## 10.11.48.223:20

Variety file ID ( left to right numbering)

1	$\mathcal{V}$	3	9	5
First Squaring* Adjustment to date of occurrence	Adjustment to specific leaf weight LEAFWT*		Adjustment to root weight in N-deficient soil PDWRT*	
Adjustment to (day/night) root/ shoot ratio	Adjustment to fruiting site initiation xms/fbn TI*	CDLAYF B <sub>0</sub>	CDALYF B <sub>1</sub>	CDLAYF B <sub>2</sub>
Early FLOSS	First BLOOM* Adjustment to date of occurrence from FSQ	Late FLOSS	DEHIScence* Adjustment to date of occurrence from	Adjustment to main stem node initiation MS TI*
Max fraction of square to abscisse DPSMX	Maximum fraction of boll to abscisse DPBMX constant	FLOSS Switch constant	Adjustment due to stress day/eve_lfstres* leaf_growth_water_stress	Adjust the boll safe days  AGEABZ
PSILIN LF  [leaf_growth_water_stress constant	PSILIN DZ stem_growt_water_stress constant	NDLAY constant		CDLAYV B <sub>1</sub>
21	Minimum LAI affected by boll temperature MIN LAI BOLTMP	Adjustment to vegetative node initiation VEG NODE PFTI*	Adjustment to leaf area expansion  DURATION*	Adjustment to leaf age LF AGEFAC
Adjustment to C- allocation of <35 d stems STEM C- 26	Adjustment to C- allocation of >35 d stems STEM C-ALLOC*	Maximum boll size MAX BSIZE genetic potential, g	LL VNO₃C RUTGRO constant	
31	CDLAYV B <sub>2</sub>			Adjustment to plant 25 evap.  RFEP*
Adjustment to leaf age DROPLF	< 35 d PDSTMD (N) constant	Adjustment to initial pre- fruiting leaf area PFLfArea*	Adjustment to initial main stem leaf area XMSLfArea*	Adjustment to initial fruiting leaf area FBLfArea*
Adjustment to initial plant height due to EPI DZ at initiation*	Adjustment to internode elongation DURATION*	Adjustment to photosynthesist due to EPI	Adjustment to plant height DZ*	
46	Adjustment to stem height XMNODLTH* NUMPFN < 5	Adjustment to stem height XMNODLTH*	Adjustment to stem height XMNODLTH*	Adjustment to pre- fruiting leaf weight PFDALD/N*
Adjustment to leaf weight		Adjustment to square wt PDWSQ* potential_sqr_growth	Adjustment to photosynthesis PSTAND*	Adjustment to boll weight PDWBOD/N*

<sup>\*</sup>Calibration parameters using KR Reddy's new equations. All calibration parameters denoted as constant cannot be changed.

Example: Variety file India

India				
0.90	0.75	0.00	0.70	0.00
1.25	1.00	0.90	-0.22	-2.20
0.75	1.20	2.00	0.95	1.00
0.50	0.50	0.10	1.00	1.00
-0.85	-0.90	1.25	0.00	-0.10
0.00	3.00	1.20	0.95	1.00
0.20	1.00	7.00	.0005	0.00
0.00	-5.50	0.00	0.00	1.00
1.00	35.00	1.00	1.00	1.00
1.00	1.00	1.00	0.90	0.00
0.00	1.00	1.00	1.00	1.00
1.25	0.00	1.00	1.00	3.00

Calibration parameters are numbered from left to right and top to bottom, i.e. calbrt(1) denotes the time to First Squaring from Emergence and calbrt(60) the Adjustment to potential change in boll weight during the day/night, PDWBOD/N.

Calibration parameters that can be changed due to varietal differences are:

Calbrt(1) = date of first square from emergence, FSQ

Calbrt(12) = date of first bloom from FSQ, BLOOM

Calbrt(14) = date of first open boll from BLOOM, DEHISS

Calbrt(15) = Main stem node initiation rate, MSTI

Calbrt(28) = Pre-fruiting node initiation, PFTI

Calbrt(46) = Daily change in plant height at initiation

Calbrt(49) = Daily change in plant height

Adjustments should be made in increments of  $\pm 0.05$  and within  $\pm 1.00$ . To increase the event, the adjustment/modifier should be positive, otherwise the modifier should be negative.

Other parameters that can be adjusted are:

Calbrt(27) = Minimum LAI that will cause an increase in boll temperature, BOLTMP

Calbrt(33) = Maximum boll size or its genetic potential boll size, grams, BSIZE

These parameters can be adjusted with EXTREME CAUTION:

Calbrt(2) = adjustment to specific leaf weight, LEAFWT

- Calbrt(11) = adjustment to fruit loss while green boll weight is  $\leq 10\%$  of total plant weight, FLOSS
- Calbrt(13) = adjustment to fruit loss when green boll weight is > 10% of total plant weight, FLOSS
- Calbrt(31) = adjustment to potential stem weight increments ≤ 35 days after emergence during the day/night, PDSTMD/N
- Calbrt(32) = adjustment to potential stem weight increments > 35 days after emergence during the day/night, PDSTMD/N
- Calbrt(55) = adjustment to pre-fruiting leaf weight increments during the day/night, PFDALD/N
- Calbrt(56) = adjustment to potential leaf weight increments during the day/night, PDAMLD/N
- Calbrt(58) = adjustment to potential square weight increments, PDWSQ
- Calbrt(60) = adjustment to potential boll weight increments during the day/night, PDWBOD/N

31 Vine to open Boll 1 - N-ande-Delay 32 heafgreet - walk - Stuly 33 - Lat-growt - waker-Street 34 pthothua 9 35 MSLeat And FB har And. 36 phont Ava (usheat And) 6 ~ ABCISE 37 Campy temp- deflutial 7/ ABCISE 38/ PLTMAPS 39V ABOUSE 40 phlasona MSheat Angl Ir Boll Serbe Age 12 pot-bol-growt priss com MS Leat Ava CFSVFB wat And pt-stan-gows (corplantingul Cos planteint (6 of Stem-growth-W. 19 47 plantheight 17 - pot sen-grounds 48 Plantheright 1 go pet - bol - growity Cf Ge plantheight 19 Named - C. Delay SOUTEMPFACT-BOLL 20 / POTATERO POT RTCRO 52 funct growth - water stars 22 root short ration 23/ PNET 54/ ABCISE 24 PNET SS ABCISE 26 - P-F-Node-TI 27 / Maior Man Not 5 of fruit grouty walny- Woo

O G. / Time to la gand