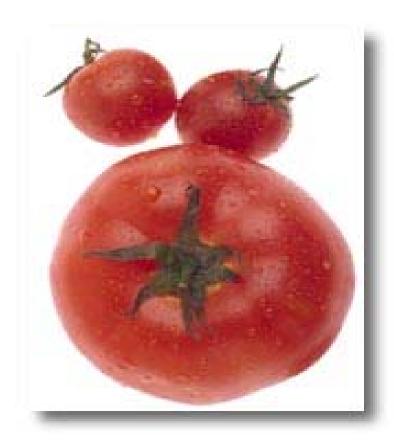


MORPHOLOGICAL DESCRIPTOR TOMATO (Lycopersicon esculentum L.)



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.

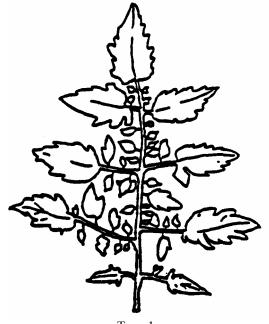
Dr. M. Ashraf Tajammal Ms. Naheed Naz

GENERAL Variety name Parentage Pedigree Breeder (s) Comparable variety (s) Breeding center/institute Variety maintainer Origin Breeding method Areas of adaptation Planting time Maturity duration	☐ Local ☐ Selection	☐ Exotic ☐ Hybridization ☐ Medium	□ Introduction	n □ Any other	
SEEDLING CHARACTERIS	TICS				
Seedling height (cm) Seedling pubescence Seedling anthocyanin	☐ Absent☐ Absent	☐ Sparse ☐ Weak	☐ Medium ☐ Medium	☐ Strong ☐ Strong	
PLANT CHARACTERISTIC					
Growth type Growth habit	☐ Determinate ☐ Bushy	☐ Indeterminat ☐ Spreading	e □ Trailing		
STEM CHARACTERISTICS Stem color Stem thickness (mm)	☐ L. green	□ Green	☐ Dark green		
Internode length (between Ist & 4 th node)	□ Short	□ Medium	\Box Long		
Stem anthocyanin Stem hairiness	☐ Absent☐ Sparse	□ Weak□ Medium	☐ Medium☐ Profuse	□ Strong	
LEAF CHARACTERISTICS Leaf attitude (in middle third of plant)	□ Erect	☐ Semi erect	☐ Horizontal	☐ Drooping	
Leaf color Leaf type Leaf length/width (cm)	☐ L. green ☐ Type 1/	☐ Green ☐ Type 2	☐ Dark green ☐ Type 3	☐ Type 4	
Division of blade	□ Pinnate	☐ Bipinnate			
FLOWER CHARACTERIST Flowering days	<u>ICS</u>				
Inflorescence type Flower color Pedicel length (from abscission layer to calyx)	☐ Uniparous ☐ Yellow ☐ Short	☐ Multiparous☐ Orange☐ Medium	□ Long		
Anther color Stigma pubescence	□ Creamy□ Absent	☐ Yellow ☐ Present	□ Orange	☐ Anyother	
FRUIT CHARACTERISTICS Fruiting days					
Fruit color Fruit shape in longitudinal	☐ Yellowish g	reen \square Orange \square Slightly flatter		Red nd □ Rectangu	ılar 🗆 Cylindrical
section	☐ Heart-shaped			☐ Pear-shaped	☐ Strongly pear-shaped
Fruit ribbing at stem end	□ Absent	□ Weak	☐ Medium	□ Strong	□ V. strong
Fruit cross section Fruit intensity of green color of shoulder	□ Round □ Light	□ Not round□ Medium	□ Strong		
Fruit size of blossom scar Fruit top	□ V. small□ Round	☐ Small☐ Pointed	☐ Medium☐ Flat	□ Large	

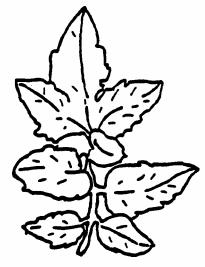
SEED CHARACTERISTICS Seed color Seed shape Seed length (mm) Seed width (mm) Seed thickness (mm) 000, seed weight (g)	S ☐ Yellow ☐ L. brown ☐ Dark brown ☐ Round compressed ☐ Semi round compressed						
ENVIRONMENTAL ADAP Flowering Response to seasons			der define conditions) ☐ Highly variable				
Drought 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 vigour 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				
RESISTANCE TO INSECTS	S/PESTS						
RESISTANCE TO DISEASE	E <u>S</u>						
		••••••	•••••				

DISTINGUISHING CHARACTERISTICS			
			• • • • • • • • • • • • • • • • • • • •
•••••			
RECOMMENDED/APPROVED BY			
Variety Evaluation Committee (VEC)	□ Yes	□ No	
Experts Sub Committee	□ Yes	□ No	
Provincial Seed Council	□ Yes	□ No	
COMMENTS OF SPOT EXAMINATION			
ADDITIONAL INFORMATION			
			• • • • • • • • • • • • • • • • • • • •

LEAF TYPE



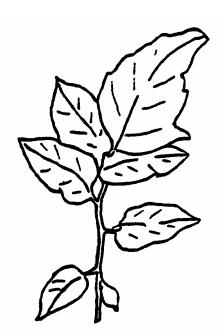
Type 1



Type 2

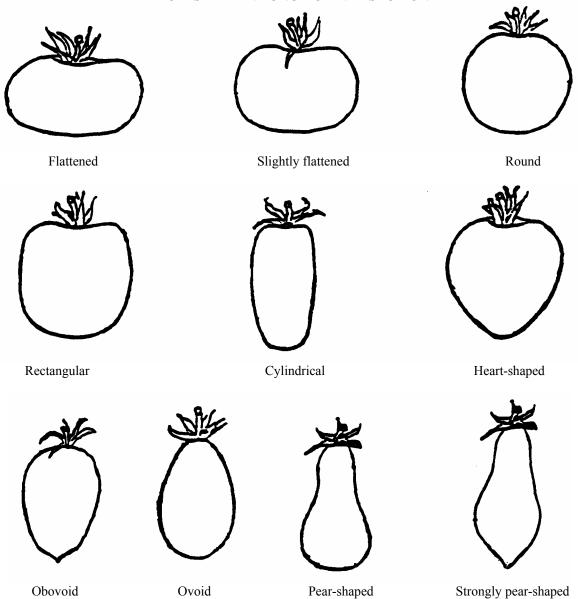


Type 3



Type 4

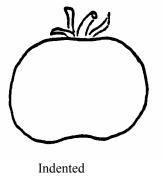
FRUIT SHAPE IN LONGITUDINAL SECTION

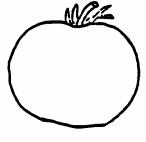


PEDICEL LENGTH (FROM ABCISSION LAYER TO CALYX)



FRUIT SHAPE AT BLOSSOM END







Flat

Pointed