	Plant Yam				86(08028)		Primary essential character	
No	No Characters		No. of samples	Methods		Rank or measurement unit		Remarks
1	1 Growth vigor of plant		5 plants	Observatio	4:s1	ight]	ely weak 2:Very weak 3:Weak ly weak 5:Intermediate 6:Slightly 7:Strong 8:Very strong 9:Extremely	At the most vigorous stage
2	2 Branching of plant		5 plants	Observatio	_		ely few 2:Very few 3:Few 4:Slightly ntermediate 6:Some 7:Many 8:Very Extremely many	Number of branches at the most vigorous stage
3	Shape of 3	leaf	10 plants	Observatio		_	cordate 2:Cordate 3:Deeply cordate ate 9:Other	Of the 15th nodes at the most vigorous stage
4	Size of lo	eaf	10 plants	Observatio	4:81	ightl	ely small 2:Very small 3:Small ly small 5:Intermediate 6:Slightly :Large 8:Very large 9:Extremely large	Of the 15th nodes at the most vigorous stage
5	5 Formation of aerial 5 plants tuber		Observatio	few	5:Ir	ely few 2:Very few 3:Few 4:Slightly ntermediate 6:Slightly profuse e 8:Very profuse 9:Extremely profuse	At harvest time	
6	Skin color of tuber 5 plants Obs		Observatio		1:Yellow brown 2:Pale brown 3:Brown 4:Black brown 5:Black 6:Red 7:Purple 9:Other		After washing harvested tuber	
7	Shape of				4:0	1:Lash shaped 2:Long spindle 3:Spindle shaped 4:Cylinder shaped 5:Sake-bottle shaped 6:Fan shaped 7:Hand shaped 8:Globular 9:Massive		
8	8 Flesh color of 5 plants underground tuber		Observatio	on 1:Wh	ite	2:Cream color 3:Purple red 9:Other	At harvest time	

	Plant Yam				86(08028)		Primary optional character	
No	o Characters		No. of samples	Method	ls	Rank or measurement unit		Remarks
1	Direction of twinning of stem		5 plants	Observation	on 1:C1	1:Clockwise 2:Anticlockwise		At growing stage of stem
2	2 Cross section of stem		5 plants	Observati	on 1:Ro	1:Round 2:Square 9:Other		At the most vigorous stage
3	Wing on s	tem	5 plants	Observati	on 0:Ab	sent	9:Present	At the most vigorous stage
4	Thickness of stem		5 plants	Measureme:	nt mm (integ	ger)	Stem diameter of the 15th node at the most vigorous stage
5	Color of stem		5 plants			Green 2:Light purple red 3:Purple red Dark purple red 9:Other		Stem color of 15th node at the most vigorous stage
6	6 Length of leaf		10 leaves	Measurement cm (cm (integer)		Length of leaf of 15th nodes at the most vigorous stage
7	7 Width of leaf		10 leaves	Measureme:	nt cm (cm (integer)		Width leaf of 15th nodes at the most vigorous stage
8	Depth of sinus on leaf		10 leaves	Observati	4:s1	ightl	ely shallow 2:Very shallow 3:Shallow ly shallow 5:Intermediate 6:Slightly Deep 8:Very deep 9:Extremely deep	Of 15th nodes at the most vigorous stage
9	Width of sinus on leaf		10 leaves	Observati	4:S1	ightl	ely narrow 2:Very narrow 3:Narrow ly narrow 5:Intermediate 6:Slightly Wide 8:Very wide 9:Extremely wide	Of 15th nodes at the most vigorous stage
10	O Sinus of leaf margin		10 leaves	Observati	3:Sm 6:Sl	all ight]	1:Extremely small 2:Very small 4:Slightly small 5:Intermediate ly large 7:Large 8:Very large ely large	Of 15th nodes at the most vigorous stage
11	Color of leaf 10 leaves		10 leaves	Observati		1:Yellow green 3:Pale green 5:Green 7:Deep green 9:Other		At the most vigorous stage
12	12 Length of petiole		10 leaves	Observati	4:s1	ightl	ely short 2:Very short 3:Short ly short 5:Intermediate 6:Slightly Long 8:Very long 9:Extremely long	Of 15th nodes at the most vigorous stage

	Plant	Yam		86(0	08028)	Primary optional character	
No	Characters No. of samples		Methods		Rank or measurement unit	Remarks	
13	Pigmentation of petiole 10 leaves on leaf base		Observation	0:Absent	9:Present	Anthocyanin pigmentation of petiole base of the 15th nodes at the most vigorous stage	
14	Setting of opposite 5 plants leaves		5 plants	Observation	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Node order of opposite phyllotaxy at the most vigorous stage
15	Shape of a	aerial tuber	5 plants	Observation	1:Globular 2:Pear 3:Ellipse 4:Flat 9:Other		At harvest time
16	Size of aerial tuber 20 aerial tubers		Observation	1:Extremely small 2:Very small 3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large 8:Very large 9:Extremely large		At harvest time	
17	Color of aerial tuber 20 aerial tubers coat		Observation	3:Light b	rown 5:Brown 7:Dark brown 9:Other	At harvest time	
18	Skin texture of tuber 5 plants		Observation	4:Slightl	ly rough 2:Very rough 3:Rough y rough 5:Intermediate 6:Slightly :Smooth 8:Very smooth 9:Extremely	At harvest time	
19	Number of	tubers	5 plants	Observation	1:One 2:	Several	At harvest time
20	Length of tuber 5 plants		Observation	1:Extremely short 2:Very short 3:Short 4:Rather short 5:Intermediate 6:Rather long 7:Long 8:Very long 9:Extremely long		At harvest time (elongated line only)	
21	Neck leng	th of tuber	5 plants	Observation	4:Slightl	ly short 2:Very short 3:Short y short 5:Intermediate 6:Slightly ong 8:Very long 9:Extremely long	At harvest time
22	22 Hairiness on tuber 5 plants surface		Observation	few 5:In	ly few 2:Very few 3:Few 4:Slightly termediate 6:Some 7:Many 8:Very xtremely many	At harvest time	

Plant		Yam			86(08028	8)	Secondary essential character	
No	Characters		No. of samples	Method	s	Rank or measurement unit		Remarks
1	1 Tolerance to drought		10 plants	Observation	lov	w 5:In		Degree of withering of leaf in drought condition

	Plant	Yam			86(08028)	Secondary optional character	
No	No Characters		No. of samples	Method	S	Rank or measurement unit	Remarks
1	1 Sprouting time		10 plants	Observatio	4:Sligh	emely early 2:Very early 3:Early htly early 5:Intermediate 6:Slightly 7:Late 8:Very late 9:Extremely late	In early spring
2	2 Harvest time		10 plants	4:Slig		emely early 2:Very early 3:Early htly early 5:Intermediate 6:Slightly 7:Late 8:Very late 9:Extremely late	
3	3 Cold tolerance 5 co		5 corms	Observatio	low 5	emely low 2:Very low 3:Low 4:Slightly :Intermediate 6:Slightly high 7:High high 9:Extremely high	After winter
4	Corm storability 5 corms		5 corms	Observatio	low 5	emely low 2:Very low 3:Low 4:Slightly :Intermediate 6:Slightly high 7:High high 9:Extremely high	Degree of rot of tuber in the store
5	5 Resistance to Brown rot		10 plants	Observatio	low 5	emely low 2:Very low 3:Low 4:Slightly:Intermediate 6:Slightly high 7:High high 9:Extremely high	
6	6 Resistance to mosaic virus disease		10 plants	Observatio	low 5	emely low 2:Very low 3:Low 4:Slightly :Intermediate 6:Slightly high 7:High high 9:Extremely high	
7	Resistance to nematoda 10 plants		10 plants	Observatio	low 5	emely low 2:Very low 3:Low 4:Slightly:Intermediate 6:Slightly high 7:High high 9:Extremely high	At harvest time
8	8 Resistance to spider mite		10 plants	Observatio	low 5	emely low 2:Very low 3:Low 4:Slightly:Intermediate 6:Slightly high 7:High high 9:Extremely high	

	Plant Yam		8	36(08028)	Tertiary essential character	
No	Characters	No. of samples	Methods		Rank or measurement unit	Remarks
1	Flesh quality of tuber	5 plants	Observation	4:Slightl	ly coarse 2:Very coarse 3:Coarse y coarse 5:Intermediate 6:Slightly Dense 8:Very dense 9:Extremely dense	Of cut surface
2	Viscosity of brayed flesh	5 plants	Observation	low 5:In	ly low 2:Very low 3:Low 4:Slightly termediate 6:Slightly high 7:High gh 9:Extremely high	Viscosity of ground flesh of tuber
3	Browning of flesh (brayed flesh)	5 plants	Observation	4:Slightl	ly little 2:Very little 3:Little y little 5:Intermediate 6:Some :Very much 9:Extremely much	Degree of browning after 1 hour brayed