	Plant	Lettuce		83(0	8023)	Primary essential character	
No	Characters No. of samples		No. of samples	Methods		Rank or measurement unit	Remarks
1	1 Leaf shape		10 plants	Observation	1:Acute of 5:Oblate	blong 2:Oblong 3:Round 4:Scallop 9:Other	Investigate the largest leaf at harvest time
2	Leaf color	<u>.</u>	10 plants	Observation	1:Yellow	3:Light green 5:Green 7:Dark green	Investigate outer leaves at harvest time
3	Lobe of le	eaf	10 plants	Observation	3:Shallow	Extremely shallow 2:Very shallow 4:Slightly shallow 5:Intermediate y deep 7:Deep 8:Very deep ly deep	Investigate outer leaves at harvest time
4	Leaf textu	nre	10 plants	Sensory		4:Slightly brittle 5:Intermediate y elastic 7:Elastic	Investigate the largest extended leaf on unheading type and the first wrapping leaf of heading type at harvest time
5	Heading fo	ormation	10 plants	Observation	1:Non-hea	ding 3:Half-heading 5:Heading	Investigate at harvest time
6	Head shape	2	10 plants	Observation	globular	Slightly flat 3:Globular 4:Slightly 5:Intermediate 6:Slightly elliptic c 8:Very elliptic 9:Extremely	Investigate at harvest time
7	Overlappin	ng of head	10 plants	Observation	3:Shallow	Extremely shallow 2:Very shallow 4:Slightly shallow 5:Intermediate y deep 7:Deep 8:Very deep ly deep	Investigate at harvest time
8	Core lengt	h	10 plants	Measurement	cm (integ	er)	Investigate standard plants at harvest time
9	Earliness	of maturing	10 plants	Observation	4:Slightl	ly early 2:Very early 3:Early y early 5:Intermediate 6:Slightly ate 8:Very late 9:Extremely late	Investigate when plants become harvestable

	Plant	Lettuce		83(08023)	Primary optional character	
No	Cha	aracters	No. of samples	Methods		Rank or measurement unit	Remarks
1	1 Growth type		10 plants	Observation	1:Cutting 6:Crisphe	g 2:Stem 3:Cos 4:Leaf 5:Butterhead ead	Investigate at harvest time
2	Plant att	itude	10 plants	Observation		4:Slightly erect 5:Intermediate Ly opening 7:Opening	Investigate at harvest time
3	Pigmentat.	ion of leaf	10 plants	Observation	3:Light	Extremely light 2:Very light 4:Slightly light 5:Intermediate y dark 7:Dark 8:Very dark ely dark	Investigate anthocyanin pigmentation of leaf at harvest time
4	Gloss of 1	leaf	10 plants	Observation	4:Slightl	Extremely low 2:Very low 3:Low by low 5:Intermediate 6:Slightly high 8:Very high 9:Extremely high	Investigate at harvest time
5	Rufflenes	s of leaf	10 plants	Observation	little 5	2:Very little 3:Little 4:Slightly 5:Intermediate 6:Slightly severe 8:Very severe 9:Extremely severe	Investigate at harvest time
6	Wave of l	eaf margin	10 plants	Observation	3:Little 6:Slightl	Extremely little 2:Very little 4:Slightly little 5:Intermediate y obvious 7:Obvious 8:Very obvious ely obvious	Investigate at harvest time
7	Serration margin	of leaf	10 plants	Observation	3:Shallow	1:Extremely shallow 2:Very shallow w 4:Slightly shallow 5:Intermediate Ly deep 7:Deep 8:Very deep ely deep	Investigate at harvest time
8	Leaf leng	th	10 plants	Measurement	cm (integ	ger)	Investigate the largest outer leaf at harvest time
9	Leaf widt	h	10 plants	Measurement	cm (integ	ger)	Investigate the largest outer leaf at harvest time
10	Petiole w	idth	10 plants	Observation	4:Slightl	ely narrow 2:Very narrow 3:Narrow Ly narrow 5:Intermediate 6:Slightly Nide 8:Very wide 9:Extremely wide	Investigate the base of petiole at harvest time
11	Leaf tact	ility	10 plants	Sensory	1:Stiff	2:Brittle 3:Elastic	Investigate the largest outer leaf of nonheading type and the first wrapping leaf of heading type at harvest time

	Plant	Lettuce		83(0	08023)	Primary optional character	
No	Cha	aracters	No. of samples	Methods		Rank or measurement unit	Remarks
12	12 Head color		10 plants	Observation	4:Slightl	ly light 2:Very light 3:Light y light 5:Green 6:Slightly dark :Very dark 9:Extremely dark	Investigate at harvest time
13	Head tightness 10 plants Observation		Observation	1:Extremely loose 2:Very loose 3:Loose 4:Slightly loose 5:Intermediate 6:Slightly tight 7:Tight 8:Very tight 9:Extremely tight			
14	Head diam	eter	10 plants	Measurement	cm (integ	er)	Investigate at harvest time
15	Head heig	ht	10 plants	Measurement	cm (integ	er)	Investigate at harvest time
16	Number of	outer leaves	10 plants	Measurement	(integer)	Count at harvest time
17	Number of leaves	heading	10 plants	Measurement	(integer)	Count at harvest time
18	Head dist	ortion	10 plants	Observation	3:Frequen	ly frequent 2:Very frequent t 4:Slightly frequent 5:Intermediate ly rare 7:Rare 8:Very rare ly rare	Investigate at harvest time
19	Stem widt	h	5 plants	Observation	4:Slightl	ly thin 2:Very thin 3:Thin y thin 5:Intermediate 6:Slightly Thick 8:Very thick 9:Extremely thick	Investigate at harvest time
20	Bolting		10 plants	Observation	4:Slightl	ly early 2:Very early 3:Early y early 5:Intermediate 6:Slightly ate 8:Very late 9:Extremely late	Evaluate at late spring sowing

	Plant Lettuce			83(08023)	Secondary essential character		
No	Cha	racters	No. of samples	o. of samples Methods		Rank or measurement unit	Remarks
1	Seed dorma	ancy	100 seeds	Measuremer	nt % (in	ceger)	Germination rate under 25 centi degree, using 2 month old seeds after harvest
_	Bacterial resistance		10 plants	Observatio	low	remely low 2:Very low 3:Low 4:Slightly 5:Intermediate 6:Slightly high 7:High 7 high 9:Extremely high	Evaluated by natural infection
3	Virus res	low 5:Interm		remely low 2:Very low 3:Low 4:Slightly 5:Intermediate 6:Slightly high 7:High 7 high 9:Extremely high	Evaluated by natural infection		
4	Soft rot resistance 10 plants Observati		low	remely low 2:Very low 3:Low 4:Slightly 5:Intermediate 6:Slightly high 7:High 7 high 9:Extremely high	Evaluated by natural infection		

	Plant Lettuce		83(0	8023) Secondary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Seed thermodormancy	100 seeds	Measurement	% (integer)	Germination rate at 30 centi degrees
2	Heat tolerance	10 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	
3	Cold tolerance	10 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	
4	Drought tolerance	10 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	
5	Tolerance to excess moisture	10 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	
6	Sclerotinia drop resistance	10 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	
7	Downy mildew resistance	2 10 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	
8	Insect resistance	10 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	
9	Tolerance to physiological disorder	10 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	

	Plant Lettuce			83(08		Tertiary essential character	
No	Cha	racters	No. of samples	Method	s	Rank or measurement unit	Remarks
1	Weight of head 5 plants Measureme		Measuremer	nt g (integ	er)	Investigate standard plants at harvest time	
2	2 Texture of leaves 10 heads Senso:		Sensory	4:Slight	ely soft 2:Very soft 3:Soft ly soft 5:Intermediate 6:Slightly Hard 8:Very hard 9:Extremely hard		
3	Brix cont	ent	10 plants	Measuremer	nt % (round	to the 1st decimal place)	Investigate at harvest time (Brix %)
4	4 Bitterness of leaf 10 plants		Sensory	3:Little	1:Extremely little 2:Very little 4:Slightly little 5:Intermediate ly much 7:Much 8:Very much ely much	Investigate midrib at harvest time	

	Plant Lettuce			٤	33(08023)	Tertiary optional character	
No	No Characters		No. of samples	Methods	;	Rank or measurement unit	Remarks
1	Latex content 10 plants		Observatio	4:Slightl	ely little 2:Very little 3:Little Ay little 5:Intermediate 6:Slightly Much 8:Very much 9:Extremely much	Investigate at harvest time	
2	Browning stem	of cutting	10 plants	Observatio	4:Slightl	ely little 2:Very little 3:Little y little 5:Intermediate 6:Slightly Much 8:Very much 9:Extremely much	Investigate at harvest time
3	Carbohydr	ate content	10 plants	Measuremen	t g per 100	g (round to the 1st decimal place)	Investigate at harvest time
4	Protein c	ontent	10 plants	Measuremen	t g per 100	g (round to the 1st decimal place)	Investigate at harvest time
5	Fat conte	nt	10 plants	Measuremen	t g per 100	g (round to the 1st decimal place)	Investigate at harvest time
6	Mineral c	ontent	10 plants	Measuremen	t mg per 10	0 g (round to the 1st decimal place)	Investigate at harvest time
7	Ascorbic	acid content	10 plants	Measuremen	t mg per 10	0 g (round to the 1st decimal place)	Investigate at harvest time
8	Vitamin A	content	10 plants	Measuremen	t I.U.per 1	.00 g (integer)	Investigated at harvest time