

## AVRDC-GRSU CHARACTERIZATION RECORD SHEET

Crop:	$\mathcal{C}$	Carthamus tinctorius	
Plot No.:		Accession No. :	
Sowing Date:		Name:	
Transplanting Date:		Species:	
Location:		Origin:	
		-	
SEEDLI	NG DATA		
Saf01	Germination period	iod (no. of days from sowing to first germination)	
Saf02	Hypocotyl color		
	1 = Light green		
	4 = Purple	5 = Dark purple	
Saf03	Cotyledon color		
	1 = Light green	a 2 = Green 3 = Dark green	
	4 = Purple	-5 = Dark purple	
VEGET.	ATIVE DATA		
Saf04	Growth habit		
	1 = Erect 2 =	= Bushy	
Saf05	Posetta pariod (no	no. of days from date of emergence)	
Salus	Rosette periou (iii	io. of days from date of entergence)	
Saf06	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		
	4 Trom base t	to apex	
Saf07	Number of branch	ches	

Saf08 Angle of branches

0 = No branches

5 = Intermediate, 20° to 60° 7 = S

9 = Drooping, >90°

3 =Appressed,  $15^{\circ}$  to  $20^{\circ}$ 

7 = Spreading, 60° to 90°

Saf09 Plant height (cm) (at flowering stage)

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Saf10 Inter-note length (cm) (at 7th or 8th)

Saf11 Stem color

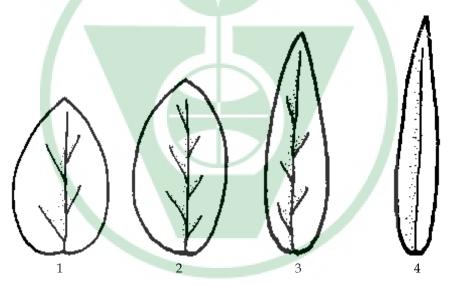
1 = White 2 = Green

Saf12 Stem pubescence

1 = None 2 = Few 3 = Intermediate 4 = Many

Saf13 Leaf shape

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



Saf14 Leaf texture

1 = Fleshy 2 = Normal 3 = Leathery

Saf15 Leaf margin

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







Saf16 Leaf color

1 = Light green (yellowish tinge) 2

2 = Dark green (bluish tinge)

3 = Greyish 4 = Other (specify)

Saf17 Leaf hairiness

0 = Non-hairy 3 = Few hairs 5 = Intermediate 7 = Many hairs

Saf18 Extent of leaf spininess

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

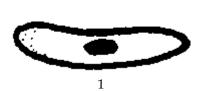
Saf19 Leaf length (cm)

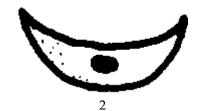
Saf20 Leaf width (cm)

## INFLORESCENCE DATA

**Saf21** Days to flowering (from sowing to 50% with inflorescence)

Saf22 Shape of Outer Involucral Bracts (OIB) in cross-section 1 = Flat 2 = Grooved

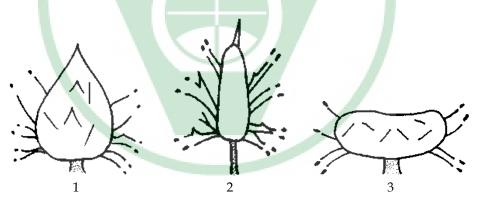




- Saf23 Outer Involucral Bracts (OIB) width (cm) Saf24 Outer Involucral Bracts (OIB) length (cm) Saf25 Outer Involucral Bracts (OIB) attitude 1 = Close2 = OpenSaf26 Bracts enclosing head 1 = Incomplete 2 = Complete Saf27 Number of spines on OIB Saf28 Location of spines on OIB 2 = Tip and few apical 1 = Tip only3 = Tip and few basal 4 = Tip and all along margins 5 = Margins only Saf29 OIB spine color
- Head (capitulum) shape (primary head shape before flowering) Saf30 3 = Flattened 1 = Conical 2 = Oval

1 = Whitish

2 = Yellowish



- Saf31 Diameter of primary head (cm)
- Saf32 Corolla color in bloom 1 = White2 = Pale yellow
  - 3 = light yellow 4 = Yellow5 = Light orange base 6 = Yellow, base and tips of lobes orange 7 = Red-orange 8 = Pink

0 = No spines

## FRUIT & SEED DATA

- Saf33 Days to harvest for the flower
- Saf34 Peduncle length (cm)

Saf35 Seed color

1 =White 2 =Cream 3 =Brown 4 =Black 5 =Grey

Saf36 Seed hull thickness

0 = Hull absent 1 = Thin 2 = Normal 3 = Think

Saf37 Pappous

0 = Absent + = Present

Saf38 Seed size

3 = Small 5 = Intermediate 7 = Large

Saf39 Seed shape

1 = Oval 2 = Conical 3 = Crescent





2



3

Saf40 100 seeds weight (gm)