

GCH-2 (VHB-150)

Year of release	: 1984-85
Notified vide S.O. No. & date	: 258 (E) 14-05-1986
Released at Central or State level	: State
Developed by	: Oilseeds Research Station, GAU, Junagadh
Pedigree / type of material	: VP-1 x JI-35, Hybrid
Recommended states	: Gujarat
Recommended ecology	: Irrigated and rainfed conditions
Duration	: Medium
Days to maturity for first picking	: 115-120 DAS
Growth habit	: Medium
Average seed yield (kg/ha)	: 1750
Special features	: Resistant to root rot
Source of seed	: Gujarat State Seed Corporation, Gandhinagar

Morphological description			
Vegetative phase	Hybrid	Female	Male
Plant characters	GCH-2	VP-1	JI-35
Hypocotyl anthocyanin coloration	Absent	Absent	Present
Stem color	Green with reddish tinge	Green	Green
Bloom	Triple	Triple (thick)	Double
Type of internodes on stem	Elongated	Condensed	Elongated
Branching pattern	Divergent	Convergent	Divergent
Location of branches	Basal	Basal	Basal
Plant height	Medium	Short	Medium
Plant type	Normal	Dwarf	Normal
Leaf characters			
Anthocyanin pigmentation of young emerging leaves	Absent	Absent	Absent
Anthocyanin coloration of fully grown lamina	Absent	Absent	Absent
Shape	Flat	Deep cup	Flat
Lascination (on 4th leaf from top)	Shallow	Shallow	Shallow
Petiole surface	Smooth	Smooth	Smooth
Reproductive phase			
Type of flowers on primary spike	Interspersed	Pistillate	monoecious
Spike characters			
Shape	Conical	Conical, Long	Conical,
Arrangement of capsules	Semi compact	Semi compact	Compact
Capsule characters			
Spininess	Spiny	Spiny	Spiny
Seed characters			
Shape	Oval	Oval	Elongated
Colour	Dark brown	Dark brown	Dark brown

Mottling	High	High	High
Caruncle	Big	Small	Big
Quantitative description			
Days to 50% flowering	50-55	45-50	55-60
Days to maturity (first picking)	110-115	105-110	115-120
Plant height up to base of primary (cm)	70-80	25-30	70-80
Number of nodes to primary raceme	15-17	12-17	15-17
100 seed weight (g)	28-30	26	20
Oil content (%)	47-49	38-40	37

GCH-2

