



Cotton Plant Mapping Survey (**CPMS**) **Analysis using SPSS**

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Cotton Plant Mapping Survey (CPMS) Analysis

Objective of the Analysis

- To Enhance the analytical capability of the Respected Officers
- Awareness about the latest version of the SPSS.
- How to use SPSS syntax file at Tehsil and District Level
- Sending the well organized and correct file to the Directorate.

In this analysis report, we will analysis all variables of the Cotton Plant Mapping Survey (CPMS).

1. No. of Plants Analysis

The following way can be used to evaluate the correct number of plants for any level

Step 1 (SPSS Path) Data Identify Duplicate Cases

- A window is displayed as shown in Fig:1.1
- Click Identify Duplicate Cases', a new window is appeared in Fig 1.2



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Plants/Acre PL PlantNo [PLANT PlantHeight [PL V To select all variables use Ctrl+A	Sort Ascending Descending	÷ •	
✓ Variables to Create	upique or primeru. O=duplica	ate)	
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Sequential count of matching group (0=nonmatching case)	case in each Name:	MatchSequenc	e
Move matching cases to the tDisplay frequencies for create			

Fig 1.2

Identify Duplicate Cases	×
 MealyBug [MEA Yield : [YIELD] TotalPlants [TO Plants/Acre [PL PlantNo [PLANT PlantHeight [PL No of Nodes [N FruitingPosition [No of Squares [No of Flowers [N Small [SMALL] Medium [MEDIU Copened [OPEN To select all variables use Ctrl+A 	OK Paste Reset Cancel Help
Variables to Create	
 Indicator of primary cases (1=unique or primary, 0=duplicate) Last case in each group is primary First case in each group is primary Filter by indicator values 	
Sequential count of matching case in each group (0=nonmatching case)	ce
 Move matching cases to the top of the file Display frequencies for created variables 	



- Clicking OK then following frequencies tables(Table 1.1) will be shown
- Generate a new variable namely **primarylast** as shown in fig: 1.4
- New variable has the following coding

Statistics

Indicator of each last matching case as Primary

Ν	Valid	200
	Missing	0

Indicator of each last matching case as Primary

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Duplicate Case	104	52.0	52.0	52.0
	Primary Case	96	48.0	48.0	100.0
	Total	200	100.0	100.0	

- Our concern is related primary cases as shown Table 1.1
- Primary case shows that our original cases of concern variables(no. of plants)

Verification of Original Cases for Plants

- As we know that every village has three fields (F1, F2, and F3) for CPMS.
- District Vehari has 32 villages for CPMS in 2020-21
- There are 96 original cases for the no. of Plants.
- Fig 1.4 shows that new created variable (primarylast)

1st PMS Vehari 20-2021.sav - SPSS Data Editor

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OPENED	PICKED	TOTALBOL LS	ROTTEN	ROSSET	EFFCLCV	EFFMALY BUG	EFFSQUA RE	EFFFLOW ER	EFFBOLL S	NEXT	PrimaryLast	var	var	var	var	var	
1 0	0	0	0	0	No	No	0	0	0	Yes	Duplicate Case						Τ
2 0	0	0	0	0	No	No	0	0	0	Yes	Primary Case						T
3 0	0	11	0	0	No	No	0	0	0	Yes	Duplicate Case						T
1 0	0	1	0	0	No	No	0	0	0	Yes	Primary Case						T
5 0	0	0	0	0	No	No	0	0	0	Yes	Duplicate Case						T
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7 0	0	3	0	0	No	No	0	0	0	Yes	Duplicate Case						T
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2 0	0	0	0	0	No	No	0	0	0	Yes	Primary Case						T
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3 0	-	0	0	0	No	No	0	0	0	Yes	Primary Case						J
9 0	0	0	0	0	No	No	0	0	0	Yes	Duplicate Case						
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	and the thew	/							cn	SS Processor	is see do						-

Fig: 1.4

STEP 2

(SPSS Path)

Data



- A window is shown is displayed Fig:1.5
- Click Select Cases', a new window as shown in Fig 1.6 is appeared

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Fig: 1.5

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Fig: 1.6

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Fig 1.7

STEP 3

Method 1

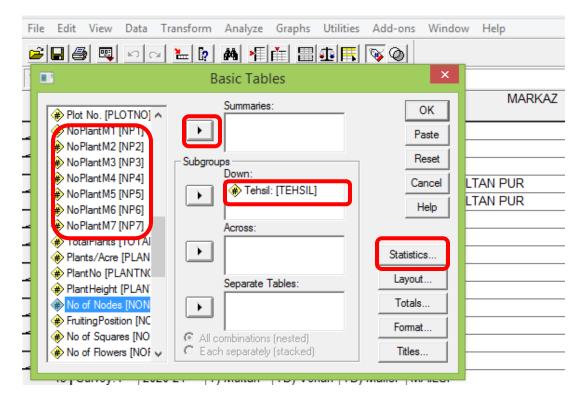
(SPSS Path)

Analyze

Tables **Basic Tables**

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Fig 1.8





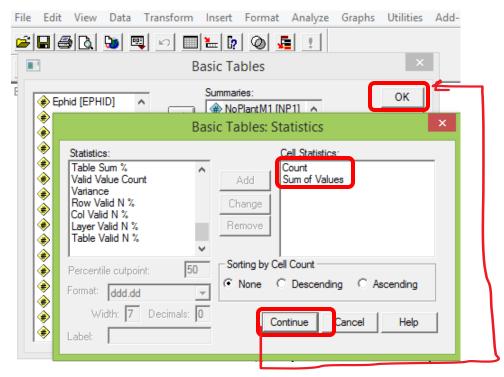


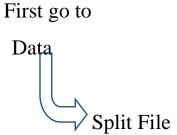
Fig: 1.10

Table :	1.1
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			Count	Sum
Tehsil:	7D)	NoPlantM1	27	66
	Vehari	NoPlantM2	27	69
		NoPlantM3	27	68
		NoPlantM4	27	66
		NoPlantM5	27	72
		NoPlantM6	27	73
		NoPlantM7	27	60
	7D)	NoPlantM1	27	54
	Burewala	NoPlantM2	27	66
		NoPlantM3	27	58
		NoPlantM4	27	57
		NoPlantM5	27	57
		NoPlantM6	27	53
		NoPlantM7	27	62
	7D)	NoPlantM1	42	76
	Mailsi	NoPlantM2	42	77
		NoPlantM3	42	99
		NoPlantM4	42	86
		NoPlantM5	42	81
		NoPlantM6	42	99
		NoPlantM7	42	85

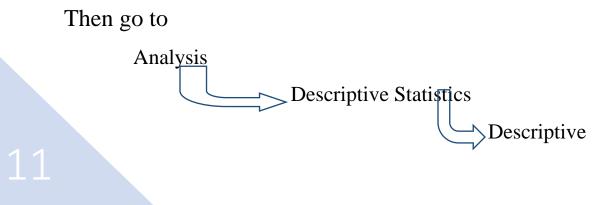
STEP 3

Method 2

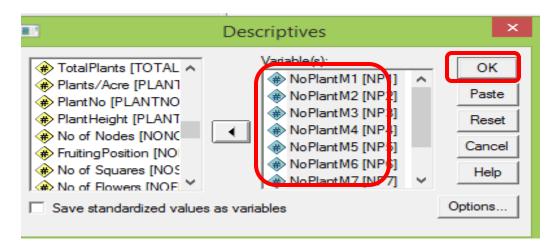


Split File 🛞 SurveyNo. [SURVE 🔺 C Analyze all cases, do not create groups OK A Year : [YEAR] Compare groups Paste Division: [DIVISION] Organize output by groups District: [DISTRICT] Groups Based on: Reset A Markaz [MARKAZ] Tehsil: [TEHSIL] Cancel A U.C [UC] Village [VILLAGE] Help H.B No [HBNO] Days of Sowing [D) Sort the file by grouping variables 🛞 N [N] ○ File is already sorted 🛞 P (P1 Current Status: Analysis by groups is off.





(SPSS Path)





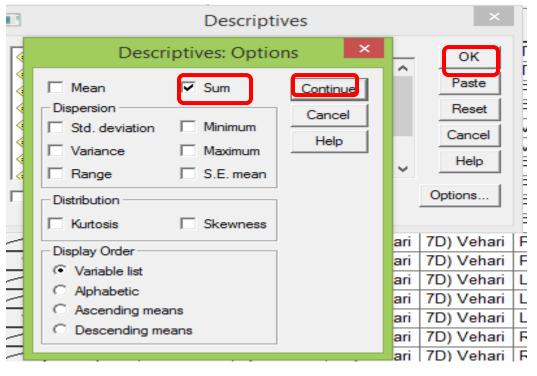


Fig: 1.13

Tehsil:		N	Sum
7D) Vehari	NoPlantM1	27	66
	NoPlantM2	27	69
	NoPlantM3	27	68
	NoPlantM4	27	66
	NoPlantM5	27	72
	NoPlantM6	27	73
	NoPlantM7	27	60
	Valid N (listwise)	27	
7D) Burewala	NoPlantM1	27	54
	NoPlantM2	27	66
	NoPlantM3	27	58
	NoPlantM4	27	57
	NoPlantM5	27	57
	NoPlantM6	27	53
	NoPlantM7	27	62
	Valid N (listwise)	27	
7D) Mailsi	NoPlantM1	42	76
	NoPlantM2	42	77
	NoPlantM3	42	99
	NoPlantM4	42	86
	NoPlantM5	42	81
	NoPlantM6	42	99
	NoPlantM7	42	85
	Valid N (listwise)	42	

2. Analysis From Sowing Days To No. of Sprays

- First delete created new variables namely
 - 1. Primary Last
 - 2. Filter\$

The following way can be used to analysis the above mention variables for any level

(SPSS Path)

Data_

- Identify Duplicate Cases
- A window as shown in Fig:1.14 is displayed
- Click Identify Duplicate Cases', a new window as

shown in Fig 1.15 is appeared

File	Edit	t View	Data	Transform	n Ar	nalyze	Graphs	Util	lities	Add-o	ns Window	Help
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Fig: 1.14

🔚 Identify Duplicate Cases 🧰	3
 Tehsil: [TEHSIL] Markaz [MARKAZ] U.C [UC] U.D No (UBNO) Days of Sowing [P [P] K [K] Sort Sort Ascending Descending Descending Number of matching and sorting variables: 1 	
Variables to Create Indicator of primary cases (1=unique or primary, 0=duplicate) Last case in each group is primary First case in each group is primary Eilter by indicator values Sequential count of matching case in each group (0=nonmatching case) Name: MatchSequence	
Move matching cases to the top of the file Display frequencies for created variables OK Paste Reset Cancel Help	

Fig: 1.15

>:<

🗎 Identify Duplicate Cases

 ↓ U.C [UC] ↓ H.B No [HBNO] ↓ Line Gap [LINEG ↓ Sowing Date: [SO ↓ Variety [VARIETY] ↓ PinkBW [PINKBW] ↓ ArmyBW [ARMYB 	Define matching cases by:						
SportedBW [SPO WhiteFly [WHITE Jasid [JASID] Ephid [EPHID] Thrips [THRIPS]	Sort Ascending Descending Number of matching and sorting variables: 7						
Variables to Create							
 Indicator of primary cases (1=unique or primary, 0=duplicate) Last case in each group is primary First case in each group is primary Eilter by indicator values Sequential count of matching case in 							
each group (0=nonmatching ca Move matching cases to the top Display frequencies for created	of the file						
OK Pas	te <u>R</u> eset Cancel Help						

Fig: 1.16

- Clicking then following frequencies tables(Table 1.3) will be shown
- Generate a new variable namely primary last

• New variable has the following coding

0 = "Duplicate case" 1 = "Primary case"

Table 1.3

Indicator of each last matching case as Primary

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	Duplicate Case	168	84.0	84.0	84.0
	Primary Case	32	16.0	16.0	100.0
	Total	200	100.0	100.0	

- Table 1.3 shows that 32 primary cases
- 32 villages in Vehari Dist
- All variables mention above should be original cases is equal to no. of villages
- Here cases of variables are equal to no. of villages.

STEP 2 (SPSS Path)

Data

- A window as shown in Fig:1.17 is displayed
- Click Select Cases', a new window as shown in Fig 1.18 is appeared

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	Insert	Cases					0	0	1	No	No
	Go to	Case					0	0	1	No	No
							0	0	1	No	No
	Sort C	ases					0	0	1	No	No
	Trans	pose					0	0	1	No	No
	Restru	icture					0	0	1	No	No
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	Aggre	gate					0	0	1	No	No
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Fig: 1.17

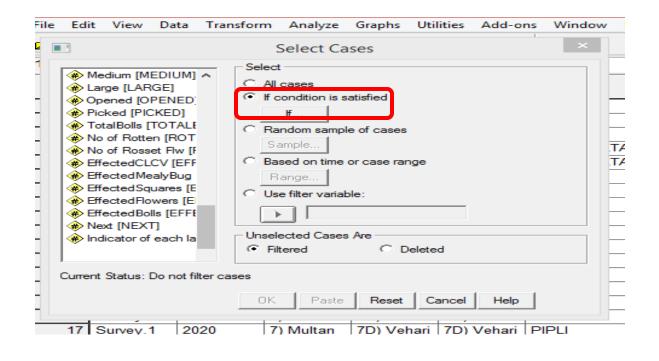


Fig: 1.18

File	e Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help										
2	Select Cases ×										
-1	Select Cases: If	RK/									
	 Picked [PICKED] TotalBolls [TOTALI No of Rotten [ROT No of Rosset flw [F EffectedCLCV [EFF EffectedBolls [EFFE EffectedBolls [EFFE Next [NEXT] Indicator of each la 										
-	Current Status: Do not filter cases OK Paste Reset Cancel Help										

Fig: 1.19

	FFLO VER	EFFBOLL S	🤣 NEXT	🛃 PrimaryLast	🗞 filter_\$
		0	Yes	Duplicate Case	Not Selected
2		0	Yes	Duplicate Case	Not Selected
3		0	Yes	Primary Case	Selected
4		0	Yes	Duplicate Case	Not Selected
5		0	Yes	Duplicate Case	Not Selected
6		0	Yes	Duplicate Case	Not Selected
		0	Yes	Duplicate Case	Not Selected
8		0	Yes	Duplicate Case	Not Selected
9		0	Yes	Primary Case	Selected
10		0	Yes	Duplicate Case	Not Selected
11		0	Yes	Duplicate Case	Not Selected
12		0	Yes	Duplicate Case	Not Selected
13		0	Yes	Primary Case	Selected
14		0	Yes	Duplicate Case	Not Selected
15		0	Yes	Duplicate Case	Not Selected
16		0	Yes	Duplicate Case	Not Selected
		1			

STEP 3

First go to

(SPSS Path)

Data



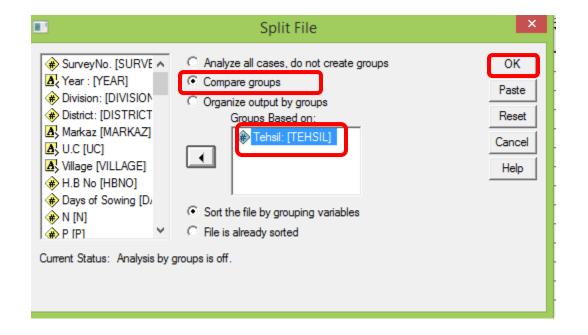
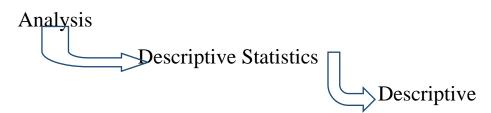


Fig:1. 21

Then go to



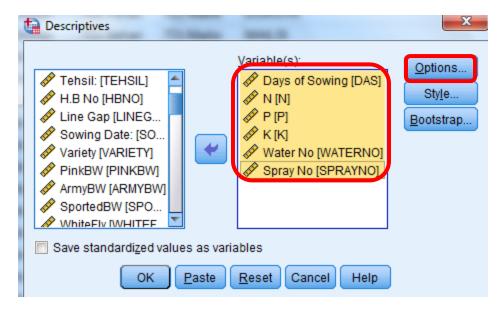


Fig: 1.22

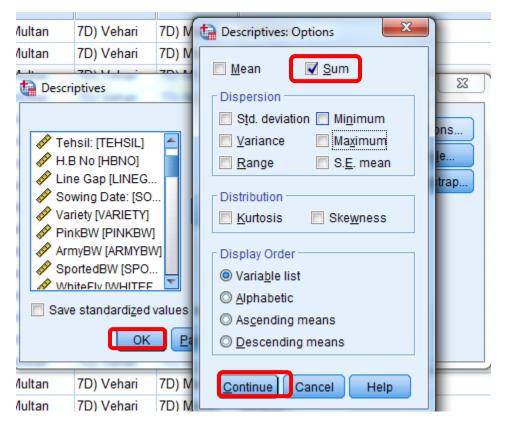


Fig: 1.23

Descriptive Statistics

	Ν	Sum
Days of Sowing	32	2374
Ν	32	884
Р	32	560
к	32	0
Water No	32	307
Spray No	32	106
Valid N (listwise)	32	

Note that:

- Vehari Dist .has 32 villages for Cotton Plant Mapping Survey
- 32 will be minus from variable (Water No) and variable (Spray No).

3. Analysis from Height To Effected Bolls

First Go to Path

=											
File	Edit	View	Data	Transform	n Ar	alyze	Graphs	Utilit	ties Add-o	ons Window	/ Help
	Define Variable Properties						ri 📰	ata E	r 🐼 🖉		
	Сору	Data Pro	operties								
	Define	e Dates				LBOL	ROTTE	=N	ROSSET	EFFCLCV	
	Insert	Variable	2			S		-''	ROOOLI		BU
	Insert	Cases					0	(0	No	No
	Go to	Case					0	(0	No	No
							0	(0	No	No
	Sort C	ases					0	(0	No	No
	Trans	pose					0	(0	No	No
	Restru	icture					0	(0	No	No
	Merge	e Files			•		0	(0	No	No
	Aggre	gate					0	(0	No	No
		fy Dupli	ente Ca				0	(0	No	No
				SES			0	(0	No	No
	Ortho	gonal D	esign		•		0	(0	No	No
	Split F	ile					0	(0	No	No
	Select	Cases					0	(0	No	No
		nt Cases					0	(0	No	No
	weigi	it cases				1	0	(0	No	No
	16 0		0		0		0	(0	No	No
	17 7		0		31		0	(0	No	No

Fig: 1.24

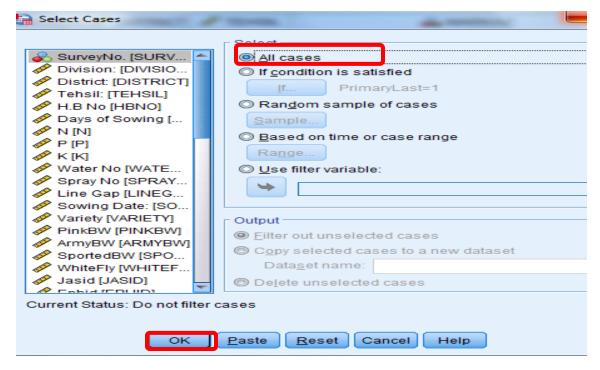


Fig: 1. 25

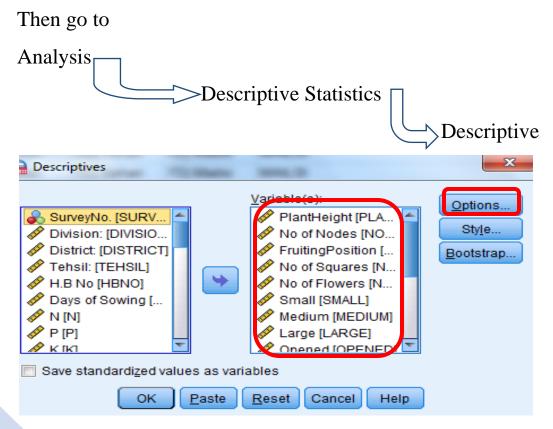


Fig:1. 26

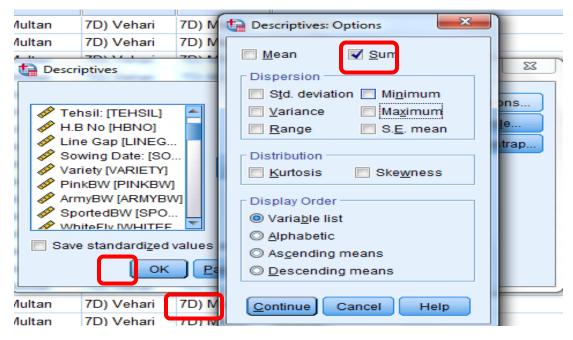




Table	1.5
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	N	Sum
PlantHeight	199	13571
No of Nodes	199	4242
FruitingPosition	199	7692
No of Squares	199	1961
No of Flowers	199	174
Small	199	432
Medium	199	269
Large	199	538
Opened	199	235
Picked	187	107
TotalBolls	199	1559
No of Rotten	199	30
No of Rosset Flw	199	0
EffectedCLCV	199	0
EffectedMealyBug	199	0
EffectedSquares	199	11
EffectedFlowers	199	3
EffectedBolls	199	0

Use of Syntax

- Plant Mapping Survey Syntax file can be use for making consolidated report at any level like Tehsil and district level.
- For opening the syntax file, first open the general file of Plant Mapping Survey then use the following way to open the syntax file.

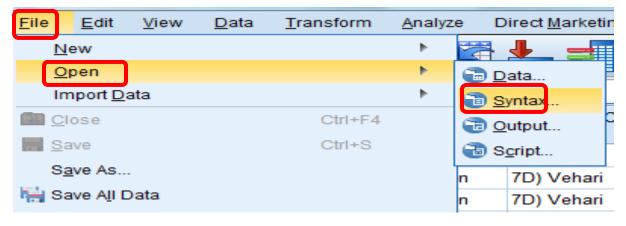
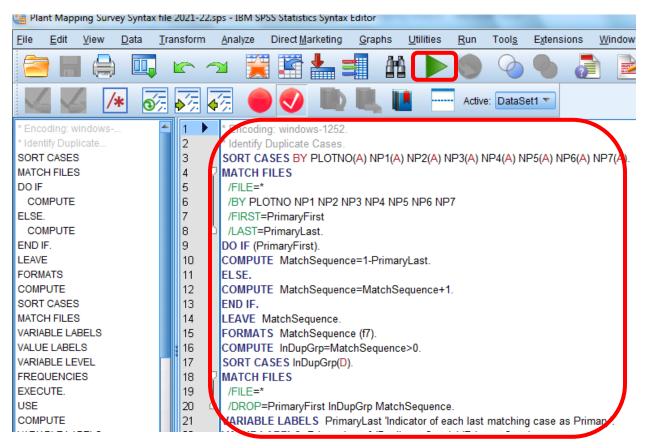


Fig: 27

Cook ji		vesktop 🔹 💼 📾 🔯 🖽 -	
PI	ant Map	sing Survey Syntax file 2021-22.sps	
File <u>n</u> a	ame:	lant Mapping Survey Syntax file 2021-22.sps	<u>O</u> pen
Files o	of <u>t</u> ype:	Syntax (*.sps)	Cancel







> First Select the all commands then click on



> The following output will be generated automatically (Table 1.6)

Descriptive Statistics

	N	Sum
NoPlantM1	96	196
NoPlantM2	96	212
NoPlantM3	96	225
NoPlantM4	96	209
NoPlantM5	96	210
NoPlantM6	96	225
NoPlantM7	96	207
Valid N (listwise)	96	

Descriptive Statistics

	N	Sum
Days of Sowing	32	2374
Ν	32	884
Р	32	560
К	32	0
Water No	32	307
Spray No	32	106
Yield :	4	119
Valid N (listwise)	4	

	Ν	Sum
PlantHeight	199	13571
No of Nodes	199	4242
FruitingPosition	199	7692
No of Squares	199	1961
No of Flowers	199	174
Small	199	432
Medium	199	269
Large	199	538
Opened	199	235
Picked	187	107
TotalBolls	199	1559
No of Rotten	199	30
No of Rosset Flw	199	0
EffectedCLCV	199	0
EffectedMealyBug	199	0
EffectedSquares	199	11
EffectedFlowers	199	3
EffectedBolls	199	0