	Plant	Squash			104(08003)	Primary essential character	
No	Cha	aracters	No. of samples	Methods	3	Rank or measurement unit	Remarks
1	Seed leng	th	10 seeds	Measuremen	it mm (roi	and to the 1st decimal place)	Length of dried ripe seeds
2	Color of	seed coat	10 seeds	Observatio	white	eed coat 1:White 2:Milky white or gray 3:Light yellow 4:Light yellowish brown owish brown 9:Black	Color of seed coat of dried ripe seeds
3	Size of c	otyledon	5 plants	Measuremen	it cm (roi	and to the 1st decimal place)	Width of fully expanded cotyledons
4	Plant type	e	5 plants	Observatio	n 1:Dwarf	2:Intermediate 3:Climbing	At the time of the first fruit setting or 3 months after sowing
5	Shape of	stem	5 plants	Observatio	on 3:Round	d 5:Intermediate 7:Pentagonal	Shape of cross section at the 5th-10th nodes on stem which sets the first fruit or on the strongest stem at 3 months after sowing
6	Leaf size		5 plants	Observatio	4:Sligh	emely small 2:Very small 3:Small atly small 5:Intermediate 6:Slightly 7:Large 8:Very large 9:Extremely large	Size of the 6th-10th leaf on stem which sets the first fruit or on the strongest stem at 3 months after sowing
7	Depth of	sinus of	5 plants	Observatio	3:Shall 6:Sligh	nt 1:Extremely shallow 2:Very shallow Low 4:Slightly shallow 5:Intermediate ntly deep 7:Deep 8:Very deep emely deep	Depth of sinus of the 6th-10th leaf on stem which sets the first fruit or on the strongest stem at 3 months after sowing
8	Leaf spot	s	5 plants	Observatio	3:Very	few 4:Few 5:Intermediate 6:Some 8:Very many 9:Extremely numerous	Quantity of spots or checks of the 6th-10th leaf on stem which sets the first fruit or on the strongest stem at 3 months after sowing
9	Length of	petiole	5 plants	Observatio	4:Sligh	emely short 2:Very short 3:Short atly short 5:Intermediate 6:Slightly 7:Long 8:Very long 9:Extremely long	Length of petiole of the 6th-10th leaf on stem which sets the first fruit or on the strongest stem at 3 months after sowing
10	First pis	tillate flower ode	5 plants	Observatio	3:Low 6:Sligh	pearing 1:Extremely low 2:Very low 4:Slightly low 5:Intermediate atly high 7:High 8:Very high emely high	Average order of node which bears the first female or bisexual flower

	Plant	Squash		104	(08003) Primary essential character	
No	Cha	aracters	No. of samples	Methods	Rank or measurement unit	Remarks
11	Sex type		5 plants	Observation	1:Androecious 2:Monoecious 3:Hermaphrod and monoecious 4:Andromonoecious 5:Gynomonoecious 6:Gynoecious 7:Hermaphroditic 8:Male sterile 9:Femal sterile	
12	Fruit sha	pe (1)	5 plants, 5 fruits	Observation	1:Globular 2:Flattened 3:Disk 4:Cylind 5:Oval 6:Heart shaped 7:Pyriform 8:Dum 9:Other	
13	Fruit sha	pe (2)	5 plants, 5 fruits	Observation	1:Elongate 2:Elongate and curved 3:Croc neck 4:Turbinate superior 5:Turbinate inferior 6:Crowned 7:Other	Shape of fully ripe fruit
14	Fruit ple	at	5 plants, 5 fruits	Observation	0:Absent 1:Extremely shallow 2:Very sha 3:Shallow 4:Slightly shallow 5:Intermed 6:Slightly deep 7:Deep 8:Very deep 9:Extremely deep	
15	Predomina:	nt fruit skin	5 plants, 5 fruits	Observation	1:White 2:Gray 3:Yellow 4:Gray green 5:Green 6:Orange 7:Red 8:Brown 9:Black	Predominant color is the color covering the largest surface area of the fully ripe fruit.  In case two colors have the same area, the lighter color is considered to be the predominant one.
16	Secondary	fruit skin	5 plants, 5 fruits	Observation	0:Absent 1:White 2:Gray 3:Yellow 4:Gr green 5:Green 6:Orange 7:Red 8:Brown 9:Black	Secondary color is the color covering the second largest area of the fully ripe fruit. In case two colors have the same area, the darker is considered to be the secondary one.
17	Fruit wei	ght	5 plants, 5 fruits	Measurement	kg (round to the 1st decimal place)	Weight of fully ripe fruit
18	Flesh col	or	5 plants, 5 fruits	Observation	1:White 2:White green 3:Light yellow 4:Yellow 5:Deep yellow 6:Orange yellow 7:Orange 8:Peach 9:Other	Flesh color of fully ripe fruit
19	Shape of 1	peduncle	5 plants, 5 fruits	Observation	3:Round 5:Medium 7:Pentagonal-octagonal	Shape of peduncle of fully ripe fruit

	Plant	Squash			104(08003)	Primary essential character	
No	Cha	aracters	No. of samples	Methods	s	Rank or measurement unit	Remarks
	Character peduncle	of base of	5 plants, 5 fruits	Observatio	out 4:Si	cylindric 2:Soft coned 3:Soft fanned Slightly hard cylindric 5:Slightly hard 5:Slightly hard fanned out 7:Hard coned 9:Hard fanned out	Hardness and shape of the part where the peduncle attached to fruit

	Plant	Squash		104	(08003)	Primary optional character	
No	Cha	racters	No. of samples	Methods		Rank or measurement unit	Remarks
1	Condition	of seed coat	10 seeds	Observation	4:Slightl	ely smooth 2:Very smooth 3:Smooth y smooth 5:Intermediate 6:Slightly Rough 8:Very rough 9:Extremely rough	Condition of seed coat of dried mature seed
2	Shape of sof seed	Tuniclus trace	10 seeds	Observation	1:Rounded 5:Pointed	l 2:Polygonal 3:Slant 4:Level	Shape of funiculus trace of dried ripe seed
3	Thickness margin	of seed	10 seeds	Observation	3:Thin 4	ckened 1:Extremely thin 2:Very thin solid thin 5:Intermediate by thick 7:Thick 8:Very thick soly thick	Thickness of margin of dried ripe seed
4	Condition margin	of seed	10 seeds	Observation		4:Slightly smooth 5:Intermediate y serrated 7:Serrated	Condition of margin of dried mature seed
5	Color of s	seed margin	10 seeds	Observation	brown 4:	nite 2:Gray yellow 3:Gray yellowish Yellowish brown 5:Light brown green 7:Silver blue 8:Black 9:Other	Color of margin of dried ripe seed
6	Shape of o	cotyledon	5 plants	Observation	1:Rounded	3:Short oval 5:Oval 7:Long oval	Observe at the time when cotyledon fully expanded
7	Color of	cotyledon	5 plants	Observation	1 -	green 4:Slightly light green 5:Green y dark green 7:Dark green	Observe at the time when cotyledon fully expanded
8	Length of	hypocotyl	5 plants	Measurement	cm (round	d to the 1st decimal place)	Measure at the time when cotyledon fully expanded
9	Diameter o	of hypocotyl	5 plants	Measurement	mm (round	to the 1st decimal place)	Measure at the time when cotyledon fully expanded
10	Plant vigo	or	5 plants	Observation	low 5:In	ely low 2:Very low 3:Low 4:Slightly atermediate 6:Slightly high 7:High egh 9:Extremely high	Evaluate at the time of the first set or 3 months after sowing

	Plant	Squash		1	104(08003)	Primary optional character	
No	Cha	aracters	No. of samples	Methods		Rank or measurement unit	Remarks
11	Softness of stem 5 plants Observ		Observation	4:Slightl	ely soft 2:Very soft 3:Soft y soft 5:Intermediate 6:Slightly lard 8:Very hard 9:Extremely hard	Softness of stem at 5th-10th nodes which sets the first fruit or on the strongest stem at 3 months after sowing	
12	Thickness	of stem	5 plants	Observation	4:Slightl	ely thin 2:Very thin 3:Thin  y thin 5:Intermediate 6:Slightly Thick 8:Very thick 9:Extremely thick	Diameter of stem at 5th-10th nodes which sets the first fruit or on the strongest stem at 3 months after sowing
13	Internode	length	5 plants	Measurement	t cm (round	l to the 1st decimal place)	Average length of internode at 5th-10th node on stem which sets the first fruit or on the strongest stem at 3 months after sowing
14	Branching	habit	5 plants	Observation	low 5:In	ely low 2:Very low 3:Low 4:Slightly atermediate 6:Slightly high 7:High egh 9:Extremely high	Evaluate based on the number of branches at the time of the first fruit set or 3 months after sowing
15	Number of	tendrils	5 plants	Observation	3:Very fe	1:Almost none 2:Extremely few www 4:Few 5:Intermediate 6:Some E:Very many 9:Extremely numerous	Observe at the time of first fruit setting
16	Leaf shap	е	5 plants	Observation		2:Slightly ovoid 3:Round 4:Slightly Intermediate 6:Slightly angular	Shape of the 6th-10th leaf on stem which sets the first fruit or on the strongest stem at 3 months after sowing
17	Condition margin	of leaf	5 plants	Observation		4:Slightly smooth 5:Intermediate y serrated 7:Serrated	Condition of margin of the 6th-10th leaf on stem which sets the first fruit or on the strongest stem at 3 months after sowing
18	Spot colo	r of leaf	5 plants	Observation		1:Light green 2:Silver 3:Light   silver 4:Other	Spot color of the 6th-10th leaf on stem which sets the first fruit or on the strongest stem at 3 months after sowing
19	Texture o	f pubescence	5 plants	Observation	n 0:Absent spiny	1:Soft hairy 2:Hard hairy 3:Hard	Texture of pubescence of the 6th-10th leaves on stem which sets the first fruit or on the strongest stem at 3 months sowing

	Plant	Squash		104(	(08003) Primary optional character	
No	Cha	racters	No. of samples	Methods	Rank or measurement unit	Remarks
20	Density of on leaf	f pubescence	5 plants	Observation	0:Absent 1:Extremely thin 2:Very thin 3:Thin 4:Slightly thin 5:Intermediate 6:Slightly dense 7:Dense 8:Very dense 9:Extremely dense	Density of pubescence of the 6th-10th leaf on stem which sets the first fruit or on the strongest stem at 3 months after sowing
21	Leaf color	c	5 plants	Observation	3:Light green 4:Slightly light green 5:Green 6:Slightly dark green 7:Dark green	Color of the 6th-10th leaf on stem which sets the first fruit or on the strongest stem at 3 months after sowing
22	Color of	flower	5 plants	Observation	1:White 2:Yellow 3:Orange 4:Other	Flower color at the time of the first fruit set or 3 months after sowing
23	Time to fi	irst female	5 plants	Observation	0:No female flower 1:Extremely short 2:Very short 3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long 8:Very long 9:Extremely long	Average days to the first female or bisexual flowering
24	Time to fi	irst male	5 plants	Observation	0:No male flower 1:Extremely short 2:Very short 3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long 8:Very long 9:Extremely long	Average days to the first male flowering
25	Fruit rib	shape	5 plants, 5 fruits	Observation	0:Absent 1:Round 2:Intermediate 3:V-shaped	Fully ripe fruits
26	Shape of a	stem-end of	5 plants, 5 fruits	Observation	1:Depressed 2:Slightly depressed 3:Flattened 4:Slightly rounded 5:Rounded 6:Slightly pointed 7:Pointed	Fully ripe fruits
27	Shape of l	olossom-end of	5 plants, 5 fruits	Observation	1:Depressed 2:Slightly depressed 3:Flattened 4:Slightly rounded 5:Rounded 6:Slightly pointed 7:Pointed	Fully ripe fruits
28	Shade of p		5 plants, 5 fruits	Observation	3:Light 4:Slightly light 5:Intermediate 6:Slightly dark 7:Dark	Fully ripe fruits
29	Design prosecondary	oduced by fruit skin	5 plants, 5 fruits	Observation	0:No secondary color 1:Speckled 2:Spotted 3:Striped 4:Streaked 5:Bisectional 6:Other	Fully ripe fruits

	Plant	Squash		:	104(08003)	Primary optional character	
No	Cha	aracters	No. of samples	Methods	5	Rank or measurement unit	Remarks
30	Fruit ski	n texture	5 plants, 5 fruits	Observatio	4:Shallow	2:Grainy 3:Finely wrinkled ly wavy 5:Netted 6:With warts ines 8:Knoted 9:Other	Fully ripe fruits
31	Glossines	s of fruit	5 plants, 5 fruits	Observatio	1	3:Weak 4:Slightly weak diate 6:Slightly prominent nt	Fully ripe fruits
32	Bloom on	fruit skin	5 plants, 5 fruits	Observatio	4:Slight prominent	1:Extremely weak 2:Very weak 3:Weak ly weak 5:Intermediate 6:Slightly 7:Prominent 8:Very prominent ly prominent	
33	Size of b	lossom end	5 plants, 5 fruits	Observatio	4:Slightl	ly small 2:Very small 3:Small y small 5:Intermediate 6:Slightly Large 8:Very large 9:Extremely large	Fully ripe fruits
34	Height of	fruit	5 plants, 5 fruits	Measuremen	t cm (round	to the 1st decimal place)	Fully ripe fruits
35	Width of	fruit	5 plants, 5 fruits	Measuremen	t cm (round	to the 1st decimal place)	Fully ripe fruits
36	Hardness	of fruit skin	5 plants, 5 fruits	Observatio	4:Slightl	ly soft 2:Very soft 3:Soft y soft 5:Intermediate 6:Slightly ard 8:Very hard 9:Extremely hard	Fully ripe fruits. Soft:easily marked by fingernail, intermediate:difficult to mark with fingernail, hard:impossible to mark with fingernail
37	Flesh thi	ckness	5 plants, 5 fruits	Observatio	4:Slightl	ly thin 2:Very thin 3:Thin y thin 5:Intermediate 6:Slightly Thick 8:Very thick 9:Extremely thick	Evaluate based on the flesh thickness index (flesh thickness/radius of fruit x 100), 1:< 15, 2:16-22, 3:23-29, 4:30-36, 5:37-43, 6:44-50, 7:51-57, 8:58-64, 9:> 65
38	Brightnes	s of flesh	5 plants, 5 fruits	Observatio		4:Slightly bright 5:Intermediate y dark 7:Dark	Fully ripe fruit
39	Length of	peduncle	5 plants, 5 fruits	Measuremen	t cm (round	to the 1st decimal place)	Fully ripe fruit

	Plant	Squash			104(08003)	Primary optional character	
No	Cha	aracters	No. of samples	Method	ls	Rank or measurement unit	Remarks
40	Thickness	of peduncle	5 plants, 5 fruits	Observation	4:Slight	the thin fitnessmediate (idlightle	Fully ripe fruit. The part of the center of peduncle
	<u></u>						

	Plant	Squash			104(08003)	Secondary essential character	
No	Cha	uracters	No. of samples	Methods	5	Rank or measurement unit	Remarks
1	Resistance to fusarium 5 plants Obs		Observatio	low 5:In	ely low 2:Very low 3:Low 4:Slightly atermediate 6:Slightly high 7:High	Artificial inoculation for young seedling or natural infection in field	
2	Resistance mildew	e to powdery	5 plants	Observatio	low 5:In	ely low 2:Very low 3:Low 4:Slightly atermediate 6:Slightly high 7:High	Artificial inoculation for young seedling or natural infection in field
3	Resistance	e to virus	5 plants	Observatio	low 5:In	ely low 2:Very low 3:Low 4:Slightly atermediate 6:Slightly high 7:High	Artificial inoculation for young seedling or natural infection in field
4	Resistance Phytophthe		5 plants	Observatio	low 5:Ir	ely low 2:Very low 3:Low 4:Slightly atermediate 6:Slightly high 7:High	Artificial inoculation for young seedling or natural infection in field
5	Earliness		5 plants	Observatio	4:Slightl	ely early 2:Very early 3:Early Ly early 5:Intermediate 6:Slightly Late 8:Very late 9:Extremely late	Date of harvesting half the plants investivated

	Plant	Squash			104(080	103)	Secondary optional character	
No	Cha	ıracters	No. of samples	Method	s		Rank or measurement unit	Remarks
1	Resistanc spot	e to bacterial	5 plants	Observation	lo	w 5:In	ely low 2:Very low 3:Low 4:Slightly atermediate 6:Slightly high 7:High egh 9:Extremely high	Artificial inoculation for young seedling or natural infection in field
2	Resistanc	e to insects	5 plants	Observatio	lo	w 5:In	ely low 2:Very low 3:Low 4:Slightly atermediate 6:Slightly high 7:High .gh 9:Extremely high	Artificial inoculation for young seedling or natural infection in field
3	Resistanc	e to nematodes	5 plants	Observation	lo	lass Fitzstannadista Ciglishtla hish 7:Hish		Artificial inoculation for young seedling or natural infection in field
4	Tolerance temperatu		5 plants	Observatio	lo	w 5:In	ely low 2:Very low 3:Low 4:Slightly atermediate 6:Slightly high 7:High else 9:Extremely high	Seedling or field test
5	Tolerance temperatu	J	5 plants	Observatio	lo	w 5:In	ely low 2:Very low 3:Low 4:Slightly atermediate 6:Slightly high 7:High egh 9:Extremely high	Seedling or field test
6	Excess wa	ter tolerance	5 plants	Observation	lo	w 5:In	ely low 2:Very low 3:Low 4:Slightly atermediate 6:Slightly high 7:High egh 9:Extremely high	Seedling or field test

	Plant Squas	sh		1	.04(08003)	Tertiary essential character	
No	Characte	ers	No. of samples	Methods		Rank or measurement unit	Remarks
1	Degree of conti		5 plants	Observation	low 5:In	ely low 2:Very low 3:Low 4:Slightly stermediate 6:Slightly high 7:High gh 9:Extremely high	Observe at the end of harvesting time, exclude dwarf species
2	Days to harvest	ting	5 plants, 5 fruits	Observation	4:Slightl	ely short 2:Very short 3:Short y short 5:Intermediate 6:Slightly cong 8:Very long 9:Extremely long	Average number of days from flowering to harvest
3	Predominant frucolor at maturitable use		5 plants, 5 fruits	Observation		2:Gray 3:Yellow 4:Gray green 6:Orange 7:Red 8:Brown 9:Black	Fruit at maturity for table use
4	Shade of predor fruit skin cold maturity for ta	or at	5 plants, 5 fruits	Observation	"	4:Slightly light 5:Intermediate y dark 7:Dark	Fruit at maturity for table use
5	Bitterness of 1	flesh	5 plants, 5 fruits	Sensory	4:Slightl	1:Extremely low 2:Very low 3:Low y low 5:Intermediate 6:Slightly high 8:Very high 9:Extremely high	Bitterness of flesh at full or table use maturity

	Plant	Squash			104(08003)	Tertiary optional character	
No	Cha	aracters	No. of samples	Methods	5	Rank or measurement unit	Remarks
1	Flesh tex	ture	5 plants, 5 fruits	Sensory	1:Fibrous 5:Sticky	s 2:Spongy 3:Mealy 4:Intermediate 9:Other	Flesh texture at full or table use maturity
2	Firmness	of flesh	5 plants, 5 fruits	Sensory	4:Slightl	ely soft 2:Very soft 3:Soft Ly soft 5:Intermediate 6:Slightly Hard 8:Very hard 9:Extremely hard	Hardness of flesh at full or table use maturity
3	Eating qu	ality	5 plants, 5 fruits	Sensory	low 5:In	ely low 2:Very low 3:Low 4:Slightly ntermediate 6:Slightly high 7:High high 9:Extremely high	Eating quality at full or table use maturity
4	Dry matte	r percentage	5 plants, 5 fruits	Obs.&Measr	low 5:In	ely low 2:Very low 3:Low 4:Slightly ntermediate 6:Slightly high 7:High high 9:Extremely high	Dry matter percentage of flesh at full or table use maturity. Low:approximately 10-15%, intermediate:20-25%, high:30-35%
5	Keeping q	uality	5 plants, 5 fruits	Observatio	low 5:In	ely low 2:Very low 3:Low 4:Slightly ntermediate 6:Slightly high 7:High high 9:Extremely high	Keeping quality of fruit at table use maturity.  Low: approximately 1 week. Intermediate:1  month, high:3 months
6	Soluble s	olid content	5 plants, 5 fruits	Measuremen	at % (round	to the 1st decimal place)	Brix value of flesh