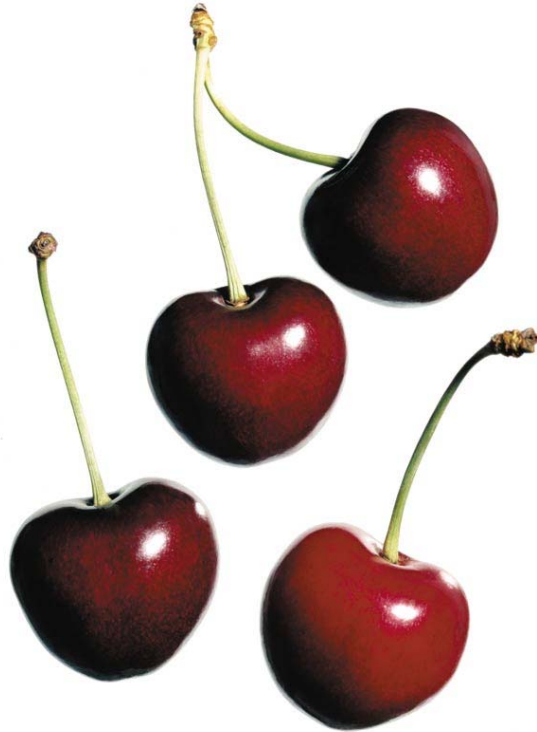




## MORPHOLOGICAL DESCRIPTOR

### **CHERRY** **SWEET & SOUR** *(Prunus avium L.) (Prunus cerasus 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 .....
- Species  *Prunus avium* L.  *Prunus cerasus* L.
- Type  Sweet  Sour
- Breeding center/institute .....
- Areas of adaptation .....
- Parentage .....
- Rootstock name .....
- Scion name .....
- Origin of rootstock  Local  Selection from exotic material  Introduction  Any other
- Origin of scion  Local  Selection from exotic material  Introduction  Any other
- Type of maintenance  Vegetative  Tissue Culture  Seed  Others
- Type of vegetative production  Grafting/  
budding  Hardwood cuttings  Softwood cuttings  Stole beds   
others
- Scion/rootstock compatibility  Poor  Medium  Good
- Flowering season/month .....
- Fruit ripening .....
- Fruiting set .....
- Status of the variety  Primitive  Advanced

**TREE CHARACTERISTICS:**

- Tree type  Normal  Spur
- Tree vigor  Weak  Medium  Strong
- Tree habit  Erect  Semi erect  Spreading  Drooping
- Tree branching  Weak  Medium  Strong
- Young shoot anthocyanin  Weak  Medium  Strong
- Young shoot pubescence of apex  Weak  Medium  Strong
- Internode length of one year old shoot  Normal  Short

**LEAF CHARACTERISTICS:**

- Intensity of green color upperside  Light  Medium  Dark
- Leaf blade length (cm) .....
- Leaf blade length  Short  Medium  Long
- Leaf blade width (cm) .....
- Leaf blade width  Narrow  Medium  Broad
- Leaf blade ratio length/width  Small  Medium  Large
- Leaf length of petiole .....
- Petiole nectaries  Absent  Present
- Nectaries color  Greenish yellow  Orange yellow  Light red  Dark red  Purple
- Leaf stipule  Absent  Present
- Stipule attitude  Leaning away from shoot  Adpressed to shoot  Leaning across shoot
- Stipule margin extensions  Absent/weak  Medium  Strong

**FLOWER CHARACTERISTICS:**

- Diameter of corolla  Small  Medium  Large
- Flower shape of petal  Round  Moderately obovate  Broad obovate
- Arrangement of Petals  Free  Intermediate  Overlapping
- Flower arrangement  Solitary  Double  Cluster  Irregular

**FRUIT CHARACTERISTICS:**

- Fruit size  Small  Medium  Large
- Fruit shape  Cordate  Reniform  Oblate  Round  Elliptic
- Fruit pistil end  Pointed  Flat  Depressed

**Morphological Descriptor****Cherry**

Fruit colour of skin	<input type="checkbox"/> Yellow	<input type="checkbox"/> Orange Red	<input type="checkbox"/> Red	<input type="checkbox"/> Dark red	<input type="checkbox"/> Blackish
Fruit color of juice	<input type="checkbox"/> Colourless	<input type="checkbox"/> Light yellow	<input type="checkbox"/> Pink	<input type="checkbox"/> Purple	
Fruit color of flesh	<input type="checkbox"/> Cream	<input type="checkbox"/> Yellow	<input type="checkbox"/> Pink	<input type="checkbox"/> Red	<input type="checkbox"/> Dark red
Fruit firmness	<input type="checkbox"/> Soft	<input type="checkbox"/> Medium	<input type="checkbox"/> Firm		
Fruit acidity	<input type="checkbox"/> Low	<input type="checkbox"/> Medium	<input type="checkbox"/> High		
Fruit sweetness	<input type="checkbox"/> Low	<input type="checkbox"/> Medium	<input type="checkbox"/> High		
Fruit juiciness	<input type="checkbox"/> Weak	<input type="checkbox"/> Medium	<input type="checkbox"/> Strong		
Fruit length of stalk (cm)	.....				
Fruit length of stalk	<input type="checkbox"/> Short	<input type="checkbox"/> Medium	<input type="checkbox"/> Long		
Abscission layer between stalk and fruit	<input type="checkbox"/> Short	<input type="checkbox"/> Medium	<input type="checkbox"/> Long		
Fruit thickness of stalk (cm)	.....				
Fruit thickness of stalk	<input type="checkbox"/> Thin	<input type="checkbox"/> Medium	<input type="checkbox"/> Thick		
Stone length/width (cm)	...../.....				
Stone size	<input type="checkbox"/> Small	<input type="checkbox"/> Medium	<input type="checkbox"/> Large		
Stone shape (in ventral view)	<input type="checkbox"/> Narrow elliptic	<input type="checkbox"/> Broad elliptic	<input type="checkbox"/> Round		
Stone size relative to fruit	<input type="checkbox"/> Small	<input type="checkbox"/> Medium	<input type="checkbox"/> Large		
Time of flowering	<input type="checkbox"/> Early	<input type="checkbox"/> Medium	<input type="checkbox"/> Late		
Time of fruit maturity	<input type="checkbox"/> Early	<input type="checkbox"/> Medium	<input type="checkbox"/> Late		

**ENVIRONMENTAL ADAPTABILITY** (Evaluation done under define conditions)

**Flowering Response to seasons**     Stable     Variable     Highly variable

**Drought tolerance**     Least tolerant     Medium     Most tolerant  
(Measured as reduction in yield).

**Tolerance to salinity**     Least tolerant     Medium     Most tolerant  
(Measured by reduction in plant height 30 days after sowing).

**Tolerance to acid soils**     Least tolerant     Medium     Most tolerant  
(Measured as reduction in plant height 30 days after sowing).

**Cold tolerance**     Least tolerant     Medium     Most tolerant  
(Measured as reduction in general vigour and productivity after being continuously exposed to an average temperature of 15 °C for at least 15 days).

**Heat tolerance**     Least tolerant     Medium     Most tolerant  
(Measured as yield reduction when continuously exposed to average of 40 °C during the flowering period).

**RESISTANCE TO INSECTS/PESTS:**

.....  
.....  
.....  
.....

**RESISTANCE TO DISEASES:**

.....  
.....  
.....  
.....

**DISTINGUISHING CHARACTERISTICS:**

.....  
.....  
.....  
.....

**RECOMMENDED/APPROVED BY:**

Variety Evaluation Committee (VEC)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Experts Sub Committee	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Provincial Seed Council	<input type="checkbox"/> Yes	<input type="checkbox"/> No

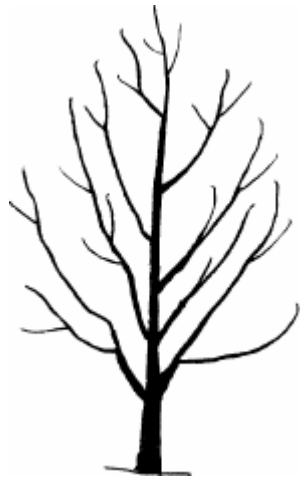
**COMMENTS OF SPOT EXAMINATION:**

.....  
.....  
.....  
.....

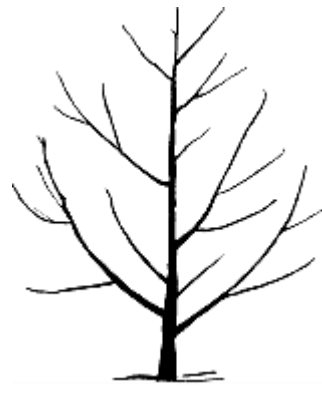
**ADDITIONAL INFORMATION:**

.....  
.....  
.....  
.....

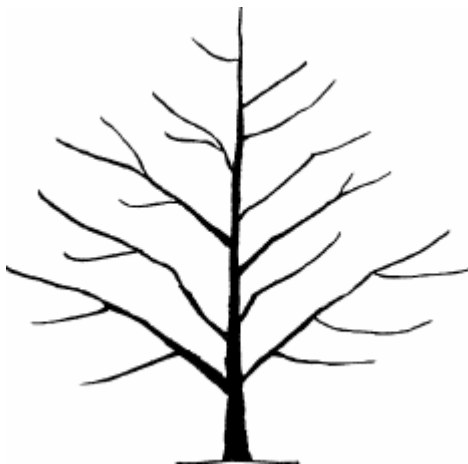
**TREE HABIT**



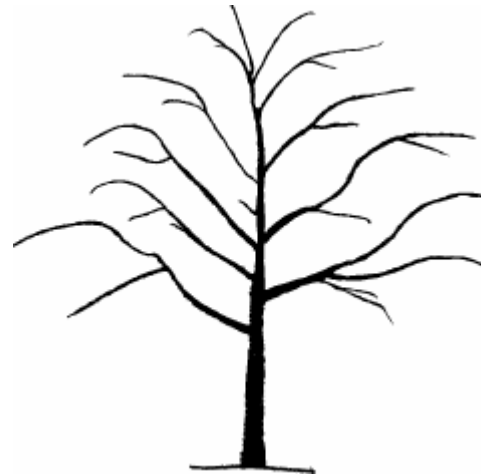
Erect



Semi erect



Spreading



Drooping

**INTERNODE LENGTH IN ONE YEAR OLD SHOOT**



Normal



Short

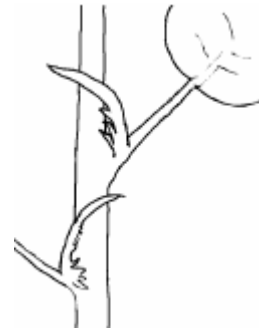
**STIPULE ATTITUDE**



Leaning away from shoot



Addressed to shoot



Leaning across shoot

**STIPULE EXTENSIONS**



Absent



Medium



Strong

**SHAPE OF PETAL**



Round



Moderately obovate

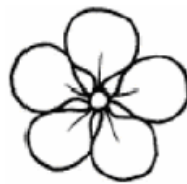


Broadly obovate

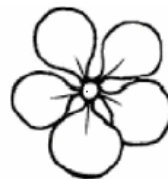
**ARRANGEMENT OF PETALS**



Free

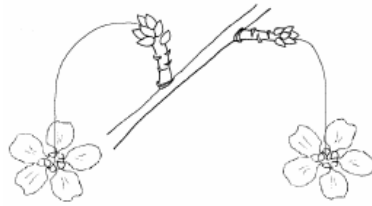


Intermediate

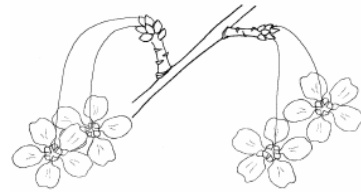


Overlapping

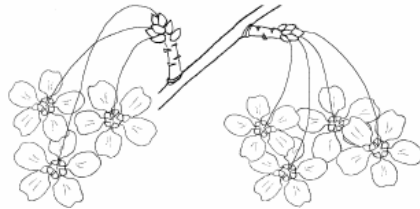
**FLOWER ARRANGEMENT**



Solitary



Double



Clusters



Irregular

**FRUIT SKIN COLOR**



Orange red



Red



Red



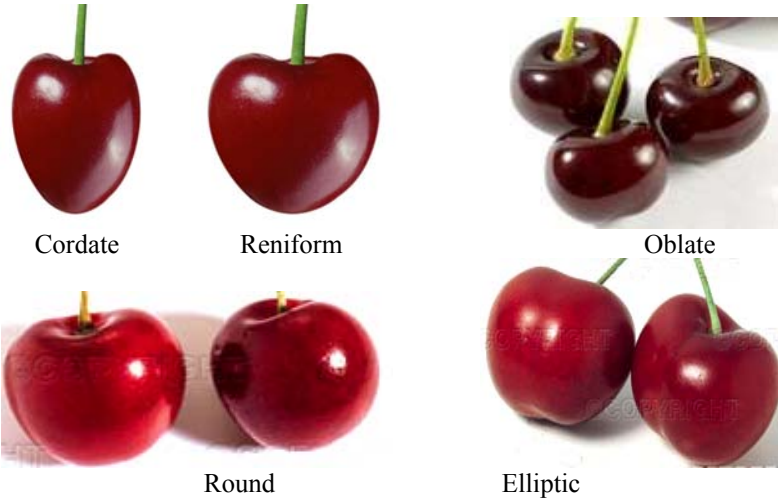
Dark red



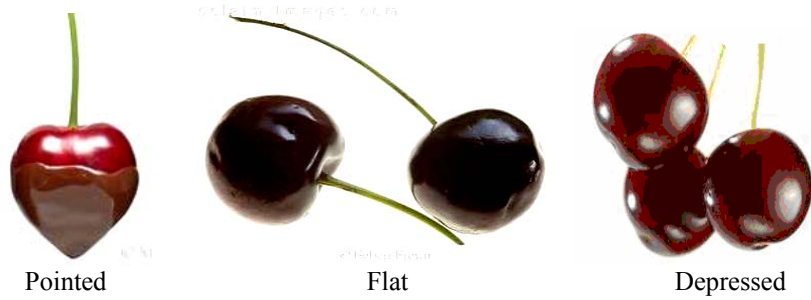
Blackish



**FRUIT SHAPE**



**FRUIT PISTIL END**



**STONE SHAPE IN VENTRAL VIEW**

