



TECHNOLOGY DEMONSTRATION COMPONENT

MONSOON ACTION PLAN - 2015

Village Level Contingency Plans for Climate Resilient Agriculture



Technology Demonstration Component
National Innovations in Climate Resilient Agriculture (NICRA)
ICAR-Central Research Institute for Dryland Agriculture, Hyderabad
Natural Resource Management Division
Indian Council of Agricultural Research (ICAR), New Delhi



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About the Plans.....

In the review-cum-action plan preparation workshops held at all the 8 Zonal Project Directorates during April - May, 2015, it was decided to chalk out the Monsoon Action Plan for NICRA villages. This is to be done immediately after the second stage forecast is announced by the India Meteorological Department (IMD) in the first week of June. The revised IMD forecast calls for enhanced preparedness for the ensuing *kharif* season in view of the prediction for a below normal monsoon (88% of the long period average) that is likely to affect agriculture in several parts of the country.

The Technology Demonstration Component of NICRA, implemented by 121 Krishi Vigyan Kendras (KVKs), addresses climate vulnerabilities in identified target districts spread across the country. Among these, 50 drought-prone districts have been identified in 17 States. The monsoon action plan essentially deals with village level contingency measures in field crops to tackle likely scenarios of delay in onset of monsoon and deficit rainfall situations. The contingency plan for the normal crops in the village entails demonstration of short duration varieties of the main crop in case of delay in planting, and demonstration of alternate crop in case of delay beyond cutoff sowing date for e.g., 15th July or later. Also, to cope with deficit rainfall conditions, demonstration of several drought proofing contingency measures related to crop, soil-moisture, nutrient and water management are included in the plans. Drought in rainfed areas often results in shortage of fodder for livestock. The plans also cover fodder production strategy to be implemented in the adopted village. In the event of any *kharif* unsown areas leftover in the village, an early *rabi* crop plan is prepared for implementation to compensate for the loss in production during *kharif*.

Drought in agriculture is an unfolding situation depending upon the onset and progress of the monsoon. NICRA KVKs will implement the village level contingency plan for drought depending upon the likely scenario that will be experienced at the village level in real time. Availability of inputs such as seed of short duration varieties and other inputs is to be ensured. Some of the drought proofing measures such as *in-situ* moisture conservation and rainwater harvesting practices will be implemented as part of preparedness at or before the sowing time, respectively. The NICRA KVKs have been advised to prioritize the technology interventions to focus on building climate resilience in farming and strengthening coping ability of farmers during *kharif* 2015 season. Appropriate and focused advisories may be prepared and disseminated so as to reach the farmers in time to cope with various contingent situations.

We acknowledge the timely cooperation extended by the Zonal Project Directors, Nodal Officers at ZPDs and all NICRA KVKs for developing the village level contingency plans for implementation in the ensuing *kharif* season. We are grateful for the constant guidance and support received from NICRA Team, Dr. A.K. Sikka, DDG (Natural Resource Management) and Dr. A.K. Singh, DDG (Agricultural Extension), ICAR.

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Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Ahmednagar
State	: Maharashtra
Name of Village	: Nirmal Pimpri, Pimpri Lokai
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 2 nd week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Soybean	Nirmal pimpri: 430 Pimpri lokai: 120	2 nd week of June to 2 nd week of July	Soybean- JS 95-60, JS 93-05	<u>End of July</u> Soybean (JS 95-60, JS 93-05)
Pearl millet	Nirmal pimpri: 400 Pimpri lokai: 260	2 nd week of June to 2 nd week of July	Hybrids	-
Fodder crops: Pearl millet/ Sorghum/ Maize	Nirmal pimpri: 700 Pimpri lokai: 60	2 nd week of June to 2 nd week of July	Fodder Pearl millet (first cutting at 55 days)	<ul style="list-style-type: none"> • Fodder Sorghum (Sugargraze) • Fodder Maize (African tall) • Fodder Pearl millet
Cotton	Pimpri lokai: 40	2 nd week of June to 2 nd week of July	Hybrids	<u>After 15th July</u> Soybean (JS 95-60, JS 93-05)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Soybean	Soybean (JS-93-05/95-60) + Pearl millet (Hybrids) (4:2) Soybean (JS-93-05/95-60) + Pigeonpea (Vipula) (3:1/6:2)
	Pearl millet	Pearl millet + Moth bean (mixed cropping)
	Cotton	Cotton + Soybean/ Greengram/ Blackgram
Soil moisture management (<i>in situ</i> conservation practices)	Soybean/ Pearl millet/ Cotton	Open conservation furrow after every 4-5 rows
Nutrient management (foliar nutrient sprays etc.)	Soybean/ Pearl millet	Foliar application of 19:19:19 @ 0.5%
	Cotton	Foliar application potassium nitrate @ 1%
Water management (Life saving irrigation from harvested water)	Soybean/ Pearl millet	Protective irrigation through sprinklers

3. List of fodder management demonstrations for livestock in contingency situations

- Giant Pearl millet (Nutrifeed)
- Fodder Sorghum (Sugargraze, local)
- Fodder Maize (African Tall)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Fodder crops (Giant Pearl millet, Fodder Sorghum, Fodder Maize) in September; Rabi Sorghum

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Amravati
State	: Maharashtra
Name of Village	: Takali (BK)
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 2 nd week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Soybean	356	2 nd week of June to 2 nd week of July	Soybean: JS-95-60, (80-85 days) JS-93-05 (90 days)	<ul style="list-style-type: none"> Pigeonpea (BSMR-736, BSMR-853)
Cotton Irrigated	38	3 rd week of May to last week of June	Bt-Cotton hybrids	<ul style="list-style-type: none"> PKV Suvarna NCS -145
Cotton Rainfed	220	2 nd week of June to 2 nd week of July	Hybrids	<ul style="list-style-type: none"> PKV Suvarna NCS -145
Pigeonpea	62	2 nd week of June to 2 nd week of July	Pigeonpea (BSMR-736, BSMR-853)	<ul style="list-style-type: none"> Pigeonpea (BSMR-853) Sesame (N-8/ALT-64)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Soybean	<ul style="list-style-type: none"> Soybean (JS-93-05) + Pigeonpea (BSMR-736) (4:2) Soybean (JS-93-05) + Sorghum (CHS-14) + Pigeonpea (6:2:1) or (9:2:1)
	Cotton	<ul style="list-style-type: none"> Border crop (Pigeonpea) (BSMR-736) Cotton + Sorghum (CHS-14) + Pigeonpea (BSMR-736) + Sorghum (CHS-14)(3:1:1:1)
Soil moisture management (in situ conservation practices)	Soybean	<ul style="list-style-type: none"> Planting methods (Ridge & furrow, Broad bed furrow, Strip cropping) Sowing across the slope Open conservation furrow
Nutrient management (foliar nutrient sprays etc.)	Cotton	<ul style="list-style-type: none"> Foliar spray of 2% urea at the time of flowering & 2% DAP at the time of boll formation Foliar spray of 2% urea at the time of flowering & 1% urea + 1% magnesium sulphate during boll formation
	Soybean	<ul style="list-style-type: none"> Foliar spray of 2% urea during 50-70 DAS
Water management (Life saving irrigation from harvested water)	Soybean	<ul style="list-style-type: none"> Protective irrigation through sprinklers from harvested water in open wells & farm ponds
	Cotton	<ul style="list-style-type: none"> Protective irrigation through drip from open wells

3. List of fodder management demonstrations for livestock in contingency situations August/ September

- Fodder Sorghum (CSH-4) in 10 ha
 - Fodder Maize (African Tall) in 14.5 ha
- Annual fodder
- Hybrid Napier (Yashwant-Jaywant) in 5 ha

4. Early rabi crop plan for demonstration (for planting in kharif unsown areas during August/ September in the village)

- Ajwan (Lam selection) in 10 ha
- Mustard (Pusa Shatabdi) in 50 ha
- Onion(Baswant-780 & Bhima Subhra) in 10 ha

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Amreli
State	: Gujarat
Name of Village	: Karjala
Climate vulnerability	: Drought & salinity
Normal onset of Monsoon (date) at the location	: 1 st fortnight of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Cotton	546	2 nd week of June to 2 nd week of July	Bt. Variety (G.Cot.8 BT)	<ul style="list-style-type: none"> • Blackgram (T-9) • Greengram (GM-4)
Bajra	29	2 nd week of June to 2 nd week of July	Sorghum (Gundri)	<ul style="list-style-type: none"> • Blackgram (T-9) • Greengram (GM-4, PurvaTil-1)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Cotton	Cotton (G.Cot.8 BT) + Soybean (GS-3)
Soil moisture management (<i>in situ</i> conservation practices)	Cotton	Interculture
Nutrient management (foliar nutrient sprays etc.)	Cotton	Foliar spray of 2% urea
Water management (Life saving irrigation from harvested water)	Cotton	Protective irrigation through drip

3. List of fodder management demonstrations for livestock in contingency situations

- Sorghum (Gundri) , Fodder Pearl millet

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Sesame (Purva-1), Fodder Sorghum (Gundri)

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Anantapur
State	: Andhra Pradesh
Name of Village	: Chamaluru
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 15 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Groundnut + Pigeonpea	460	June 2 nd fortnight - July	Groundnut (K-6, Dharani)	<u>After July 15th</u> • Setaria (Suryanandi) • Pigeonpea (close spacing)
Castor	70	June	PCH-111, DCH-177, DCH-519	<u>After August</u> • Yellow sorghum (AJ 141)
Pigeonpea	30	June	LRG-41, PRG-158	• Guar gum (HG-365) <u>September</u> • Yellow sorghum (AJ 141) • Horsegram

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Groundnut	• Groundnut + Pigeonpea • Intercultivation with <i>danthi</i> in Groundnut • Thinning in Pigeonpea
Soil moisture management (<i>in situ</i> conservation practices)	Groundnut, Pigeonpea, Castor	• Conservation furrows at 3.6 m interval • Chisel plough in Groundnut + Pigeonpea & Castor(before sowing)
Nutrient management (foliar nutrient sprays etc.)	Groundnut	Foliar Spray of urea @2 %
Water management (Life saving irrigation from harvested water)	Groundnut	Protective irrigation with sprinklers

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Sorghum (Co FS-29)
- Fodder Pearl millet (Co-4)
- APBN fodder slips

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Yellow Sorghum, Guar, Greengram in August
- Horsegram in September

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Aurangabad
State	: Bihar
Name of Village	: Harigaon
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 15 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Paddy	78	1 st week of July to 1 st week of August	Sahbhagi (115 to 120 days), Susk Samrat (110 to 115 days), Ardhjal (90 to 100 days)	<u>After 15th August</u> <ul style="list-style-type: none"> • Blackgram (Navin) • Sesame (Kankesafed, Sekhar)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Paddy	Staggered community nursery (Sahbhagi)
Soil moisture management (<i>in situ</i> conservation practices)	-	-
Nutrient management (foliar nutrient sprays etc.)	Paddy	Foliar spray of urea 2% in dry spells
Water management (Life saving irrigation from harvested water)	Paddy	Life saving irrigation at critical stages

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Maize
- Fodder Sorghum
- Cowpea

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Blackgram (Urd) in August
- Horsegram (Kulthi) in August
- Toria (PT 303, RAU TS 17) in September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Aurangabad
State	: Maharashtra
Name of Village	: Shekta
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 2 nd week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Soybean	15	2 nd week of June to 3 rd week of July	MAUS -158, MAUS-162 (95-98 days)	MAUS-71, JS-335
Pigeonpea	16	2 nd week of June to last week of July	BDN-711(150-160 days)	BDN-711(150-160 days)
Greengram	10	Till June end	BM-2002-1, BM-2003-2 (65-70 days)	Pearl millet (ABPS-4-3, Shradha, Saburi, PPC-6)
Cotton	226	2 nd week of June to 2 nd week of July	Suraj, NH-615, PA-08, PA-255, & all Bt Cotton hybrids	Suraj, NH-615 and short duration Bt hybrids (less than 150 days)
Maize	50	2 nd week of June to 2 nd week of July	Maharaja, Pinnacle, Yuvraj	Yuvraj, Surya, Kiran, Arun (80-90 days)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Soybean	• Soybean + Pigeonpea (4:2)
	Pigeonpea	• Pigeonpea + Pearl millet (4:2)
	Cotton	• Cotton + Greengram/Blackgram (4:2)
Soil moisture management (<i>in situ</i> conservation practices)	Soybean	• Broad bed furrow method
	Cotton, Pigeonpea	• Opening of furrows in alternate row of Bt Cotton & Pigeonpea
Nutrient management (foliar nutrient sprays etc.)	Soybean, Pigeonpea	• Foliar spray of 2% urea
	Greengram	• Foliar spray of 1 % potassium nitrate
Water management (Life saving irrigation from harvested water)	Pigeonpea, Pomegranate, Sweet Orange	• Protective irrigation through sprinkler • Organic mulching

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Pearl millet
- Hybrid Napier (DNH-10)
- Fodder Maize (African Tall)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Maize
- Rabi Sorghum
- Potato
- Vegetables (Tomato, Chili, Brinjal)

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Balaghat
State	: Madhya Pradesh
Name of Village	: Koste
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 15 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Paddy	138	2 nd week of June to 2 nd week of July	<u>Upland</u> Danteshwari & Sahbhagi (95-100 days) <u>Medium lowland</u> MTU-1010 (115-120 days)	<u>2nd week of July</u> Maize in uplands
Pigeonpea	12	2 nd week of July to 1 st week of August	<u>Upland</u> Pigeonpea short duration variety (TJT-501)	<ul style="list-style-type: none"> • Colocassia (Desi) • Blackgram (Pant 31)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Paddy	Community nursery (JRH-5)
		Direct Seeded Rice, line showing in uplands
Soil moisture management (<i>in situ</i> conservation practices)	-	-
Nutrient management (foliar nutrient sprays etc.)	Paddy	Foliar spray of 2% urea in community nursery
Water management (Life saving irrigation from harvested water)	Paddy	Protective irrigation

3. List of fodder management demonstrations for livestock in contingency situations

August/ September

- Maize (African Tall)
- Sorghum (MP Chari)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Potato (Kufri chipsona, 90-110 days) in September
- Mustard (Narendra Ageti Rai-4, 100-105 days) in September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Banaskantha
State	: Gujarat
Name of Village	: Fatepura
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 20 th to 25 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Groundnut	48	2 nd week of June to 4 th week of June	GG-2 (105 days), GG-11 (105 days), TG-37 A	<ul style="list-style-type: none"> • Blackgram (Guj.1) • Cluster bean (Guj.2)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Groundnut (GG-20)	<ul style="list-style-type: none"> • Groundnut (GG20) + Blackgram (2:2)
Soil moisture management (<i>in situ</i> conservation practices)	Groundnut (GG-20)	<ul style="list-style-type: none"> • Interculturing before peg formation
Nutrient management (foliar nutrient sprays etc.)	Groundnut Blackgram Cluster bean	<ul style="list-style-type: none"> • 2% NPK Foliar spray • Foliar spray of 2% urea. • 125kg gypsum/ ha basal application.
Water management (Life saving irrigation from harvested water)	Groundnut	<ul style="list-style-type: none"> • One irrigation through sprinkler

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Sorghum (Malvan muticut Sorghum)
- Napier hybrid
- Fodder Maize (African tall)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Amaranthus (Guj.1 & Guj.2)
- Potato (K.Badshah, Pukharaj)
- Mustard (GDM-4)

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Banka
State	: Bihar
Name of Village	: Mehra
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 2 nd week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Paddy	40	June 2 nd week to 1 st week of August	Sabour Ardhjal, Sahbhagi	Pigeonpea, Sesame
Maize	10	June last week to July	Hybrid	<ul style="list-style-type: none"> • Greengram (Samrat, SML 668) • Blackgram (Utara IPU 94-1)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Pigeonpea, Maize, Jute, Paddy	<ul style="list-style-type: none"> • Pigeonpea + Maize + Jute • Direct Seeded Rice (Sahbhagi, Sabour Ardhjal) • Staggered community nursery
Soil moisture management (<i>in situ</i> conservation practices)	Pigeonpea	<ul style="list-style-type: none"> • Cluster bean
Nutrient management (foliar nutrient sprays etc.)	Paddy, Pearl millet	<ul style="list-style-type: none"> • Foliar spray of 2% urea • Foliar spray of thiourea
Water management (Life saving irrigation from harvested water)	-	-

3. List of fodder management demonstrations for livestock in contingency situations

- Pearl millet, Guinea grass, Napier grass, Berseem, Cluster bean (RGC 1003, 1017)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during Aug/ Sept in the village)

- Kulthi in August
- Safflower in September
- Toria (Panchali) in September
- Mustard (Narendra Ageti Rai-4) in September
- Potato (Kufri chipsona) in September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Baramati (Pune)
State	: Maharashtra
Name of Village	: Jalgaon KP
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 7 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Pearl millet	87	June 1 st week to 2 nd week of July	ICTP-8203, Shradha, Saburi, Shanti	Pigeonpea (Vipula, ICPL87), Sunflower (MFSH-17), Onion (Bhima Super, Phule Samartha)
Maize	60	June 1 st week to 4 th week of July	African tall (Rajashree)	No change
Onion	27	June 1 st week to 4 th week of July	Bhima Super, Phule Samartha	No change
Greengram	5	June 1 st week to 4 th week of June	Phule Vaibhav	Pigeonpea (Vipula, ICPL87), Sunflower (MFSH_17), Onion (Bhima super, Phule Samartha)
Pigeonpea	5	June 1 st week to 2 nd week of July	Vipula, ICPL-87	No change

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management	Pearl millet	• Pearl millet (ICTP-8203) + Sunflower (Ganga Kaveri) 2:1
	Sunflower (Bhanu)	• Hoeing and weeding in sunflower at 20 DAS
	Pigeonpea (Vipula)	• Hoeing and weeding at 20 DAS • Opening of conservation furrows after every two rows
	Pigeonpea	• Transplanting of 21 days old seedlings
Soil moisture management (<i>in situ</i> conservation practices)	<i>Rabi</i> sorghum	• Compartmental bunding (flat beds of 10 X 10 m) for moisture conservation
	Onion	• Broad bed furrow planting with BBF Planter and transplanting of seedlings by ridge and furrow method
	Greengram	• BBF Planting and sprinkler irrigation
Water management	Sorghum	• Foliar application of 0.5% NPK (13:0:45) during dry spell for Phule Anuradha
	Onion	• Foliar application of 2 % urea
	Greengram	• Foliar spray of 1 % potassium nitrate
Water management	Onion	• Sprinkler irrigation

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Maize (P-3502, African tall) in August
- Silage making
- Multi-cut Pearl millet (Giant Bajra)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Demonstration of Sorghum varieties as per soil type e.g. Phule Anuradha in shallow soils
- Phule Vasudha in medium soils
- Phule Vasudha, Phule Revati in heavy soils
- Phule Vasudha in medium irrigated soils
- Safflower (Bhima), early *rabi* Onion (Bhima Super)

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Barmer
State	: Rajasthan
Name of Village	: Garal Sujan Singh Sutharo Ka Talla
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 1 st week of July

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Pearl millet	900	1 st week of July to 15 th July	Pearl millet (HHB IMP 67, RHB 171, RHB 177, PROAGRO 9444, RHB-173, MPMH-17)	<ul style="list-style-type: none"> Cluster bean (RGC 1013, RGC 1017) Greengram (GM 4, IPM 02-03)
Cluster bean	210	1 st July to end of July	Cluster bean (RGC 1013, RGC 1017, RGC-1038, RGC-1055, GG-2, RGC-1066)	<ul style="list-style-type: none"> Cluster bean (RGC 1013, RGC 1017, RGC-1066)
Greengram	125	1 st July to end of July	Greengram (GM 4, IPM 02-03)	<ul style="list-style-type: none"> Greengram (GM 4)
Moth bean	325	1 st July to end of July	Moth bean (RMO 435, RMO 423, CAZRI moth 2)	<ul style="list-style-type: none"> Moth bean (RMO 40)
Sesame	40	1 st week of July to 15 th July	Sesame (RT 125, RT 127)	<ul style="list-style-type: none"> Moth bean (RMO 40) Cluster bean (RGC 1017)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Pulses	Greengram/ Moth bean + Cluster bean
Soil moisture management (<i>in situ</i> conservation practices)	Pearl millet, Greengram, Moth bean, Cluster bean	Weeding with rubber wheel hoe
Nutrient management (foliar nutrient sprays etc.)	Pearl millet, Greengram, Cluster bean	Foliar spray of 1-2% urea+ 0.5 % ZnSo ₄
Water management (Life saving irrigation from harvested water)	Pearl millet	Protective irrigation through sprinklers

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Pearl millet (Raj-171, RHB-177)
- Cluster bean (RGC-1002, RGC-1003) for fodder purpose
- Pearl millet + Moth bean (with 25% higher seed rate of 8-10 kg N/ha at 15-20 DAS after receipt of rainfall)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Bathinda
State	: Punjab
Name of Village	: Killi Nihal Singh
Climate vulnerability	: Drought, Heat wave
Normal onset of Monsoon (date) at the location	: 29 th June 2015

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Basmati	500	Second week of July (in case of DSR 1 st week of July)	Pusa Basmati-1509, Pusa Basmati-1121	Greengram (ML-911 & ML-818)
Paddy	170	15-25 th June for transplanting, in case of DSR 25 May to 15 th June	PR-124, PR-111	Direct seeding of Pusa Basmati-1509
Cotton	122	3 rd week of April	Ankur-3028, FMDH-9, FDK-124	-
Guar	12	1 st week of July	HG-365	Maize (J-1006)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Soil moisture management (water management)	Basmati & Paddy	Use of tensiometers for judicious use of water
Nutrient management (foliar nutrient sprays etc.)	Cotton	Four foliar sprays of potassium nitrate (2%)
Water management (Life saving irrigation from harvested water)	Basmati	DSR

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Maize (J-1006)
- Ryegrass (Punjab Ryegrass No.1)
- Berseem (BL-10, BL-1, BL-42) (*rabi*)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Toria (TL-17, PBT-37)
- Fodder Maize (J-1006)

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Belagavi
State	: Karnataka
Name of Village	: Yadagud
Climate vulnerability	: Drought and Heat wave
Normal onset of Monsoon (date) at the location	: June 1 st week

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Soybean	87	1 st week of June to 2 nd week of July	JS-335	<ul style="list-style-type: none"> • Pigeonpea (TS-3R) • Horsegram (GPM-6) • Cowpea (C-152)
Maize	25	3 rd week of June to 2 nd week of July	ICTP-818	<u>After 15th August:</u> <ul style="list-style-type: none"> • Spreading groundnut (Pandichari-8)
Groundnut	11	2 nd week of June to 2 nd week of July	TMV-2, GPBD-4	Sunflower (KBSH-44)
Sorghum	17	2 nd week of June to 2 nd week of July	DSV-2	Horsegram (GPM-6)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Maize	Maize (ICTP-818) + Soybean (JS-335) (1:2)
	Pigeonpea	Foxtail millet (PS-4) + Pigeonpea(TS-3R) (2:1)
Soil moisture management (<i>in situ</i> conservation practices)	Sorghum, Foxtail millet	Compartmental bunding
Nutrient management (foliar nutrient sprays etc.)	Sorghum	Foliar spray of 2% urea
	Foxtail millet	Foliar spray of thiourea @ 1000 ppm
Water management (Life saving irrigation from harvested water)	Soybean and Pigeonpea	Protective irrigation through drip

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Sorghum (MP Chary)
- Fodder Maize (African Tall)
- Hybrid Napier (APBN-1)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Horsegram (CRIDA-18R/GPM-6) in August
- Maize (Arjun) in September
- Fodder Maize (African Tall) in August
- Fodder Horsegram (Dhinanatha) in August
- Spreading Groundnut (Pandichary-8) in August

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Bhatapara
State	: Chhattisgarh
Name of Village	: Bakulahi
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 15 th to 20 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Rice	63	3 rd to 4 th week of June	Indira Barani Dhan-1, Samleshwari, MTU-1010	Drum seeding

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Rice	<ul style="list-style-type: none"> • Summer deep Ploughing • Direct Seeded Rice. • Drum seeding of sprouted seed • Use of post emergence herbicide to control weeds in DSR
Soil moisture management (<i>in situ</i> conservation practices)	Rice	-
Nutrient management (foliar nutrient sprays etc.)	Rice	<ul style="list-style-type: none"> • Use of neem coated Urea • Foliar spray of 2% Urea • Foliar spray of PPFM during dry spell
Water management (Life saving irrigation from harvested water)	Rice	<ul style="list-style-type: none"> • Protective irrigation through Sprinklers

3. List of fodder management demonstrations for livestock in contingency situations

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4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Rabi Pigeonpea in September.
- Sowing of Wheat, Lathyrus through Zero till seed cum ferti drill.

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Chatra
State	: Jharkhand
Name of Village	: Mardanpur
Climate vulnerability	: Drought, Heat wave
Normal onset of Monsoon (date) at the location	: 15 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Rice	420	Last week of June to end of July	Anjali, Bandana, Abhishek, Lalat, Sahbhagi dhan	<ul style="list-style-type: none"> • Direct seeded Rice (Abishek) • Aerobic rice cultivation • Sweet Potato (Shree Bhadra) • Finger millet
Maize	120	15 th June to 15 th July	Birsa Makka 1 Birsa Makka 2	<ul style="list-style-type: none"> • Niger (Birsa niger 1 and Birsa Niger 2) • Blackgram (Birsa Kulthi 1)
Pigeonpea	60	15 th June to 15 th July	Narendar arhar-1 Narendar arhar-2	-
Vegetable (Tomato)	24	Last week of July to end of August	Rohit	-

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Rice	<ul style="list-style-type: none"> • Rice + Pigeonpea • Direct Seeded Rice (Abishek) • Aerobic rice cultivation • Staggered community nursery raising
	Maize	<ul style="list-style-type: none"> • Maize + Pigeonpea • Maize + Bhendi
Soil moisture management (<i>in situ</i> conservation practices)	Rice, Maize, Vegetable	<ul style="list-style-type: none"> • Bunding • Mulching
Nutrient management (foliar nutrient sprays etc.)	Rice	<ul style="list-style-type: none"> • Foliar spray of 2% Urea in nursery
Water management (Life saving irrigation from harvested water)	Rice	<ul style="list-style-type: none"> • Protective irrigation through pond/well for nursery • Protective irrigation through sprinklers, drip in vegetable crop

3. List of fodder management demonstrations for livestock in contingency situations

- Maize (African Tall)
- Sudan grass

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Niger (Birsa niger 1 and 2)
- Toria (Siwani)
- Kulthi (Birsa Kulthi 1)
- Vegetable (Tomato, Brinjal, Cauliflower (Irrigated area))
- Potato (Irrigated area)

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Chhatarpur
State	: Madhya Pradesh
Name of Village	: Chaukhda
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 15 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Soybean	10	2 nd week of June to 2 nd week of July	JS-9560,	Blackgram (Azad-3) Sesame (TKG-55)
Blackgram	42	2 nd week of June to 1 st week of August	PU-35	-
Sesame	57	2 nd week of June to 1 st week of August	JTS-8	-
Groundnut	26	2 nd week of June to 2 nd week of July	TG 37A	Blackgram (Azad-3) Sesame- TKG-55

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Soybean	Soybean (JS-9560) + Pigeonpea (JKM- 189)
Soil moisture management (<i>in situ</i> conservation practices)	Soybean, Blackgram	Ridge furrow method
Nutrient management (foliar nutrient sprays etc.)	-	-
Water management (Life saving irrigation from harvested water)	Groundnut	Protective irrigation through Sprinklers

3. List of fodder management demonstrations for livestock in contingency situations

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4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Mustard (Pusa Agrani)

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Chikkaballapura
State	: Karnataka
Name of Village	: S. Raghuttahalli
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 2 nd week of July

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Groundnut + Pigeonpea	36	May 2 nd week to June 3 rd week	BRG2 Pigeonpea variety from 4 th week of June to 3 rd week of July	Horsegram / Cowpea after July 4 th week
Finger millet	4	2 nd week of July	GPU-48 till 2 nd week of August	Horsegram / cowpea after August

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Finger millet	<ul style="list-style-type: none"> Staggered nursery with short duration varieties (GPU 48)
Soil moisture management (<i>in situ</i> conservation practices)	Pigeonpea	<ul style="list-style-type: none"> Opening of conservation furrow at intervals. Trenching along the bunds to conserve rainwater
Nutrient management (foliar nutrient sprays etc.)	Pigeonpea	<ul style="list-style-type: none"> Foliar spray of DAP (2%)/ 19:19:19 (2%)
Water management (Life saving irrigation from harvested water)	Finger millet, Pigeonpea	<ul style="list-style-type: none"> Protective irrigation with sprinkler

3. List of fodder management demonstrations for livestock in contingency situations

- CO4 perennial grass
- Dry fodder protection by covering stacks with tarpaulin sheets.

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Cowpea
- Horsegram
- Field bean

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Chitrakoot
State	: Uttar Pradesh
Name of Village	: Titihara
Climate vulnerability	: Drought and Heat wave
Normal onset of Monsoon (date) at the location	: 26 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Greengram	22	1 st week of July to 3 rd week of July	PDM-139 (65-70 days)	Maize (Hybrid)
Sesame	20	1 st week of July to 3 rd week of July	T-4	Pigeonpea (Narendra-1)
Pigeonpea	8	Last week of June	TJT-501 (130-140 days)	Sesame (Pragati)
Rice	8	3 rd and 4 th week of June	Sahbhagi (105-110 days)	Blackgram (Azad-1)
Tomato	1	1 st week of July to 3 rd week of July	Hybrids	Pearl millet (ICTP-8203)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management	Paddy	Sahbhagi
Soil moisture management (<i>in situ</i> conservation practices)	Pigeonpea	Ridge furrow method
Nutrient management (foliar nutrient sprays etc.)	Sorghum	Foliar spray of 2% urea
Water management (Life saving irrigation from harvested water)	Pigeonpea, Rice	Protective irrigation through sprinkler, Stored water in check dam will be used

3. List of fodder management demonstrations for livestock in contingency situations

- Sorghum (Pusa chari-109)
- Perennial grass (Napier)
- Silage preparation in poly bags
- Mineral mixture blocks for feed supplementation

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Ageti rai (Narendra rai-4) (100 to 105 days)
- Veg pea (Arkil) (65 to 75 days)

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	:	Datia
State	:	Madhya Pradesh
Name of Village	:	Sanora, Barodi
Climate vulnerability	:	Drought
Normal onset of Monsoon (date) at the location	:	June last week

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Groundnut	50	Last week of June	JGN 23 (110 days)	Sesame short duration variety (JTS-8)
Blackgram	100	First week of July	IPU-94-1	Blackgram Azad-1
Soybean	40	Last week of June	JS 9560	Pigeonpea short duration variety (ICPL- 88039)
Sesame	80	First week of July	JTS-8	Blackgram + Pigeonpea
Rice	20	Last week of June	PUSA 1509	-

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Soybean Blackgram Groundnut	<ul style="list-style-type: none"> • Short duration variety JS-9560 • Intercropping Blackgram + Sesame • Intercropping Groundnut + Blackgram
Soil moisture management (in situ conservation practices)	Sesame, Blackgram, Pigeonpea Groundnut Rice	<ul style="list-style-type: none"> • Ridge and furrow method • Sowing across the slope • Direct Seeded Rice
Nutrient management (foliar nutrient sprays etc.)	Blackgram Paddy	<ul style="list-style-type: none"> • Foliar spray of 1 % Potassium nitrate • Foliar spray of PPFM during dry spell
Water management (Life saving irrigation from harvested water)	Groundnut and Soybean	<ul style="list-style-type: none"> • Protective irrigation through sprinklers

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Maize (African Tall)
- Napier Bajra hybrid (IGFRI-6)
- Cowpea (UPC-5286)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during Aug/ Sept in the village)

- Toria (JT-1) in September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Davangere
State	: Karnataka
Name of Village	: Siddanuru
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 2 nd Week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Maize	150	1 st to 2 nd week of June	Private hybrids	<ul style="list-style-type: none"> Finger millet (ML-365) Pigeonpea (BRG-2)
Finger millet	10	1 st week of July	GPU-28	<ul style="list-style-type: none"> ML-365

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Maize Finger millet	<ul style="list-style-type: none"> Maize + Pigeonpea (6:2) Finger millet+ Pigeonpea (8:1)
Soil moisture management (<i>in situ</i> conservation practices)	Maize Finger millet	<ul style="list-style-type: none"> Sowing across the slope Maintaining plant population Opening of conservation furrows Live mulching Trench cum bunding
Nutrient management (foliar nutrient sprays etc.)	Maize Finger millet	<ul style="list-style-type: none"> Seed treatment with Bio- fertilizers (Azosprillum 500g/ha for maize and Rhizobium (500 g/ha) for pigeonpea Split application of nitrogenous fertilizers Foliar application of nutrients 19:19:19 and KNO₃ (13:00:45) @ 5g/l of water
Water management (Life saving irrigation from harvested water)	Maize Finger millet	<ul style="list-style-type: none"> Irrigation through Sprinkler from farm ponds/wells Alternative furrow irrigation

3. List of fodder management demonstrations for livestock in contingency situations

- Napier cross

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Finger millet (ML365 and GPU-48)
- Horsegram (PHG-9/CRIDA-18 R) in August
- Field bean (Avare) (HA-4)

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Dimapur
State	: Nagaland
Name of Village	: Dhansiripar
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 30 th May 2015

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Paddy	242.00	2 nd week of June to 2 nd week of August.	<u>Low lands</u> Staggered variety Gitesh (old nursery of 70 days can also be transplanted), <u>Medium lands</u> RCM-5, RCM-9 and RCM-11 (130-135 days)	<u>After 15th August</u> Blackgram (KU-301 & Sesame)
Maize	21.00	2 nd week of May to 2 nd week of July	All Round hybrid	Blackgram (KU-301 & Sesame)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Paddy	Direct sowing
	Paddy	Drum seeding
	Paddy	Transplanting of mature seedlings
	Maize	Re-sowing & Gap filling
Soil moisture management (<i>in situ</i> conservation practices)	Colocassia	Paddy Straw mulching
Nutrient management (foliar nutrient sprays etc.)	-	-
Water management (Life saving irrigation from harvested water)	Maize	Live saving irrigation with sprinkler

3. List of fodder management demonstrations for livestock in contingency situations

- Utilizing fodder from perennial trees.

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Blackgram (KU-301) in the month of August
- Greengram (Pratap) in the month of August
- Toria (TS-38 7 M-27) in the month of September
- Linseed (Parvati, Neelam & Sharda) in the month of September

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Gadag
State	: Karnataka
Name of Village	: Mahalingapur
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 1 st week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Greengram	140	Up to June	Demonstration of DGGV-2 Greengram variety	<ul style="list-style-type: none"> • Demonstration of early duration Greengram (Selection-4) (Up to July 15th) • Maize (Up to August 15th) • Sunflower (Up to August 15th)
Bt. Cotton	130	Up to July 15 th	-	<ul style="list-style-type: none"> • Onion (Arka Kalyan) for delayed sowing up to July 15th • Sunflower • Sesame (DS-5) early duration variety (Up to July 30th)
Groundnut (Bunch)	50	Up to June	Kadiri-9 (Drought tolerant variety)	<ul style="list-style-type: none"> • Groundnut spreading type (JSP-39, early duration variety) • Foxtail millet (DHFt-109-3) (Up to August 30th) • Horsegram (GPM-6 variety) (Up to August/September 30th)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Spreading Groundnut	<ul style="list-style-type: none"> • Spreading Groundnut + Pigeonpea (TS-3R) (5:1) • Maize + Pigeonpea (5:1) • Foxtail millet + Pigeonpea (TS-3R) (3:1)
Soil moisture management (<i>in situ</i> conservation practices)	Greengram	<ul style="list-style-type: none"> • Seed treatment with CaCl₂ at 2% • Compartmental bunding after sowing (25 DAS) • Opening of conservation furrows @ 10 m interval
	Pigeonpea	<ul style="list-style-type: none"> • Seed treatment with CaCl₂ @ 2% • Nipping at 50 DAS • Opening of conservation furrows 30 DAS
	Bunch groundnut	<ul style="list-style-type: none"> • Paired row method of planting • Opening of conservation furrows
	Sunflower	<ul style="list-style-type: none"> • Wider row spacing • Seed treatment with CaCl₂ at 2%
Nutrient management (foliar nutrient sprays etc.)	Greengram	<ul style="list-style-type: none"> • Foliar spray of water soluble fertilizers during flowering stage 19:19:19 or 38:38:0 NPK @ 4 g/liter of water
	Pigeonpea	<ul style="list-style-type: none"> • Foliar spray of water soluble fertilizer (19:19:19 NPK) at 4-10 g/liter of water
	Sunflower	<ul style="list-style-type: none"> • 19:19:19 NPK at 4 g/liter before flower opening stage
	Maize	<ul style="list-style-type: none"> • 19:19:19 NPK at 4 g/liter at before tassel opening
	Bt. Cotton	<ul style="list-style-type: none"> • KNO₃ 10 g/lit at square initiation & flowering • MgSO₄ at 80 DAS at 10 g/liter

Category	Crop (s)	Contingency measures for deficit rainfall condition
Water management (Life saving irrigation from harvested water)	-	-

3. List of fodder management demonstrations for livestock in contingency situations

August

- Perennial fodder Sorghum (CoFS-29)
- Fodder Maize (African Tall)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Rabi Sorghum (M 351 variety) in September
- Horsegram (GPM-6) from June end to September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Godda
State	: Jharkhand
Name of Village	: Bhelwa and Gunghasa
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 15 th to 20 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Paddy	60	Last week of June to 1 st week of July	<u>Medium land</u> Sahbhagi (110 days) Shatabadi (120 days) <u>Upland</u> Heera (75 days)	<u>After 15th August</u> <u>Medium land</u> <ul style="list-style-type: none"> • Greengram (Pusa Vishal/Improved) • Maize (Hybrid) <u>Upland</u> <ul style="list-style-type: none"> • Blackgram (T- 9/ Improved) • Pigeonpea (Short duration)
Sweet potato	10	July	Kisan/S - 14	<ul style="list-style-type: none"> • Pigeonpea (Short duration)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Elephant foot yam and Bitter Gourd	Elephant foot yam (Gajendra) + Bitter Gourd (US – 6214) in multilayer vegetable cropping system
	Paddy	Staggered community nursery (Sahbhagi, Shatabdi and Heera)
	Paddy	DSR, SRI
Soil moisture management (<i>in situ</i> conservation practices)	Sweet potato	Ridge furrow
Nutrient management (foliar nutrient sprays etc.)	Paddy	Foliar application of PPFM during dry spell
	Blackgram	Foliar application of 1% Potassium nitrate
Water management (Life saving irrigation from harvested water)	Paddy	One or two irrigations at critical stages

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder maize (African tall)
- Sorghum (M. P. Chari)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Kulthi (Horsegram) (Birsa Kulthi – 1/Improved) in August
- Mustard (Pusa Mustard – 28) in September
- Cauliflower (Early Snowball) in September
- Potato (K. Joyoti) in September

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Gumla
State	: Jharkhand
Name of Village	: Gunia
Climate vulnerability	: Drought, Heat wave
Normal onset of Monsoon (date) at the location	: 15 th June 2015

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Paddy	375	2 nd week of June to 3 rd week of July	<p><u>Uplands:</u> Anjali (90 days), Birsa Vikas Dhan 109 (90-100 days), Virendra (90 days)</p> <p><u>Medium lowlands:</u> Sahbhagi (115-120 days), Naveen, Abhishek (120 days), Lalat (120-125 days), MTU 1010 (110-115 days)</p> <p>Hybrid – PAC 801, DRRH- 2 (110 - 120 days)</p> <p><u>Lowlands:</u> BPT 5204 (135-140 days),</p>	<p><u>15th July to 25th July</u></p> <ul style="list-style-type: none"> • Raised bed nursery with Dapog method and transplanting with var. Abhishek, Lalat, Sahbhagi, MTU-1010, PAC-801 and DRRH-2 • Drum seeding of short duration varieties • Blackgram (Shekhar: 85-90 days, Birsa urd-1: 80-85 days) <p><u>After 25th July</u></p> <ul style="list-style-type: none"> • DSR and aerobic rice in medium land (Lalat: 120-125 days), Sahbhagi and Abhishek, BPT-5204 (135-140 days) , MTU-1010 (110-115 days) in lowland <p><u>After 2nd August to 15th August</u></p> <ul style="list-style-type: none"> • Pigeonpea (Narendra Arhar-1: 230-235 days, Asha : 210-215 days, Malviya-13: 230-235 days and Bahar: 240-250 days) <p><u>After 15th August</u></p> <ul style="list-style-type: none"> • Pigeonpea (Asha, Malviya-13 • Maize (Suwan-1) • Vegetables • Pearl Millet (Pusa-23)
Maize	30	2 nd week of June to 2 st week of July	<p>Maize: Suwan-1 (95 -100 days), HQPM-7 (95-100 days)</p>	<p><u>Up to 3rd July</u></p> <ul style="list-style-type: none"> • Vivek Maize hybrid-39 (90-95 days), • HQPM-4 (70-75 days) <p>Alternate crops/ Management</p> <ul style="list-style-type: none"> • Maize (Suwan-1 (95-100) / Vivek maize hybrid-39) + Groundnut (Var. TG-22) • Maize (Suwan-1)+ Pigeonpea(Malviya-13) • Maize (Suwan-1) + Soybean(Var. JS-80-21) • Maize (Suwan-1) + Lobia (Pusa komal) <p><u>15th July to 30th July</u></p> <ul style="list-style-type: none"> • Pigeonpea (Malviya-13, Asha, Narendra Arhar-1) • Finger millet (GPU-28) • Kulthi (Birsa Kulthi-1)

				<u>After 30th July</u> <ul style="list-style-type: none"> • Vegetables • Niger (Var. Birsa niger-1, 2 &3) • Buck wheat
Finger millet	10	2 nd week of June to 3 rd week of July	Finger millet (GPU-28) through transplanting (110 – 120 days)	<u>After 30th July</u> Direct sowing of finger millet (GPU-28) <ul style="list-style-type: none"> • Niger (Var. Birsa niger-1, 2 & 3) • Kulthi (Birsa Kulthi-1) • Sweet Potato (Sakarkand-1) • Vegetables
Blackgram	51	1 st week of July to 4 th week of July	Blackgram (Shekhar: 80 – 90 days)	<u>After 30th July</u> <ul style="list-style-type: none"> • Pigeonpea (Asha) • Niger (Birsa niger-1, 2 & 3) • Sweet Potato (Sakarkand-1)
Groundnut	40	2 nd week of June to 1 st week of July	Groundnut (TG-22, BAU-25)	<u>After 30th July</u> <ul style="list-style-type: none"> • Pigeonpea (Asha) • Niger (Puja, Birsa niger-1, 2 & 3) • Sweet Potato (Sakarkand-1)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management	Groundnut	Groundnut (BAU-25) + Pigeonpea (Malviya-13) (4:1)
	Pigeonpea	Pigeonpea (Asha) & Sorghum (Moti)
	Paddy	Staggered community nursery (Lalat) for transplanting correct aged seedlings
		Aerobic, Direct Seeded Rice, (Lalat)
		Brown manuring SRI
Soil moisture management (in situ conservation practices)	Maize	Sowing with ridge furrow method
	Paddy	Field bunding Green manuring with Dhaincha
Nutrient management (foliar nutrient sprays)	Paddy, Groundnut & Maize	Urea spray @ 2%, Use of MOP in Paddy field Soil amendments with Gypsum & Dolomite
Water management (Life saving irrigation from harvested water)	Paddy	Protective irrigation through lift irrigation system & 5% model

3. List of fodder management demonstrations for livestock in contingency situations

August/ September

- Hybrid Napier
- Sorghum (Moti)
- Bajra (Giant)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Pigeonpea (Sarad)
- Greengram (HUM-12)
- Horsegram (Birsa Kulthi-1)
- Cowpea (Pusa Barsati)
- Mustard (Pusa Mahak, Shivani, NDR-8501)
- Niger (Birsa Niger-1,2 & 3)
- Toria (PT-306)
- Kharif potato (Kufri kuber)
- Okra (Arka anamika, Varsha Uphar, Sonam)
- Cauliflower (Kuwari, Pusa Ketki & Pant subhra)
- Pea (Arkel, Malviya mater-15 & Azad)
- Faba bean (Vikrant)
- Lentil (NDL-1& PL-406)
- Linseed (Sekhar)
- Wheat (K-9107, Pusa Chaitanya)

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Guna
State	: Madhya Pradesh
Name of Village	: Sarkho
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 3 rd week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Soybean	968	3 rd week of June to 10 th July	JS-95-60 (85-90 days)	<u>1st week of August</u> Sesame (JT-11, 12)
Blackgram	136	1 st to 15 th July	Sekhar-2	Short duration variety (LBG-20)
Greengram	95	1 st to 15 th July	HUM-1	Sesame (TKG-21)
Pigeonpea	37	2 nd week of June to 2 nd week of July	ICPL -88039	Short duration variety (Pragati)
Maize	22	2 nd week of June to 2 nd week of July	HPQM - 1	Niger

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Soybean, Blackgram, Greengram	Seed treatment with fungicide
Soil moisture management (<i>in situ</i> conservation practices)	Soybean, Maize	Hoeing & weed mulching
Nutrient management	Soybean, Maize	Foliar application of water soluble fertilizer grade 19:19:19 (NPK) @ 3g/lit water
Water management (Life saving irrigation from harvested water)	Soybean, Maize	Life saving irrigation using sprinkler & drip

3. List of fodder management demonstrations for livestock in contingency situations

August/ September

- Fodder Sorghum (MP Chari)
- Fodder Maize (African Tall)
- Pearl millet (Bajra Chari)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Potato (Kufri Lauker, K. Jawahar) in September
- Toria in September
- Tomato (Hybrids) in August

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Hamirpur
State	: Uttar Pradesh
Name of Village	: Manki Khurd
Climate vulnerability	: Drought and Heat wave
Normal onset of Monsoon (date) at the location	: 20 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Sorghum	45	Last week of June to 1 st week of July	Bundela, CSH-16, CSH-9, CSH-14	Blackgram (Shekhar-3) Pigeonpea (Azad)
Pearl millet	40	Last week of July to 2 nd week of August	Raj-171, pusa-23 and hybrid	Greengram (Samrat)
Sesame	8	2 nd week of July to last Week July	Shekhar	Blackgram (Azad-2)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Sorghum	Sorghum (CSH-14) + Pigeonpea (Azad) (10:1)
Soil moisture management (<i>in situ</i> conservation practices)	Pigeonpea	Ridge furrow method
Nutrient management (foliar nutrient sprays etc.)	Sorghum	Foliar spray of 2% urea
	Pearl millet	Foliar spray thiourea@1000ppm
Water management (Life saving irrigation from harvested water)	Millets	Life saving irrigation

3. List of fodder management demonstrations for livestock in contingency situations

- Sorghum (MP Chari)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Toria (T-9) in September
- Potato (Kufri chipsona) in September (90-110 days)

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Imphal East
State	: Manipur
Name of Village	: Andro
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 7-10 June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Rice	1173	15 th June	Rice (CAU R3: 100 days)	Nursery raising up to 20 th of July and transplanting till 13 th of August
				Sweet potato (Shree Bhadra)
				Blackgram (T9-short duration)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Rice	System of rice intensification and Integrated crop management practices
Soil moisture management (<i>in situ</i> conservation practices)	Sweet potato	Vegetative mulching
Nutrient management (foliar nutrient sprays etc.)	Rice, Sweet potato	Integrated nutrient management with Azolla in rice, drip fertigation for sweet potato
Water management (Life saving irrigation from harvested water)	Blackgram (T9)	Protective irrigation through sprinkler

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Oats (multi cut)
- Hybrid Napier

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Utera cropping (Rice-wheat, Rice-Rapeseed mustard)
- Early planting of Lentil
- Early planting of Field pea (GS-36, HUDP-15)
- Zero tillage cultivation of Lathyrus (Bio-L 212)

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Jalna
State	: Maharashtra
Name of Village	: Kadegaon
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 20 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Cotton (rainfed)	600	2 nd week of June to 2 nd week of July	Bt hybrids & varieties (NH-615, Suraj)	Cotton + Pigeonpea (BDN-708, 711) (6:2)
Maize	100	2 nd week of June to 4 th week of July	Hybrids	Short duration hybrids
Pearl Millet	75	2 nd week of June to 4 th week of July	MRH-204, PBH-86	Shraddha, AIMP-93901, PPC-6
Soybean	50	2 nd week of June to 3 rd week of July	MAUS-71, MAUS-158, MAUS-162	Soybean (JS-93-05) + Pigeonpea (BDN-708, BDN-711) (4:2)
Pigeonpea	30	2 nd week of June to 4 th week of July	BDN-708, BDN-711	Sole or intercrop (Soybean + Pigeonpea) (4:2)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Cotton (Rainfed)	<ul style="list-style-type: none"> Cotton + Soybean (1:1), Cotton + Green Gram (1:1), Cotton + Pigeonpea (6:2)
	Pigeonpea	<ul style="list-style-type: none"> Pigeonpea + Soybean/ Greengram/ Blackgram (2:1 or 2:2)
Soil moisture management (<i>in situ</i> conservation practices)	Cotton (rainfed)	<ul style="list-style-type: none"> Open conservation furrows
	Maize, Pearl millet, Pigeonpea	<ul style="list-style-type: none"> Interculture Opening of alternate furrows with Balaram plough Mulching with crop residue
	Soybean	<ul style="list-style-type: none"> Sowing with BBF planter Opening of alternate furrows with Balaram plough
Nutrient management	Cotton (Rainfed)	<ul style="list-style-type: none"> Foliar spray of 2 % urea or 1% water soluble fertilizers (19-19-19 or 20-20-20 or 10:26:26) Two sprays of 2% MgSO₄, Zn, Boron in case of reddening symptoms
	Maize, Pearl millet	<ul style="list-style-type: none"> Foliar spray of 2% urea or DAP Foliar spray of 2% MOP at the time of cob emergence
Water management (Life saving irrigation from harvested water)	Cotton (Rainfed)	<ul style="list-style-type: none"> Life saving irrigation at critical stages with drip

3. List of fodder management demonstrations for livestock in contingency situations

- Stylo (*S. hamata*) on bunds
- Fodder Sorghum (Phule Godhan)
- Fodder Maize (African Tall)
- Rainfed grasses - Ginni Grass, Pavna

4. Early *rabi* crop plan for demonstration (for planting in *khariif* unsown areas during August/ September in the village)

- Safflower (PBNS-12, PBNS-40)
- Rabi Sorghum (Parbhani Moti, M-35-1)
- Kabuli Chana for green pods (PKV-2, PKV-4)
- Seed production of French beans
- Cluster bean in August

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Jehanabad
State	: Bihar
Name of Village	: Sakrorha
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 15 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Paddy	175	2 nd week of June to 4 th week of July	<u>Upland</u> <ul style="list-style-type: none"> • Sahbhagi • Sabaur Ardhajal • Abhishek • Susk Samrat <u>Medium lowland</u> <ul style="list-style-type: none"> • Rajendra Sweta 	<u>After 15th July Upland</u> <ul style="list-style-type: none"> • Paddy (Prabhat) • Sesame (Krishna) • Pigeonpea (p-9) • Soybean (JS-95-60, JS-93-05) • Blackgram (Azad-3) <u>Medium lowland</u> <ul style="list-style-type: none"> • Finger millet (A-404, GPU-28,RAU-03) <u>After 15th august Upland</u> <ul style="list-style-type: none"> • Horsegram (BR-5, BR-10) • Maize (Sabour Shanker Makka-3) • Pigeonpea (P-9,Sarad) • Toria (RAUTS-17) <u>Medium lowland</u> <ul style="list-style-type: none"> • Greengram (Samrat, Pusavishal)
Pigeonpea	5	2 nd week of June to 4 th week of July	NDA-1 Malviya-13	-

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Paddy	Staggered community nursery (R.Sweta, Sahbhagi, Sabour Ardhajal)
		Direct Seeded Rice in upland (Sahbhagi, Prabhat)
	Pigeonpea + Maize	Pigeonpea (NDA-1, Malviya-13) Maize (Saktiman)
	Pigeonpea+ Finger millet	Pigeonpea (NDA-1, Malviya-13) Finger millet (A-404, RAU-03, GPU-28)
Soil moisture management (<i>in situ</i> conservation practices)	Pigeonpea	Ridge – furrow method

Nutrient management (foliar nutrient sprays etc.)	Paddy	Brown manuring in paddy
	Paddy	Foliar Spray of 2% urea
	Pigeonpea	Foliar spray of thiourea @ 1000 ppm
	Blackgram	Foliar spray of 1 % potassium nitrate
	Sorghum	Foliar spray of 2% urea
Water management (Life saving irrigation from harvested water)	Paddy	Protective irrigation from pond

3. List of fodder management demonstrations for livestock in contingency situations

August/ September

- Fodder maize (African Tall)
- Cowpea (Lobia-88, KashiKanchan)
- Fodder sorghum (Co FS-29)
- Hybrid Napier (IGFRI-6)
- Bajra (Chari-2)

4. Early *rabi* crop plan for demonstration (for planting in *khariif* unsown areas during August/ September in the village)

- Kulthi (BR-5, BR-10) in August
- Toria (RAUTS-17) in September
- Maize (Shaktiman, Sabourshanker Makka-3 (70-75 days) in September
- Early Potato (Kufri pukhraj, K. Ashoka) in September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Jhansi
State	: Uttar Pradesh
Name of Village	: Gandhi Nagar (Garhmau)
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 20 th to 22 nd June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Groundnut	85	4 th week of June to 1 st week of July	Groundnut: Jhunku/Indauri (130-135 days)	<u>15th to 30th July</u> Sesame (Shekhar)
Blackgram	5	2 nd week of July	Azad Urd-2, Azad Urd-3	<u>15th July to 15th August</u> Sesame

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Groundnut	Groundnut (TG-37A) + Greengram (PDM-139, SML-668)
Soil moisture management (<i>in situ</i> conservation practices)	Groundnut	Ridge furrow method
Nutrient management (foliar nutrient sprays etc.)	Groundnut	Foliar spray of micronutrients
Water management (Life saving irrigation from harvested water)	Groundnut	Protective irrigation through sprinklers

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder (M.P.Chari)
- Fodder Maize (African tall)
- Cowpea (BL-1, BL-2)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during Aug/ Sept in the village)

- Toria (Bhavani) after 15th September
- Ageti Rai Mustard (Narendra Ageti Rai-4, 100-105 days) in September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Jhunjhunu
State	: Rajasthan
Name of Village	: Bharu
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 25 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Pearl millet	295	2 nd week of June to 2 nd week of July	RHB- 173	Cowpea (RC-19)
Cluster bean	97	4 th week of June to 4 th week of July	RGC-1066	Pearl millet (HHB-60/67)
Greengram	28	1 st week of July to 4 th week of July	RMG-344	Moth bean (RMO-40)
Cowpea	110	1 st week of July to 4 th week of July	RC-19	Conserve moisture for Rabi crops

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Pearl millet	• Pearl millet + Greengram (2:5)
Soil moisture management (<i>in situ</i> conservation practices)	Pearl millet, Cluster bean, Greengram & Cowpea	• Interculture
Nutrient management (foliar nutrient sprays etc.)	Pearl millet, Cluster bean, Greengram	• Foliar spray of Urea 2% • Foliar spray of Thio urea @ 0.1% & 0.05%
Water management (Life saving irrigation from harvested water)	Pearl millet & Cluster bean	• Protective irrigation through sprinkler

3. List of fodder management demonstrations for livestock in contingency situations

- Sorghum Chari (MFSH-4)
- Pearl millet Chari (RBC-2)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during Aug/ Sept in the village)

- Gram (GNG-1581) in first week of October
- Rai mustard (Modki local variety) in last week of September in rainfed area
- Rapeseed mustard (RGN-229,RH-749) in first week of October

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Jodhpur
State	: Rajasthan
Name of Village	: Purkhawas
Climate vulnerability	: Drought, Heat wave
Normal onset of Monsoon (date) at the location	: Last week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Pearl millet	560	4 th week of June to 2 nd week of July	HHB-67 (Improved)	<ul style="list-style-type: none"> • Moth bean (RMO-435,CZM-2) • Cluster bean (RGC-936, RGC 1017)
Moth bean	230		RMO-435,CZM-2	
Cluster bean	105		RGC-936, RGC 1017	
Greengram	30		GM-4	
Sesame	15		RT -127	
Pearl millet	560		HHB-67 (Improved)	

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Pearl millet	• Pearl millet(HHB-67 imp)+Moth bean (RMO-435,CZM-2)
	Greengram Cluster bean	• Greengram (GM-4) + Cluster bean (RGC-936)
Soil moisture management (<i>in situ</i> conservation practices)	Pearl millet Moth bean Cluster bean Greengram	<ul style="list-style-type: none"> • Summer deep ploughing (increase water holding capacity) • Weeding and vegetative mulch. • Open furrow sowing
Nutrient management (foliar nutrient sprays etc.)	Pearl millet	• Foliar spray of thiourea @ 500 ppm
Water management (Life saving irrigation from harvested water)	-	-

3. List of fodder management demonstrations for livestock in contingency situations

- Dhaman grass (CAZRI- 358)
- Sorghum (Raj Chari - 2)
- Fodder enrichment

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Taramira (RTM-314)

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Kalahandi
State	: Odisha
Name of Village	: Pipalpada
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 25 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Cotton	80	1 st week of July	Early maturing hybrids	<ul style="list-style-type: none"> Line sowing of Blackgram (Prasad) during last week of July
Paddy	25	July 15 th to August 25	Short duration paddy variety (Naveen)	<ul style="list-style-type: none"> Sowing of short duration paddy variety Sahbhagi Dhan with drum seeder
Blackgram	12	2 nd week of August	Line sowing of Blackgram (Prasad) till last week of August	<ul style="list-style-type: none"> Horsegram in upland situation Cowpea (Utkalmanik)
Pigeonpea	10	3 rd week of July	Line sowing of Arhar (Asha)	<ul style="list-style-type: none"> Sowing of short duration Arhar (IPC 161, IPC 70239)
Maize	05	2 nd week of August	Hybrid Maize	<ul style="list-style-type: none"> Inter cropping of Maize + Cowpea (2:2)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Paddy	<ul style="list-style-type: none"> Direct Seeded Rice, line sowing in uplands (Sahbhagi dhan) Drum seeding in shallow lowlands (MTU-1010)
	Cotton	<ul style="list-style-type: none"> Cotton + Pigeonpea (6:2) High density planting
	Blackgram	<ul style="list-style-type: none"> Pigeonpea + Blackgram (6:1)
Soil moisture management (<i>in situ</i> conservation practices)	Maize Cotton	<ul style="list-style-type: none"> Ridge furrow method of planting Incorporation of sunhemp within 15 days after sowing
Nutrient management (foliar nutrient sprays etc.)	Blackgram	<ul style="list-style-type: none"> Foliar spray of Planofix 0.1 % at 2ml/ 10 liter of water
	Paddy	<ul style="list-style-type: none"> Foliar application of 2% Zinc
Water management (Life saving irrigation from harvested water)	Paddy	<ul style="list-style-type: none"> Live saving irrigation

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder maize (African Tall)
- Cowpea (Co-5)
- Hybrid Napier

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Kulthi (horsegram) (Local) in August
- Greengram (Durga) in last week of September
- Maize (Shakti) in 2nd week of September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Kalburgi (Gulbarga)
State	: Karnataka
Name of Village	: Ambalga
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: June 2 nd week

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Pigeonpea (Medium duration)	166	June 2 nd to July 1 st week	TS3R (145-155 days), GRG-811 (164 days)	Pigeonpea short duration varieties (TS3R)
Soybean	81	June 2 nd week to July 1 st week	JS-335	Horsegram (GPM-6)
Blackgram/Green gram	81	June 2 nd week	Du-1, BGS-9	Sunflower (RFSH-130, Kargil-41)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Pigeonpea	Seed hardening treatment with Calcium Chloride for short duration TS3R variety
Soil moisture management (<i>in situ</i> conservation practices)	Pigeonpea	Mulching between rows with Greengram waste • Opening of conservation furrows after ten rows of Pigeonpea
Nutrient management (foliar nutrient sprays etc.)	Pigeonpea	• Foliar spray of 19:19:19 (0.2%)
Water management (Life saving irrigation from harvested water)	Soybean	• Protective irrigation using tanker (water spray)

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Maize (African Tall)
- Pigeonpea + Pearl millet (1:2)
- Sorghum + Pigeonpea (2:1)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Sunflower (RFSH-130) in August to September and Kargil-41 in September (95-100 days)
- Horsegram (GPM-6) in August (120 days)
- Sorghum (35, JP-1-5) in August-September (105-110 days duration)

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Khammam
State	: Telangana
Name of Village	: Nacharam
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 1 st week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Cotton	750	2 nd week of June to 2 nd week of August	Bt - Hybrids	<u>15th to 31st July</u> Cut-off date for cotton sowing in Khammam district is 20 th July <ul style="list-style-type: none"> Sowing till end of July by adopting closer spacing of 90 x 30 cm <u>1st to 15th August</u> <ul style="list-style-type: none"> Pigeonpea (LRG-41) (with closer spacing (45-90 x 10 cm) Maize till 1st week with short duration hybrids under irrigated conditions Sesame (Swetha and Rajeswari) till 15th August
Paddy	200	3 rd week of June to 2 nd Week of July	Siddi (WGL-44)	<u>1st to 15th August</u> Direct Seeding Rice (Drum seeding and broadcasting) with short duration varieties

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Cotton	Cotton + Pigeonpea (7:1)
	Paddy	Direct Seeded Rice with short duration varieties
Soil moisture management (<i>in situ</i> conservation practices)	Cotton	Ridge and furrow method
Nutrient management (foliar nutrient sprays etc.)	Cotton	Foliar spray of 2% potassium nitrate
	Paddy	Foliar application of 2% zinc sulphate
Water management (Life saving irrigation from harvested water)	Chilli	Mulching practice with drip irrigation

3. List of fodder management demonstrations for livestock in contingency situations August/September

- Sugargraze
- Tanjania
- Cowpea
- APBN-1

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Maghi Sorghum varieties & Hybrids (MJ-278, M35-1, NTJ-1, 2, 3, 4N N-13 & 14, CSH-16)
- Pigeonpea (with closer spacing- 45-90 cm x 10 cm)
- Castor (Kranthi, Jyothi, Jwala, PCH-111, PCH-222)
- Blackgram (LBG-623, WBG-26, LBG-20)
- Sunflower (Modern var./ hybrids) in heavy soils

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Koderma
State	: Jharkhand
Name of Village	: Chopanadih
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 15 th June 2015

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Paddy	130	2 nd week of June (Nursery), 2 nd week of August (Transplanting)	<u>Upland</u> Anjali (90 days) <u>Medium lowland</u> Sahbhagi dhan (115 days) Abhishek (120 days)	<u>Upland</u> • Blackgram • Pigeonpea
Pigeonpea	12	2 nd week of June to 2 nd week of July	Narendra Arhar-1 Bahar (270 days)	• Blackgram • Pigeonpea
Finger millet	5	2 nd week of June	Birsa Mandua-1	• Blackgram • Pigeonpea
Maize	5	June	HQPM-1 (110 days)	• Blackgram • Pigeonpea

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Pigeonpea	Pigeonpea (NA-1) + Blackgram (PU-31)
	Paddy	Staggered community nursery (Sahbhagi Dhan & Abhishek)
		Direct Seeded Rice, line sowing in upland (Anjali)
Soil moisture management (<i>in situ</i> conservation practices)	Paddy	-
Nutrient management (foliar nutrient sprays etc.)	Paddy	Balanced fertilization (K application in rice) & foliar application in pulses
Weed control in DSR	Paddy	Use of bispyribac sodium (herbicide)
Water management (Life saving irrigation from harvested water)	Vegetable crops	Poly mulching and sprinkler irrigation

3. List of fodder management demonstrations for livestock in contingency situations

- Sorghum
- Maize

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Horsegram (Birsa Kulthi-1) in August
- Toria (PT 303) in mid September
- Niger (BN1) in mid September
- Early Rai Mustard (Pusa agrani) in September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Kurnool
State	: Andhra Pradesh
Name of Village	: Yagantipalle
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 15 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Foxtail millet	80	3 rd week of June to 2 nd Week of July	SIA-3085, Sreelakshmi	SIA-3088 (Suryanandi)
Pigeonpea	92	3 rd week of June to 2 nd Week of July	LRG-41, ICPL-87119	Pigeonpea (PRG-158, PRG-100) at close spacing
Maize	45	2 nd Week of June to 1 st week of July	Hybrids	Hybrids
Cotton	40	2 nd Week of June to 2 nd week of July	Bt-cotton	Closer spacing with Bt-cotton
Paddy	30	Nursery raising in July 2 nd & 3 rd week	BPT-5204	<ul style="list-style-type: none"> Short duration variety: RNR-1446 (DSR) Maize, Sunflower

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Setaria	Finger millet (SIA-3088) + Pigeonpea (PRG-158) (5:1) Castor + Pigeonpea (1:1)
Soil moisture management (<i>in situ</i> conservation practices)	Castor	Opening of conservation furrows between two castor rows at 30-35 DAS
	Pigeonpea	Deep open furrows laid in between two castor rows
	Maize & Cotton	Ridge and furrow method
Nutrient management (foliar nutrient sprays etc.)	Cotton	Foliar spray of 2% urea/ 1% of KNO ₃
	Pigeonpea	Foliar spray of 2% urea
Water management (Life saving irrigation from harvested water)	Pigeonpea Maize	Protective irrigation through sprinklers

3. List of fodder management demonstrations for livestock in contingency situations

- Perennial green fodder in 125 acres, maintaining buffer stock of sorghum and Paddy straw

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Setaria (Suryanandi), Castor (Haritha)
- Maghi Sorghum (NTJ-1, 2, 4); Horsegram (PHG-62, PZM-1); Fodder Sorghum; early sowing of Chickpea (Nandyal sanaga-1, JG-11, JAKI-9218), Kabuli (ICCV-2, KAK2, ICGV-95311)

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Kutch
State	: Gujarat
Name of Village	: Bhalot
Climate vulnerability	: Scanty rainfall
Normal onset of Monsoon (date) at the location	: 20 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Cotton	200 (Irrigated)	1 st & 2 nd week of June	Bt hybrids	<ul style="list-style-type: none"> • Castor • Cluster bean • Greengram • Fodder sorghum
Sesame	60		Guj Til-3	<ul style="list-style-type: none"> • Fodder sorghum • Cluster bean • Greengram
Castor	232		GCH-2, 7	<ul style="list-style-type: none"> • Fodder sorghum
Pearl millet	50		GHB 538	<ul style="list-style-type: none"> • Fodder sorghum • COFS-27 & Gundri
Cluster bean	204		GG-2	<ul style="list-style-type: none"> • Fodder sorghum (COFS-27 & Gundri)
Fodder sorghum	84 (Irrigated) 104 (Rainfed)	1 st week of Aug	COFS-27 & Gundri	-

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Cotton	<ul style="list-style-type: none"> • Cotton + Greengram (2:2)
Soil moisture management (<i>in situ</i> conservation practices)	Cotton, Sesame, Castor, Pearl millet, Greengram, Fodder Sorghum	<ul style="list-style-type: none"> • Sowing of crop across the slope and interculture
Nutrient management (foliar nutrient sprays etc.)	Cotton	<ul style="list-style-type: none"> • Foliar Spray of NPK (19:19:19) • Fertigation through drip
Water management (Life saving irrigation from harvested water)	Cotton, Sesame, Castor, Pearl millet, Greengram, Fodder Sorghum	<ul style="list-style-type: none"> • Life saving irrigation from recharged open wells

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Sorghum (COFS-27 and Gundri)
- Perennial Grass (APBN-1)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Lucerne
- Sesame (semi-rabi, Purva-1), Cumin (GC-4) with rains in September rains)
- Fodder Sorghum (Solapuri)

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Morena
State	: Madhya Pradesh
Name of Village	: Jigni, Nidhan
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 10 th to 15 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Soybean	15	2 nd week of June & 3 rd week of July	JS-95-60, JS-335	<ul style="list-style-type: none"> • <u>After 3rd week of July</u> • Pigeonpea (ICPL 88039) • Pearl millet
Short duration Pigeonpea	50	2 nd week of June & 3 rd week of July	Pigeonpea (UPAS 120, PUSA 992, ICPL-8803)	<ul style="list-style-type: none"> • Pearl millet • Maize • Sesame (JTS-8)
Maize	15	2 nd week of June & 3 rd week of July	Hybrid	-
Pearl millet	65	2 nd week of June & 3 rd week of July	Pearl millet (JVB 3, ICTP-8203, HHB 447)	-
Blackgram	15	2 nd week of June & 3 rd week of July	Blackgram (Uttara, Shekhar , PU-35)	-
Greengram	15	2 nd week of June & 3 rd week of July	Greengram (JM 721, TJM 3, TM 99-37, SML 668)	-
Cluster bean	50	1 st week of June & 3 rd week of July	Cluster bean (RGC 1038, HG 365, HG 563)	<ul style="list-style-type: none"> • Pearl millet • Pigeonpea (Pusa 991, 992)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Soybean, Pigeonpea	<ul style="list-style-type: none"> • Soybean (JS-9560) + Pigeonpea (ICPL88039) • Pigeonpea (ICPL88039 + Maize (hybrid)
Soil moisture management (<i>in situ</i> conservation practices)	Pigeonpea , Soybean, Pearl millet, Blackgram, Greengram, Cluster bean	<ul style="list-style-type: none"> • BBF, Raised bed furrow • Line sowing method • Mulching
Nutrient management (foliar nutrient sprays etc.)	Pigeonpea, Soybean, Pearl millet, Blackgram, Greengram, Cluster bean	<ul style="list-style-type: none"> • Spray 2% urea or MOP during the dry spell • Foliar spray of 2% Urea, DAP and KNO₃
Water management	Soybean	<ul style="list-style-type: none"> • Life saving irrigation

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Maize (African tall)
- Fodder Sorghum (MP-Chari)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Toria (JT-1, Bhawani, T-9, PT-303)
- Potato in 2nd week of September

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Nalgonda
State	: Telangana
Name of Village	: Nandyalagudem
Climate vulnerability	: Drought and Heat wave
Normal onset of Monsoon (date) at the location	: June 2 nd week

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Cotton	180	2 nd week of June to 4 th week of July	Bt cotton Hybrids	<u>After 1st week of August</u> <ul style="list-style-type: none"> • Castor (Kiran, PCH-111) • Cowpea (C-152,UPC-5286) • Horsegram (VHG-6, PZM-1)
Pigeonpea	39	2 nd week of June to 2 nd week of July	PRG-176	
Paddy	32	2 nd week of June to 2 nd week of July	RNR-15048, MTU-1010	<ul style="list-style-type: none"> • Direct sowing with drum seeder
Greengram	25	1 st week of June to 4 th week of August	MGG-295, WGG-42	<ul style="list-style-type: none"> • Castor (Kiran, PCH-111) • Cowpea (C-152, UPC-5286) • Horsegram (VHG-6, PZM-1)
Chilies, Other vegetables & Mulberry	24	2 nd week of June to 4 th week of August	Hybrids and varieties	Leafy vegetables

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Bt Cotton Paddy	<ul style="list-style-type: none"> • Bt Cotton + Pigeonpea (PRG-176) (10:1) • Direct sowing with drum seeder (RNR-15048 & MTU-1010)
Soil moisture management (<i>in situ</i> conservation practices)	Bt Cotton, Pigeonpea	<ul style="list-style-type: none"> • Conservation furrows after 35 to 40 DAS
Nutrient management (foliar nutrient sprays etc.)	Bt cotton Pigeonpea	<ul style="list-style-type: none"> • Foliar spray of 2% Urea and 1% potassium nitrate
Water management (Life saving irrigation from harvested water)	Chilies and other vegetables	<ul style="list-style-type: none"> • Drip irrigation

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Sorghum (SHG-1 and UP chary-1 & 2)
- Fodder Maize (African Tall)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Sorghum (CSV-31, CSV-5, CSH-9)
- Cowpea (C-152, UPC-5286)
- Horsegram (VHG-6, PZM-1)

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Namakkal
State	: Tamilnadu
Name of Village	: Vadavathur
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 1 st week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Small onion for seed purpose	60	2 nd week of May to 4 th week of July	Small onion 90 days (excluding nursery)	Sorghum (Paiyur-2)
Groundnut	128	2 nd week of July to 3 rd week of August	Groundnut (CO-6) (125-130 days)	Blackgram (CO-6) after 3 rd week in August
Sorghum	225	2 nd week of July to 3 rd week of August	Sorghum (Paiyur-2) (90 -100 days)	Fodder Sorghum (CoFS 29)
Black gram	8	2 nd week of July to 4 th week of July	Blackgram (CO-6) (60 -65 days)	Green manuring crops: Daincha and Sunhemp
Green gram	11	2 nd week of July to 4 th week of July	Greengram (VBN.3) (65 -70 days)	Green manuring crops: Daincha and Sunhemp

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Groundnut	• Groundnut (CO-6) +Pigeonpea (CO-7)
	Groundnut	• Groundnut (CO-6) + Castor (YRCH-1)
Soil moisture management (<i>in situ</i> conservation practices)	Small onion	• Deep tillage using chisel plough • Ridge and furrow method of planting
Nutrient management (foliar nutrient sprays etc.)	Groundnut	• Groundnut rich 2 Kg/acre
Water management (Life saving irrigation from harvested water)	Groundnut	• Protective irrigation through water tanker and mobile sprinkler
	Small onion	• Protective irrigation through water tanker and mobile sprinkler

3. List of fodder management demonstrations for livestock in contingency situations

August/September

- Fodder Sorghum (CoFS-29), Agathi, Subabul

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Groundnut (CO-6) in August (2nd or 3rd week)
- Seed onion (CO-5) in nursery in October (3rd week), planting in December 1st week (40 days old seedlings)
- Vegetable crops (Ridge gourd, Bitter gourd and Tomato) in September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Nandurbar
State	: Maharashtra
Name of Village	: Umarani
Climate vulnerability	: Drought, Heat stress
Normal onset of Monsoon (date) at the location	: June 2 nd Week

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Sorghum	140	June 2 nd week	Hybrids	Pearl millet (Hybrid)
Maize	118	June 2 nd week	GM-6 (75-80 days)	GM-6 (75-80 days)
Soybean	40	June 2 nd week	JS-93-05 (90 days)	Pearl millet (Hybrid)
Blackgram	57	June 2 nd week	TPU-4	Horsegram (Phule Sakas)
Pigeonpea	40	June 2 nd week	ICPL-87 (110-130 days)	Inter cropping of Pigeonpea + Pearl millet (Hybrid)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Setaria	• Setaria + Pigeonpea (5:1)
	Groundnut	• Border plantation of castor to control leaf eating caterpillar (Groundnut + Soybean)
	Sorghum	• Increase seed rate, seed treatment to control shoot fly damage
Soil moisture management (in situ conservation practices)	Maize	• Ridge and furrow method
Nutrient management (foliar nutrient sprays etc.)	Sorghum, Pearl millet	• Foliar spray of 2% urea
Water management (Life saving irrigation from harvested water)	Groundnut	• Protective irrigation through sprinklers
	Soybean	• Protective irrigation through sprinklers

3. List of fodder management demonstrations for livestock in contingency situations August/ September

- Fodder sorghum (CoFS-29)
- Fodder maize (African Tall)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Kulthi (Horsegram) (Phule Sakas) in August
- Vegetables
- Chickpea (Digvijay, Vijay) in September
- Potato (Kufri Jyoti, 90-100 days) in November

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Nawadah
State	: Bihar
Name of Village	: Manjhila
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 15 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Paddy	40	4 th week of May to 4 th week of June	Sahbhagi, Prabhat Heera, Susk Samrat, Naveen	Pigeonpea (MAL-13, PRG158) Blackgram (Uttara)
Pigeonpea	46	4 th week of June	MAL 13, ICPL-88039	Kulthi (Birsa-1) Finger millet (RM-2)
Maize	7	4 th week of June	GK3017, DMH849	Brinjal (Swarna Pratibha) Tomato (S-27, Lakshmi & Abhilash)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Paddy	• Staggered nursery, seedlings of 40-45 days for transplanting with 4-5 seedlings/ hill
	Pigeonpea	• Higher seed rate
	Maize	• Gap filling
Soil moisture management (<i>in situ</i> conservation practices)	Paddy	• Direct Seeded Rice, Line sowing
	Pigeonpea	• Application of potash at final land preparation • Weed mulching for moisture conservation
	Maize	• Application of potash at final land preparation • Weed mulching for moisture conservation
Nutrient management (foliar nutrient sprays etc.)	Paddy, Maize, Pigeonpea	• Potassic fertilizer spray
Water management (Life saving irrigation from harvested water)	Paddy	• Protective irrigation from well and pond
	Pigeonpea	
	Maize	

3. List of fodder management demonstrations for livestock in contingency situations

August/ September

- Fodder Sorghum
- Fodder Maize
- Cowpea, Sudan grass

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Kulthi (Horsegram) (Birsa -1) in August
- Toria (Bhawani, Panchali, Pusa Tarak) in September
- Agetirai mustard (Pusa Agrani, Pusa Mahak) in September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Palamu
State	: Jharkhand
Name of Village	: Dulsulma & Murma
Climate vulnerability	: Drought, Heat wave
Normal onset of Monsoon (date) at the location	: 20 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Paddy	90	15 th June to 30 th July	Sahbhagi, Naveen	Direct Seeded Rice
Maize	50	15 th June to 30 th July	HQPM-1	Maize + Sesame
Pigeonpea	60	15 th June to 30 th July	Birsa Arhar-1	<u>Medium land</u> Pigeonpea, Blackgram
Sesame	20	15 th June to 30 th July	Kanke Safed	Sesame, Blackgram
Finger millet		15 th June to 30 th July	A-404	<u>Upland & Medium land</u> Finger millet

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Maize	Maize (HQPM-1) + Sesame (Kanke Safed)
	Pigeonpea	Pigeonpea (Narendra Arhar-1) + Maize (HQPM-1)
Soil moisture management (<i>in situ</i> conservation practices)	Turmeric	Mulching in Turmeric
Nutrient management (foliar nutrient sprays etc.)	Paddy	Foliar spray of 2% urea
	Maize	Foliar spray of 2% urea
	Pigeonpea	Foliar spray of 2% urea
Water management (Life saving irrigation from harvested water)	Paddy	Life saving irrigation through dobha

3. List of fodder management demonstrations for livestock in contingency situations

- Maize (HQPM-1) in August
- Sorghum (Pusa Chari-23) in August

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during Aug/ Sept in the village)

- Horsegram (Birsa Kulthi-1) in August
- Toria (T-9) in September
- Mustard (Shivani) in September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Rajkot
State	: Gujarat
Name of Village	: Magharwada
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 18 th to 25 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Soybean	200	2 nd week of June to 2 nd week of July	JS 95-60 (90 days) JS 97-52 (100 days)	<ul style="list-style-type: none"> Blackgram (PU-31, Pratap Urd-1) Greengram (SML 668, IPM 02-03) Sesame (RT 346, 351) Maize (Pratap Hybrid 1)
Groundnut	100	3 rd week of June	GG-20	<ul style="list-style-type: none"> GG-5 (90 days)
Cotton	600	3 rd week of June	Bt Cotton hybrids	<ul style="list-style-type: none"> Early maturing cultivars
Pulses	20	3 rd week of June	Blackgram (Pratap Urd-1) Greengram (G-4)	<ul style="list-style-type: none"> Blackgram (Pratap Urd-1) Greengram (G-4)
Castor	20	1 st week of August	Castor (GAUC-3)	-
Sesame	60	3 rd week of June	Sesame (G-2) Sesame (G-3)	-

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Maize	<ul style="list-style-type: none"> Cotton + Maize (1:1)
Soil moisture management (in situ conservation practices)	Cotton Groundnut Sesame	<ul style="list-style-type: none"> Sowing by broad bed furrow (BBF) method
Nutrient management (foliar nutrient sprays etc.)	Cotton	<ul style="list-style-type: none"> Foliar spray of 1 % Potassium nitrate Foliar spray of 2% urea
Water management (Life saving irrigation from harvested water)	Cotton Groundnut	<ul style="list-style-type: none"> Alternate furrow irrigation One irrigation through rain gun

3. List of fodder management demonstrations for livestock in contingency situations

- Sorghum
- Hybrid Napier Bajra (APBN-1)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- No scope for *rabi* cropping because of unavailability of underground water

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Ratlam
State	: Madhya Pradesh
Name of Village	: Amba
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: Last week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Soybean	1400	3 rd week of June to 2 nd week of July	JS-95-60, JS-93-05	<ul style="list-style-type: none"> • Greengram (T-1, JS-721) • Blackgram (JU-86, JU-3) • Maize (JM-8, JM-11, JM-216) • Ashwagandha (WS-10-134) • Tulsi (Kapoor Tulsi, Shyam Tulsi)
Cotton	85	3 rd week of June to 2 nd week of July	Bt. Cotton hybrids	
Maize	32	3 rd week of June to 2 nd week of July	JM-8, JM-12, Hybrids	
Blackgram	8	3 rd week of June to 2 nd week of July	JU-86, JU-3	

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Soybean	<ul style="list-style-type: none"> • Soybean (JS-9560, JS-9305) + Maize (hybrid, JM-8, JM-12) (4:2) • Soybean (JS-9560, JS-9305) + Cotton (Bt Cotton) (4:2)
Soil moisture management (<i>in situ</i> conservation practices)	Soybean	Ridge & furrow method, BBF
Nutrient management (foliar nutrient sprays etc.)	Maize, Cotton	<ul style="list-style-type: none"> • Foliar spray of 2% urea. • Foliar spray of liquid / soluble fertilizer
Water management (Life saving irrigation from harvested water)	Cotton	Protective irrigation through drip

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Maize (African tall)
- Cowpea (Kohinoor)
- Sorghum (MP Chari, Pusa Chari 6)
- Hybrid Napier (Co-3)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Pea (Arkel, PSM-3)
- Mustard (Pusa Agrani, Pusa Tarak)
- Ashwagandha (WS-10-134)
- Cucurbits

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Senapati
State	: Manipur
Name of Village	: Hengbung & Hengbung-1
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 15 th June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Paddy	21	2 nd week of June -1 st week of July	<ul style="list-style-type: none"> • CAU-R3 • Pariphou 	Blackgram (T-9)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Paddy	Direct Seeded Rice, SRI
Soil moisture management (<i>in situ</i> conservation practices)	Paddy	Terrace (bench) rice cultivation
Nutrient management (foliar nutrient sprays etc.)	Paddy	Foliar application of urea @ 2%
Water management (Life saving irrigation from harvested water)	Groundnut	Protective irrigation through sprinkler

3. List of fodder management demonstrations for livestock in contingency situations

August/September

- Fodder Cowpea (BL-1)
- Fodder ricebean (Bidhan-2)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Rapeseed (TS-36) in September
- Ricebean in August
- Blackgram (T-9) in August
- Potato (Kufri Kanchan) in September

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: Tumkur (Hirehalli)
State	: Karnataka
Name of Village	: D. Nagenahalli
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 1 st Week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Groundnut	39	4 th week of May to 2 nd week of July	ICGV-9114	-
Finger millet	99	4 th week of June to 2 nd week of July	ML-365	ML-365 (105 days)
Pigeonpea	10	2 nd week of June 1 st week of July	BRG -2/ BRG-4	BRG -2 / BRG-4 (150 days)
Paddy	13	1 st week of July to 2 nd week of July	Aerobic Paddy (MAS-26)	-
Maize	9	4 th week of May to 2 nd week of June	Hybrids	-

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Pigeonpea Finger millet Groundnut	<ul style="list-style-type: none"> Finger millet (ML365) + Pigeonpea (BRG4) (4:1) Groundnut (ICGV 91114) + Pigeonpea (BRG4) (4:1)
Soil moisture management (in situ conservation practices)	Finger millet, Groundnut, Pigeonpea	<ul style="list-style-type: none"> Sowing across slope
Nutrient management (foliar nutrient sprays etc.)	Paddy	<ul style="list-style-type: none"> Foliar spray of Zn (0.5-1%)
Water management (Life saving irrigation from harvested water)	Aerobic Paddy, Groundnut	<ul style="list-style-type: none"> Sprinkler irrigation

3. List of fodder management demonstrations for livestock in contingency situations

- Fodder Sorghum (CoFS-29)
- Guinea grass (Hemil)

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Horsegram (PHG9/CRIDA-18R) in August
- Foxtail millets (Navane) in August

Contingency Plan for NICRA village - Kharif 2015

KVK/District	: Villupuram
State	: Tamil Nadu
Name of Village	: Kattusiviri
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 1 st Week of July

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Groundnut	67	July 1 st week	Drought tolerant Groundnut varieties (TMV 7 and TMV13)	<ul style="list-style-type: none"> • Cumbu (CoCu 9) • Finger millet (Co 15)
Blackgram	10	July 1 st week	Short duration variety (MDU 1)	<ul style="list-style-type: none"> • Vegetable cowpea (PKM 1) as catch crop
Gourds	5	July 1 st week	Bottle gourd (CO (BG) H1)	-
Brinjal	4	July 1 st week	Co-2	<ul style="list-style-type: none"> • Amaranthus (Co-1 & Co-2)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Groundnut	<ul style="list-style-type: none"> • Groundnut (TMV 7 & 13) + Pigeonpea (BSR 1) (6:1).
Soil moisture management (<i>in situ</i> conservation practices)	Groundnut, Blackgram	<ul style="list-style-type: none"> • Growing of fodder grasses <i>viz.</i>, Kollukatti grass, Guinea grass on bunds
	Bottle gourd – CO (BG) H 1	<ul style="list-style-type: none"> • Broad bed furrow planting • Mulching
	Chilli Hybrid - Co 1	<ul style="list-style-type: none"> • Mulching with drip irrigation
Nutrient management (foliar nutrient sprays etc.)	Blackgram	<ul style="list-style-type: none"> • Foliar spray of Pulse wonder • Foliar spray of KCl (0.5-1%) if prolonged dry spell of more than two weeks
	Groundnut	<ul style="list-style-type: none"> • Foliar spray of Groundnut rich formula
	Brinjal	<ul style="list-style-type: none"> • Foliar spray of vegetable special • Foliar spray of KCl (0.5-1%) if prolonged dry spell of more than two weeks
Water management (Life saving irrigation from harvested water)	Chilli	<ul style="list-style-type: none"> • Mulching
	Groundnut	<ul style="list-style-type: none"> • Mobile sprinkler method of irrigation

3. List of fodder management demonstrations for livestock in contingency situations August/September

- Fodder Sorghum (CoFS-29)
- Anjan grass

4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Horsegram and Moth bean in 4th week of November to 1st week of December in drylands
- Groundnut or Blackgram depending on availability of water during first week of December in garden lands
- Paddy late Samba and Navarai, short duration rice varieties recommended (ADT 36, ADT 37, ADT 39 and ADT 45)

Contingency Plan for NICRA village - *Kharif* 2015

KVK/District	: West Garo Hills
State	: Meghalaya
Name of Village	: Marapara, Sananggre & Rongbokgre
Climate vulnerability	: Drought
Normal onset of Monsoon (date) at the location	: 1 st week of June

Agriculture contingency measures for implementation in NICRA village in case of delay in onset of monsoon/ deficit rainfall situation

1. Contingency crop plan for delay in planting

Normal crops	Normal sown area (ha)	Normal sowing time	Contingency plan for onset delay	
			Demonstration of short duration/ drought tolerant varieties of normal crop	Demonstration of alternate crop and variety for delay in planting (e.g., after 15 th July or specify date)
Rice	29	2 nd week to 4 th week of June	Gitesh (150-160 days)	<u>After 15 August</u> <ul style="list-style-type: none"> • Blackgram (Kalindi) • Greengram (Samrat)

2. Demonstration of agronomic measures

Category	Crop (s)	Contingency measures for deficit rainfall condition
Crop management (intercropping etc.)	Paddy	Staggered nursery (Gitesh)
Soil moisture management (<i>in situ</i> conservation practices)	-	-
Nutrient management	Paddy	Foliar spray of 1% urea+ 1% MoP
Water management (Life saving irrigation from harvested water)	Winter Vegetables	Irrigation using harvested water from Jalkund

3. List of fodder management demonstrations for livestock in contingency situations

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4. Early *rabi* crop plan for demonstration (for planting in *kharif* unsown areas during August/ September in the village)

- Blackgram (Kalindi) in September
- Greengram (Samrat) in September
- Raised and sunken bed (Maize + Frenchbean/ Vegetable)