



								groves (‘000 ha)			
	Area (‘000 ha)	11.703	6.785	0.700	1.328	0.687	2.242	0.712	0.503	0.545	0.221

<b>1.4</b>	<b>Major Soils</b>	<b>Area (‘000 ha)</b>	<b>Percent (%) of total</b>
	Clay to clay loam	5.328	80
	Sandy loam	1.332	20

<b>1.5</b>	<b>Agricultural land use</b>	<b>Area (‘000 ha)</b>	<b>Cropping intensity %</b>
	Net sown area	4.767	148%
	Area sown more than once	2.018	
	Gross cropped area	6.785	

<b>1.6</b>	<b>Irrigation</b>	<b>Area (‘000 ha)</b>		
	Net irrigated area	4.116		
	Gross irrigated area	5.547		
	Rainfed area	1.431		
	<b>Sources of Irrigation</b>	<b>Number</b>	<b>Area (ha)</b>	<b>% of total irrigated area</b>
	Canals/Small Canals		3.264	
	Tanks		25	
	Open wells		25	
	Bore wells			
	Lift irrigation schemes			
	Micro-irrigation			
	Other sources (please specify)Power tillers	8	76	
	Total Irrigated Area			100 %
	Pump sets	751		
No. of Tractors	166			

Groundwater availability and use* (Data source: State/Central Ground water Department /Board)	No. of blocks/ Tehsils	(%) area	Quality of water (specify the problem such as high levels of arsenic, fluoride, saline etc)
Over exploited	4	54.59	
Critical			
Semi- critical			
Safe			
Wastewater availability and use			
Ground water quality			
<b>*over-exploited: groundwater utilization safe: &lt;70%</b>			

### 1.7 Area under major field crops & horticulture (2008-2009)

1.7a	Major field crops cultivated	Area ('000 ha)							Grand total
		<i>Kharif</i>			<i>Rabi</i>			Summer	
		Irrigated	Rainfed	Total	Irrigated	Rainfed	Total		
Rice	2.511	-	-	-	-	-	-	2.511	
Maize	-	0.101	-	-	-	-	-	0.101	
Oilseeds	-	-	-	-	0.434	-	-	0.434	
Fodders	-	-	-	0.284	-	-	-	0.284	
Pulses	0.073	-	-	-	-	-	-	0.073	
Wheat	-	-	-	-	0.003	-	-	0.003	
Dyes & tanning material	0.081	-	-	-	-	-	-	0.081	

1.7b	Horticulture crops – Fruits	Area ('000 ha)		
		Total (ha)	Irrigated	Rainfed ('000 ha)

	Apple	2.260	-	2.260
	Apricot	0.156	-	0.156
	Pear	0.464	-	0.464
	Peach	0.061	-	0.061
	Plum	0.253	-	0.253
	Cherry, walnut, almond	1.223, 0.654, 0.914	-	1.223, 0.654, 0.914

<b>1.7c</b>	<b>Horticulture crops - Vegetables</b>	<b>Total area ('000 ha)</b>	<b>Irrigated area ('000 ha)</b>	<b>Rainfed area ('000 ha)</b>
	<b>Tomato</b>	0.216	100%	-
	<b>Brinjal</b>	-	-	-
	<b>Cauliflower</b>	-	-	-
<b>1.7d</b>	<b>Medicinal and Aromatic crops</b>	<b>Total area ('000 ha)</b>	<b>Irrigated area ('000 ha)</b>	<b>Rainfed area ('000 ha)</b>
<b>1.7e</b>	<b>Plantation crops</b>	<b>Total area ('000 ha)</b>	<b>Irrigated area ('000 ha)</b>	<b>Rainfed area ('000 ha)</b>
	Eg., industrial pulpwood crops etc.			
<b>1.7f</b>	<b>Fodder crops</b>	<b>Total area ('000 ha)</b>	<b>Irrigated area ('000 ha)</b>	<b>Rainfed area ('000 ha)</b>
1		284	-	-
	<b>Condiments and spices</b>	<b>103</b>	<b>-</b>	<b>-</b>

<b>1.8</b>	<b>Livestock (in number)</b>	<b>Male ('000)</b>	<b>Female ('000)</b>	<b>Total ('000)</b>		
	Non descriptive Cattle (local low yielding)	12.6	55.6	125.5		
	Crossbred cattle (Crossbred + Local)	38.884	-	-		
	Non descriptive Buffaloes (local low yielding)		-	-		
	Graded Buffaloes		-	-		
	Goat	25.5	-	-		
	Sheep	98.9	-	-		
	Others (Camel, Yak etc.)	-	-	-		
	Commercial dairy farms (Number)					
<b>1.9</b>	<b>Poultry</b>	<b>No. of farms</b>	<b>Total No. of birds ('000)</b>			
	Commercial	-	-			
	Backyard (Local)	-	169.5			
<b>1.10</b>	<b>Fisheries (Data source: Chief Planning Officer of district) 6</b>					
	<b>A. Capture</b>					
	<b>i) Marine (Data Source: Fisheries Department)</b>	<b>No. of fishermen</b>	<b>Boats</b>		<b>Nets</b>	<b>Storage facilities (Ice plants etc.)</b>
			Mechanized	Non-mechanized		
	<b>ii) Inland (Data Source: Fisheries Department)</b>	<b>No. Farmer owned ponds</b>		<b>No. of Reservoirs</b>	<b>No. of village tanks</b>	
	<b>B. Culture</b>					
		<b>Water Spread Area (ha)</b>	<b>Yield (t/ha)</b>		<b>Production ('000 tons)</b>	
	<b>i) Brackish water (Data Source: MPEDA/ Fisheries Department)</b>	-	-		-	
<b>ii) Fresh water (Data Source: Fisheries Department)</b>						
<b>Others</b>						

### 1.11 Production and Productivity of major crops

1.11	Name of crop	<i>Kharif</i>		<i>Rabi</i>		Summer		Total		Crop residue as fodder ('000 tons)
		Production ('000 t)	Productivity (kg/ha)	Production ('000 t)	Productivity (kg/ha)	Production ('000 t)	Productivity (kg/ha)	Production ('000 t)	Productivity (kg/ha)	
<b>Major Field crops (Crops to be identified based on total acreage)</b>										
	<b>Paddy</b>	0.587	5500	-	-	-	-	0.587	5500	-
	<b>Maize</b>	0.059	1180	-	-	-	-	0.059	1180	-
	<b>Oilseed</b>	-	-	0.588	700	-	-	0.588	700	-
	<b>fodder</b>	1.776	12000	-	-	-	-	1.776	12000	-
	<b>Buck wheat</b>	0.240		-	-	-	-	-	-	-
<b>Major Horticultural crops (Crops to be identified based on total acreage)</b>										
	<b>Apricot</b>	0.065	-	-	-	-	-	0.065	-	-
	<b>Apple</b>	20.055	-	-	-	-	-	20.055	-	-
	<b>Walnut</b>	1.922	-	-	-	-	-	1.922	-	-
	<b>Pear</b>	2.342	-	-	-	-	-	2.342	-	-
	<b>Cherry</b>	2.536	-	-	-	-	-	2.536	-	-
	<b>Peach</b>	0.062	-	-	-	-	-	0.062	-	-
	<b>Almond</b>	0.081	-	-	-	-	-	0.081	-	-

1.12	Sowing window for 5 major field crops (start and end of normal sowing period)	Rice	Maize	Pulses	Oil Seeds	Millets
	<i>Kharif</i> - Rainfed	-	3 <sup>rd</sup> week of April to 4 <sup>th</sup> week of May	3 <sup>rd</sup> week of May to 3 <sup>rd</sup> week of June	-	-
	<i>Kharif</i> -Irrigated	3 <sup>rd</sup> week of April to 2 <sup>nd</sup> week of May	1 <sup>st</sup> week of April to 3 <sup>rd</sup> week of May	3 <sup>rd</sup> week of May to 3 <sup>rd</sup> week of June	-	-
	<i>Rabi</i> - Rainfed	-	-	-	1 <sup>st</sup> week of October to 2 <sup>nd</sup> week of October	-

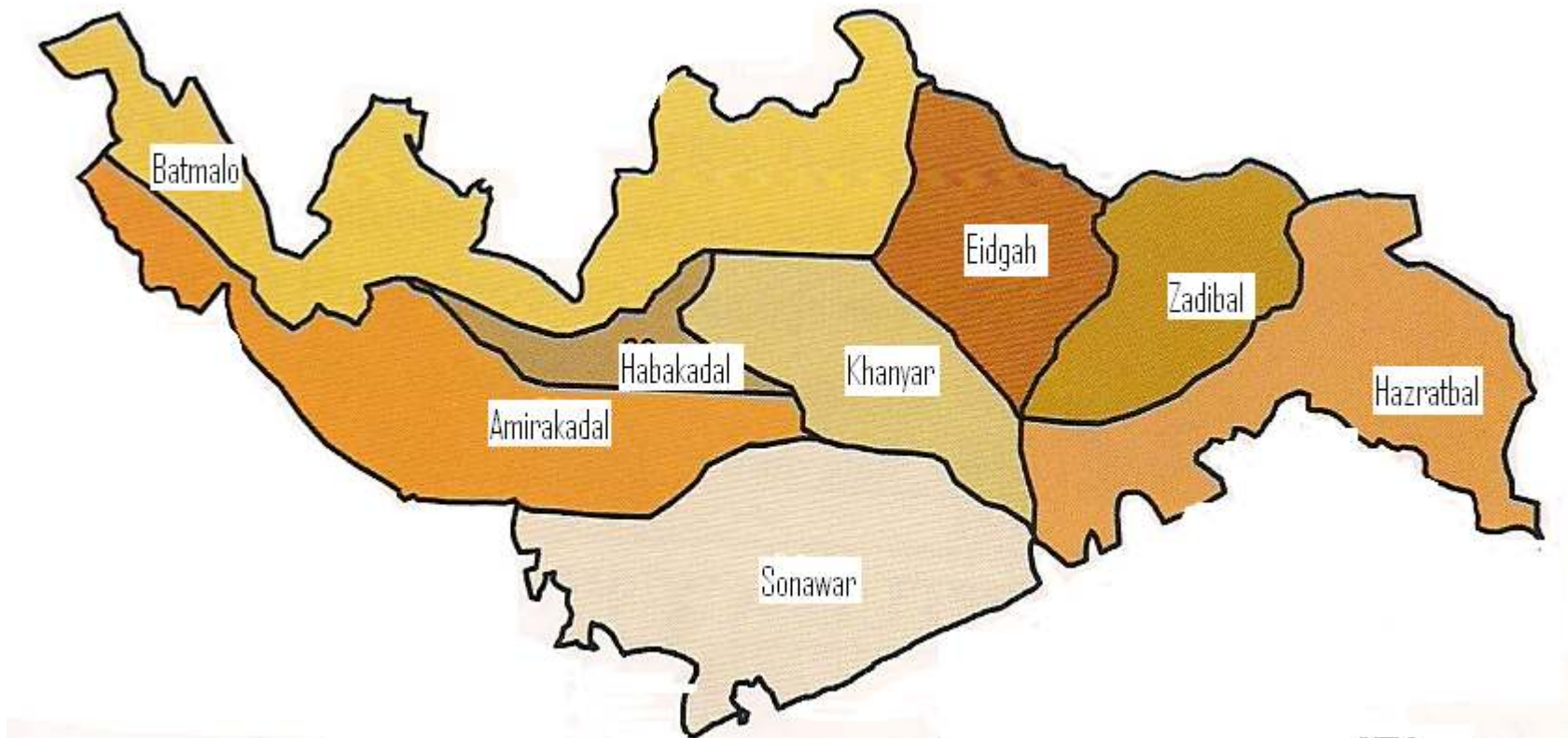
1.13	What is the major contingency the district is prone to? (Tick mark)	Regular	Occasional	None
	Drought		✓	
	Flood		✓	
	Cyclone			✓
	Hail storm		✓	
	Heat wave			✓
	Cold wave	✓		
	Frost		✓	
	Sea water intrusion			✓
	Pests and disease outbreak (specify)		✓	
	Others (specify) Locusts, Codling moth Aphids			✓

6 out of 10 years = Regular

1.14	Include Digital maps of the district for		
		Location map of district within State as Annexure I	Enclosed: Yes
		Mean annual rainfall as Annexure 2	Enclosed: Yes
		Soil map as Annexure 3	Enclosed: No

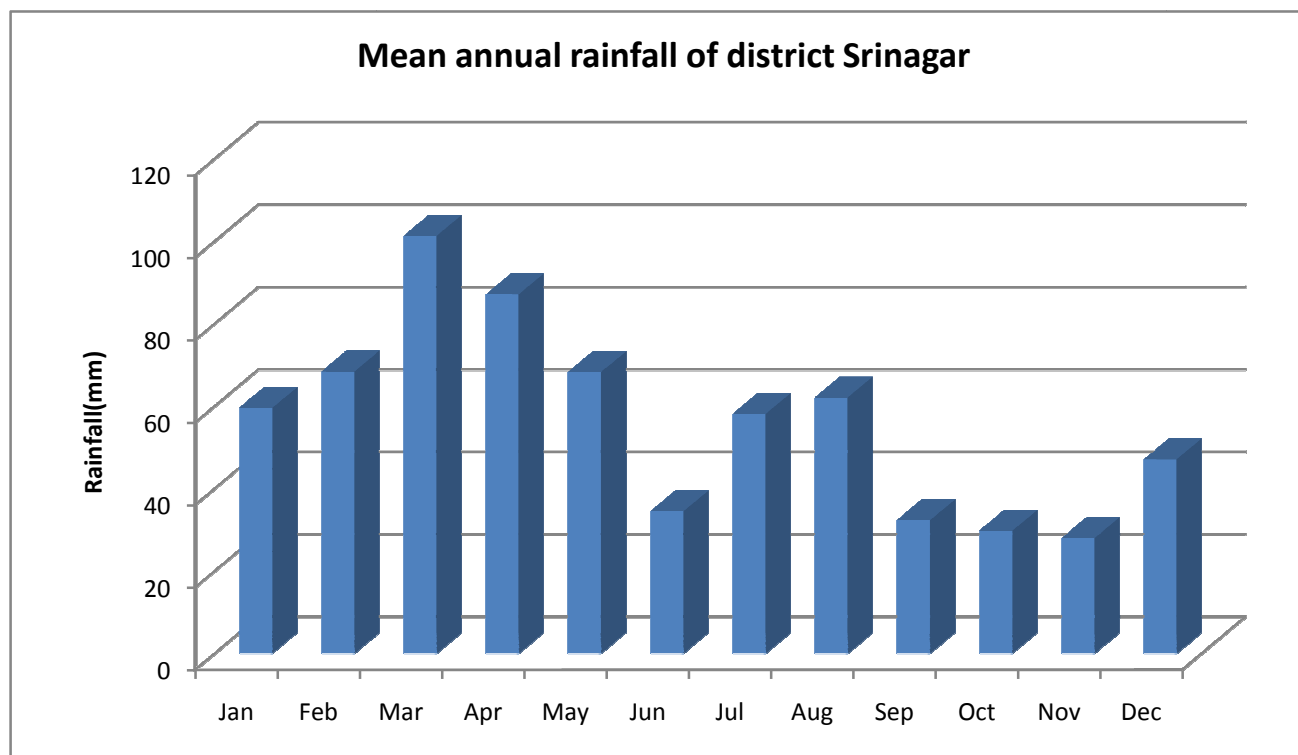
**Annexure I**

**Map of Srinagar District**





## Annexure II



### 2.0 Strategies for weather related contingencies

#### 2.1 Drought- Not applicable

##### 2.1.1 Rained situation

Condition			Suggested Contingency measures		
Early season drought	Major Farming situation	Normal Crop / Cropping system	Change in crop / cropping system including variety	Agronomic measures	Remarks on Implementat

<b>(delayed onset)</b>					<b>ion</b>
Delayed by two weeks 3 <sup>rd</sup> week of January	Pleistocene medium rainfall precipitation	a. Maize + Rajmash b. Maize + Greengram c. Maize + Rajmash  <b>Maize:-</b> C <sub>6</sub> , C <sub>8</sub> <b>Rajmash:-</b> Canadian red <b>Moong:-</b> Shalimar, moong-1	No change		
	Shallow soils high rainfall (high altitude)	a. Oats b. Maize c. Maize + Rajmash  <b>Oats:</b> sabzar <b>Maize:</b> C15,SKG1, SKG2, Shalimar, maize hybrid1 <b>Rajmash:</b> Canadian red	No change		

<b>Condition</b>			<b>Suggested Contingency measures</b>		
<b>Early season drought (delayed onset)</b>	<b>Major Farming situation</b>	<b>Normal Crop / Cropping system</b>	<b>Change in crop / cropping system including variety</b>	<b>Agronomic measures</b>	<b>Remarks on Implementation</b>

<p>Delayed by four weeks and six week</p> <p>1<sup>st</sup> week of February &amp; 3<sup>rd</sup> week of February</p>	<p>Pleistocene medium rainfall precipitation</p> <p>Shallow soils high rainfall (high altitude)</p>	<p>a. Maize + Rajmash b. Maize + Greengram c. Maize + Rajmash</p> <p><b>Maize:-</b> C<sub>6</sub>, C<sub>8</sub> <b>Rajmash:-</b> Canadian red <b>Moong:-</b> Shalimar, moong-1</p> <p>a. Oats b. Maize c. Maize + Rajmash</p> <p><b>Oats:</b> sabzar <b>Maize:</b> C15,SKG1, SKG2, Shalimar, maize hybrid1 <b>Rajmash:</b> Canadian red</p>	<p>No change</p> <p>No change</p>	<ul style="list-style-type: none"> <li>• Increase sowing depth of maize</li> <li>• Furrow sowing across the slope</li> <li>• Early sowing</li> <li>• Thinning in brown sarson and use as organic mulch</li> </ul>	
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Condition			Suggested Contingency measures		
Early season drought (delayed onset)	Major Farming situation	Normal Crop / Cropping system	Change in crop / cropping system including variety	Agronomic measures	Remarks on Implementation

Delayed by 8th weeks 1st week of March	Pleistocene medium rainfall precipitation  Shallow soils high rainfall (high altitude)	<p>a. Maize + Rajmash b. Maize + Greengram c. Maize + Rajmash</p> <p><b>Maize:-</b> C<sub>6</sub>, C<sub>8</sub> <b>Rajmash:-</b> Canadian red <b>Moong:-</b> Shalimar, moong-1</p> <p>a. Oats b. Maize c. Maize + Rajmash</p> <p><b>Oats:</b> sabzar <b>Maize:</b> C15,SKG1, SKG2, Shalimar, maize hybrid1 <b>Rajmash:</b> Canadian red</p>	<p>Maize(local)-fallow Maize(local)+beans-fallow Maize(local)+greengram/Cow pea-fallow</p> <p>Maize-local Beans-canadian red Cowpea local</p> <p>Maize(local)-fallow Maize(local)+beans-fallow Maize(local)+greengram/cow pea-fallow</p>	<ul style="list-style-type: none"> <li>• Use local varieties</li> <li>• Follow water harvesting</li> <li>• Increase sowing depth</li> <li>• Early sowing</li> <li>• Use mulches</li> <li>• Increase quantity of organic manure</li> </ul>	
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Condition	Major Farming situation	Normal Crop/cropping system	Suggested Contingency measures		
			Change in crop/cropping system	Agronomic measures	Remarks on Implementation
<b>Early season drought (delayed onset)</b>	Pleistocene medium rainfall precipitation  Shallow soils high rainfall (high altitude)	<p>a. Maize + Rajmash b. Maize + Greengram c. Maize + Rajmash</p> <p><b>Maize:-</b> C<sub>6</sub>, C<sub>8</sub> <b>Rajmash:-</b> Canadian red <b>Moong:-</b> Shalimar, moong-1</p> <p>a. Oats b. Maize c. Maize + Rajmash</p> <p><b>Oats:</b> sabzar <b>Maize:</b> C15,SKG1, SKG2, Shalimar,</p>	<p>Maize(local)-fallow Maize(local)+beans-fallow Maize(local)+moong/cowpea -fallow</p> <p>Maize-local Beans-canadian red Cowpea local</p> <p>Maize(local)-fallow Maize(local)+beans-fallow Maize(local)+moong/cowpea</p>	<ul style="list-style-type: none"> <li>• Use local varieties</li> <li>• Follow water harvesting</li> <li>• Increase sowing depth</li> <li>• Early sowing</li> <li>• Use mulches</li> <li>• Increase quantity of organic manure</li> </ul>	

		maize hybrid1 <b>Rajmash:</b> Canadian red	-fallow		
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Condition	Major Farming situation	Normal Crop/cropping system	Suggested Contingency measures		
			Crop management	Soil nutrient & moisture conservation measures	Remarks on Implementation
Early season drought (Normal onset)					
Normal onset followed by 20 day dry spell	Pleistocene medium rainfall precipitation	a. Maize + Rajmash b. Maize + Greengram c. Maize + Rajmash  <b>Maize:-</b> C <sub>6</sub> , C <sub>8</sub> <b>Rajmash:-</b> Canadian red <b>Moong:-</b> Shalimar, moong-1	<ul style="list-style-type: none"> <li>• Thinning and gap filling</li> <li>• Reseeding /gap filling</li> </ul> Reseeding if germination fails	<ul style="list-style-type: none"> <li>• Tillage mulching</li> </ul>	
	Shallow soils high rainfall (high altitude)	a. Oats b. Maize c. Maize + Rajmash  <b>Oats:</b> sabzar <b>Maize:</b> C15,SKG1, SKG2, Shalimar, maize hybrid1 <b>Rajmash:</b> Canadian red			

Condition	Major Farming situation	Normal Crop/cropping system	Suggested Contingency measures		
			Crop management	Soil nutrient & moisture conservation measures	Remarks on Implementation
Mid season drought (long dry spell, consecutive 2 weeks rainless (>2.5 mm) period)					

	<p>Pleistocene medium rainfall precipitation</p> <p>Shallow soils high rainfall (high altitude)</p>	<p>a. Maize + Rajmash b. Maize + Moong c. Maize + Rajmash</p> <p><b>Maize:-</b> C<sub>6</sub>, C<sub>8</sub> <b>Rajmash:-</b> Canadian red <b>Moong:-</b> Shalimar moong-1</p> <p>a. Oats b. Maize c. Maize + Rajmash</p> <p><b>Oats:</b> sabzar <b>Maize:</b> C15, SKG1, SKG2, Shalimar, maize hybrid1 <b>Rajmash:</b> Canadian red</p>	<p>Life saving irrigation</p> <p>Weeding &amp; mulching</p> <p>Delay application of N dose</p>	<p>Prepare furrow across the slope</p> <p>Spray urea</p>	
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Condition	Major Farming situation	Normal Crop/cropping system	Suggested Contingency measures		
			Crop management	Soil nutrient & moisture conservation measrues	Remarks on Implementation
Mid season drought (long dry spell)					

	Pleistocene medium rainfall precipitation	a. Maize + Rajmash b. Maize + Moong c. Maize + Rajmash  <b>Maize:- C<sub>6</sub> , C<sub>8</sub></b> <b>Rajmash:- Canadian red</b> <b>Moong:- Shalimar moong-1</b>	Life saving irrigation  Tillage mulch  Weeding  Organic mulch  Thing of plant stand to rationalize available moisture	Spray micro nutrients and urea and potash as Kcl  mulching	
	Shallow soils high rainfall (high altitude)	a. Oats b. Maize c. Maize + Rajmash  <b>Oats: sabzar</b> <b>Maize: C15,SKG1, SKG2, Shalimar, maize hybrid1</b> <b>Rajmash: Canadian red</b>			

Condition	Major Farming situation	Normal Crop/cropping system	Suggested Contingency measures		
			Crop management	Rabi Crop planning	Remarks on Implementation
Terminal drought (Early withdrawal of monsoon)/ western disturbance	Pleistocene medium rainfall precipitation	a. Maize + Rajmash b. Maize + Moong c. Maize + Rajmash  <b>Maize:- C<sub>6</sub> , C<sub>8</sub></b> <b>Rajmash:- Canadian red</b> <b>Moong:- Shalimar moong-1</b>	Life saving irrigation from water storages  Harvest moong and beans for vegetable purpose	Lentil, brown sarson wheat vetch to be sown in the month of October followed by pre-sowing irrigation	
	Shallow soils high rainfall (high altitude)	a. Oats b. Maize c. Maize + Rajmash  <b>Oats: sabzar</b> <b>Maize: C15,SKG1, SKG2, Shalimar, maize hybrid1</b> <b>Rajmash: Canadian red</b>	Harvest maize for fodder purpose and save excessive biomass as hay		

2.1.2 Drought - Irrigated situation

Condition	Suggested Contingency measures				
	Major Farming situation	Normal Crop/cropping system	Change in crop/cropping system	Agronomic measures	Remarks on Implementation
Delayed release of water in canals due to low rainfall/snowfall	low land snow melt Streams.Alluvial soils	a.Rice-brown sarson	Dealyed released of water Is not situation as at early stages whatever snow is available water is released	<ul style="list-style-type: none"> <li>• Pre-sowing irrigation</li> <li>• Proper puddling in rice fields</li> <li>• Irrigate rice after disappearance of ponded water</li> <li>• Pre-sowing irrigation</li> <li>• Proper puddling in rice fields</li> <li>• Irrigate rice after disappearance of ponded water.</li> <li>• Plastering of bunds</li> </ul>	
		b.Rice-fodder oats			
		c.Rice- wheat			
	Tail ends of irrigated area.	a. Rice-brown sarson	Not required		
		b. Rice-fodder oats			
		c. Rice- wheat			
	Mid to high altitude Pleistocene soils	a. Rice-brown sarson			
		b.Rice-fodder oats			
		c.Rice- wheat			

Condition	Suggested Contingency measures				
	Major Farming situation	Normal Crop/cropping system	Change in crop/cropping system	Agronomic measures	Remarks on Implementation
Limited release of water in canals due to low rainfall/snowfall	low land snow melt Streams.Alluvial soils	a.Rice-brown sarson	Maize+beans-brown sarson Maize+beans-oats Maize+moong/cowpea-brown sarson	<ul style="list-style-type: none"> <li>• Pre-sowing irrigation</li> <li>• Plant local varities.</li> <li>• Early sowing recommended</li> <li>• Increase organic manure as per availability</li> </ul>	
		b.Rice-fodder oats			
		c.Rice- wheat			
	Tail ends of irrigated area.	a.Rice-brown sarson	Maize+beans-brown sarson Maize+beans-oats Maize+moong/cowpea-brown sarson		
		b.Rice-fodder oats			
		c.Rice- wheat			
Mid to high altitude Pleistocene soils	a. Rice-brown sarson	Maize			
	b.Rice-fodder oats	Fodder maize			



Condition			Suggested Contingency measures		
	Major Farming situation	Normal Crop/cropping system	Change in crop/cropping system	Agronomic measures	Remarks on Implementation
		c.Rice- wheat	MP cherry		

Condition			Suggested Contingency measures		
	Major Farming situation <sup>f</sup>	Normal Crop/cropping system <sup>g</sup>	Change in crop/cropping system <sup>h</sup>	Agronomic measures <sup>i</sup>	Remarks on Implementation <sup>j</sup>
Non release of water in canals under delayed onset of western disturbance in catchment		Conditions not applicable			

Condition			Suggested Contingency measures		
	Major Farming situation <sup>f</sup>	Normal Crop/cropping system <sup>g</sup>	Change in crop/cropping system <sup>h</sup>	Agronomic measures <sup>i</sup>	Remarks on Implementation <sup>j</sup>
Lack of inflows into tanks due to insufficient /delayed onset of monsoon		Condition not applicable			
Insufficient groundwater recharge due to low rainfall		Condition not applicable			

## 2.2 Unusual rains (untimely, unseasonal etc) (for both rainfed and irrigated situations)

Condition	Suggested contingency measure			
	Vegetative stage	Flowering stage	Crop maturity stage	Post harvest
Continuous high rainfall in a short span leading to water logging				
Maize+beans	Provide surface	Provide surface drainage	Drain field.	Spread crop at dry and safer place

	drainage along the slope		Provide staking if lodging is seen. Harvest around at physiological maturity	
Beans/Greengram	do	do	Harvest crop by uprooting Not by picking	do
Fodder maize	do	Harvest crop as and when workable	-	-
Rice	Drain excessive water.	Provide drainage and take measures against rice blast(prophylactic measures)	-	-
<b>Horticulture</b>				
<b>Apple</b>	At dormant stage in case of heavy snowfall remove snow from trees In case of trunk craking join splits by nuts and bolts to save trees			
<b>Heavy rainfall with high speed winds in a short span</b>				
Crop1				
<b>Horticulture</b>				
Crop1				
<b>Outbreak of pests and diseases due to unseasonal rains</b>				
		Need based plant protection IPDM for pluses		Safe storage against storage pest and diseases

<b>Horticulture</b>				
Crop1				

### 2.3 Floods : Not experienced / encountered

Condition	Suggested contingency measure <sup>0</sup>			
	Seedling / nursery stage	Vegetative stage	Reproductive stage	At harvest
<b>Transient water logging/ partial inundation<sup>1</sup></b>				
<b>Rice</b>	NA	-Remove slit from the effected parts of field -Drain water from field	-Staking of lodged plants -Remove slit -Drain water -Prophylactic spray to control diseases	-Drain field -Remove slit -Harvest and take produce to safer place
<b>Horticulture</b>				
Crop1				
<b>Continuous submergence for more than 2 days</b>				
Crop1				
<b>Horticulture</b>				
Crop1				
<b>Sea water intrusion</b>				
Crop1				

### 2.4 Extreme events: Heat wave / Cold wave/Frost/ Hailstorm /Cyclone : Not experienced / encountered

Extreme event type	Suggested contingency measure			
	Seedling / nursery stage	Vegetative stage	Reproductive stage	At harvest
<b>Heat Wave</b>	NA			
<b>Cold wave</b>				
<b>Rice</b>	At nursery stage use low polythene tunnel to Grow rice nursery as standard method	Increase water level in the paddy fields	Keep water level up	
<b>Horticulture</b>				

Crop1				
<b>Frost</b>				
Crop1				
<b>Horticulture</b>				
Crop1				
<b>Hailstorm</b>				
Crop1				
<b>Horticulture</b>				
Crop1				
<b>Cyclone</b>				
Crop1				
<b>Horticulture</b>				
Crop1				

## 2.5 Contingent strategies for Livestock, Poultry & Fisheries

### 2.5.1 Livestock

	Suggested contingency measures		
	Before the event	During the event	After the event
<b>Drought</b>			
Feed and fodder availability	<ul style="list-style-type: none"> <li>- Necessary arrangements to grow fodder on bunds/orchards and irrigated area as need based</li> <li>- Use excessive fodder for making hay and silage</li> </ul>	<ul style="list-style-type: none"> <li>-Keep animals under shade</li> <li>-Use urea molasses treated roughage</li> <li>-Use feed blocks prepared from crop residue And apple pomace</li> <li>-Ensure availability of mineral mixture</li> </ul>	
Drinking water	Ensure storage of drinking water in storage tanks	Ensure storage of water	
Health and disease	Arrangement and preparedness with required	Vaccination for foot and mouth disease and other	Culling sick

management	medicine stock	required dosage and vaccination if not done earlier	and unproductive livestock.
<b>Floods</b>			
Feed and fodder availability	-	Take animals to safer places -Use feed blocks prepared from crop residue And apple pomace -Spread wet fodder at safer places to dry	
Drinking water			
Health and disease management			
<b>Cyclone</b>			
<b>Heat wave and cold wave</b>			
Shelter/environment management	Provide heating and proper ventilation	Ensure live stock is not subjected to direct cold	
Health and disease management			

<sup>s</sup> based on forewarning wherever available

### 2.5.2 Poultry

	Suggested contingency measures			Convergence/linkages with ongoing programs, if any
	Before the event <sup>a</sup>	During the event	After the event	
<b>Drought</b>				
Shortage of feed ingredients	Ensure stock of feed	Utilise damaged food grains Utilise stored feed	Culling of affected birds	

Drinking water	Storage in water reservoirs	Use stored water	-	
Health and disease management	Preparedness and arrangement of vaccination	Mass vaccination	Culling of diseased birds	
<b>Floods</b>				
<b>Cyclone</b>				
<b>Heat wave and cold wave</b>				

<sup>a</sup> based on forewarning wherever available

### 2.5.3 Fisheries/ Aquaculture

	Suggested contingency measures		
	Before the event	During the event	After the event
<b>1) Drought</b>			
A. Capture	Prepare additional water reservoirs and exigency ponds	Protect brood stock by making deep trenches in the middle of ponds. Sale of additional stock Provide aeration Stop feeding/restrict feeding Give chilling treatment	-
B. Aquaculture			
<b>2) Floods</b>			
A. Capture			
B. Aquaculture			
<b>3. Cyclone / Tsunami</b>			
A. Capture			

B. Aquaculture			
<b>4. Heat wave and cold wave</b>			
A. Capture			
B. Aquaculture			

<sup>a</sup> based on forewarning wherever available