00	30.00	184.00	16.64	12.26	9.50	38.40	-	-	-	-	-	660.00	0.83	24.25	4.33	-	-	5.16	38.40	-
	Bamsan	Fruit crops	154.00	111.00	63.00	328.00	22.52	13.68	15.88	52.08	-	-	-	-	-	-	78.82	10.02	-	-	10.02	52.08	-	
		G.Total		688	423	308	1,419	135.38	103.01	102.56	340.95	-	-	-	-	660	0.83	261.08	38.72	3.84	0.69	40.24	340.95	-

Period of Occurrence: April, 2021 till date

Name of District	Name of Block	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%	
			No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)	No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)				
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Kangra	N. Surian	Fruit crops	85.00	45.00	8.00	138.00	41.20	34.04	11.18	86.42	1.00	46.00	0.29				5.24	1.14	52.33	7.80	9.23	82.20	4.22	
	Indora.	Fruit crops	56.00	30.00	5.00	91.00	27.09	22.38	7.35	56.82	-	30.00	0.19	-	-	-	3.45	0.75	34.41	5.13	6.07	54.05	2.77	
	Nurpur	Fruit crops	188.00	115.00	18.00	321.00	101.55	85.87	26.62	214.04		109.00	0.75				5.95	2.95	122.67	20.22	23.92	203.96	10.08	
	Fatehpur	Fruit crops	82.00	44.00	7.00	133.00	39.68	32.78	10.76	83.22	1.00	44.00	0.28				5.05	1.10	50.40	7.51	8.89	79.16	4.06	
	Pragrpur	Fruit crops	97.00	52.00	9.00	158.00	47.09	38.91	12.77	98.77	1.00	52.00	0.33				5.99	1.30	59.81	8.92	10.55	93.95	4.82	
	Dehra	Fruit crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bhawarna	Fruit crops	12.00	5.00	-	17.00	5.36	4.43	1.45	11.24	-	6.00	0.04	-	-	-	0.68	0.15	6.80	1.01	1.30	10.69	0.55	
	Panchrukhi	Fruit crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lambagaon	Fruit crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bajjnath.	Fruit crops	89.00	33.00	7.00	129.00	33.62	25.80	10.05	69.47	3.00	42.00	0.20	-	-	-	11.24	0.99	50.04	5.38	6.57	65.73	3.74	
	Kangra	Fruit crops	26.00	14.00	2.00	42.00	12.80	10.57	3.47	26.84	-	14.00	0.09	-	-	-	1.63	0.35	16.25	2.42	2.86	25.53	1.31	
	N. Bagwan.	Fruit crops	316.00	170.00	29.00	515.00	153.91	127.15	41.75	322.81	3.00	171.00	1.09	-	-	-	19.57	4.25	195.47	29.15	34.49	307.06	15.75	
	Rait.	Fruit crops	411.00	220.00	37.00	668.00	199.98	165.21	54.24	419.43	3.00	222.00	1.41	-	-	-	25.43	5.52	253.98	37.87	44.80	398.97	20.46	
	Sulah	Fruit crops	23.00	13.00	2.00	38.00	11.16	9.22	3.03	23.41	-	12.00	0.08	-	-	-	1.42	0.31	14.17	2.11	2.50	22.27	1.14	
Dharamshala	Fruit crops	77.00	40.00	7.00	124.00	37.23	30.76	10.10	78.09	1.00	41.00	0.26	-	-	-	4.73	1.03	47.28	7.05	8.34	74.28	3.81		
G.Total			1,462.00	508.00	85.00	2,055.00	462.30	381.93	125.40	969.63	9.00	514.00	3.26	-	-	-	58.80	12.98	588.18	87.54	103.78	922.33	47.30	

Period of Occurrence: April, 2021 till date

Name of District	Name of Block	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%
			No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)	No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)			
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Kullu	Kullu	Fruit crops	1,974.00	77.00	-	2,051.00	510.00	45.00	-	555.00	-	-	-	-	-	-	651.00	148.50	142.40	18.64	167.14	555.00	-
	Ani	Fruit crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Banjar	Fruit crops	588.00	10.00	-	598.00	133.00	7.00	-	140.00	-	-	-	-	-	-	162.00	43.80	7.00	0.70	44.50	140.00	-
	Nirmand	Fruit crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Naggar	Fruit crops	1,217.00	45.00	-	1,262.00	328.62	28.70	-	357.32	-	-	-	-	-	-	272.00	69.60	144.15	26.33	95.93	357.32	-
	G.Total		3,779.00	132.00	-	3,911.00	971.62	80.70	-	1,052.32	-	-	-	-	-	-	1,085.00	261.90	293.55	45.67	307.57	1,052.32	-

Rs in Crore

144.62

Period of Occurrence April, 2021 till date

Name of District	Name of Block	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%
			No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)	No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)			
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Kinnaur	Pooh	Fruit crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kalpa	Fruit crops	1,149	116	27	1,292	39.82	4.53	1.29	45.64	-	-	-	2,190	10,005	205.84	-	-	-	-	205.84	45.64	-
	Nicchar	Fruit crops	118	7	3	128	3.01	0.19	0.10	3.30	-	-	-	309	604	23.39	-	-	-	-	23.39	3.24	0.06
	G.Total			1,267	123	30	1,420	42.83	4.72	1.39	48.94	-	-	-	2,499	10,609	229.23	-	-	-	-	229.23	48.88

Period of Occurrence: April, 2021 till date

Name of District	Name of Block	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%
			No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)	No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)			
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Lahaul & Spiti	Lahaul	Fruit crops	39	17	1	57	7	4	2	13	0	0	0	15	5	0.825	7	1.5	5	1	4	10	3
	Spiti	Fruit crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	G.Total			39	17	1	57	7.00	4.00	2.00	13.00	-	-	-	15	5	0.825	7	1.5	5	1	4.00	10

Period of Occurrence: April, 2021 till date

Name of District	Name of Block	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%
			No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)	No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)			
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mandi	Chauntra.	Fruit crops	174.00	5.00	84.00	263.00	41.00	2.00	29.00	72.00	-	-	-	-	-	-	26.00	5.20	-	-	5.20	72.00	-
	Balh.	Fruit crops	208.00	19.00	116.00	343.00	71.00	8.00	49.00	128.00	-	-	-	-	-	-	49.00	9.80	-	-	9.80	128.00	-
	Karsog.	Fruit crops	532.00	28.00	231.00	791.00	217.00	20.00	99.00	336.00	-	-	-	-	-	-	170.00	34.00	-	-	34.00	336.00	-
	Dharampur	Fruit crops	305.00	30.00	74.00	409.00	108.00	16.00	34.00	158.00	-	-	-	-	-	-	60.00	12.00	-	-	12.00	158.00	-
	Drang.	Fruit crops	112.00	5.00	52.00	169.00	29.00	3.00	25.00	57.00	-	-	-	-	-	-	29.00	5.80	-	-	5.80	57.00	-
	Gopalpur.	Fruit crops	178.00	24.00	64.00	266.00	56.00	12.00	32.00	100.00	-	-	-	-	-	-	41.00	8.20	-	-	8.20	100.00	-
	Sundernagar	Fruit crops	483.00	29.00	210.00	722.00	194.00	14.00	88.00	296.00	-	-	-	-	-	-	124.00	24.80	-	-	24.80	296.00	-
	Mandi Sadar	Fruit crops	168.00	8.00	112.00	288.00	63.00	3.00	43.00	109.00	-	-	-	-	-	-	38.00	7.60	-	-	7.60	109.00	-
	Gohar.	Fruit crops	418.00	30.00	154.00	602.00	135.00	16.00	86.00	237.00	-	-	-	-	-	-	129.00	25.80	-	-	25.80	237.00	-
	Seraj.	Fruit crops	430.00	27.00	148.00	605.00	143.00	13.00	68.00	224.00	-	-	-	-	-	-	126.00	25.20	-	-	25.20	224.00	-
Bali Chowki	Fruit crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G.Total			3,008.00	205.00	1,245.00	4,458.00	1,057.00	107.00	553.00	1,717.00	-	-	-	-	-	-	792.00	158.40	-	-	158.40	1,717.00	-

Period of Occurrence: April, 2021 till date

Name of District	Name of Block	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%
			No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)	No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)			
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Shimla	Mashobra	Fruit crops	85.00	140.00	24.00	249.00	17.00	17.80	5.20	40.00	-	-	-	-	-	-	8.00	11.50	16.00	5.03	16.53	21.60	18.40
	Basantpur	Fruit crops	225.00	47.00	-	272.00	60.00	8.50	-	68.50	-	-	-	-	-	-	26.00	8.50	76.00	25.00	33.50	68.50	-
	Chopal	Fruit crops	3246	1200	46	4,492.00	1640.5	1370.2	185	3,195.70	0	0	0	1500	500	62.00	1440.54	367.64	1174.45	188.43	618.07	3145.7	50
	Chhohara	Fruit crops	562	136	9	707.00	221	90.5	18	329.50	2737.52	45670	1045.35	0	0	0	1170.68	286.67	0	0	1332.02	329.5	0
	Rohru	Fruit crops	1547	275	25	1,847.00	606	187	43	836.00	6915.52	115312	2866.28	0	0	0	2866.28	725.57	0	0	3591.85	836	0
	Jubal Kotkhai	Fruit crops	4,828	2,060.00	327	7,215	1,931	2,060	654	4,645	-	-	-	230.00	4,650.00	69.64	1,293.00	323.25	19,090.50	2,772.65	3165.54	3,122	1,523
	Theog	Fruit crops	2,810	800.00	75.00	3,685.00	1,160.82	830.00	150.00	2,141	-	-	-	-	-	-	976.80	198.00	1,601.00	348.08	546.08	2,037	104.00
	Rampur	Fruit crops	1,827	364	4	2,195.00	755.8	369	9	1,133.80	0	0	0	0	0	0	1596	399	0	0	399.00	998.8	135
	Nankhari	Fruit crops	4,381	730.00	69.00	5,180.00	1,920.08	515.21	80.49	2,515.78	-	-	-	533.00	984.00	40.86	1,593.17	399.37	2,137.40	266.38	706.61	2,038.21	477.57
	Narkanda	Fruit crops	3,722	1,277.00	187.00	5,186.00	1,254.20	677.80	85.25	2,017.25	-	-	-	685.00	1,180.00	54.76	2,239.20	995.30	1,834.00	243.90	1293.96	1,601.00	416.25
	Kupvi	Fruit crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tutu	Fruit crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G.Total			23,233.00	7,029.00	766.00	31,028.00	9,566.60	6,126.01	1,229.94	16,922.55	9,653.04	1,60,982	3,911.63	2,948.00	7,314.00	227.26	13,209.67	3,714.80	25,929.35	3,849.47	11,703.16	14,198.51	2,724.22

Period of Occurrence: April, 2021 till date

Name of District	Name of Block	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%
			No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)	No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)			
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sirmour	Rajgarh	Fruit Crops	3500	2000	500	6000	1400	1100	247	2747	2000	1500	1.75	200	1500	1.5	1000	90	200	9	102.25	2500	247
	Pachhad	Fruit Crops	1500	1000	180	2680	250	200	71	521	1000	500	0.75	200	1400	1.4	500	50	100	5	57.15	400	121
	Sangrah	Fruit Crops	2000	900	300	3200	1500	1000	435	2935	1500	1000	1.25	200	1500	1.7	700	60	200	10	72.95	2500	435
	Shillai	Fruit Crops	1000	600	200	1800	300	200	163	663	1000	500	0.75	300	900	1.2	600	40	100	5	46.95	500	163
	Nahan	Fruit Crops	1000	285	200	1485	294	190	160	644	500	300	0.4	200	1000	1.2	500	40	200	9	50.6	500	144
	Paonta Sahib	Fruit Crops	1000	600	300	1900	250	150	178	578	700	800	0.75	150	856	1.11	700	60	58	2	63.86	500	78
Total			10000	5385	1680	17065	3994	2840	1254	8088	0	0	5.65	1250	7156	8.11	4000	340	858	40	393.76	6900	1188

Period of Occurrence: April, 2021 till date

Name of District	Name of Block	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where loss is <33%	Total area affected where loss is >33%
			No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)	No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)			
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Solan	Solan	Fruit crops	50.00	22.00	6.00	78.00	11.00	6.00	3.00	20.00	-	-	-	-	-	-	13.00	10.80	-	-	10.80	20.00	-
	Dharampur	Fruit crops	49.00	61.00	73.00	183.00	5.98	6.29	5.04	17.31	-	-	-	-	-	-	84.00	11.04	-	-	11.04	7.72	9.59
	Nalagarh	Fruit crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kandaghat	Fruit crops	435.00	337.00	106.00	878.00	89.00	86.00	49.00	224.00	-	-	-	-	-	-	184.00	77.00	-	-	77.00	67.20	156.80
	Kunihar	Fruit crops	225.00	184.00	141.00	550.00	29.00	41.00	56.50	126.50	-	-	-	-	-	-	20.50	11.50	-	-	11.50	-	126.50
	G.Total		759.00	604.00	326.00	1,689.00	134.98	139.29	113.54	387.81	-	-	-	-	-	-	301.50	110.34	-	-	110.34	94.92	292.89

Period of Occurrence: April, 2021 till date

Name of District	Name of Block	Name of Horticulture crop affected	Category wise number of farmers affected				Category wise area affected (in hect.)				Loss to Nursery plants			Loss to fruit Trees			Expected loss to fruit crop				Total Value (in lakh) (13+16+18+20)	Total area affected where crop loss is <33%	Total area affected where crop loss is >33%
			No. of marginal farmers affected	No of small farmers affected	No. of other farmers affected	Total nos of farmers affected	Marginal farmers	Small farmers	Other farmers	Total area affected	No. of plants completely destroyed	No. of plants partially damaged	Value (in Lakh Rs.)	No. of trees completely destroyed	No. of trees partially damaged	Value (in Lakh Rs.)	Quantitative loss (MT)	Value (in Lakh)	Qualitative loss (MT)	Value (in lakh)			
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
UNA	Una	Fruit crops	403.00	69.00	7.00	479.00	55.00	23.00	4.72	82.72	-	-	-	-	-	-	305.41	19.15	-	-	67.00	82.72	-
	Amb	Fruit crops	416.00	108.00	10.00	534.00	82.50	29.50	6.20	118.20	-	-	-	-	-	-	444.39	29.17	-	-	19.15	118.20	-
	Bangana	Fruit crops	456.00	114.00	8.00	578.00	76.50	30.50	5.40	112.40	-	-	-	-	-	-	409.77	26.16	-	-	29.17	112.40	-
	Haroli	Fruit crops	348.00	55.00	7.00	410.00	42.50	20.50	4.12	67.12	-	-	-	-	-	-	243.43	14.95	-	-	26.16	67.12	-
	Gagret	Fruit crops	445.00	96.00	11.00	552.00	73.50	28.00	7.06	108.56	-	-	-	-	-	-	391.20	24.23	-	-	14.95	108.56	-
	G.Total		2,068.00	442.00	43.00	2,553.00	330.00	131.50	27.50	489.00	-	-	-	-	-	-	1,794.20	113.66	-	-	156.43	489.00	-

No. Agr. H (8-P) F (13)-(1A)-4/2021

Directorate of Agriculture,
Himachal Pradesh.

Annexure - B

From:

Director of Agriculture,
Himachal Pradesh.

To

The Principal Secretary (Rev-DM) to the
Govt. of H.P. Shimla-2.

Dated Shimla-5, the

28 Sept 2021.

Subject:

Submission of Memorandum by the State Government of Himachal Pradesh of damage due to Drought like situation and Hailstorm during summer 2021.

Sir,

In continuation to this office letter of even No. dated 24th Sept, 2021 on the subject cited above, please find enclosed herewith the Revised/updated Block-wise report of damage to Rabi Crops of 2020-21 season due to Drought as well as Hailstorm/unseasonal rainfall/snowfall, for favour of information and necessary action please.

Encls: As above

Yours faithfully

Pruthi
28/09/21

Dr. Raj Krishan Pruthi (IAS)
Director of Agriculture,
Himachal Pradesh.

Department of Agriculture
Himachal Pradesh

Block-wise Loss report of Rabi 2020-21 season due to unseasonal rainfall/Hailstorm/Snowfall

Sr. No	Name of the Block affected	Total Agricultural area affected (in Hac.)	Area where crop loss is equal or more than 33%	Total Loss as Assessed Rs. in Lakhs	Rainfed (in Hac.)	Irrigated (in Hac.)	Perennial (in Hac.)	Assistance sought for different categories of crops (Rs. In Lacs)			Total Assistance sought (Rs. In lacs)
								Rainfed (Rs.6800(x col.6)	Irrigated (Rs 13500.x col.7)	Perennial (Rs. (18000 x col.8)	
1	2	3	4	5	6	7	8	9	10	11	12
	Kangra										
1	Baijnath	1511.00	1511.00	295.00	1208.80	302.20	0.00	82.20	40.80	0.00	123.00
2	Panchrukhi	911.00	911.00	176.22	728.80	182.20	0.00	49.56	24.60	0.00	74.16
3	Bhawarna	810.00	810.00	158.12	648.00	162.00	0.00	44.06	21.87	0.00	65.93
4	Bhedu Mahadev	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Lamba Gaon	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Nagrota Bagwan	622.00	622.00	121.46	497.60	124.40	0.00	33.84	16.79	0.00	50.63
7	Kangra	419.00	419.00	82.62	335.20	83.80	0.00	22.79	11.31	0.00	34.11
8	Dehra	212.00	212.00	42.11	169.60	42.40	0.00	11.53	5.72	0.00	17.26
9	Pragpur	129.00	129.00	25.61	103.20	25.80	0.00	7.02	3.48	0.00	10.50
10	Nagrota Surian	13.00	13.00	2.50	10.40	2.60	0.00	0.71	0.35	0.00	1.06
11	Dharamshala	1166.00	1166.00	227.37	932.80	233.20	0.00	63.43	31.48	0.00	94.91
12	Rait	998.00	998.00	194.60	798.40	199.60	0.00	54.29	26.95	0.00	81.24
13	Nurpur	893.00	893.00	174.12	714.40	178.60	0.00	48.58	24.11	0.00	72.69
14	Fatehpur	912.00	912.00	177.74	729.60	182.40	0.00	49.61	24.62	0.00	74.24
15	Indora	722.00	722.00	140.53	577.60	144.40	0.00	39.28	19.49	0.00	58.77
	Total	9318.00	9318.00	1818.00	7454.40	1863.60	0.00	506.90	251.59	0.00	758.49
	Kinnaur										
1	Kalpa.	24.35	0.00	17.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Pooh	18.52	0.00	14.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Nichar.	15.24	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	58.11	0.00	36.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Kullu										
1	Kullu	16.00	16.00	3.84	12.80	3.20	0.00	0.87	0.43	0.00	1.30

Department of Agriculture
Himachal Pradesh

Block-wise Loss report of Rabi 2020-21 season due to unseasonal rainfall/Hailstorm/Snowfall

Sr. No	Name of the Block affected	Total Agricultural area affected (in Hac.)	Area where crop loss is equal or more than 33%	Total Loss as Assessed Rs. in Lakhs	Rainfed (in Hac.)	Irrigated (in Hac.)	Perennial (in Hac.)	Assistance sought for different categories of crops (Rs. In Lacs)			Total Assistance sought (Rs. In lacs)
								Rainfed (Rs.6800(x col.6)	Irrigated (Rs 13500.x col.7)	Perennial (Rs. (18000 x col.8)	
1	2	3	4	5	6	7	8	9	10	11	12
3	Chopal.	350.00	350.00	1232.82	280.00	70.00	0.00	19.04	9.45	0.00	28.49
4	Rohru.	320.00	0.00	139.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Jubalkotkhai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Chhohara.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Theog.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Rampur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Nankhari	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	Narkanda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Kupvi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	Tutu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	3730.50	480.00	3268.92	384.00	96.00	0.00	26.11	12.96	0.00	39.07
	Sirmour										
1	Nahan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Paonta.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Pachhad.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Rajgarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Sangrah.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Shillai.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Solan										
1	Kunihar	511.25	110.00	36.22	88.00	22.00	0.00	5.98	2.97	0.00	8.95
2	Solan.	60.00	20.00	36.71	16.00	4.00	0.00	1.09	0.54	0.00	1.63
3	Dharampur.	342.75	134.00	125.44	107.20	26.80	0.00	7.29	3.62	0.00	10.91
4	Kandaghat.	110.00	60.00	50.32	48.00	12.00	0.00	3.26	1.62	0.00	4.88

Department of Agriculture
Himachal Pradesh

Block-wise Loss report of Rabi 2020-21 season due to unseasonal rainfall/Hailstorm/Snowfall

Sr. No	Name of the Block affected	Total Agricultural area affected (in Hac.)	Area where crop loss is equal or more than 33%	Total Loss as Assessed Rs. in Lakhs	Rainfed (in Hac.)	Irrigated (in Hac.)	Perennial (in Hac.)	Assistance sought for different categories of crops (Rs. In Lacs)			Total Assistance sought (Rs. In lacs)
								Rainfed (Rs.6800(x col.6)	Irrigated (Rs 13500.x col.7)	Perennial (Rs. (18000 x col.8)	
1	2	3	4	5	6	7	8	9	10	11	12
5	Nalagarh	1261.00	556.00	102.24	444.80	111.20	0.00	30.25	15.01	0.00	45.26
	Total	2285.00	880.00	350.93	704.00	176.00	0.00	47.87	23.76	0.00	71.63
	Una										
1	Amb.	410.00	0.00	174.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Bangana.	230.00	0.00	44.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Gagret.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Haroli.	2970.00	2970.00	821.00	2376.00	594.00	0.00	161.57	80.19	0.00	241.76
5	Una	1431.00	0.00	657.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	5041.00	2970.00	1697.25	2376.00	594.00	0.00	161.57	80.19	0.00	241.76
	Grand Total	21103.11	13733.50	7280.24	10986.80	2746.70	0.00	747.10	370.80	0.00	1117.91