## 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
$7 \quad$ High shattering
24. Seed number

Per primary head
25. Seed colour

1 White
2 Cream
3 Brown

4 Black
5 Grey
$6 \quad$ 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
Oval
28. Pappus

0 Absent
$+\quad$ 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

