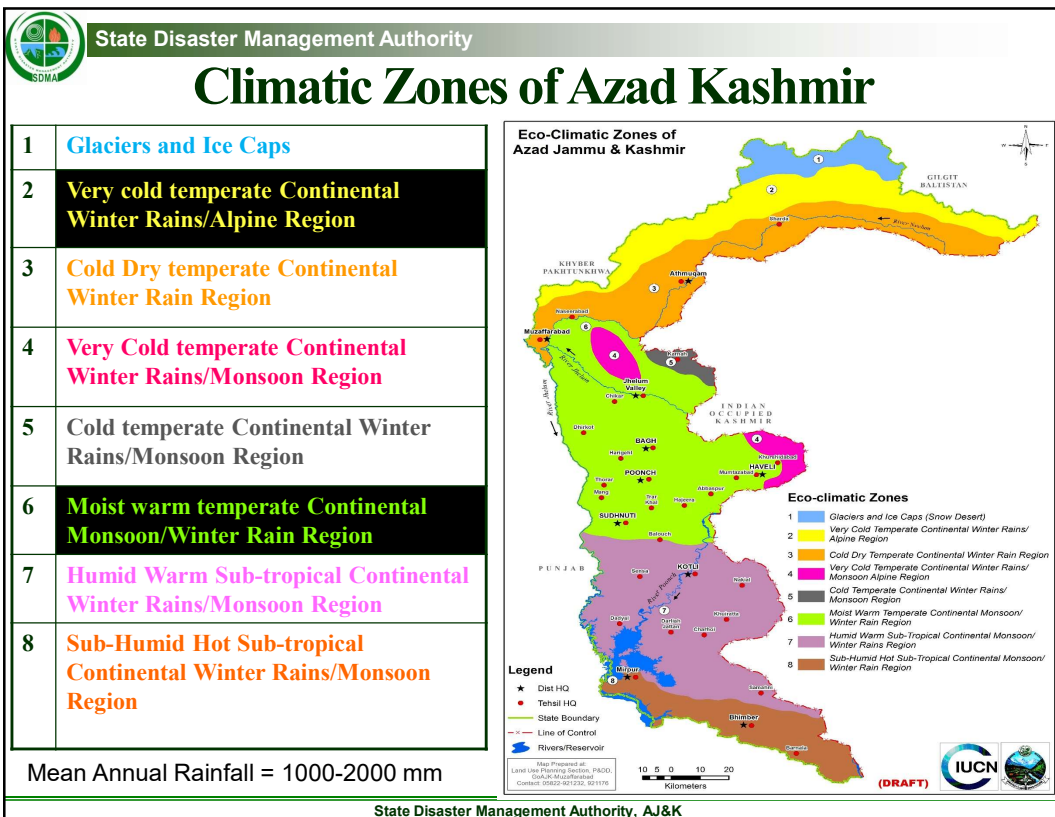
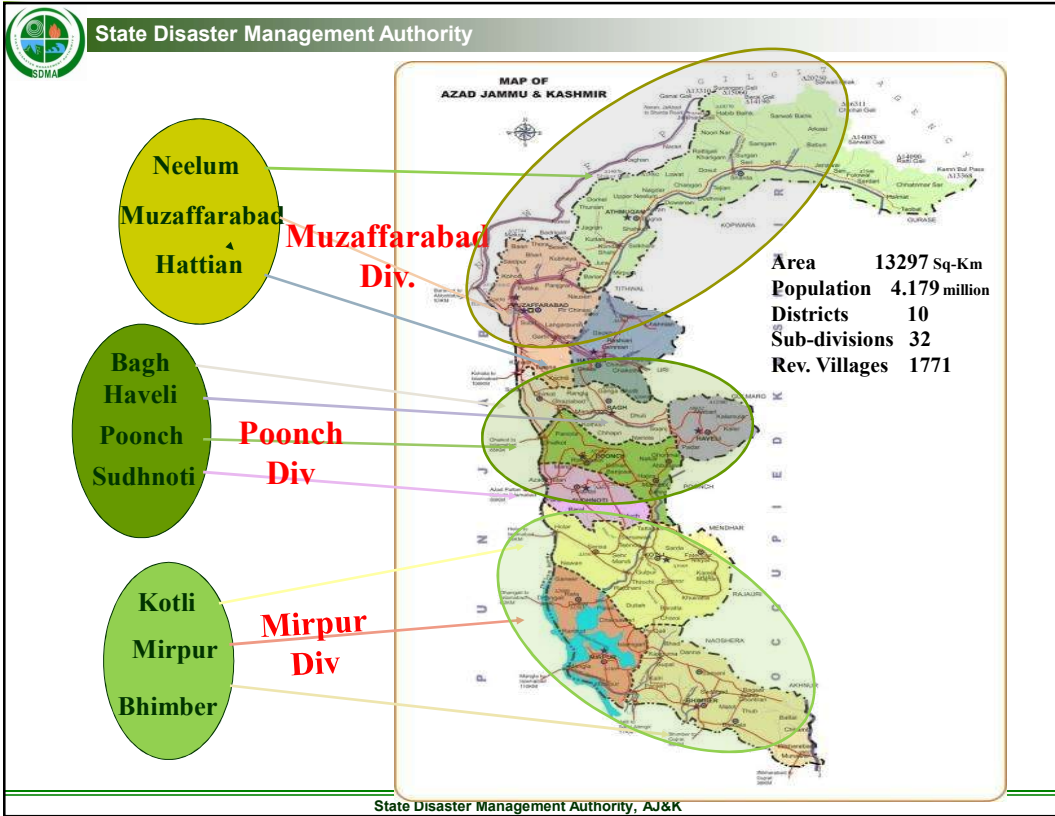


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Monsoon Contingency Plan 2024 AJK

STATE DISASTER MANAGEMENT AUTHORITY





Monsoon Hazards/Threats

- ❑ **Torrential Rains**
- ❑ **Flash Flooding/Floods**
- ❑ **Land Slides/Mud Flows/Avalanches**
- **Consequential Threats**
 - **Human ,Livestock Casualties and Shelter Losses**
 - **Road blockage, Collapse of Communication & electricity network**
 - **Loss of public and private properties**
 - **Population displacement**
 - **Livelihood Destruction and Food Insecurity**
 - **Health Issues**



Monsoon Risk Enhancing Factors

- **Tempering with natural environment**
 - **Increased deforestation**
 - **Sand & stone mining**
 - **Unplanned construction of roads/cutting of hill slopes**
- **Encroachments**
 - **Blockade of natural water ways**
 - **Illegal use of vulnerable/marginal land for habitation**
- **Inadequate early warning arrangements**
- **Non observation of early warning by general public**
- **Potential Nallahs=66**

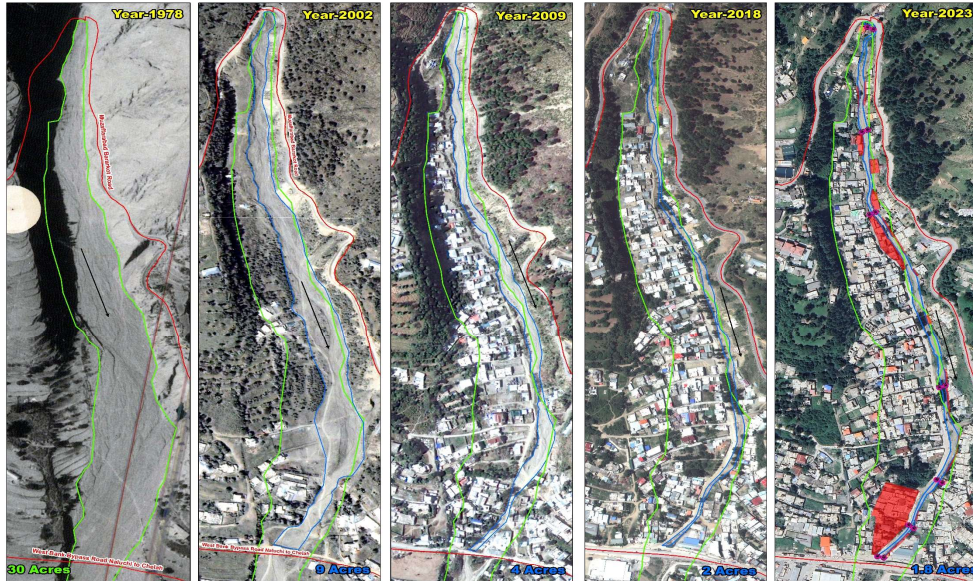


Gojra Nullah in 2005



Gojra Nullah in 2024

Gojra Nullah



- Legend**
- Block Points
 - Nala Extent (1978)
 - Nullah Extent (2002-2023)
 - Effected Houses

GOJRA NALA (1978-2023)

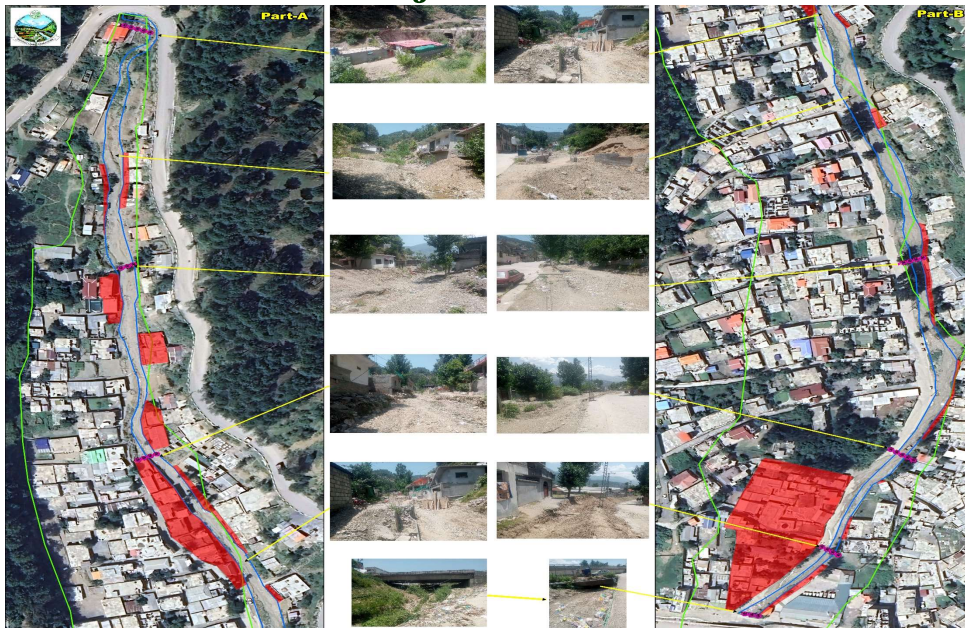
BLOCK POINTS DURING HEAVY RAINFALL

1 inch = 208 feet



Survey and mapping conducted by Land Use Planning, Planning and Development Department

Gojra Nullah



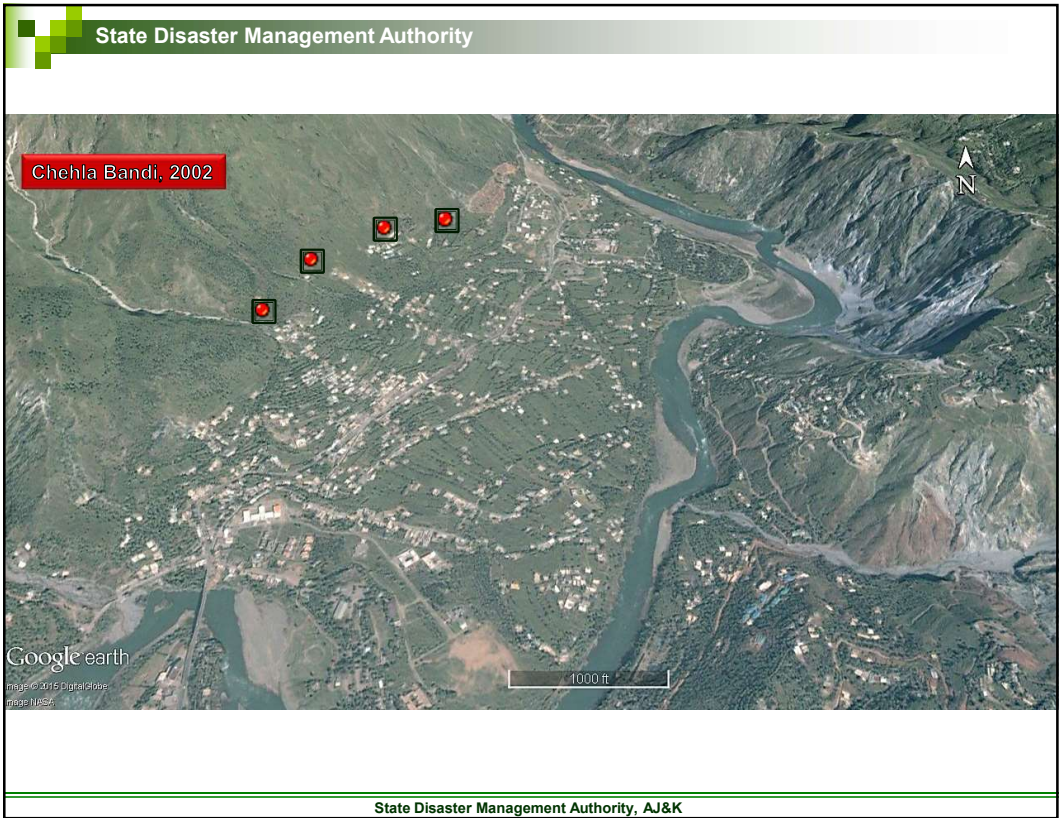
- Legend**
- Block Points
 - Nala Extent (1978)
 - Nullah Extent-2023
 - Effected Houses During Rainfall

GOJRA NALA (2023)

BLOCK POINTS DURING HEAVY RAINFALL

Survey Date: 10-06-2024

Survey and mapping conducted by Land Use Planning, Planning and Development Department





Detail of Nullahs in AJ&K (66)

No.	District	Nullahs
1	Neelum	Phulawai, Dudgaie (Taobut), Janavai, Kel, Surgan, Kharigam, Dossut, Dudhnial, Dawarian, Nagdar, Lawat, Changan, Tehjian, Athmuqam, Katha Piran, JagranKundal Shahi, Leswa
2	Muzaffarabad	Jheeng, Pathika (Butdara), Kahori, Shawaie, Chellah, Gojra Kass, Makri, Tariqabad, Kaimanja, Chatter Kalass, Saheli, Parak
3	Jhelum Valley	Qazi Nag (Leepa), Sharian, Kalri, Sena Daman, Qazi Nag (Kathie)
4	Bagh	Malwani Kass, Mallot, Mahl (Bessuti-Rehra)
5	Haveli	Hillan (Khurshidabad), Budhal Sharif, Bissan, Battar (Chanjal)
6	Poonch	Hajira, Guien, Mohri Farman Shah, Abbasspur, Ali Sojal
7	Sudhnuti	Baral
8	Kotli	Sarsawa, Goi, Sarhuta, Nakial, Khuratta (Rajdhani), Mohel (Sehnsa)
9	Mirpur	Jari Kass, Ratta, Khatar, Sankiah, Kaneli, Dadyal
10	Bhimber	Samahni, Kasguma, Bhimber City, Mallot Kass, Patni (Barnala), Pir Jamal

Source: LUP

Climate Change Impacts in AJ&K

- Extreme & erratic weather patterns
- Enhanced disasters (Floods, landslides, avalanches, glacier melting- GLOFs) damaging lives, property, infrastructure
- Snowfall pattern shifting & residency period shrinking
- Variable river flows
- Shifting cropping patterns, reduced productivity
- Shifting of tree line
- Forest & land degradation
- Increase in forest fires
- Infrastructure damages
- Impacts on Health
- Water, food & energy securities at risk



Monsoon Disaster History

Year	Affected Districts	Persons affected	Deaths	Injured	Houses Damaged	Socio-Economic Loss
1992	All Districts	125,000	322	1,375	21,920	Infrastructure, livestock, cash crops, orchards. A 1.25 million of population adversely affected
2010	Neelum, MZD, Hattian, Bagh	14,459	69	79	10,616	Infrastructure, Livestock, Cash Crops, Environmental degradation /losses
2011	Hattian	1,300	-	-	49	Infrastructure damages
2012	All Districts	12942	52	25	2,092	Infrastructure, human and property losses besides environmental degradation
2013	All Districts	1,644	35	15	274	Public & private property losses & environmental degradation
2014	All Districts	91,950	56	87	15,325	41 shops, 82 Water mills, 203 cattle, agricultural & Multi sectoral loses
2015	All Districts	2856	26	05	408	10 Shops, 06 Cattle,
2016	All Districts	9024	31	21	1409	43 shops, 21 Cattle
2017	All Districts	228	13	5	30	Infrastructure damages
2018	All Districts	448	23	31	64	06 Vehicles,02 Cattle Sheds
2019	All Districts	924	42	18	132	04 School 43 shops, 69 Cattle, 23 Mills,
2020	All Districts	1176	12	09	168	03 School 02 shops, 11 Cattle, 23 Mills,
2021	All Districts	161	09	04	23	03 Vehicles, 01 Police Station, 01 Public health Office partially damaged
2022	All Districts	3885	48	24	555	09 Mills, 05 Vehicles, 08 Pedestrian Bridges, 01 School
2023	All Districts	3374	18	20	482	13 Schools, 07 pedestrian bridges, 03 masjids, 17 shops, 18 cattle sheds, 08 vehicles

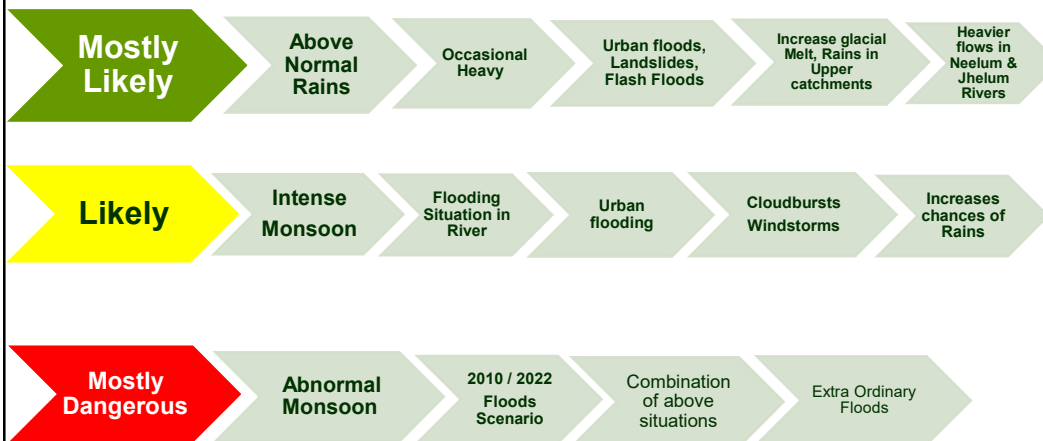


Weather Outlook for Monsoon (July-August-September 2024 by PMD)

Monsoon rainfalls are expected
20-40% above normal in region.



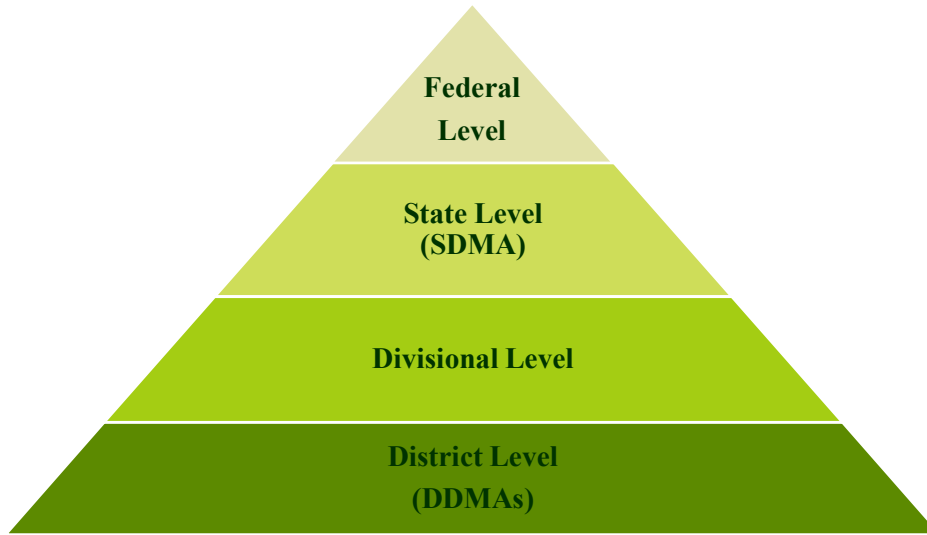
Visualised Outlook for Monsoon



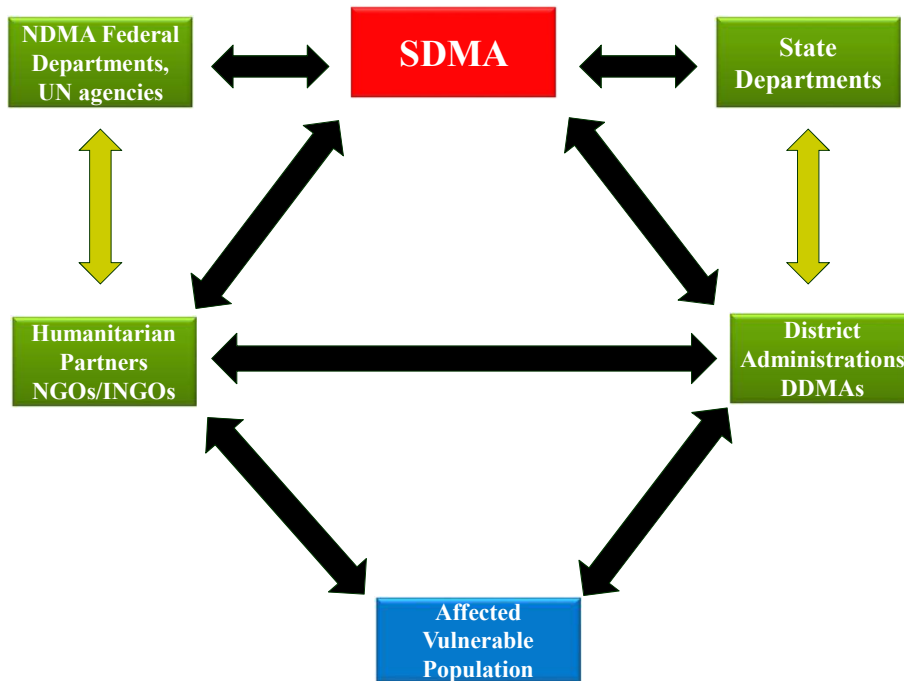


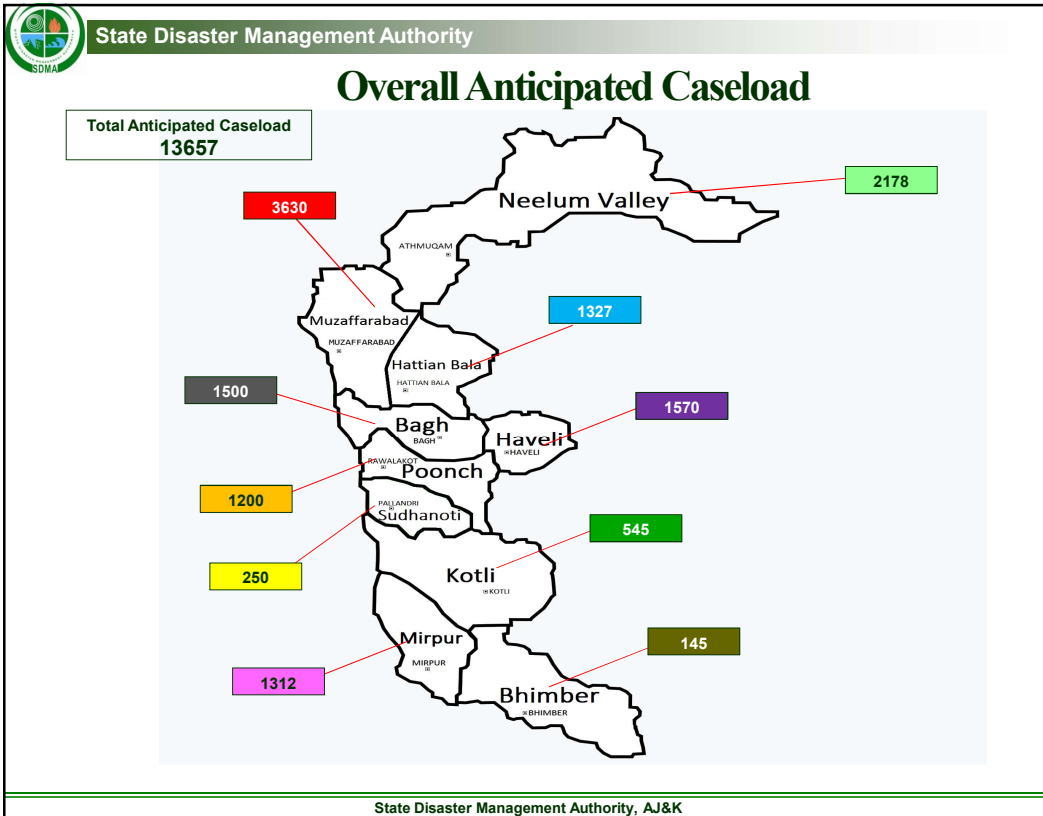
Plan Methodology

SDMA has chalked out Monsoon Contingency Plan-2024 in consultation with all DDMA's, line departments and other stakeholders, keeping in view the worst case scenario and past experience.



Coordination Framework





State Disaster Management Authority

Overall Anticipated Caseload

Sr.	District	Vulnerable Families	Vulnerable Areas
01	Muzaffarabad	3630	Makri, Lower Plate Walkway, Taali Mandi, Shahsultan, Saheli Sarkar Bridge, Gulshan Pir Allodin , Tariqabad, Manak Payeyan, Barsala, Dhani mai Sahiba, Bandi Saman, Danna Sahotar, Panjkot, Panjgran, Sarlisacha, Bheri.
02	Jehlum Valley	1327	Khilana, Gundigran, Nalai, Gujrabandi, Chakhama, Ghehal Jabra , Hattian, Chinari , Chikar, Lamnia, Lasdhar, Banni Langryal, Bandi Ghorsian, Saina Daman, Peeran bandi, Neli, Derran, Batsher, Bail, Moji, Gahasla, Antliyan & Chatkari
03	Neelum	2178	Chilhana, Katha Semari, Jura, Sosal Bandi Laswa Sharda, Kharigam,Surgan Bakwali,Gamote, Shonter Valley, Kel, Kalalot, Guraiz Valley
04	Poonch	1200	Soon, Nakar, Ali sojal, Singhola, Dothan, Pothi Chapriyan, Serari Neriyan, Kalot, Bhanteeni Khas, Akramabad, Harkarian, Chak, Potha Bala, Kanoli, Numal, Chaffar Janobi, Nakar Bela, Bandi Dhalkot, Chil Bosa Galla
05	Bagh	1500	Grid Colony Bagh,Refugee Camp, Mang Bajri, Qadirabad, Chatrora, Grid Colony bagh Village Bees Bagla ,Thub, Village Minhasa , Mala Bagla Salian Dhondan, Dhirkot, Gojar Kohallah
06	Haveli	1570	Chanjal , Bahdi, Jokan, Quaid-i-Abad, Hillan Kalamulla Khurshidabad, Tangari, Doba , Aliwas, Sayie.
07	Sudhnoti	250	Bharal, Chichyan. Gorah, Kancheri, Patan Sher Khan, Nerian, Papynar, Habibabad, Nalayan.
08	Mirpur	1312	Saim, Lehri Azizpur Jharikass, Begabalwal, Sahib Chak, Jatlan, Shahpur Pakhral Chabrian Dattan, Chakraja Bains, Jhangyan, Bidder, Boryal, Tatrot, Chak rupa, Afzalpur, Qazi Chak, Raipur
09	Bhimber	145	Ali Baig, Bhimber City, Giga Mossa, Toneen, Jhandi Chontra, Malot, Kanjlor, Saleema Matta.
10	Kotli	545	Thalair Colony, Dakhari, Juzwi Mandi, Choch, Holar,Majjan, Jahndroot, Manoli Nala,Nala, Nala Kala Dabb
Total		13657	

State Disaster Management Authority, AJ&K



State of Preparedness - Resources Available



Preparedness

Logistic Arrangement

Humanitarian Response Facility (HRF)





Preparedness

Logistic Arrangement

DDMAs Warehouse (All Districts)



State Disaster Management Authority, AJ&K



Preparedness – Available Stocks with SDMA (NFIs)

Sr.	Item	Qty		Total
		Available	To be procured	
01	Mattress	47	500	547
02	Winterized Tent	26	-	26
03	Tent	30	1000	1030
04	Sleeping Bags	120	-	120
05	Plastics Sheets	56	1500	1556
06	Blanket	578	-	578
07	Quilts	348	2000	2348
08	CGI Sheets	300	-	300
09	Plastic Mats	-	900	900
10	Kitchen Set	-	1000	1000

State Disaster Management Authority, AJ&K

State Disaster Management Authority

Relief items with districts

District	Tents	Plastic Sheets	Plastic Mats	Blankets	Quilts	Shawls	Kitchen Set	Sleeping Bag	Mattress
Muzaffarabad	3	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3
Jhelum Valley	12	12	Nil	4	11	Nil	Nil	Nil	2
Neelum	5	1	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Poonch	4	4	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Bagh	5	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Bhimber	30	20	Nil	04	Nil	10	Nil	Nil	20
Sudhnuti	35	10	Nil	10	10	Nil	Nil	Nil	3
Kotli	43	22	Nil	22	60	70	11	Nil	21
Mirpur	15	07	05	15	6	10	09	15	20
Haveli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

State Disaster Management Authority, AJ&K

State Disaster Management Authority

Resources with Rescue 1122

Ambulance	FR Vehicle	Water Bowser	DR Vehicle	Mini FR Vehicles	Scissor Lift	Recovery Vehicle	Cranes	Wheel Loader	Folk lifter
20	19	07	13	12	02	1	03	1	02








State Disaster Management Authority, AJ&K



Preparedness

Available Machinery with Public Sector

Machinery	Mzd	Jhelum Valley	Bhimber	Sudhnuti	Haveli	Rw.kot	Bagh	Neelum	Kotli	Mirpur	Total
JCB Machine	-	-	1	-	-	-	2	-	1	-	3
Wheel Loader	3	3	2	-	2	4	2	-	-	-	16
Excavator	5	-	3	-	1	2	3	-	1	-	15
Dump Truck	3	-	-	-	1	1	1	-	1	2	9
Tractor Trolley	-	-	-	-	2	6	3	-	2	-	13
Ambulance	17	7	-	6	5	13	15	11	23	9	105
Fire Brigade	3	-	-	-	-	2	1	-	-	-	6
Dozer	-	1	-	3	2	3	1	6	-	2	18



Preparedness

Available Machinery with Private Sector

Machinery	Mzd	Jhelum Valley	Bhimber	Sudhnuti	Haveli	Rw.kot	Bagh	Neelum	Kotli	Mirpur	Total
Wheel Loaders	8	1	1	-	-	-	2	-	-	-	12
Excavators	27	4	2	-	-	5	13	14	10	-	75
Dump Trucks	12	-	1	-	-	-	-	-	-	-	13
Tractor Trolleys	8	-	-	-	-	-	15	-	20	-	43
Ambulances	23	3	20	10	8	2	10	10	50	40	176
Chain Dozers	-	-	1	-	-	3	2	-	-	-	6



De-Silting/Clearance of Storm Water Drains

- ❑ **De-Silting/Clearance of Storm water drains**
 - Mass clearance campaign launched in all ten districts before monsoon
 - De- Silting of major nullahs particularly in municipality area has been completed



State Disaster Management Authority, AJ&K

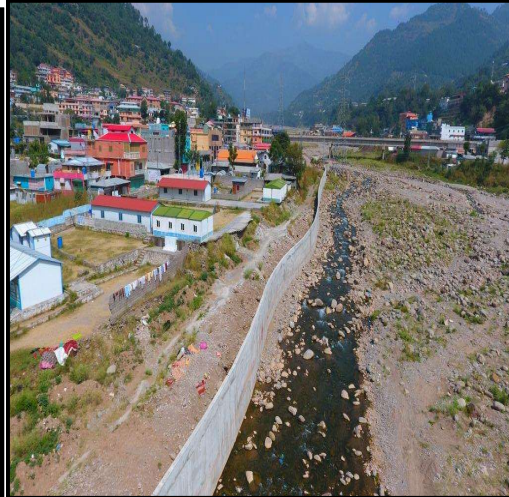
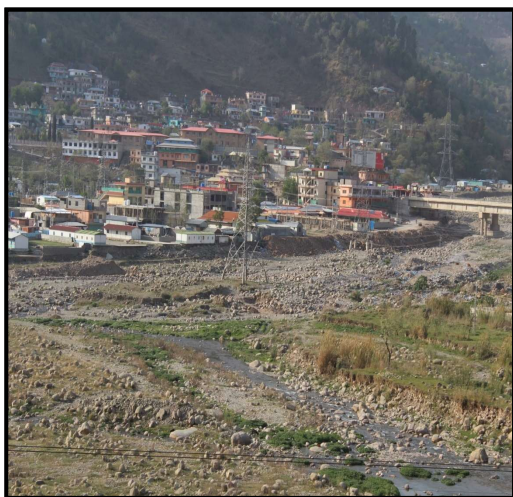


Flood Protection Work

Bani Pasari

Before

After



Flood Protection Retaining Wall

State Disaster Management Authority, AJ&K

State Disaster Management Authority

Mong Bajri

Before **After**

Flood Protection Wall

State Disaster Management Authority, AJ&K

State Disaster Management Authority

Chatter-II

Before **After**


Flood Protection Wall

State Disaster Management Authority, AJ&K

State Disaster Management Authority

Bhimber Nullah

Before After



Apron for Existing Wall

State Disaster Management Authority, AJ&K

State Disaster Management Authority

Forests

Before After



Construction of Protection Walls

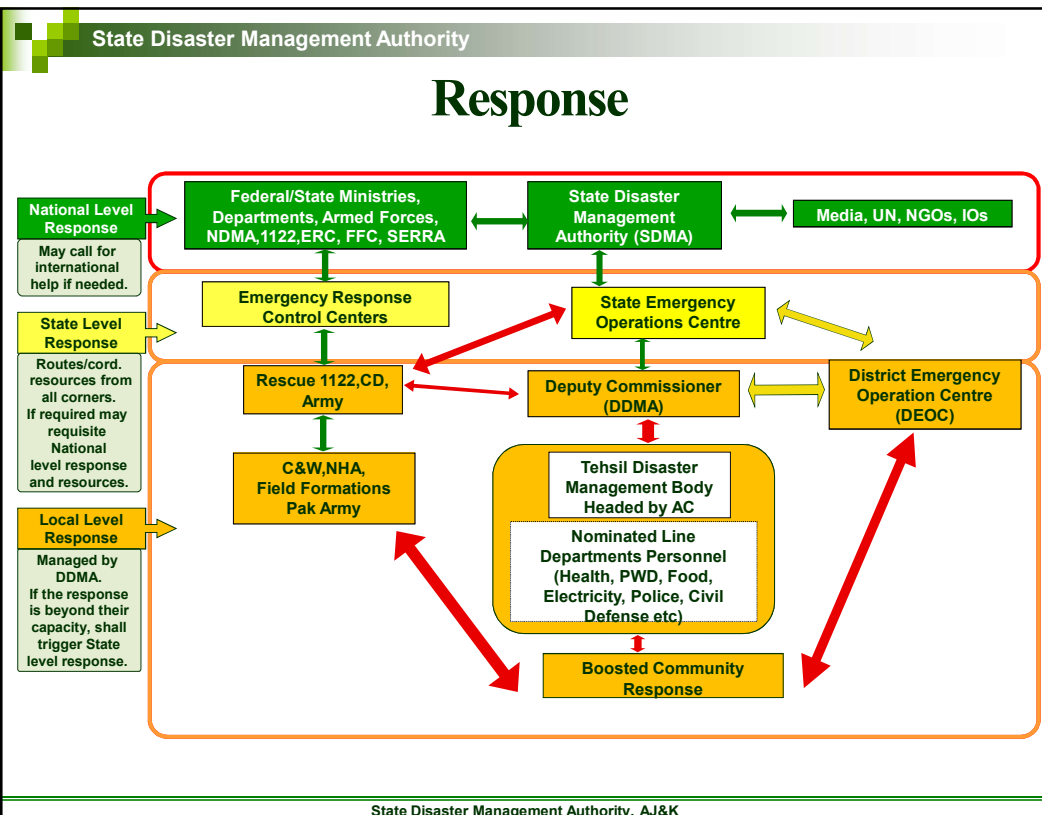
State Disaster Management Authority, AJ&K

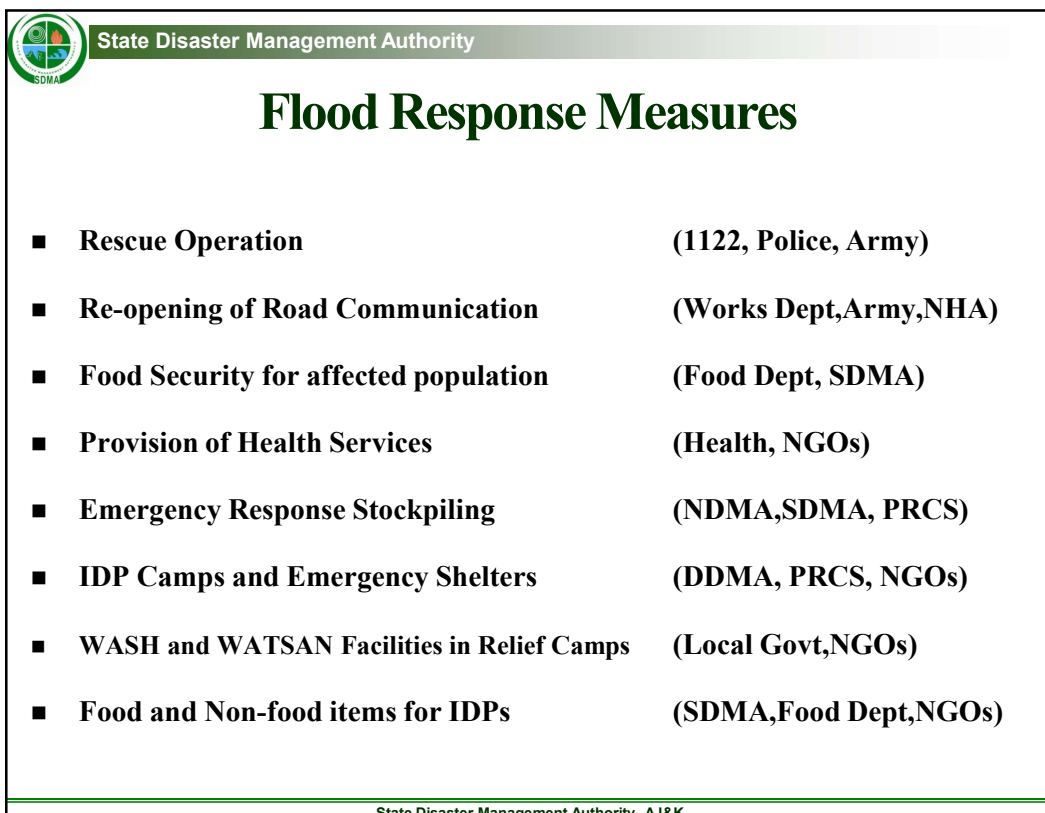
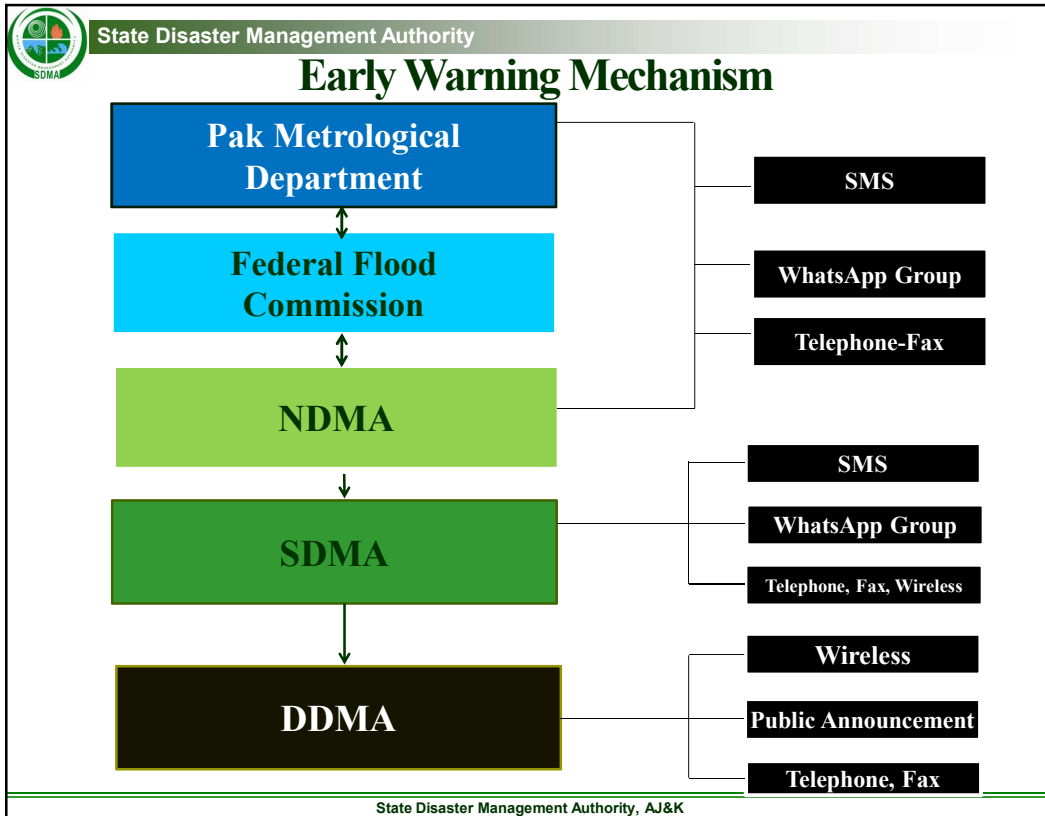


Response

Coordination and Operation

- SDMA to play a lead role during monsoon emergency in AJK - focal point for coordination
- State level Emergency Operation Center (SEOC) will remain operational 24/07 for coordination among all the districts
- SEOC to keep close contact with Pakistan MET department, NDMA, Pakistan Army, UN agencies, Red Crescent and all other concerned stakeholders
- District control rooms have been established by DDMA's and will remain operational round the clock
- All the departments have their own contingency plans & control rooms







Roles and Responsibilities of Stakeholders

SDMA	<ul style="list-style-type: none"> • Coordination with NDMA/Federal Govt. entities and Allied Departments NGOs/INGOs • Provision of Logistic Support to all DDMA s • To ensure follow ups and monitoring of emergency response activities
District Administration/ DDMA s	<ul style="list-style-type: none"> • To ensure effective dissemination of Early Warnings, Evacuation of affected/distressed population • Camp Management • Provision of Food & Non Food Items in the camps • Coordination with relevant departments for timely clearing of roads and communication facilities • To ensure provision of essential services including health and relief services
Pakistan Army	<ul style="list-style-type: none"> • To extend support in search & rescue operations • Clearance & Rehabilitation of Road communications when and where ever their support is needed
Health Department	<ul style="list-style-type: none"> • To ensure First Aid, all preventive measures and provision of medicines • Establishment of Medical Camps and provision of Ambulance Service
Civil Defence/ Rescue 1122	<ul style="list-style-type: none"> • Fire Fighting, Search & Rescue operations by utilizing capacity of Municipalities and Development Authorities in case of emergency spill over • Establishment of Flood Emergency Control Cell in respective districts • Keeping the volunteers on alert

Cont.



Roles and Responsibilities of Stakeholders

• Police	<ul style="list-style-type: none"> • Maintenance of Law & Order Situation • To support in Dissemination of Early Warnings by DDMA s • Assist the Search and Rescue operations
• C &W	<ul style="list-style-type: none"> • Clearance & Rehabilitation of Roads & Removal of Debris/Slides
• NHA /FWO	<ul style="list-style-type: none"> • Clearance of slides and Rehabilitation of Road communications under their operation and control
• Electricity Department	<ul style="list-style-type: none"> • Maintenance of power transmission lines to ensure un-interrupted electricity supply
• Education Department	<ul style="list-style-type: none"> • Provision of School Buildings for temporary setting up of IDPs camps
• UN/INGOs/NGOs	<ul style="list-style-type: none"> • To coordinate and provide active support to SDMA for assessment and evacuation of vulnerable families • Provision of Food & NFIs, Tents & Medicines • Provision of WASH & WATSAN Facilities for IDPs • To ensure all types of humanitarian assistance as per mandate and resource availability

Cont.

Roles and Responsibilities of Stakeholders

Food Department	<ul style="list-style-type: none"> • Keeping stock of wheat available as per the requirement at various places in the State
Information Department	<ul style="list-style-type: none"> • Broadcast advance warnings to sensitize the public • Guide the public about the nearby safer places, routes and other precautionary measures • Publication of the flood-related reports on daily-basis in the local, regional and national newspapers • Arrange press briefings/press conferences for any officer/official
Local Government & Rural Development Department	<ul style="list-style-type: none"> • Arrange potable drinking water and sanitation facilities for flood affected areas • Arrange for the removal of carcasses and debris after floods • Immediate restoration of water supply, sanitation, cause ways, culverts, links roads, street lights and public latrines • Coordinate with humanitarian agencies i.e, INGOs, NGOs and UN agencies to make up the short falls • Arrange for requisite Water and Sanitation in all the earmarked evacuation centers in coordination with education department
Board of Revenue	<ul style="list-style-type: none"> • Recovery Need Assessment • Damage Need Assessment • Coordination for early recovery & rehabilitation



Challenges

- Unpredicted Monsoon Pattern
- Cloud Burst Phenomenon
- Difficult Terrain
- Resource Constraints
- Accessibility/mobility



Way forward

- **Improvement in early warning system**
- **Mass awareness strategies**
- **Capacity building (structural & non structural) towards climate induced disasters**
- **Availability of stand by Helicopter**

A large graphic with a green gradient background and a dark green horizontal band. The words 'THANK YOU' are written in white, bold, serif capital letters on the dark green band. To the left of the band, there are several overlapping squares in various shades of green, creating a staircase-like effect.

THANK YOU