

Planning Demonstration

2007 / 2008 – 2008 / 2009

First : Supplementary Irrigated region

Location : Hamidat (SI)				
Crops	Cultivar	Area -Donum	Treatments	Notes
Durum Wheat	Om Rabiaa/5	4	3	(Z.T-Chisel -Control)
	Cham/3	4	3	
Bread Wheat	Adnaniya	4	3	(Z.T-Chisel -Control)
	Tell affer/3	4	3	

Location : Al-Namroud (SI)				
Crops	Cultivar	Area -Donum	Treatments	Notes
Durum Wheat	Om Rabiaa/5	4	3	(Z.T-Chisel -Control)
	Cham/3	4	3	
	Lanhocan	100m2	1	
Bread Wheat	Adnaniya	4	3	(Z.T-Chisel -Control)
	Tell affer/3	4	3	
	Kema / 6	100m2	1	
	Ezaz / 11	100m2	1	

Location : Rabiaa (SI)

Crops	Cultivar	Area -Donum	Treatments	Notes
Durum Wheat	Om Rabiaa/5	4	3	(Z.T-Chisel -Control)
	Cham/3	4	3	
Bread Wheat	Adnaniya	4	3	(Z.T-Chisel -Control)
	Tell affer/3	4	3	

New Projects

Project	crops	cultivars	Area ha	Treat .	details	notes
Polymer gel	Durum wheat	Om Rabiaa/5	1	2+Z.T. as con.	with(100%,50%) of fertilizer lab. dose	one location only
Deep tillage subsoiler	Bread wheat	Tell affer/3	1	2+Z.T. as con.	Local +vibration subsoiler	one location only

Note 1: (Weed control) weed survey under all treatments.

Note 2: (IPM) : wheat seed treated with devedent (against covered smut) and cruiser (against leaf minor) before planting comparing with farmer land management.

Note 3 : (soil traits) : determination some soil properties under different agricultural system

Second : HRA (Alqush , Al shykhan, Rabiaa)

Location : Alqush				
Crops	Cultivar	Area -Donum	Treat.	Notes
Durum Wheat	Sham /3	4	3	(Z. T-Chisel -Control)
	Karonia / local	4	3	(Z. T-Chisel -Control)
	Ecacier / 2	100m ²	1	supplied with 1.400 kg for cultivating 100m ²
Bread Wheat	Abo Gharaib /3	4	3	(Z. T-Chisel -Control)
	Sham /6	4	3	(Z. T-Chisel -Control)
	Dejag /5	100m ²	1	supplied with 1.200 kg for cultivating 100m ²
	Inge /4	100m ²	1	supplied with 1.200 kg for cultivating 100m ²
Chickpea (Winter)	IPA 510	2	3	(Z. T-Chisel -Control)
	Ghab /4	2	3	(Z. T-Chisel -Control)
	Local	100m ²	1	
Chickpea (Spring)	IPA 510	2	3	(Z. T-Chisel -Control)
	Ghab /4	2	3	(Z. T-Chisel -Control)
	Local	100m ²	1	
Chickpea (Winter)	IPA 510	2	1	3 additional farmers would be given one variety each 2 donums. Each farmer = 60 Kg seed
	Ghab /4	2	1	
	Flip 97-706	2	1	
	Gokche	100m ²	1	One farmer was chosen to cultivate this variety. The strip area is 100m ² under the supervision of the program. The yield will be returned to the program
Chickpea (Spring)	IPA 510	2	1	4 additional farmers would be given one variety each 2 donums. Each farmer = 60 Kg seed
	Ghab /4	2	1	
	Flip 97-706	2	1	
	Gokche	2	1	
	Gokche	100m ²	1	One farmer was chosen to cultivate this variety. The strip area is 100m ² under the supervision of the program. The yield will be returned to the program

Location : Al shykhan (HRA)				
Crops	Cultivar	Area -Donum	Treat.	Notes
Durum Wheat	Sham / 3	4	3	(Z.T-Chisel -Control)
	Karonia / local	4	3	
Bread Wheat	Abo Gharaib /3	4	3	(Z.T-Chisel -Control)
	Sham /6	4	3	
Faba bean	Akwadilji	2	2	(Chisel -Control)
	ILB	2	2	
	Local	100m ²	1	

Location : Rabiaa (HRA)				
Crops	Cultivar	Area -Donum	Treat.	Notes
Durum Wheat	Sham /3	4	3	(Z.T-Chisel -Control)
	Karonia / local	4	3	
Bread Wheat	Abo Gharaib /3	4	3	(Z.T-Chisel -Control)
	Sham /6	4	3	

New Projects

Project	crops	cultivars	Area ha.	Treat .	details	notes
Polymer gel	Durum wheat	Cham, /3	1	2+Z. T. as con	with(100%,50%) of fertilizer lab. dose	one location only
Deep tillage subsoiler	Bread wheat	Abo Gharaiab / 3	1	2+Z. T. as con	Local +vibration subsoiler	one location only
Crop rotation-weed con.	Medical crop (Nigella sativa) after wheat	Any drought tolerance cultivar	1	2	Nigella-wheat Wheat-wheat	one location only
New crops	Oat-pea	Any drought tolerance cultivar	500m2 each		Evaluation& seed production	one location only
Mixed cropping	Wheat & flax		1		1 flax 2 mix 3 wheat	one location only
activation of chickpea defense against <u>Fusarium oxysporum cicer</u>	Chickpea	Many cultivars	100. m ² each		using a virulence isolates	Alqush
Test the susceptibility of some chickpea genotypes to Ascochyta blight disease	Chickpea	Many cultivars	100. m ² each			Alqush
Effect treating of wheat straw with the biocontror <u>Trichoderma harzianum</u> and K on growth of wheat and its infection with covered smut and root rot diseases.			100. m ² each	1. Straw treated with Bioncontrol spores 2. K fertilizer 40. Kg – Donum 3. both 4. control un treat		one location only

- **Note1:** (Weed control) weed survey under all treatments.
- **Note 2:** (IPM) : wheat seed treated with devedent (against covered smut) and cruiser (against leaf minor) before planting comparing with farmer land management.
- **Note3:** (IPM) : Efficacy of Cruiser350 FS and Celest 100 FS insecticides in protection of chickpea from *Fusarium solani* and lesser army worm comparing with farmer land management.
- **Note4 :** (soil traits) : determination some soil properties under different agricultural system.

Third : MRA (Telkief , Al-Hamdania , Bashyqa)

Location : Telkief				
Crops	Cultivar	Area -Donum	Treatments	Notes
Durum Wheat	Om Rabiaa/5	4	3	(Z.T- Chisel -Control)
	Karonia / local	4	3	(Z.T- Chisel -Control)
	Fada / 98	100m ²	1	supplied with 1.400 kg for cultivating 100m ²
Bread Wheat	Abo Gharaib /3	4	3	(Z.T- Chisel -Control)
	Sham /6	4	3	(Z.T- Chisel -Control)
	Babaja / 3	100m ²	1	supplied with 1.200 kg for cultivating 100m ²
	Abo Ziek	100m ²	1	supplied with 1.200 kg for cultivating 100m ²
Barley	Rihan / 3	4	3	(Z.T- Chisel -Control)
	Jazzera / 1	4	3	(Z.T- Chisel -Control)
	Alnanda / 1	100m ²	1	supplied with 1.200 kg for cultivating 100m ²
	Fat / 5	100m ²	1	supplied with 1.200 kg for cultivating 100m ²
Forage Legumes	IPA /2001	2	1	
	Seil / 587	2	1	

Location : Al-Hamdania				
Crops	Cultivar	Area -Donum	Treatments	Notes
Durum Wheat	Om Rabiaa/5	4	3	(Z. T -Chisel -Control)
	Karonia / local	4	3	(Z. T -Chisel -Control)
Bread Wheat	Abo Gharaib /3	4	3	(Z. T -Chisel -Control)
	Sham /6	4	3	(Z. T -Chisel -Control)
Barley	Rihan/3	4	3	(Z. T -Chisel -Control)
	Jazzera/1	4	3	(Z. T -Chisel -Control)
Lentil	IPA /98	4	3	(Z. T -Chisel -Control)
	Adlip /3	4	3	(Z. T -Chisel -Control)
	Local	100m ²	1	

Location: Bashyqa (MRA)				
Crops	Cultivar	Area -Donum	Treatments	Notes
Durum Wheat	Om Rabiaa/5	4	3	(Z.T-Chisel -Control)
	Karonia / local	4	3	
Bread Wheat	Abo Gharaib /3	4	3	(Z.T-Chisel -Control)
	Sham /6	4	3	
Barley	Rihan/3	4	3	(Z.T-Chisel -Control)
	Jazzera/1	4	3	

New Projects

project	crops	cultivars	Area ha.	Treat .	details	notes
Polymer gel	Durum wheat	Karonia	1	2+Z. T. as con	with(100%,50%) of fertilizer lab. dose	one location only
Deep tillage subsoiler	Bread wheat	Cham/6	1	2+Z. T. as con	Local +vibration subsoiler	one location only
Mixed cropping	Safflower & barley Rihan/3	Safflower ,spiny, early mature cultivar(20kg)	1	3	1-mixed, 2-safflower 3-barley under Z. T.	one location only
Crop rotation- weed con.	Medical crop(Nigella sativa) after wheat	Any drought tolerance cultivar	1	2	(Nigella-wheat) (Wheat-wheat)	one location only
Crop rotation- weed con.	Annual medic after barley	M.rijidula Or M.polymorpha	1	2	Medic-barley B &B	one location only
Adoption &production Perennial forage grasses	G . Agropyron- Phalaris-Lolium- Festuca-Dactylis,		100m2 each		Evaluation & seed production	one location only
Introducing of Lathyrus sativus	Promising lines of Vicia sativa – Lathyrus sativus		100m2 each		Evaluation & seed production	one location only
New crops	Oat-pea	Any drought tolerance cultivar	500m2 each		Evaluation & seed production	one location only
Hay making	75%common vetch25%barley		1	1	fodder	one location only

Note1: (Weed control) weed survey under all treatments.

Note 2: (IPM) : wheat seed treated with devedent (against covered smut) and cruiser (against leaf minor) before planting comparing with farmer land management.

Note3 : (soil traits) : determination some soil properties under different agricultural system.

Fourth: LRA (Hatra , Tel Abta , Almahalabia)

Location : Hatra (LRA)				
Crops	Cultivar	Area -Donum	Treatments	Notes
Barley	Zanbaka	4	2	(Z.T -Chisel - Control)
	Local Black	4	2	

Location : Tell Abta (LRA)				
Crops	Cultivar	Area -Donum	Treatments	Notes
Barley	Zanbaka	4	3	(Z.T-Chisel - Control)
	Local Black	4	3	
	Zanbaka/SLB 22-74	100m ²	1	
	Yazan	100m ²	1	

Breeding Research

Title-1 :Response of Barley , Durum Wheat and Bread Wheat lines to selection under dry land farming.

- **Research Objectives** :2 set of Barley , Durum Wheat and Bread Wheat lines will select for high yield under dry land condition in northern of Iraq (Mosul univ. farm).
- **Material and Methods** : Many Barley , Durum and Bread Wheat lines of ICARDA will sown under dry land condition in northern of Iraq using Randomize Complete Block Design with three replication. Best lines will select according to superiority in yield and its components and drought tolerance.

Mosul Univ. Breeders

- **Title-2 : Lentil & Chickpea**

- **1. LIDTN** Lentil International Drought Tolerance Nursery .
 - (20 Genotypes) .
- **2. CIDTN** Chickpea International Drought Tolerance Nursery .
 - (20 Genotypes) .
- **3. CIEN-SP.** Chickpea International Elite Nursery-Spring.
 - (24 Genotypes) .
- **4. CIYT, LIYT.** (16 Genotype) .

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Title-3 :Response of Barley , Durum Wheat and Bread Wheat lines to selection under dry land farming.

Moderate Rainfall Area (200-400 mm)

- Barley yield trail . one location at Bashiqa
- Bread Wheat yield trail . one location at Bashiqa
- Durum Wheat yield trail . one location at Bashiqa
- Note: The seed for these activates is not available, I requested for seed.

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and Staff of Ninevah Agric. Research Dept.

Weed Control Researches

- Title-1: factors influencing annual fluctuations of the weed seed bank in dry land farming in northern Iraq.
- Object :
- 1.To study some factors which effect on weed seed bank in different deep of soil .
- 2.To estimate the weed density in different locations .

Mosul Univ. researchers

- Title-2 :Ecology and biology studies on orobanche weed in dry land farming.
- Object:1. survey the parasitic weed in different legume field and to study the environmental factors effecting on germination and growth of that weed. Also life cycle and seed productivity will be study .
- 2.To check which the crop can be use as trap.

Mosul Univ. researchers