Safflower (Carthamus tinctorius L.) Descriptors

1. Growth habit

- 1 Erect
- 2 Bushy

2. Location of branches on main axis

- 0 No branches
- 1 Predominantly basal
- 2 Predominantly on the upper third of the plant
- 3 Predominantly on the upper two-thirds of the plant
- 4 From base to apex

3. Internode length

- 3 Short
- 5 Intermediate
- 7 Long

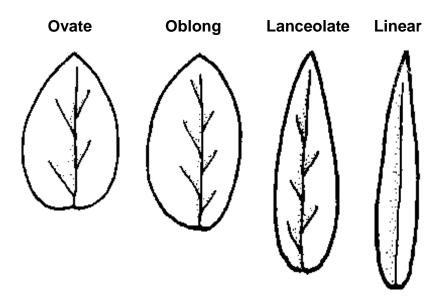
4. Stem colour

- 1 White
- 2 Green
- 3 Other (specify in the NOTES descriptor, 11)

5. Leaf shape (upper stem leaves) See Fig. 1

- 1 Ovate
- 2 Oblong
- 3 Lanceolate
- 4 Linear

Fig. 1. Leaf shape



6. Leaf margin

See Fig. 2

- 1 Entire
- 2 Serrate or dentate
- 3 Deeply serrate

Fig. 2. Leaf margin

Entire Serrate or dentate Deeply serrate

7. Extent of leaf spininess

- 0 Non-spiny
- 3 Few spines
- 5 Intermediate
- 7 Many spines

8. Outer Involucral Bracts (OIB) Width

In mm at widest point

9. OIB length

In mm

10. Number of spines on OIB

- 0 None
- 3 Few
- 5 Intermediate
- 7 Many

11. Location of spines on OIB

- 1 Tip only
- 2 Tip and few apical
- 3 Tip and few basal

- 4 Tip and all along margins
- 5 Margins only

12. Days to 50% flowering

Number of days from planting or first irrigation to 50% of plants having first flower

13. Corolla colour in bloom

- 1 White
- 2 Pale yellow
- 3 Light yellow
- 4 Yellow
- 5 Light orange base
- 6 Yellow, base and tips of lobes orange
- 7 Red-orange
- 8 Pink
- 9 Purple
- 10 Other (specify in the NOTES descriptor, 11)

14. Corolla colour of dry flower

- 1 Grey-white
- 2 Pale yellow
- 3 Yellow
- 4 Light orange
- 5 Orange base
- 6 Orange
- 7 Deep red
- 8 Other (specify in the NOTES descriptor, 11)

15. Pollen production

Amount of pollen produced before bee activity in the morning or in the bagged heads

- 3 Sparse
- 5 Intermediate
- 7 Abundant

16. Pollen colour

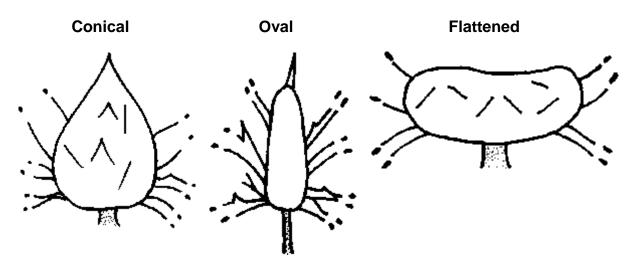
- 1 White
- 2 Yellow

17. Head (capitulum) shape

Primary head shape before flowering (see Fig. 3)

- 1 Conical
- 2 Oval
- 3 Flattened

Fig. 3. Head (capitulum shape)



18. Head (capitulum) number

Per plant

19. Diameter of primary head

At maturity in mm measured at base

20. Days to physiological maturity

Number of days to 75% of plants reaching physiological maturity from date of planting or first irrigation

21. Uniformity of maturation

- 1 Uniform
- 2 Varying

22. Plant height

Mean (in cms) of 5 random plants from the middle of the plot

23. Seed shattering at harvest

- 3 Low shattering
- 5 Intermediate
- 7 High shattering

24. Seed number

Per primary head

25. Seed colour

- 1 White
- 2 Cream
- 3 Brown

- 4 Black
- 5 Grey
- 6 Other (specify in the NOTES descriptor, 11)

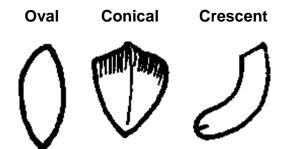
26. Seed size

- 3 Small
- 5 Intermediate
- 7 Large

27. Seed shape See Fig. 4

- 1 Oval
- 2 Conical
- 3 Crescent

Fig. 4. Seed shape



28. Pappus

- 0 Absent
- + Present

29. Yield per plant

Mean (in g) of 5 random plants from the middle of the plot

30. 1000 seed weight

In g at 6% moisture content