

## Questionnaire for Impact Assessment of New Wheat Varieties in Turkey

This survey targets farmers who produced **wheat in 2006/07** cropping year

### 1 - GENERAL INFORMATION

<b>Questionnaire No.</b>		<b>Date of interview</b>	----- -----
		<b>Rainfall rate 2006/07</b>	
<b>Province</b>		<b>District</b>	
<b>Village</b>		<b>Interviewer name</b>	
<b>Farmer name</b>		<b>Gender of farmer (M /F)</b>	

### 2. Wheat production in 2006/07 cropping year

Name of Wheat Variety	Year you started using the variety	Area grown (da)	Rain-fed or irrigated	Yield (kg /da)	Producer price (YTL /kg)
			1.Rain-fed 2.Irrigated		
			1.Rain-fed 2.Irrigated		
			1.Rain-fed 2.Irrigated		
			1.Rain-fed 2.Irrigated		
			1.Rain-fed 2.Irrigated		

1-Adana-99

2-Ahmetağa

3-Altay-2000

4- Amanos-97

5-Aydin-93

6- Bağcı-2002

7-Basribey

8-Bayraktar-2000

9-Beyaz Ziraat

10-Bezostaja-1

11-Ceyhan-99

12-Cosmos

13-Cumhuriyet-75

14-Çeşit-1252

15-Dağdaş-94

16-Dariel

17-Demir-2000

18-Dicle

19-Diyarbakir-81

20-Ege-88

21-Ekiz

22-Firat-93

23-Flamura

24-Fuatbey-2000

25-Gediz-75

26-Gelibolu

27-Gemini

28-Gerek-79

29-Golia

30-Gönen

31-Guadolope

32-Gun-91

33- Harran-95

34-İspanyol

35-Karahan-99

36-Kasıfbey

37-Katea 1

38-Kınacı-97

39-Kıraç-66

40-Kırgız

41-Kirkpınar

42-Kiziltan-91

43-Konya-2002

44-Kose

45-Lirasa

46-Meram-2002

47-Mızrak

48-Nurkent

49-Odeskaya

50-Pamukova

51-Pandas

52- Pehlivan

53-Prostar

54-Rodna

55-Sagettario

56-Sana

57-Saraybosna

58-Saricanak-98

59-Saroz

60-Selcuklu-97

61-Sönmez

62-Svevo

63-Tahirova

64-Tekirdag

65-Toros

66-Tosunbey

67-Turnadili

68-Ukrayna

69-Yuregir-89

70-Zenit

71-Zerun

72-Other-----

73-Other -----

74-Other-----

75-Other -----

76-Other-----

### 3. Area planted to wheat this year (in 2007 /08)

Name of Wheat Variety	Area sown (da)	Rain-fed or irrigated
		1.Rain-fed 2.Irrigated
		1.Rain-fed 2.Irrigated
		1.Rain-fed 2.Irrigated
		1.Rain-fed 2.Irrigated

### 4. Farmers' perceptions of wheat varieties

Name of <b>Wheat</b> variety	Preferred characteristics	Non-preferred characteristics	Who advised you to use this variety?

#### \* Code of reason for preferring the variety

- |                       |                            |                              |
|-----------------------|----------------------------|------------------------------|
| 1. Yields better      | 2. Resistant to disease    | 3. Resistant to lodging      |
| 4. Earliness          | 5. Fetch good market price | 6. Adaptable to the locality |
| 7. Resistant to frost | 8. Good bread quality      | 9. Resistance to drought     |
| 10. Good tillering    | 11. Good emergence         | 12. Other, specify _____     |

#### \*\* Code of reason for not preferring the variety

- |   |                                  |                            |
|---|----------------------------------|----------------------------|
| 1. Improved seed is unavailable         | 2. Improved seed is expensive    | 3. Fertilizer is expensive |
| 4. Unavailability of credit             | 5. Performs no better than local | 6. Disease attack          |
| 7. Yield is declining from time to time | 8. Shortage of land              | 9. Susceptible to water    |
| 10. Late maturing                       | 11. Shattering                   |                            |
| 12. Susceptible to cold /frost          | 13. Other, specify _____         |                            |

### 5. Information on wheat production costs

#### 5.1-Land preparation (per da)

Factors	Variety Name			
First ploughing				
Second ploughing				
Third ploughing				
Fourth ploughing				
Others _____				

## 5.2-How did you plant your wheat in 2006 /07 season?

Factor	Variety names				
Previous crop grown before wheat					
Seed source	1.Owned 2. Research Inst. 3. Tigem /public 4. Trader 5. Neighbor /relative 6. Ag-Coop. /farmer org. 7. Other-----	1.Owned 2. Research Inst. 3. Tigem /public 4. Trader 5. Neighbor /relative 6. Ag-Coop. /farmer org. 7. Other-----	1.Owned 2. Research Inst. 3. Tigem /public 4. Trader 5. Neighbor /relative 6. Ag-Coop. /farmer org. 7. Other-----	1.Owned 2. Research Inst. 3. Tigem /public 4. Trader 5. Neighbor /relative 6. Ag-Coop. /farmer org. 7. Other-----	1.Owned 2. Research Inst. 3. Tigem /public 4. Trader 5. Neighbor /relative 6. Ag-Coop. /farmer org. 7. Other-----
Seed price at farm gate (YTL/kg)					
Seed rate (kg/da)					
Sowing Method	1.Drill 2.Hand 3.Spinner	1.Drill 2.Hand 3.Spinner	1.Drill 2.Hand 3.Spinner	1.Drill 2.Hand 3.Spinner	1.Drill 2.Hand 3.Spinner
Cost of sowing (YTL/da)					
Method of seed treatment	1.Chemical 2.Mechanical 3.None	1.Chemical 2.Mechanical 3.None	1.Chemical 2.Mechanical 3.None	1.Chemical 2.Mechanical 3.None	1.Chemical 2.Mechanical 3.None
Cost of seed treatment (YTL /kg)					
Seed Covering (if hand sown)	1. Cultivator 2. Roller 3. Harrow	1. Cultivator 2. Roller 3. Harrow	1. Cultivator 2. Roller 3. Harrow	1. Cultivator 2. Roller 3. Harrow	1. Cultivator 2. Roller 3. Harrow
Cost of seed covering (YTL/da)					

### 5.3-Fertilizer & manure application (for 2006 /07 season)

Factor	Variety Name				
	-----	-----	-----	-----	-----
Did you apply manure?	1-Yes 2-No	1-Yes 2-No	1-Yes 2-No	1-Yes 2-No	1-Yes 2-No
<b><u>At planting time</u></b>					
Manure quantity (tons /da)					
Cost of manure application (YTL/da)					
Di-Amonium Phosphate (kg/da)					
Cost of DAP application (YTL /da)					
Quantity of composite fertilizer 20-20-0 (Kg/da)					
Cost of 20-20-0 application (YTL /da)					
Quantity of composite fertilizer 15-15-15 (Kg/da)					
Cost of 15-15-15 application (YTL /da)					
<b><u>Second Application</u></b>					
Quantity of Urea 46% (kg/da)					
Cost of application Urea (YTL/da)					
Quantity of Amonium Nitrate 33% (kg/da)					
Cost of application Nitrate 33% (YTL/da)					
Quantity of Amonium Nitrate 26% fertilizer (Kg/da)					
Cost of Amonium Nitrate 26% application (YTL /da)					
Quantity of Amonium Sulfate fertilizer (Kg/da)					
Cost of Amonium Sulfate application (YTL /da)					

### 5.3-Fertilizer & manure application (for 2006 /07 season) .....(Continued)

<b><u>Third Application</u></b>					
Quantity of Urea 46% (kg/da))					
Cost of application Urea (YTL/da)					
Quantity of Amonium Nitrate 33% (kg/da)					
Cost of application Nitrate 33% (YTL/da)					
Quantity of Amonium Nitrate 26% fertilizer (Kg/da)					
Cost of Amonium Nitrate 26% application (YTL /da)					
Quantity of Amonium Sulfate fertilizer (Kg/da)					
Cost of Amonium Sulfate application (YTL /da)					

### 5.4 - Farm-gate price of fertilizers and manure (YTL /ton)

(Only fertilizers used by the farmers)

Price of manure	Price of NPK 15-15-15	Price of DAP	Price of Urea	Price of NPK 20-20-0	Amonium Nitrate (33%) fertilizer	Amonium nitrate (26%) fertilizer	Amonium sulfate
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Were fertilizers purchased on credit?

1. Yes

2. No

### 5.5 - Methods of weed control and their costs

Factor	Variety name				
	-----	-----	-----	-----	-----
<b><u>Methods</u></b>	1.Hand /manual  2.Chemical	1.Hand /manual  2.Chemical	1.Hand /manual  2.Chemical	1.Hand /manual  2.Chemical	1.Hand /manual  2.Chemical
Number of weeding					
Amount of <u>liquid</u> herbicide (liters /da)					
Cost of liquid herbicide (YTL/da )					
Cost of spraying (YTL/da)					
Amount of <u>solid</u> herbicide (grams /da)					
Cost of solid herbicide (YTL/da)					
Cost of spraying (YTL/da)					

### 5.5-Disease and pest control methods and costs

Factor	Variety name				
	-----	-----	-----	-----	-----
Name of disease					
Degree of infestation	1.High 2.Medium 3.Low	1.High 2.Medium 3.Low	1.High 2.Medium 3.Low	1.High 2.Medium 3.Low	1.High 2.Medium 3.Low
Quantity of chemical (liter or cc /da)					
Cost of chemical (YTL /liter)					
Cost of chemical application (YTL /da)					
Name of insect					
Degree of insect infestation	1.High 2.Medium 3.Low	1.High 2.Medium 3.Low	1.High 2.Medium 3.Low	1.High 2.Medium 3.Low	1.High 2.Medium 3.Low
Quantity of chemical (liter or cc /da)					
Cost of chemical (YTL /liter)					
Cost of chemical application (YTL /da)					

### 5.6-Irrigation regimes in wheat production (2006/07 season)

Did you produce any variety of wheat under irrigation?

1. Yes
2. No (if no, skip this section & continue with question on harvesting)

If yes, provide details about irrigation practices

	Variety Name				
Factor	-----	-----	-----	-----	-----
<b>Irrigation technology</b>	1.	1.	1.	1.	1.
1-Flow irrigation	2.	2.	2.	2.	2.
2-Sprinkler	3.	3.	3.	3.	3.
3-Drip irrigation					
<b>Irrigation source</b>	1.	1.	1.	1.	1.
1-Surface	2.	2.	2.	2.	2.
2-Groundwater (well)					
Number of irrigation for the growing season (2006/07)					
Costs of <u>One Irrigation</u> / fuel, electricity, labor; (YTL /da)					
Payment to Cooperative and Irrigation Union (YTL/da)					

### 5.7 - Harvesting and Marketing costs

Factor	Variety name				
	-----	-----	-----	-----	-----
<b>Method</b>	1.	1.	1.	1.	1.
1. Hand /manual	2.	2.	2.	2.	2.
2. Mechanical	3.	3.	3.	3.	3.
3. Combine					
Cost of harvesting (YTL /da)					
Cost of grain transportation (YTL /ton)					
Cost of handling straw (YTL /da)					
Cost of weighting (YTL/ton)					
Stoppage Payment (YTL/ton)					
Borsa payment YTL/ton)					
Other _____ (YTL /da)					

5.8-What are the average **grain yields (Kg/da)** of the following varieties in different seasons?

Seasons	Variety Name				
	-----	-----	-----	-----	-----
In a good year					
In a normal year					
In a bad year					

5.9-What is the average **straw yield (Kg/da)** of the following crops in different seasons?

Seasons	Variety Name				
	-----	-----	-----	-----	-----
In a good year					
In a normal year					
In a bad year					

In the last 10 years how many years were: **1.Good..... 2.Normal ..... 3.Bad .....**?

**5.10 -What were the farm-gate prices (producer prices) for straw in 2006/07 season?**

Seasons	Variety Name				
	-----	-----	-----	-----	-----
Straw selling price (YTL /ton)					

**5.11-Amount of grain production kept for food and straw for livestock on farm (2006/07)**

Seasons	Variety Name				
	-----	-----	-----	-----	-----
Wheat grain for household food (kg)					
Wheat straw kept for feeding livestock (kg)					

### 5.12-Disposal of grain wheat production in 2006/07 (kg)

Item	Variety Name				
	-----	-----	-----	-----	-----
Sold to stock exchange /borsa					
Private traders					
Milling					
Sold as seed					
Saved as seed					
Turkish Grain Board /Office					
Helping the poor & others					
Other uses .....					

## 6 - Sources of household income

### 6.1-Crop production and revenues for 2006/2007

Crop name	Area cultivated (da)	Estimated production (kg)	Indicative producer price (YTL /kg)	Crop support / public subsidies received (YTL/da)	Price support (YTL/kg)
Wheat					
Barley					
Maize - corn					
Maize - silage					
Millet					
Lentil					
Chickpea					
Sunflower					
Sugar beet					
Rice					
Cotton					
Dry bean					
Potato					
Vegetables					
Clover					

### 6.1-Crop production and revenues for 2006/2007 (continued)

Vetch  
Alfalfa  
Seinfoin  
Citrus  
Apples  
Grapes  
Other fruit trees  
Others crops

### 6.2-Government support programmes per household for all crops grown in 2006/07

Type of support	Total amount received (YTL)	Comments
Direct income support		
Use of certified seed		
Fuel-oil support		
Fertilizer support		
Drought damage		
Crop insurance		
Producer price support		
Others .....		

### 6.3-Income from livestock activities

What was the sale of livestock and livestock products during 2006/07

Livestock /products	Specify unit	Number of units sold	Average unit price (YTL)
Cattle /cows etc.	Head		
Sheep	Head		
Goats	Head		
Poultry	Head		
Egg	Number		
Milk /cream	Liter		
Hides /Skin /leather	Number		
Butter /Cheese	Kg		
Honey	Kg		
Others_____			
Others_____			

#### 6.4-Income from other activities (2006/07)

Please list the amount of income /revenues obtained from other activities

Activity	Estimated income obtained (YTL)
Labor wage from agriculture	
Non-agriculture wage (off-farm income /pension)	
Land rental /receipts from share cropping	
Money transfer from household members	
Rent of tractor & equipment to other farmers	
Shops /small business	
Others	

#### 7 - Livelihoods characterization

##### 7.1-Natural capital

1. What is your total land holding? ..... (da)

Land type:

- a. Arable (can be cultivated) ..... (da)
- b. Non-arable (grazing).....(da)

Land ownership

- a. Owned .....(da)
- b. Sharecropping ..... (da)
- c. Rented land ..... (da)

What is the total area irrigated on your farm (all crops in 2006/07)? ..... da

##### 7.2-Physical capital

Can you estimate the value of the following items if available?

Items	Number of units	Market Price per unit (current value)	Total Value
Non-arable land			
Arable land			
Land planted with trees			
House			
Shops			
Tractors			
Drill			
Plough			
Pulverisator			
Spinner			
Mower /grass cutting			
Rollers			

Can you estimate the value of the following items if available? (continued)

Irrigation equipment			
Harvesting machines			
Trailer /remork			
Chiezel			
Milk extractor			
Milk processor			
Other equipment----			
Cars			
Pick-up			
Lorry / truck			
Sheep			
Cows			
Goats			
Poultry			
Other .....			

- How far do you have to transport wheat for selling? .....km
- Do you have a telephone in your house or Mobile phone? 1-Yes 2-No
- How many rooms do you have in your house .....rooms
- Do you have a satellite dish and T.V? 1- Yes 2-No

### 7.3-Financial Capital

How can you classify the livelihoods of your household?

1- Very poor 2-Poor 3- Moderately well-off 4-Well-off

- Did your household save money last year? 1-Yes 2-No
- Did you use credit to fund production in 2006/07? 1-Yes 2-No
- If yes, what is the source of credit? .....
- If yes, how much? .....(YTL)

### 7.4-Human Capital

#### A-Socio demographic characteristics

Description	RESPONSE
Age of household head (years)	
Highest level of school education completed 0 =None 1=Primary 2= Secondary 3=High school 4=University 5= Can read and write	
Number of years of experience in agricultural production?	

**B-Household composition**

Age range	Members residing in the village		Members non-resident in the village	
	Female	Male	Female	Male
< 7 years				
8 - 15 years				
16 – 59 years				
> 60 years				

Total family size: \_\_\_\_\_Persons

**Size of family labor** (Number family members above 16 and below 60 yrs old, including the household head, who work full time on household's farms \_\_\_\_\_Persons

**Permanent Hired Labor** in agriculture (more than 6 months) \_\_\_\_\_Persons

Number of specific agricultural training courses /workshop you and other household members received in the past 5 years? ..... Times.

Did any member in the household studied or is studying in agriculture school?

1-yes

2-No

If yes, what is the type of the study? .....

Did any member in the household have university degree? 1-Yes 2-No

Where do you have information on agriculture and animal husbandry?

1. Agricultural extension

2. Cooperative

3. Relatives

4. Neighbors

5. Traders

6. Own experience

7. Agricultural consultants

8. Other .....

How many times you had contact with extension services in 2006/07? \_\_\_\_\_ times

**7.5 - Social Capital**

Is there a cooperative in your village?

1-Yes

2-No

Are you a member in the cooperative?

1-Yes

2-No

Are you a member of any other organization?

1-Yes

2-No

Did you exchange the agricultural information with others farmers?

If yes, with who.....

If yes, how frequent? ..... Time/year

Do you consider yourself /household member to be active in the group or your community (such as by attending meetings, volunteering your time in other ways), or are you relatively inactive? Are you /household member a leader in the group?

1- Leader

2- Very active

3- Somewhat active

4- Not active

Do you think that in this village/ neighborhood people generally trust one another in matters of lending and borrowing?

1- Do trust

2- Trust sometimes

3- Do not trust

Do you think over the last few years this level of trust has become better, worse or remained the same?

1- Better

2- The same

3- Worse

**THANK YOU**