

Lecture X: Commercial cultivation of chrysanthemum

Dr. Anupam Tiwari, Assistant Professor, JV College, Baraut, Bagpat

INTRODUCTION

Chrysanthemum is a popular commercial flower crop of the many countries. It is next only to rose in value of flower trade in the world market. It belongs to family Asteraceae and native to China. The word Chryso means 'golden' and anthos means 'flower'. It is commonly known as 'Queen of East/ autumn queen/ guldaudi. Japanese National Flower. *Chrysanthemum cinerariifolium* inflorescences are used for manufacture of pyrethrin insecticides.

CLASSIFICATION

Classified under Large flowered (13 classes) and small flowered (10 classes) categories.

A. Large flower	
Class	Description
Regular Incurve	Ray florets are narrow to broad, disc not visible, Florets form a perfect ball, eg. Snow Ball, Autumn King, Chandrama, Adventure.
Irregular Incurve	Ray florets are broad and smooth. Florets are incurved and irregular. Disc florets are entirely covered by the upper florets, eg. Audery Shoesmith and Mountaineer.
Skirted Incurve	Most of basal florets are bending downward in an irregular fashion to give a skirted shape, eg. Dream Castle.
Incurving	Ray florets are incurved upward in indefinite manner, loose fitting arrangements of florets eg. Classic Beauty, Pink Cloud, White Cloud, Dr. S. Mukherjee
Reflex	Ray florets are narrow to broad and bent backward and downward. :
a. Regular Reflex	Ray florets are bent back and downward in a regular arrangement.
b. Irregular Reflex	Ray florets are bent downward, twisted and irregular way.
c. Reflexing	Ray florets have a tendency to reflex. Flat shape bloom appears. eg: Imperial, Rose Day, Star of India, Hope and Kasturba Gandhi.
Intermediate	Inner florets are incurved, disc is concealed and centre may be slightly flattened, globular in shape, eg. General Petain, Sun Flight.
Ball	The ray florets are straight, dense, radiating uniformly in all directions, look like a ball, eg. Pride of Madford and Nigeria.
Quilled	Ray florets are tubular and elongated with tips open or closed, tube medium to thick. eg. Red Quill, Green Sensation and Pradhan's Pride.
Spider	The florets are large, tubular and elongated, coiled tips, ray florets either fall or spread, eg. Geetanjali, Achievement, Icicles, Miss Universe, and Diamond Jubilee.
Spoon	Visible disc, ray florets are tubular with spatula like open tips, eg. Pink Casket, Carnation and Pusphahans.
Anemone	The ray florets either ligulate or quilled. Disc is hemispherical and raised, eg. Cloud Bank and Red Admiral.
Single	Ray florets are long, elongated and straplike, the disc is conspicuously visible, eg. Joan Helen and Surja.
Semi double	Ray florets are long, elongated and straplike, more than five numbers of whorl of florets, eg. Ronald and Crimson Tide.
B. Small flower	

Anemone	Well developed disc florets and prominent white florets may be flat, twisted and quilled, eg. Venus, Pink Cushion, Violet Cushion.
Button	Florets are short rayonate like and hemispherical radiating in all directions, eg. Liliput and King Fisher.
Single Korean	Flat bloom with visible disc, ray florets are strap-like, less than 5 ray florets eg. Sharad Bahar, Sharad Shobha, Sharada, Sharad Singer.
Double Korean	Same as Single Korean except more than five florets, eg. Jyotsna, Tara, Priya, Red Gold and Sonali.
Decorative	Developed ray florets make disc invisible, Sharad Mala, Jayanti, Nilima, Ratna and Shabnam.
Pompon	Ray florets are incurved or reflexed, disc normally covered or inconspicuously open, eg. Horizon, Apsara, Nanako, Birbal Sahni.
Semi Quilled	The ray florets are tubular, open tip portion may be flat, reflexed or incurved, disc is open, eg. Jean, Alison and Garnet.
Quilled	Ray florets are elongated and tubular like a quill, eg. Snow Crystal and Green Nightingale
Stellate	Both the sides of ray florets are reflexed downwards, disc is flat with short florets, eg. Red Star, Stella, Morning Star and Gordon Tailor.
Cineraria	Resemble to Korean type but diameter not more than 3 cm, eg. Phyllis, Jessie, Bindya and Charmis.

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