

**(B) SUMMARY OF THE INFORMATION
COLLECTED DURING SURVEY OF 17
DISTRICTS OF PUNJAB**

Summary of the information collected during the survey for the district of Multan

- **Number of farmers interviewed:** 150
- **Number of farmers having different size of farms:**

- Up to 5 acres: 68 (45.3%)
- 5.1 to 12 acres: 43 (28.7%)
- 12.1 to 25 acres: 28 (18.7 %)
- > 25 acres: 11 (7.3%)

- **Crops being grown in the district:**

Wheat, Cotton, Sorghum, Berseem, Maize, Rice, Barley, Mango. The major area is covered by wheat and cotton , so adopted production technology of these two crops is summarized below:

- **Varieties:**

Wheat: Majority “Sehar” followed by “Punjab 2011”, “Ass 2011”, “FSD 2008”.

Cotton: Majority “886” followed by 986 and 142. Some farmers used other BT Varieties, such as 555, 616, 777 and 815.

- **Method of sowing**

Wheat: Almost all used broadcast method

Cotton: Majority used “Beds methods” followed by Drill sowing by few farmers

- **Fertilizer Use:**

Wheat: Majority used 2 bags urea and one bag DAP

Cotton: Majority used 3 to 5 bags urea and one bag DAP

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide

Cotton: Most of the farmers used weedicide

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 34
- Number of farmers having yield 40 to 49 mds/acre : 72
- Number of farmers having yield 30 to 39 mds/acre : 42
- Number of farmers having yield less than 30 mds/acre : 02

Cotton

- Number of farmers having yield 40 or more mds/acre: 11
- Number of farmers having yield 30 to 39 mds/acre : 37
- Number of farmers having yield 20 to 29 mds/acre : 101
- Number of farmers having yield less than 20 mds/acre : 1

Summary of the information collected during the survey for the district of Faisalabad

- **Number of farmers interviewed:** 135
- **Number of farmers having different size of farms:**
 - Up to 5 acres: 38 (28 %)
 - 5.1 to 12 acres: 56 (41.5%)
 - 12.1 to 25 acres: 26 (19.3%)
 - > 25 acres: 15 (11.2%)

- **Crops being grown in the district:**

Wheat, berseem, sugarcane, rice, maize, Cotton, Sorghum. The main crops are wheat, cotton, rice, maize and sugarcane, so adopted production technology of these crops is summarized below:

- **Varieties:**

Wheat: Sehar, Punjab 2011, FSD 2008, galaxy, lasani, millat, and Watan.

Rice: Super Basmati, Super 515, Kyanat, Kernal Basmati

Sugarcane: HSF 240, SPF 234, CPF 237, CPF 246, CPF 247.

Maize : Mostly farmers grew hybrid seed followed by Sadaf & Neelum OPVs and local seed.

Cotton: 886, 142, 240, 137.

- **Method of sowing**

Wheat: Broadcast followed by drill method.

Rice: transplanting in puddled soil

Sugarcane: Line sowing

Maize : line sowing as well as broadcast

Cotton: line sowing with drill

- **Fertilizer Use:**

Wheat: Majority used 1- 2 bags urea and 1-2 bags DAP followed by 3 bags urea and 2 Bags DAP by some farmers

Rice: Urea 1-3 bags and DAP mostly farmers used 1 bag and only few used 2 bags.

Sugarcane: Most of farmers used 2-4 bags of urea and 1-2 bags of DAP, however few farmers used 5-6 bags of urea.

Maize: Most of farmers used 2 bags urea and one bag DAP, however few farmers used up to 4 bags of urea and 2 bags of DAP.

Cotton: 1 to 4 bags urea and one to two bags DAP

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide

Rice: Almost all the farmers used weedicide

Sugarcane: Almost, everyone used weedicide

Maize : Most of the farmers used weedicides

Cotton: Almost all the farmers used weedicide

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 24
- Number of farmers having yield 40 to 49 mds/acre : 87
- Number of farmers having yield 30 to 39 mds/acre : 21
- Number of farmers having yield less than 30 mds/acre : 1

Rice:

- Number of farmers having yield 50 or more mds/acre: 7
- Number of farmers having yield 40 to 49 mds/acre : 19
- Number of farmers having yield 30 to 39 mds/acre : 12
- Number of farmers having yield less than 30 mds/acre : 2

Sugarcane

- Number of farmers having yield 800 or more mds/acre: 34
- Number of farmers having yield 600 to 799 mds/acre : 52
- Number of farmers having yield 400 to 599 mds/acre : 17
- Number of farmers having yield less than 400 mds/acre : 2

Maize

- Number of farmers having yield 80 or more mds/acre: 2
- Number of farmers having yield 60 to 79 mds/acre : 6
- Number of farmers having yield 40 to 59 mds/acre : 7
- Number of farmers having yield less than 40 mds/acre : 5

Cotton

- Number of farmers having yield 40 or more mds/acre: 3
- Number of farmers having yield 30 to 39 mds/acre : 3
- Number of farmers having yield 20 to 29 mds/acre : 3
- Number of farmers having yield less than 20 mds/acre : 4

Summary of the information collected during the survey for the district of Tobe Tek singh

- **Number of farmers interviewed:** 133
- **Number of farmers having different size of farms:**
 - Up to 5 acres: 37 (27.8 %)
 - 5.1 to 12 acres: 46 (34.6 %)
 - 12.1 to 25 acres: 35 (26.3%)
 - > 25 acres: 15 (11.3 %)

- **Crops being grown in the district:**

Wheat, berseem, sugarcane, rice, maize, Cotton, Sorghum, Til, Mung, Potato and other vegetables. The main crops are wheat, cotton, rice, maize and sugarcane, so adopted production technology of these crops is summarized below:

- **Varieties:**

Wheat: Sehar, Punjab 2011, FSD 2008, galaxy, Ass, millat, and Watan.

Rice: Super Basmati, Super 515, Kyanat, Kernal Basmati and shaheen

Sugarcane: HSF 240, SPF 234, CPF 237, CPF 246, CPF 247.

Maize : Mostly farmers grew hybrid seed of different companies.

Cotton: 142, 886, 121, 252.

- **Method of sowing**

Wheat: Broadcast followed by drill method.

Rice: transplanting in puddled soil

Sugarcane: Line sowing

Maize : line sowing by hand (Choppa) as well as with machines

Cotton: line sowing with drill and some farmers used “Choppa” method

- **Fertilizer Use:**

Wheat: Majority used 1- 2 bags urea and 1-2 bags DAP followed by 3-4 bags urea and 2 Bags DAP by few farmers

Rice: Urea 1-3 bags and DAP mostly farmers used 1 bag and only few used 2 bags.

Sugarcane: Most of farmers used 2-4 bags of urea and 1-2 bags of DAP, however few farmers used 5-8 bags of urea.

Maize: Most of farmers used 2-4 bags urea and 1-2 bags DAP, however few farmers used up to 8 bags of urea and 2 bags of DAP.

Cotton: Mostly farmers used 1 to 4 bags urea and one to two bags DAP but few farmers used up to 8 bags of urea with 2 bags of DAP

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide

Rice: Almost all the farmers used weedicide

Sugarcane: Almost, everyone used weedicide

Maize : Most of the farmers used weedicides

Cotton: Almost all the farmers used weedicide

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 65
- Number of farmers having yield 40 to 49 mds/acre : 60
- Number of farmers having yield 30 to 39 mds/acre : 3
- Number of farmers having yield less than 30 mds/acre : 0

Rice:

- Number of farmers having yield 50 or more mds/acre: 21
- Number of farmers having yield 40 to 49 mds/acre : 20
- Number of farmers having yield 30 to 39 mds/acre : 2
- Number of farmers having yield less than 30 mds/acre : 0

Sugarcane

- Number of farmers having yield 800 or more mds/acre: 66
- Number of farmers having yield 600 to 799 mds/acre : 19
- Number of farmers having yield 400 to 599 mds/acre : 10
- Number of farmers having yield less than 400 mds/acre : 1

Maize

- Number of farmers having yield 80 or more mds/acre: 12
- Number of farmers having yield 60 to 79 mds/acre :16
- Number of farmers having yield 40 to 59 mds/acre : 14
- Number of farmers having yield less than 40 mds/acre : 2

Cotton

- Number of farmers having yield 40 or more mds/acre: 27
- Number of farmers having yield 30 to 39 mds/acre : 20
- Number of farmers having yield 20 to 29 mds/acre : 15
- Number of farmers having yield less than 20 mds/acre : 7

Summary of the information collected during the survey for the district of Jhang

- **Number of farmers interviewed:** 130
- **Number of farmers having different size of farms:**
 - Up to 5 acres: 26 (20 %)
 - 5.1 to 12 acres: 48 (36.9 %)
 - 12.1 to 25 acres: 34 (26.2 %)
 - > 25 acres: 22 (16.9 %)

- **Crops being grown in the district:**

Wheat, Rice, Sugarcane, Berseem, Sorghum, Cotton, Maize, Til , Mung and vegetables.

The main crops are wheat, cotton, rice, and sugarcane, so adopted production technology of these crops is summarized below:

- **Varieties:**

Wheat: Sehar, Punjab 2011, FSD 2008, galaxy, lasani, Ass, and Watan.

Rice: Kernal Basmati, Kyanat, Super Basmati, Super 515.

Sugarcane: Mainly HSF 240 and in some cases SPF 234 & CPF 246.

Cotton: Main varieties were 886 and 142, however, some farmers grew BT 240, 802 & 666.

- **Method of sowing**

Wheat: Most of the farmers by Broadcast followed by drill method by few farmers.

Rice: transplanting in puddled soil

Sugarcane: Line sowing

Cotton: line sowing with drill

- **Fertilizer Use:**

Wheat: Majority used 2 bags urea and 1 bags DAP followed by 3-4 bags urea and 1.5-2

Bags DAP by some farmers

Rice: Urea 1-3 bags and DAP 1-2 bags.

Sugarcane: Most of farmers used 2-4 bags of urea and 1-2 bags of DAP, however few farmers used 5-6 bags of urea.

Cotton: Mostly 1 to 4 bags urea and one to two bags DAP, however some farmers used up to 6 bags of urea

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide

Rice: Almost all the farmers used weedicide

Sugarcane: Almost, everyone used weedicide

Cotton: Almost all the farmers used weedicide

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 26
- Number of farmers having yield 40 to 49 mds/acre : 85
- Number of farmers having yield 30 to 39 mds/acre : 12
- Number of farmers having yield less than 30 mds/acre : 2

Rice:

- Number of farmers having yield 50 or more mds/acre: 17
- Number of farmers having yield 40 to 49 mds/acre : 48
- Number of farmers having yield 30 to 39 mds/acre : 12
- Number of farmers having yield less than 30 mds/acre : 1

Sugarcane

- Number of farmers having yield 800 or more mds/acre: 43
- Number of farmers having yield 600 to 799 mds/acre : 24
- Number of farmers having yield 400 to 599 mds/acre : 4
- Number of farmers having yield less than 400 mds/acre : 4

Cotton

- Number of farmers having yield 40 or more mds/acre: 10
- Number of farmers having yield 30 to 39 mds/acre : 32
- Number of farmers having yield 20 to 29 mds/acre : 17
- Number of farmers having yield less than 20 mds/acre : 11

Summary of the information collected during the survey for the district of Chiniot

- **Number of farmers interviewed:** 119
- **Number of farmers having different size of farms:**

- Up to 5 acres: 19 (16 %)
- 5.1 to 12 acres: 44 (37 %)
- 12.1 to 25 acres: 26 (22 %)
- > 25 acres: 30 (25 %)

- **Crops being grown in the district:**

Wheat, Rice, Sugarcane, Berseem, Sorghum, Maize, Cotton, ,Til , Mung, Potato, Millet, Peas, Bamboo and orange orchard. The main crops are wheat, rice, sugarcane and maize so adopted production technology of these crops is summarized below:

- **Varieties:**

Wheat: Sehar, Punjab 2011, FSD 2008, galaxy, Ass.

Rice: Main variety was Super basmati followed by Kernal basmati and Kyanat.

Sugarcane: Mainly HSF 240 and in some cases SPF 234 & CPF 246.

Maize: Almost half farmers used hybrid and rest half used their seed of local varieties.

- **Method of sowing**

Wheat: Almost all the farmers used “Broadcast” method.

Rice: transplanting in puddled soil

Sugarcane: Line sowing

Maize: Mostly farmers did line sowing but some still used broadcast method

- **Fertilizer Use:**

Wheat: 1- 3 bags of urea and 1-2 bags of DAP

Rice: Urea 1-4 bags and DAP 1-2 bags.

Sugarcane: Most of farmers used 2-4 bags of urea and 1-2 bags of DAP, however few farmers used 5-6 bags of urea.

Maize: Mostly 1 to 4 bags urea and one to two bags DAP, however some farmers used up to 6 bags of urea and 3 bags of DAP.

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide

Rice: Almost all the farmers used weedicide

Sugarcane: Almost, everyone used weedicide

Maize: Almost all the farmers used weedicide

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 30
- Number of farmers having yield 40 to 49 mds/acre : 65
- Number of farmers having yield 30 to 39 mds/acre : 15
- Number of farmers having yield less than 30 mds/acre : 3

Rice:

- Number of farmers having yield 50 or more mds/acre:21
- Number of farmers having yield 40 to 49 mds/acre : 48
- Number of farmers having yield 30 to 39 mds/acre : 13
- Number of farmers having yield less than 30 mds/acre : 2

Sugarcane

- Number of farmers having yield 800 or more mds/acre: 36
- Number of farmers having yield 600 to 799 mds/acre : 36
- Number of farmers having yield 400 to 599 mds/acre : 13
- Number of farmers having yield less than 400 mds/acre : 2

Maize

- Number of farmers having yield 80 or more mds/acre: 23
- Number of farmers having yield 60 to 79 mds/acre : 7
- Number of farmers having yield 40 to 59 mds/acre : 0
- Number of farmers having yield less than 40 mds/acre : 0

Summary of the information collected during the survey for the district of Rahim Yar Khan

- **Number of farmers interviewed:** 150
- **Number of farmers having different size of farms:**

- Up to 5 acres: 31 (20.7%)
- 5.1 to 12 acres: 55 (36.7%)
- 12.1 to 25 acres: 40 (26.6 %)
- > 25 acres: 24 (16 %)

- **Crops being grown in the district:**

Wheat, Cotton, sugarcane, Sorghum, Berseem, Rice, Mango. The major area is covered by wheat and cotton, so adopted production technology of these two crops is summarized below:

- **Varieties:**

Wheat: Majority “Sehar” “Ass 2011” and “shafaq” followed by “Punjab 2011”, “FSD 2008”.

Cotton: Majority “886” followed by 142 and 986. Some farmers used 555 and other BT Varieties.

- **Method of sowing**

Wheat: Almost all used broadcast method

Cotton: Almost all used “Beds methods” .

- **Fertilizer Use:**

Wheat: Majority used 2 bags urea and one bag DAP

Cotton: Majority used 2 to 4 bags urea and 1 to 1.5 bags DAP

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide

Cotton: Almost all the farmers used weedicide

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 41
- Number of farmers having yield 40 to 49 mds/acre : 98
- Number of farmers having yield 30 to 39 mds/acre : 11
- Number of farmers having yield less than 30 mds/acre : 0

Cotton

- Number of farmers having yield 40 or more mds/acre: 02
- Number of farmers having yield 30 to 39 mds/acre : 45
- Number of farmers having yield 20 to 29 mds/acre : 94
- Number of farmers having yield less than 20 mds/acre : 01

Summary of the information collected during the survey for the district of Bahawalpur

- **Number of farmers interviewed:** 150
- **Number of farmers having different size of farms:**

- Up to 5 acres: 53 (35.3%)
- 5.1 to 12 acres: 54 (36%)
- 12.1 to 25 acres: 32 (21.3%)
- > 25 acres: 11 (7.3%)

- **Crops being grown in the district:**

Wheat, Cotton, sugarcane, Sorghum, Berseem, Rice, Mango. The major area is covered by wheat and cotton, so adopted production technology of these two crops is summarized below:

- **Varieties:**

Wheat: Majority “Sehar” and “Ass 2011” followed by “Punjab 2011”, “FSD 2008”.

Cotton: Majority “886” followed by 142 and 986. Some farmers used Tarzan and other BT Varieties.

- **Method of sowing**

Wheat: Almost all used broadcast method

Cotton: Almost all used “Beds methods” and only few did sowing by Drill.

- **Fertilizer Use:**

Wheat: Majority used 2 bags urea and one bag DAP

Cotton: Majority used 2 to 4 bags urea and one bag DAP

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide

Cotton: Almost all the farmers used weedicide

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 16
- Number of farmers having yield 40 to 49 mds/acre : 101
- Number of farmers having yield 30 to 39 mds/acre : 28
- Number of farmers having yield less than 30 mds/acre : 0

Cotton

- Number of farmers having yield 40 or more mds/acre: 0
- Number of farmers having yield 30 to 39 mds/acre : 18
- Number of farmers having yield 20 to 29 mds/acre : 112
- Number of farmers having yield less than 20 mds/acre : 15

Summary of the information collected during the survey for the district of Bahawalnagar

- **Number of farmers interviewed:** 150
- **Number of farmers having different size of farms:**

- Up to 5 acres: 39 (26%)
- 5.1 to 12 acres: 48 (32%)
- 12.1 to 25 acres: 45 (30 %)
- > 25 acres: 18 (12%)

- **Crops being grown in the district:**

Wheat, Cotton , Sugarcane , Sorghum , Berseem, Maize, Rice and Mango. The major area is covered by wheat and cotton, so adopted production technology of these two crops is summarized below:

- **Varieties:**

Wheat: Majority “Sehar ” followed by “Lasani ”, “FSD 2008 ”and “Ass 2011 ”.

Cotton: Majority “MNH-886” followed by FH-142 and MNH-986 . Some farmers used other BT Varieties, such as SG1, 666,Z 33,and 252.

- **Method of sowing**

Wheat: All used broadcast method.

Cotton: Majority used “Drill method (101)” followed by Bed sowing (38) by few farmers

- **Fertilizer Use:**

Wheat: Majority used 2 bags urea and one bag DAP

Cotton: Majority used 3 to 4 bags urea and 1 to 1.5 bags DAP

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide.

Cotton: Most of the farmers used weedicide.

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 05
- Number of farmers having yield 40 to 49 mds/acre : 72
- Number of farmers having yield 30 to 39 mds/acre : 69
- Number of farmers having yield less than 30 mds/acre : 04

Cotton

- Number of farmers having yield 40 or more mds/acre: 02
- Number of farmers having yield 30 to 39 mds/acre : 16
- Number of farmers having yield 20 to 29 mds/acre : 67
- Number of farmers having yield less than 20 mds/acre : 53

Summary of the information collected during the survey for the district of Lodhran

- **Number of farmers interviewed:** 148
- **Number of farmers having different size of farms:**

- Up to 5 acres: 47 (31.8%)
- 5.1 to 12 acres: 43 (29 %)
- 12.1 to 25 acres: 34 (23%)
- > 25 acres: 24 (16.2%)

- **Crops being grown in the district:**

Wheat, Cotton, Sorghum, Berseem, Sesame. The major area is covered by wheat and cotton, so adopted production technology of these two crops is summarized below:

- **Varieties:**

Wheat: Majority “Sehar” and “Ass 2011” followed by “Punjab 2011”and “FSD 2008”.

Cotton: Majority “886” followed by 142. Some farmers used other BT Varieties such as 986, 555, 815, and 777.

- **Method of sowing**

Wheat: Almost all used broadcast method

Cotton: Almost all used “Beds methods”.

- **Fertilizer Use:**

Wheat: Majority used 2 bags urea and one bag DAP followed by 2 bags urea and 2 bags DAP by few farmers

Cotton: Majority used 2 to 4 bags urea and one bag DAP

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide

Cotton: Almost all the farmers used weedicide

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 25
- Number of farmers having yield 40 to 49 mds/acre : 86
- Number of farmers having yield 30 to 39 mds/acre : 36
- Number of farmers having yield less than 30 mds/acre : 0

Cotton

- Number of farmers having yield 40 or more mds/acre: 04
- Number of farmers having yield 30 to 39 mds/acre : 30
- Number of farmers having yield 20 to 29 mds/acre : 112
- Number of farmers having yield less than 20 mds/acre : 01

Summary of the information collected during the survey for the district of Lahore

- **Number of farmers interviewed:** 150
- **Number of farmers having different size of farms:**

- Up to 5 acres: 51 (34%)
- 5.1 to 12 acres: 55 (36.66%)
- 12.1 to 25 acres: 31 (20.66 %)
- > 25 acres: 13 (8.66%)

- **Crops being grown in the district:**

Wheat , Rice , Sorghum , Berseem , Maize , Sugar cane, Corriander, Spinach , Carrot, Maize (fodder) , Oat, Canola , Potato, Turnip . The major area is covered by Wheat and Rice, so adopted production technology of these crops are summarized below:

- **Varieties:**

Wheat: “Sehar ” “FSD 2008 ”, “Lasani ”, Punjab-2011 , “Wattan ”, “Ass 2011”.

Rice: “super basmati ” basmati- 515 . Some farmers also used other varieties, such as superi, IRRI-6, basmati-385 .

- **Method of sowing**

Wheat: Almost all farmers used broadcast method.

Rice: All farmers use “Transplant” method.

- **Fertilizer Use:**

Wheat: Urea 0.5- 2.5 bags and DAP 0.5-1 bag.

Rice: Majority used 1 to2 bags urea and 0.5 to 1 bag DAP

- **Weeds Eradication**

Wheat: Majority of the farmers used weedicide.

Rice: Almost all the farmers used weedicide.

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 0
- Number of farmers having yield 40 to 49 mds/acre : 39
- Number of farmers having yield 30 to 39 mds/acre : 84
- Number of farmers having yield less than 30 mds/acre : 20

Rice:

- Number of farmers having yield 40 or more mds/acre: 25
- Number of farmers having yield 30 to 39 mds/acre : 53
- Number of farmers having yield less than 30 mds/acre : 22

Summary of the information collected during the survey for the district of Kasur

- **Number of farmers interviewed:** 149
- **Number of farmers having different size of farms:**
 - Up to 5 acres: 52 (34.9%)
 - 5.1 to 12 acres: 46 (30.9%)
 - 12.1 to 25 acres: 29 (19.5%)
 - > 25 acres: 22 (14.7%)

- **Crops being grown in the district:**

Wheat, berseem, sugarcane, rice, maize, potato, Sorghum, and vegetables. The main crops are wheat, cotton, rice, maize and sugarcane and potato, so adopted production technology of these crops is summarized below:

- **Varieties:**

Wheat: Sehar, Punjab 2011, FSD 2008, galaxy, lasani, and Watan.

Rice: Super Basmati, Super 515, Kianat, Kernal Basmati, Superi, KS 282 and hybrid

Sugarcane: Main variety was HSF 240 but only few farmers used other varieties such as CPF 236, CPF 246, and CPF 77.

Maize : Almost all the farmers grew hybrid seed obtained from different companies.

Potato: Kuroda and Sante .

- **Method of sowing**

Wheat: Mainly broadcast followed by drill method by few farmers.

Rice: transplanting in puddled soil

Sugarcane: Line sowing

Maize : line sowing by drill as well as “choppa”

Potato: line sowing with Planter

- **Fertilizer Use:**

Wheat: Majority used 1- 2 bags urea and 1-2 bags DAP followed by 3 bags urea and 2 Bags DAP by some farmers

Rice: Urea 1-3 bags and DAP mostly farmers used 1 bag and only few used 2 bags.

Sugarcane: Most of farmers used 2-4 bags of urea and 1-2 bags of DAP, however few farmers used 6-8 bags of urea.

Maize: 1-6 bags of urea and 1-3 bags of DAP

Potato: 3 to 6 bags urea and 1-3 bags DAP

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide

Rice: Almost all the farmers used weedicide

Sugarcane: Almost, everyone used weedicide

Maize : Most of the farmers used weedicides

Potato: Almost all the farmers used weedicide

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 10
- Number of farmers having yield 40 to 49 mds/acre : 61
- Number of farmers having yield 30 to 39 mds/acre : 35
- Number of farmers having yield less than 30 mds/acre : 14

Rice:

- Number of farmers having yield 50 or more mds/acre: 21
- Number of farmers having yield 40 to 49 mds/acre : 23
- Number of farmers having yield 30 to 39 mds/acre : 12
- Number of farmers having yield less than 30 mds/acre : 4

Sugarcane

- Number of farmers having yield 800 or more mds/acre: 15
- Number of farmers having yield 600 to 799 mds/acre : 14
- Number of farmers having yield 400 to 599 mds/acre : 6
- Number of farmers having yield less than 400 mds/acre : 1

Maize

- Number of farmers having yield 80 or more mds/acre: 17
- Number of farmers having yield 60 to 79 mds/acre : 8
- Number of farmers having yield 40 to 59 mds/acre : 5
- Number of farmers having yield less than 40 mds/acre : 1

Potato

- Number of farmers having yield 100 or more mds/acre: 7
- Number of farmers having yield 80 to 99 mds/acre : 13
- Number of farmers having yield 60 to 79 mds/acre : 4
- Number of farmers having yield less than 60 mds/acre : 3

Summary of the information collected during the survey for the district of Sheikhpura

- **Number of farmers interviewed:** 150
- **Number of farmers having different size of farms:**

- Up to 5 acres: 21 (14%)
- 5.1 to 12 acres: 51 (34 %)
- 12.1 to 25 acres: 47 (31.3 %)
- > 25 acres: 31 (20.7 %)

- **Crops being grown in the district:**

Wheat, rice, berseem, sugarcane, Sorghum and vegetables. The main crops are wheat and rice, so adopted production technology of these crops is summarized below:

- **Varieties:**

Wheat: Sehar, Punjab 2011, FSD 2008, , lasani, Aass and Watan.

Rice: Super Basmati, Basmati 370, Super 515, Kianat.

- **Method of sowing**

Wheat: Broadcast .

Rice: transplanting in puddled soil

- **Fertilizer Use:**

Wheat: Majority used 1- 2 bags urea and 1 bag DAP followed by 2.5 bags urea and 2

Bags DAP by some farmers

Rice: Urea 1-2 bags and DAP 0.5- 1 bag.

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide

Rice: Almost all the farmers used weedicide

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 6
- Number of farmers having yield 40 to 49 mds/acre : 88
- Number of farmers having yield 30 to 39 mds/acre : 51
- Number of farmers having yield less than 30 mds/acre : 3

Rice:

- Number of farmers having yield 50 or more mds/acre: 10
- Number of farmers having yield 40 to 49 mds/acre : 57
- Number of farmers having yield 30 to 39 mds/acre : 77
- Number of farmers having yield less than 30 mds/acre : 3

Summary of the information collected during the survey for the district of Nankanasab

- **Number of farmers interviewed:** 136
- **Number of farmers having different size of farms:**

- Up to 5 acres: 40 (29.4%)
- 5.1 to 12 acres: 31 (22.7%)
- 12.1 to 25 acres: 36 (26.5 %)
- > 25 acres: 29 (21.32%)

- **Crops being grown in the district:**

Wheat , Rice , Sugarcane , Sorghum , Berseem, maize, Till, Bajra and Canola. The major area is covered by wheat, Rice, Sugarcane, so adopted production technology of these crops is summarized below:

- **Varieties:**

Wheat: Majority “Sehar 2008 ” followed by “FSD 2008 ”, “Punjab 2011 ”, “Watan 93 ”.

Some farmers also used Aass, Millet and Shafaq

Rice: Majority used “ Kainat” and “Super Basmati, some farmer used other varieties 86 and 515.

Sugarcane: Almost all farmers used variety “HSF 240”.

- **Method of sowing**

Wheat: All used broadcast method.

Rice: All used “Transplant” method for sowing rice crop.

Sugarcane: All used “Line” method for sowing sugarcane crop.

- **Fertilizer Use:**

Wheat: Majority used 2 bags urea and one bag DAP

Rice: Majority used 2 to 3 bags urea and 1-1.5 bags DAP

Sugarcane: Majority used 2 to 3 bags urea and 1-2 bags DAP and some farmers used urea up to 5 bags.

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide.

Rice: Almost all the farmers used weedicide.

Sugarcane: Almost all the farmers used weedicide.

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 31
- Number of farmers having yield 40 to 49 mds/acre : 68
- Number of farmers having yield 30 to 39 mds/acre : 31
- Number of farmers having yield less than 30 mds/acre : 04

Rice

- Number of farmers having yield 50 or more mds/acre: 22
- Number of farmers having yield 40 to 49 mds/acre : 72
- Number of farmers having yield 30 to 39 mds/acre : 26
- Number of farmers having yield less than 30 mds/acre : 03

Sugarcane

- Number of farmers having yield 800 or more mds/acre: 22
- Number of farmers having yield 600-799 mds/acre : 12
- Number of farmers having yield 500-599 mds/acre : 05
- Number of farmers having yield less than 500 mds/acre : 06

Summary of the information collected during the survey for the district of Vehari

- **Number of farmers interviewed:** 150
- **Number of farmers having different size of farms:**
 - Up to 5 acres: 26 (17.3%)
 - 5.1 to 12 acres: 60 (40%)
 - 12.1 to 25 acres: 40 (26.6 %)
 - > 25 acres: 24 (16%)

- **Crops being grown in the district:**

Whea , Cotton , Sugarcane , Sorghum , Berseem, Maize, Rice. The major area is covered by wheat and cotton, so adopted production technology of these two crops is summarized below:

- **Varieties:**

Wheat: Majority “Sehar ” followed by “Ass 2011 ”, “Punjab 2011 ”, “FSD 2008 ”, “Glaxy ”, “Lasani .

Cotton: Majority “FH-142” followed by MNH-886 and MNH-986 . Some farmers used other BT Varieties, such as SG1, 666 and 252.

- **Method of sowing**

Wheat: All used broadcast method.

Cotton: Majority used “Bed sowing followed by Drill method by few farmers.

- **Fertilizer Use:**

Wheat: Majority used 2 bags urea and one bag DAP

Cotton: Majority used 3 to 4 bags urea and 1 to 1.5 bags DAP

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide.

Cotton: Almost all the farmers used weedicide.

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 37
- Number of farmers having yield 40 to 49 mds/acre : 104
- Number of farmers having yield 30 to 39 mds/acre : 9
- Number of farmers having yield less than 30 mds/acre : 0

Cotton

- Number of farmers having yield 40 or more mds/acre: 06
- Number of farmers having yield 30 to 39 mds/acre : 41
- Number of farmers having yield 20 to 29 mds/acre : 101
- Number of farmers having yield less than 20 mds/acre : 2

Summary of the information collected during the survey for the district of Sahiwal

- **Number of farmers interviewed:** 150
- **Number of farmers having different size of farms:**

- Up to 5 acres: 52 (34.66%)
- 5.1 to 12 acres: 41 (27.33%)
- 12.1 to 25 acres: 34 (22.66 %)
- > 25 acres: 23 (15.33%)

- **Crops being grown in the district:**

Wheat , Cotton , Sugarcane , Potato , Maize Spring , Maize Autumn , Rice, Sorghum , Berseem, Maize Fodder , Mango, Cannola , Peas , Till , Lady finger , Lobia . The major area is covered by wheat cotton, Sugarcane, Potato and Maize, so adopted production technology of these crops is summarized below:

- **Varieties:**

Wheat: Majority “Sehar ” followed by “FSD 2008 ”, “Punjab 2011. Some farmers grew “Inqlab ”, “Shafaq ”, “Aas ”and Galaxy .

Cotton: Majority “FH-142 ” followed by MNH-886. Some farmers used other BT Varieties, such as SG1, 666.

Maize Spring: Majority “Hybrid ” followed by “P1543 ”, and “6142 ”.

Maize Autumn: Majority “Hybrid ” followed by “30Y87 ”, and “6621”.

Sugarcane: Majority used “ HDF 240 ” followed by “246 ”and “CP-40 ”. Some farmers used other varieties, such as, 260, 234, 213

Potato: Majority used “Santay ” and followed by “Caroda”.

- **Method of sowing**

Wheat: Majority used “Broad Cast ” followed by Drill Sowing by few farmers.

Cotton: Majority used “Bed Sowing ” followed by Drill Method .

Maize: Almost every farmer used the “Line Sowing”

Sugarcane: Almost all farmers used Line sowing method.

Potato: Almost all farmers used Planter to sow potatoes.

Fertilizer Use:

Wheat: Majority used 2 bags urea and one bag DAP

Cotton: Majority used 3 to 4 bags urea and 1 to 1.5 bags DAP

Maize: Majority used 4 to 6 bags urea and 1 to 2 DAP

Sugarcane: Majority used 2-3 bags urea and 1-2 bags DAP

Potato: Majority used 4-6 bags urea and 2-4 bags DAP

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide.

Cotton: Most of the farmers used weedicide.

Maize: Almost all the farmers used weedicide.

Sugarcane: Almost all the farmers used weedicide

Potato: Almost all the farmers used weedicide

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 26
- Number of farmers having yield 40 to 49 mds/acre : 71
- Number of farmers having yield 30 to 39 mds/acre : 36
- Number of farmers having yield less than 30 mds/acre : 0

Cotton

- Number of farmers having yield 40 or more mds/acre: 41
- Number of farmers having yield 30 to 39 mds/acre : 30
- Number of farmers having yield 20 to 29 mds/acre : 35
- Number of farmers having yield less than 20 mds/acre : 5

Maize autumn:

- Number of farmers having yield 50 or more mds/acre: 70
- Number of farmers having yield 40 to 49 mds/acre : 09
- Number of farmers having yield 30 to 39 mds/acre 0

Maize Spring:

- Number of farmers having yield 80 or more mds/acre: 56
- Number of farmers having yield 70 to 79 mds/acre : 08
- Number of farmers having yield 60 to 69 mds/acre : 09
- Number of farmers having yield less than 60 mds/acre: 0

Sugarcane:

- Number of farmers having yield 800 or more mds/acre: 13
- Number of farmers having yield 700 to 799 mds/acre: 05
- Number of farmers having yield 500 to 699 mds/acre : 12
- Number of farmers having yield less than 500 mds/acre: 3

Potato:

- Number of farmers having yield 250 or more mds/acre: 08
- Number of farmers having yield 200 to 249 mds/acre: 13
- Number of farmers having yield 150 to 199 mds/acre : 05
- Number of farmers having yield less than 150 mds/acre: 0

Summary of the information collected during the survey for the district of Pakpattan

- **Number of farmers interviewed:** 137
- **Number of farmers having different size of farms:**

- Up to 5 acres: 53 (38.6%)
- 5.1 to 12 acres: 42 (28.4%)
- 12.1 to 25 acres: 23 (16 %)
- > 25 acres: 19 (16%)

- **Crops being grown in the district:**

Wheat , Sorghum , Berseem , Maize (seasonal) , Maize (spring), Cotton , Rice , Sugarcane . The major area is covered by wheat, Maize Seasonal, Maize Spring, Cotton and Rice so adopted production technology of these crops is summarized below:

- **Varieties:**

Wheat: Majority of farmers used “Sehar followed by “FSD 2008 ” and “Wattan ”, some farmers also used other varieties like Galaxy, Millat and Aass.

Maize Seasonal: Majority of farmers used “Hybrid ” followed by, “30-y-87 ”and “6621 ” varieties. Some farmers used other varieties like Pioneer, 626,680.

Maize Spring: Majority of farmers used Hybrid, 30-y-87 and 6621 variety

Cotton: Majority of farmers used “FH-142 ” followed by, “MNH-886 ”, some farmers used other varieties like Lalazar, 815 and Bigball.

Rice: Majority of farmers Used “Super Basmati ” and “ Kaynat ” .

- **Method of sowing**

Wheat: Majority of used broadcast method.

Maize Seasonal: All Farmers Used Line sowing Method.

Maize Spring: All Farmers Used Line sowing Method.

Cotton: All Farmers Used Line sowing Method.

Rice: Almost all farmers used Transplant method.

- **Fertilizer Use:**

Wheat: Majority used 2 bags urea and one bag DAP

Maize Seasonal: Majority used 3 to 4 bags urea and 1 to 1.5 bags DAP

Maize Spring: Majority used 3 to 4 bags urea and 1 to 1.5 bags DAP

Cotton: Majority used 3 to 4 bags urea and 1 to 1.5 bags DAP

Rice: Majority used 2 to 2.5 bags urea and 1 to 1.5 bag DAP

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide.

Maize Seasonal: Almost all the farmers used weedicide.

Maize Spring: Almost all the farmers used weedicide.

Cotton: Almost all the farmers used weedicide.

Rice: Almost all the farmers used weedicide.

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 34
- Number of farmers having yield 40 to 49 mds/acre : 76
- Number of farmers having yield 30 to 39 mds/acre : 14
- Number of farmers having yield less than 30 mds/acre : 0

Maize Seasonal:

- Number of farmers having yield 70 or more mds/acre: 25
- Number of farmers having yield 60 to 70 mds/acre : 23
- Number of farmers having yield 50 to 60 mds/acre : 37
- Number of farmers having yield less than 40 mds/acre : 0

Maize spring:

- Number of farmers having yield 70 or more mds/acre:65
- Number of farmers having yield 61 to 70 mds/acre : 04
- Number of farmers having yield 50 to 60 mds/acre : 10
- Number of farmers having yield less than 40 mds/acre : 0

Cotton:

- Number of farmers having yield 50 or more mds/acre: 18
- Number of farmers having yield 40 to 50 mds/acre : 17
- Number of farmers having yield 30 to 40 mds/acre : 14
- Number of farmers having yield less than 30 mds/acre : 08

Rice:

- Number of farmers having yield 50 or more mds/acre: 8
- Number of farmers having yield 40 to 50 mds/acre : 21
- Number of farmers having yield 30 to 40 mds/acre : 4
- Number of farmers having yield less than 30 mds/acre : 4

Summary of the information collected during the survey for the district of Okara

- **Number of farmers interviewed:** 140
- **Number of farmers having different size of farms:**

- Up to 5 acres: 38 (27.1%)
- 5.1 to 12 acres: 53 (37.8%)
- 12.1 to 25 acres: 27 (19.28%)
- > 25 acres: 22 (15.7%)

- **Crops being grown in the district:**

Wheat , Rice, Maize, Cotton , Sugarcane , Sorghum, Berseem , Sunflower, Mong , Maize spring , Potato , Ladyfinger , Maize fodder , Peas , Canola , Sugar beet , Tobacco , Rose intercropping . The adopted production technology of these crops is summarized below:

- **Varieties:**

Wheat: Majority “Sehar ” followed by “FSD 2008 ”, “Watan ”, “Punjab 2011 ”, “Ass ” and “Lasani ”.

Rice: Majority of farmers used, “ Kainat ” followed by, “Super Basmati ”, “KS 282 ” and “Supri ”.

Maize: Hybrid seed by different companies

Maize Spring: Majority of farmers used Hybrid seed

Cotton: Majority of farmers used “FH-142” followed by MNH-886 and MNH-986 .

Sugarcane: Majority used “ 240 ” followed by “242 ”and “CP-90 ”.

Potato: Majority used “Santay ” followed by “Caroda ”.

- **Method of sowing**

Wheat: Majority used Broadcast followed by Drill method by few farmers.

Rice: Almost all farmers used Transplant method for sowing rice.

Maize: All farmers used Line sowing method.

Cotton: All farmers used Line sowing method.

Sugarcane: Almost all farmers used Line sowing method.

Potato: Almost all farmers used Planter to sow potatoes.

- **Fertilizer Use:**

Wheat: Majority used 2 -3bags urea and 1-1.5 bags DAP

Rice: Majority used 2-2.5 bags urea and 1-1.5 bags DAP

Maize: Majority used 4-5 bags urea and 1-2 DAP

Maize Spring: Majority used 4-5 bags urea and 1-2 DAP

Cotton: Majority used 3 -4 bags urea and 1-1.5 bags DAP

Sugarcane: Majority used 2-5 bags urea and 1-2 bags DAP

Potato: Majority used 4-5 bags urea and 3-4 bags DAP

- **Weeds Eradication**

Wheat: Almost all the farmers used weedicide.

Rice: Almost all the farmers used weedicide

Maize: Almost all the farmers used weedicide

Maize Spring: Almost all the farmers used weedicide

Cotton: Almost all the farmers used weedicide.

Sugarcane: Almost all the farmers used weedicide

Potato: Almost all the farmers used weedicide

- **Crop Yields**

Wheat:

- Number of farmers having yield 50 or more mds/acre: 55
- Number of farmers having yield 40 to 49 mds/acre : 61
- Number of farmers having yield 30 to 39 mds/acre : 15
- Number of farmers having yield less than 30 mds/acre: 1

Rice

- Number of farmers having yield 50 or more mds/acre: 40
- Number of farmers having yield 40 to 49 mds/acre : 42
- Number of farmers having yield 30 to 39 mds/acre : 18
- Number of farmers having yield less than 30 mds/acre: 8

Maize:

- Number of farmers having yield 50 or more mds/acre: 63
- Number of farmers having yield 40 to 49 mds/acre : 12
- Number of farmers having yield 30 to 39 mds/acre : 3
- Number of farmers having yield less than 30 mds/acre: 2

Maize Spring:

- Number of farmers having yield 80 or more mds/acre: 30
- Number of farmers having yield 70 to 79 mds/acre : 08
- Number of farmers having yield 60 to 69 mds/acre : 07
- Number of farmers having yield less than 60 mds/acre: 05

Cotton

- Number of farmers having yield 50 or more mds/acre: 05
- Number of farmers having yield 40 to 49 mds/acre: 04
- Number of farmers having yield 30 to 39 mds/acre : 02
- Number of farmers having yield less than 30 mds/acre : 04

Sugarcane:

- Number of farmers having yield 800 or more mds/acre: 03
- Number of farmers having yield 600 to 799 mds/acre: 07
- Number of farmers having yield 500 to 599 mds/acre : 02
- Number of farmers having yield less than 500 mds/acre: 0

Potato:

- Number of farmers having yield 250 or more mds/acre: 16
- Number of farmers having yield 200 to 249 mds/acre: 09
- Number of farmers having yield 150 to 199 mds/acre : 05
- Number of farmers having yield less than 150 mds/acre: 02