

MORPHOLOGICAL DESCRIPTOR

GARLIC (Allium sativum L.)



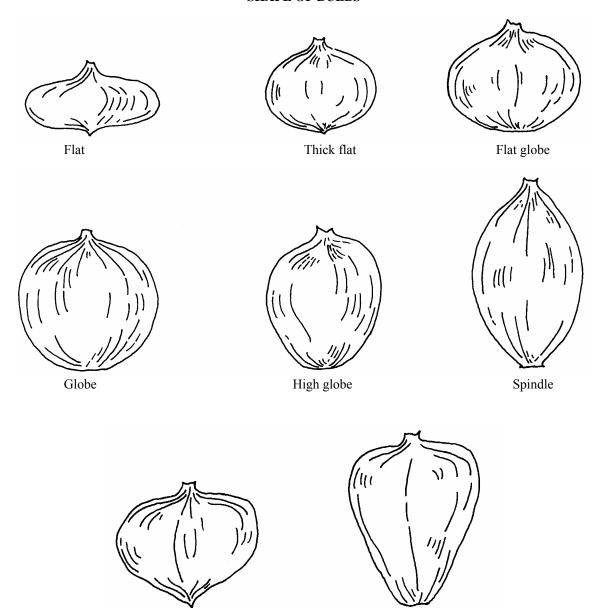
Federal Seed Certification & Registration Department Ministry of Food, Agriculture & Livestock Government of Pakistan, Islamabad Testing Genetic Suitability and Adaptability: and Registration of Crop Varieties is Legal Obligation under Section 8 of Seed Act, 1976.

Dr. M. Ashraf Tajammal Ms. Naheed Naz

<u>GENERAL</u>					
Variety name					
Parentage					
Pedigree					
Breeder (s)					
Comparable variety (s)					
Breeding center/institute					
Variety maintainer					
Origin	□ Local	□ Exotic			
Breeding method	☐ Selection	☐ Hybridization	☐ Introduction ☐	Any other	
Areas of adaptation					
Planting time					
Maturity duration	□ Short	☐ Medium	□ Long		
LEAF CHARACTERISTICS					
Leaf color	☐ L. green	☐ Medium green	n 🗆 Dark green 🛭	☐ Bluish green	
Leaf attitude	□ Erect	☐ Semi erect			
Leaf length (cm)					
Leaf width (cm)					
Leaf shape in cross section	□ Circular	□ Semi circular	☐ Square ☐ Pent	tagonal 🗆 V-sh	aped Any other
Leaf waxiness	□ Weak	☐ Medium	☐ Strong		
BULBCHARACTERISTICS					
Bulb shape			lat globe ☐ Glob	oe 🗆 High glob	be
	_	☐ High top			
Bulb size	☐ Small	☐ Medium	☐ Large		
Bulb height (cm)					
Bulb diameter (cm)					
Bulb width of neck	□ Thin	☐ Medium	☐ Thick		
Skin color	□ White	☐ Yellowish wh	ite 🗆 Purplish	n white	
Skin adherence	□ Loose	☐ Medium	☐ Tight		
Presence of bulbils	☐ Absent	☐ Present			
No. of bulbils					
Bulbils length/width (cm)	/				
Arrangement of bulbils	☐ In two rows	\Box In three row	\Box In more that	an three rows	
around central axis					
Bulbils skin color	□ White	☐ Yellowish wh	ite 🗆 Purplish	n white	
Thickness of bulbils skin	☐ Thin	☐ Medium	☐ Thick		
Bulbils adherence around	□ Loose	☐ Medium	☐ Thick		
central axis					
Bulbils flesh color	□ White	☐ Yellowish whi	ite		
Flesh firmness	□ Soft	☐ Medium	□ Firm		
Root disc width	\square Small	☐ Medium	□ Large		
Root disc position	□ Deep	☐ Flat	☐ Outstanding		
Pungency	□ Low	☐ Medium	□ High		
Dry matter	\square Low	☐ Medium	□ High		
HEAD CHARACTERISTICS	<u>5</u>				
Head height (cm)					
Width of main axis (cm)					
Number of axis	□ One	\Box Two	☐ Three	□ Many	
Color of axis at flowering	☐ L. green ☐	-	☐ Dark green ☐ Bl		
Color of axis at maturity	☐ Green	☐ L. yellow	☐ Yellow ☐ Stra	W	
Head size (cm)					
Flowering head color		☐ Yellow ☐ Pi		☐ Purple ☐	☐ Any other
Anther color	□ Yellow □	\Box Green \Box A	any other		

ENVIRONMENTAL ADAPT Flowering Response to seasons			der define conditions) ☐ Highly variable
Drought tolerance (Measured as reduction in yield).	☐ Least tolerant	□ Medium	☐ Most tolerant
Tolerance to salinity (Measured by reduction in plant height 30 days after sowing).	☐ Least tolerant	□ Medium	☐ Most tolerant
Tolerance to acid soils (Measured as reduction in plant height 30 days after sowing).	☐ Least tolerant	□ Medium	☐ Most tolerant
Cold tolerance (Measured as reduction in general vigor and productivity after being continuously exposed to an average temperature of 15 °C for at least 15 days).	□ Least tolerant	□ Medium	☐ Most tolerant
Heat tolerance (Measured as yield reduction when continuously exposed to average of 40 °C during the flowering period).	☐ Least tolerant	□ Medium	☐ Most tolerant
DECICEANCE TO INCECTO	C/DECTC		
RESISTANCE TO INSECTS			
RESISTANCE TO DISEASE	ES		
			
DISTINGUISHING CHARA	CTERISTICS		

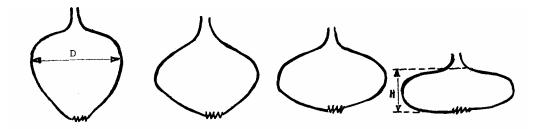
SHAPE OF BULBS



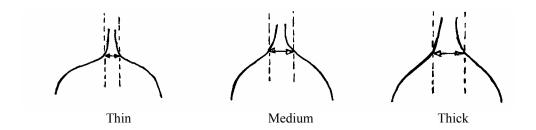
High top

Flat top

BULB DIAMETER/HEIGHT



BULB WIDTH OF NECK



POSITION OF ROOT DISC

