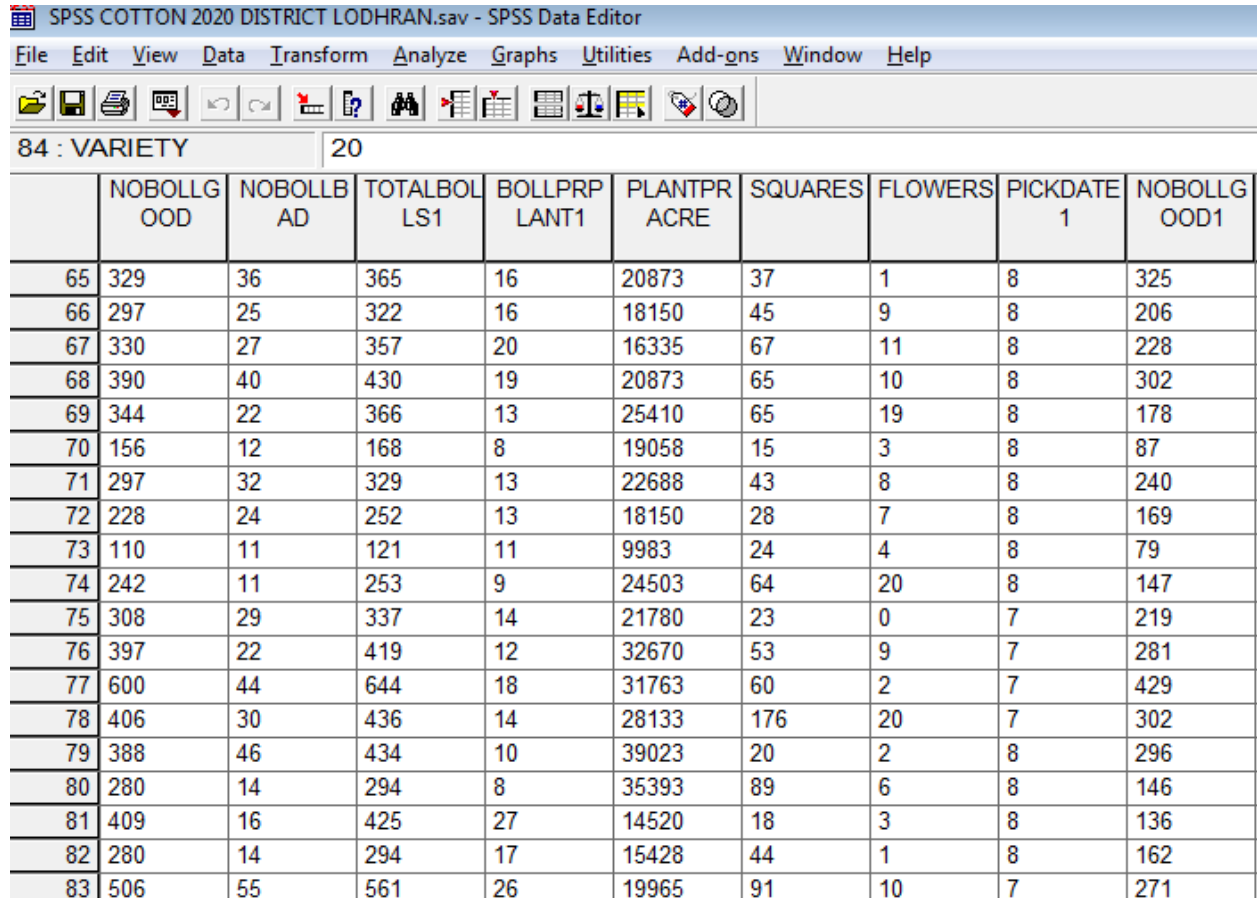


SPSS ANALYSIS: COTTON VARIETIES

Mhammad Imran
SO, Tehsil Lodhran

Cotton variety can be determined from SPSS file of cotton 6B+6C

- Open your cotton 6B+6C data file



	NOBOLLG OOD	NOBOLLB AD	TOTALBOL LS1	BOLLPRP LANT1	PLANTPR ACRE	SQUARES	FLOWERS	PICKDATE 1	NOBOLLG OOD1
65	329	36	365	16	20873	37	1	8	325
66	297	25	322	16	18150	45	9	8	206
67	330	27	357	20	16335	67	11	8	228
68	390	40	430	19	20873	65	10	8	302
69	344	22	366	13	25410	65	19	8	178
70	156	12	168	8	19058	15	3	8	87
71	297	32	329	13	22688	43	8	8	240
72	228	24	252	13	18150	28	7	8	169
73	110	11	121	11	9983	24	4	8	79
74	242	11	253	9	24503	64	20	8	147
75	308	29	337	14	21780	23	0	7	219
76	397	22	419	12	32670	53	9	7	281
77	600	44	644	18	31763	60	2	7	429
78	406	30	436	14	28133	176	20	7	302
79	388	46	434	10	39023	20	2	8	296
80	280	14	294	8	35393	89	6	8	146
81	409	16	425	27	14520	18	3	8	136
82	280	14	294	17	15428	44	1	8	162
83	506	55	561	26	19965	91	10	7	271

- Go to analyze
- Descriptive Statistics
- Frequencies

SPSS COTTON 2020 DISTRICT LODHRAN.sav - SPSS Data Editor

File Edit View Data Transform **Analyze** Graphs Utilities Add-ons Window Help

84 : VARIETY 20

Analyze menu options:

- Reports
- Descriptive Statistics**
- Tables
- Compare Means
- General Linear Model
- Mixed Models
- Correlate
- Regression
- Loglinear
- Classify
- Data Reduction
- Scale
- Nonparametric Tests
- Time Series
- Survival
- Multiple Response
- Missing Value Analysis...
- Complex Samples

Descriptive Statistics sub-menu options:

- Frequencies...**
- Descriptives...
- Explore...
- Crosstabs...
- Ratio...

	NOBOLLG OOD	NOBOLLB AD	TOTALBOL LS1	BOLLPRP LANT1	PLANTPR ACRE	SQUARES	FLOWERS	PICKDATE 1	NOBOLLG OOD1	NOBOLLB AD1
65	329	36	365	11	8	325	36			
66	297	25	322	9	8	206	25			
67	330	27	357	11	8	228	27			
68	390	40	430	10	8	302	40			
69	344	22	366	19	8	178	22			
70	156	12	168	3	8	87	12			
71	297	32	329	8	8	240	32			
72	228	24	252	7	8	169	24			
73	110	11	121	4	8	79	11			
74	242	11	253	20	8	147	11			
75	308	29	337	0	7	219	29			
76	397	22	419	9	7	281	22			
77	600	44	644	2	7	429	44			
78	406	30	436	20	7	302	30			
79	388	46	434	10	8	296	46			
80	280	14	294	8	8	146	14			

SPSS COTTON 2020 DISTRICT LODHRAN.sav - SPSS Data Editor

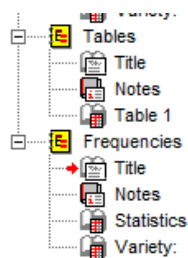
File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

84 : VARIETY 20

Frequencies dialog box:

- Variable(s): **Variety: [VARIETY]**
- ☒ Display frequency tables
- Buttons: Statistics..., Charts..., Format..., OK, Paste, Reset, Cancel, Help

	NOBOLLG OOD	NOBOLLB AD	TOTALBOL LS1	BOLLPRP LANT1	PLANTPR ACRE	SQUARES	FLOWERS	PICKDATE 1	NOBOLLG OOD1	NOBOLLB AD1
65	329	36	365	11	8	325	36			
66	297	25	322	9	8	206	25			
67	330	27	357	11	8	228	27			
68	390	40	430	10	8	302	40			
69	344	22	366	19	8	178	22			
70	156	12	168	3	8	87	12			
71	297	32	329	8	8	240	32			
72	228	24	252	7	8	169	24			
73	110	11	121	4	8	79	11			
74	242	11	253	20	8	147	11			
75	308	29	337	0	7	219	29			
76	397	22	419	9	7	281	22			
77	600	44	644	2	7	429	44			
78	406	30	436	20	7	302	30			
79	388	46	434	10	8	296	46			
80	280	14	294	8	8	146	14			
81	409	16	425	27	14520	18	3	8	136	16



Statistics

Variety:

N	Valid	282
	Missing	0

Variety:

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid BT:MNH-886	3	1.1	1.1	1.1
BT:FH-142	7	2.5	2.5	3.5
BT:IBU-2013	62	22.0	22.0	25.5
BT:BS-15	3	1.1	1.1	26.6
BT:NIAB-878	13	4.6	4.6	31.2
BT:992	2	.7	.7	31.9
BT:SS-32	119	42.2	42.2	74.1
BT:Others	39	13.8	13.8	87.9
Z-33	6	2.1	2.1	90.1
Others	28	9.9	9.9	100.0
Total	282	100.0	100.0	

Detail of other Varieties

By taking into account the above **SPSS** output of variety District Lodhran, the frequency of other varieties are 28. There are **two** ways to evaluate the detail of others varieties,

- By checking all hard copies of **6B+6C** form one by one (Time affective)
- By using **SPSS** and just highlight the segments that contains the **other varieties**, it is recommended and efficient way to target the specific hard copies of **6B+6C**.

To do this

- **Data**
- **Select case**
- **If condition is satisfied**
- **Click on if**
- **VARITEY=20 [Other Variety Label is 20]**
- **Continue**
- **Ok**

SPSS COTTON 2020 DISTRICT LODHRAN.sav - SPSS Data Editor

File Edit View **Data** Transform Analyze Graphs Utilities Add-ons Window Help

Define Variable Properties...
Copy Data Properties...
Define Dates...
Insert Variable
Insert Cases
Go to Case...
Sort Cases...
Transpose...
Restructure...
Merge Files
Aggregate...
Identify Duplicate Cases...
Orthogonal Design
Split File...
Select Cases...
Weight Cases...

84 : VARIETY		PLANTPR ACRE	SQUARES	FLOWERS	PICKDATE 1	NOBOLLG OOD1	NOBOLLB AD1
65	329	20873	37	1	Oct onwar	325	36
66	297	18150	45	9	Oct onwar	206	25
67	330	16335	67	11	Oct onwar	228	27
68	390	20873	65	10	Oct onwar	302	40
69	344	25410	65	19	Oct onwar	178	22
70	156	19058	15	3	Oct onwar	87	12
71	297	22688	43	8	Oct onwar	240	32
72	228	18150	28	7	Oct onwar	169	24
73	110	9983	24	4	Oct onwar	79	11
74	242	24503	64	20	Oct onwar	147	11
75	308	21780	23	0	Sep 16-30	219	29
76	397	32670	53	9	Sep 16-30	281	22
77	600	31763	60	2	Sep 16-30	429	44
78	406	28133	176	20	Sep 16-30	302	30
79	388	46	434	10	Oct onwar	296	46
80	280	14	294	8	Oct onwar	146	14
81	409	16	425	27	Oct onwar	136	16

SPSS COTTON 2020 DISTRICT LODHRAN.sav - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

Select Cases

Division: [DIVISION]
District: [DISTRICT]
Tehsil: [TEHSIL]
H.B No [HBNO]
Plot No: [PLOTNO]
Kanal [FIELDKANA]
Marla [FIELDMARL]
Total Land (acre) [T]
Total No of Plants:
Latitude [LATITUD]
Longitude [LONGIT]
Healthy [NOBOLLG]
Diseased [NOBOLL]
Total No of Bolls 1:
Boll/Plant 1st [BOLL]

Select

☐ All cases
☒ If condition is satisfied
If ...
☐ Random sample of cases
Sample...
☐ Based on time or case range
Range...
☐ Use filter variable:
[]

Unselected Cases Are
☒ Filtered ☐ Deleted

Current Status: Do not filter cases

OK Paste Reset Cancel Help

FLOWERS	PICKDATE 1	NOBOLLG OOD1	NOBOLLB AD1
1	Oct onwar	325	36
9	Oct onwar	206	25
11	Oct onwar	228	27
10	Oct onwar	302	40
19	Oct onwar	178	22
3	Oct onwar	87	12
8	Oct onwar	240	32
7	Oct onwar	169	24
4	Oct onwar	79	11
20	Oct onwar	147	11
0	Sep 16-30	219	29
9	Sep 16-30	281	22
2	Sep 16-30	429	44
20	Sep 16-30	302	30
2	Oct onwar	296	46
6	Oct onwar	146	14
3	Oct onwar	136	16

SPSS COTTON 2020 DISTRICT LODHRAN.sav - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

Select Cases

Select Cases: If

VARIETY = 20

Continue Cancel Help

Current Status: Do not filter cases

OK Paste Reset Cancel Help

	PICKDATE	NOBOLLG	NOBOLLB
	1	OOD1	AD1
	Oct onwar	325	36
	Oct onwar	206	25
	Oct onwar	228	27
	Oct onwar	302	40
	Oct onwar	178	22
	Oct onwar	87	12
	Oct onwar	240	32
	Oct onwar	169	24
	Oct onwar	79	11
	Oct onwar	147	11
	Sep 16-30	219	29
9	Sep 16-30	281	22
2	Sep 16-30	429	44
20	Sep 16-30	302	30
2	Oct onwar	296	46
6	Oct onwar	146	14
3	Oct onwar	136	16

Then go to

- Data
- Split File
- Villages

SPSS COTTON 2020 DISTRICT LODHRAN.sav - SPSS Data Editor

File Edit View **Data** Transform Analyze Graphs Utilities Add-ons Window Help

84 : VARIETY

	NOBOL OOD				PLANTPR ACRE	SQUARES	FLOWERS	PICKDATE 1
65	329				20873	37	1	Oct onwar
66	297				18150	45	9	Oct onwar
67	330				16335	67	11	Oct onwar
68	390				20873	65	10	Oct onwar
69	344				25410	65	19	Oct onwar
70	156				19058	15	3	Oct onwar
71	297				22688	43	8	Oct onwar
72	228				18150	28	7	Oct onwar
73	110				9983	24	4	Oct onwar
74	242				24503	64	20	Oct onwar
75	308				21780	23	0	Sep 16-30
76	397				32670	53	9	Sep 16-30
77	600				31763	60	2	Sep 16-30
78	406				28133	176	20	Sep 16-30
79	388	46	434	10	39023	20	2	Oct onwar
80	280	14	294	8	35393	89	6	Oct onwar
81	409	16	425	27	14520	18	3	Oct onwar

Define Variable Properties...
Copy Data Properties...
Define Dates...
Insert Variable
Insert Cases
Go to Case...
Sort Cases...
Transpose...
Restructure...
Merge Files
Aggregate...
Identify Duplicate Cases...
Orthogonal Design
Split File...
Select Cases...
Weight Cases...

SPSS COTTON 2020 DISTRICT LODHRAN.sav - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

84 : VARIETY 20

Split File

Year : [YEAR]
Division : [DIVISION]
District : [DISTRICT]
Tehsil : [TEHSIL]
Markaz : [MARKAZ]
U.C [UC]
H.B No [HBNO]
Plot No: [PLOTNO]
Kanal [FIELDKANA]
Marla [FIELDMARL]
Total Land (acre) [T]

Analyze all cases, do not create groups
☒ Compare groups
Organize output by groups
Groups Based on:
Village [VILLAGE]
Sort the file by grouping variables
File is already sorted

Current Status: Compare:VILLAGE

OK
Paste
Reset
Cancel
Help

								PICKDATE 1	NOBOLLG OOD1
								Oct onwar	325
								Oct onwar	206
								Oct onwar	228
								Oct onwar	302
								Oct onwar	178
								Oct onwar	87
								Oct onwar	240
								Oct onwar	169
								Oct onwar	79
								Oct onwar	147
								Sep 16-30	219
								Sep 16-30	281
								Sep 16-30	429
78	406	30	436	14	28133	176	20	Sep 16-30	302
79	388	46	434	10	39023	20	2	Oct onwar	296
80	280	14	294	8	35393	89	6	Oct onwar	146
81	409	16	425	27	14520	18	3	Oct onwar	136

Then go to

- Analyze
- Descriptive
- Frequencies

The screenshot shows the SPSS Data Editor window for the file 'SPSS COTTON 2020 DISTRICT LODHRAN.sav'. The 'Analyze' menu is open, and the 'Descriptive Statistics' submenu is also open, with 'Frequencies...' selected. The background shows a data table with columns 'NOBOLLG OOD', 'NOBOLLB AD', and 'DATE'.

	NOBOLLG OOD	NOBOLLB AD	DATE
65	329	36	30
66	297	25	30
67	330	27	30
68	390	40	40
69	344	22	30
70	156	12	10
71	297	32	30
72	228	24	20
73	110	11	10
74	242	11	20
75	308	29	30
76	397	22	40
77	600	44	60
78	406	30	40
79	388	46	40
80	280	14	20
81	409	16	425

Graphical Representation

The following figure illustrated that out of 282 cotton yield estimation plots 119 plots with BT-SS-32 followed by BT-IUB-2013 with 62 plots and BT-OTHER with 39 plots. Whereas BT:BS-15, BT:MNH-886 and BT:992 ate the least used cotton variety in District Lodhran.

