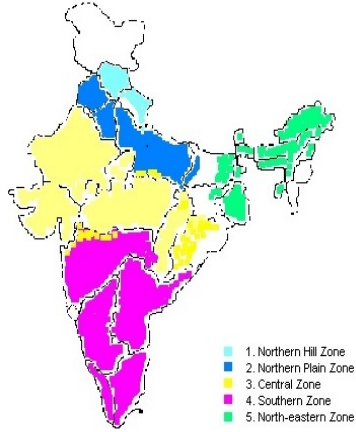


# NEW SOYBEAN VARIETIES and THEIR YIELD POTENTIAL

**Dr Sanjay Gupta**  
**Director, In-charge, IISR-Indore**

Soybean Varietal Development: Zones	
North Hill Zone	J&K, HP, and UK
North Plain Zone	Punjab, Harayana, Delhi, UP & Western Bihar
Northeastern Hill Zone	Assam, Meghalaya, Sikkim, Arunachal Pradesh, Nagaland and Tripura
Eastern Zone	West Bengal, Eastern Bihar, Jharkhand, Orissa,
Central Zone	MP, CG, Bundhelkhand region of U P, Rajasthan, Gujarat, Northern region of Maharashtra
Southern Zone	Karnataka, Tamil Nadu, Andhra Pradesh, Kerala, and Southern Maharashtra



## Northern Hill Zone



**VL Soy 59 (2008)**

- Maturity 130 days
- Yield: 2600 Kg/ha
- Potential: 31 Q/ha
- Oil 19.4%,
- Protein 39.2%
- Low Linolenic Acid
- Purple flower
- Tawny pubescence
- Black Hilum
- 100 SW 13.9 g



**VL Soy 63**

- Maturity 130 days
- Yield: 2758 Kg/ha
- Potential 30 Q/ha
- Oil 17.9%,
- Protein 41.0%
- Purple Flower
- Brown Hilum
- Grey pubescence
- 100 SW 15.1 g



**VL Soya 89 (2019)**

- Maturity 116 days
- Yield: 2324 Kg/ha
- Potential: 29 Q/ha
- Oil 15.5%,
- Protein 41.0%
- White flower
- Grey pubescence,
- 100 SW 14.4 g
- Brown Hilum
- MR to FLS, Pb

**Shalimar Soybean 1**

- Maturity 142 days
- Yield: 2400 Kg/ha
- Potential: 28 Q/ha
- Oil 13.5%,
- Protein 38.0%
- Purple flower
- Tawny pubescence,
- 100 SW 16.0 g
- Resistant to root rot and MR to YMV

## Northern Plain Zone (YMV Resistant / Tolerant)



**PS 1477**

- Maturity 113 days
- Yield: 19.1 Q/ha
- Potential: 32Q/ha
- Oil 19.8%,
- Protein 42 %
- Purple flower
- Tawny pubescence
- Brown Hilum
- 100 SW 10.8 g



**SL 955**

- Maturity 126 days
- Yield: 22.3 Q/ha
- Potential: 28Q/ha
- Oil 18.9%,
- Protein 39.0%
- White Flower
- Brown Hilum
- Brown pubescence
- 100 SW 8.8 g



**SL 958**

- Maturity 142 days
- Yield: 24.7 Q/ha
- Potential: 39 Q/ha
- Oil 19.8%,
- Protein 42.0%
- White flower
- Brown pubescence
- 100 SW 10.4 g
- Black Hilum



**NRC 128**

- Maturity 110 days
- Yield: 22.7 Q/ha
- Potential: 28 Q/ha
- Oil 18.8%
- Purple Flower
- Tawny Pubescence
- Brown Hilum
- 100 SW 12.1g
- Water logging tolerance

## North Eastern Hill Zone



**DSb 32**

- Maturity 102 days
- Yield: 22.0 Q/ha
- Potential: 27 Q/ha
- Oil 20.9%,
- Protein 37.8%
- Purple Flower
- Glabrous pods
- Brown hilum
- 100 SW 11.6g
- Resistance to CR



**JS 97-52**

- Also for CZ
- Maturity: 100 Days
- Yield : 25-30 Q/Ha
- White Flower
- Brown Pubescence
- Large No. of Pods
- R- YMV, Collar Rot
- MR- RAB, Insects
- WL, drought and heat



**MACS 1460**

- Also for EZ & SZ
- Maturity:97&89 days
- Yield: 20-22 Q/ha
- Potential:30&39 Q
- Oil 18%
- White Flower,
- Black hilum
- Glabrous pods
- 100 SW: 11 g



**KDS 753**

- Also for EZ & SZ
- Maturity 95 & 107 days
- Yield: 23 & 20 Q/ha
- Potential: 36 Q/ha
- Oil 17.8%
- Purple Flower
- Glabrous pods
- Brown Hilum
- 100 SW 12 & 14 g

## Eastern Zone



**NRC 136**

- India's 1st Drought tolerant Variety
- Yield: 1700 Kg/ha
- Potential: 31 Q/ha
- Oil 20.9%,
- Protein 37.8%
- White Flower
- Brown Pubescence
- Brown hilum
- 100 SW 8.3g



**NRCSL 1**

- Maturity: 107 Days
- Yield : 1706 Kg/Ha
- Potential: 25 Q/ha
- Purple Flower
- Brown Pubescence
- 100 SW 12.8
- Oil 19.5%,
- Protein 38.5%
- Tolerant to YMV



**RSC 10-46**

- Also for CZ
- Maturity: 103 days
- Yield: 20 & 19 Q/ha
- Potential: 25 & 35
- Oil 18%
- Purple Flower,
- Light Black hilum
- Glabrous pods
- 100 SW: 10 g
- R to CR, IBB, RAB



**AMS 2014-1**

- Maturity 105 days
- Yield: 1804 Kg/ha
- Potential: 32 Q/ha
- Oil: 18.5%
- Protein: 39%
- Purple Flower
- Brown Hilum
- Glabrous pods
- 100 SW 9.9 g
- R to CR, IBB, BP,

## Central Zone: Early & Mid Duration



### JS 95-60 (2007)

- Maturity: 85 Days
- Yield :1800 Kg/Ha
- Purple Flower
- Brown Pubescence
- 100 SW 13.5g
- Grey hilum
- Oil 19.5%,
- Protein 38.5%
- R to root rot



### JS 20-34 (2014)

- Maturity: 87 days
- Yield: 20 Q/ha
- Oil: 20%
- Protein: 41%
- White Flower,
- Black hilum
- Glabrous pods
- 100 SW: 12 g
- R to CR



### NRC 138 (2021)

- Maturity: 93 days
- Yield: 18 Q/ha
- Potential: 29 Q/ha
- Oil: 19%
- White Flower,
- Brown hilum
- Tawny pubescence
- 100 SW: 12 g
- R to YMV, MR to Pb



### NRC 130 (2020)

- Maturity 92 days
- Yield: 16 Q/ha
- Potential: 30 Q/ha
- Oil: 18.5%
- Protein: 39%
- Purple Flower
- Brown spot on hilum
- Glabrous pods
- 100 SW 14.0 g
- R to CR, IBB, BP,

## Central Zone: Late



### JS 335 (1994)

- Maturity:100 days
- Yield: 2500 Kg/ha
- Purple Flower
- Glabrous Pods
- Black hilum
- Oil 19.5%,
- Protein 38.5%
- Resistant to bacterial pustule



### RSC 10-52 (2021)

- EZ also
- Maturity: 101 Days
- Yield : 2054 Kg/Ha
- Potential: 32 &38Q
- Purple Flower
- Glabrous Pods
- 100 SW 11.6g
- Brown hilum
- Oil 18.5%,
- Protein 39.0%



### AMS.MB.5-18(2020)

- Maturity: 101 days
- Yield: 17 Q/ha
- Potential: 27 Q/ha
- Oil: 20%
- Protein: 41%
- White Flower,
- Brown hilum
- Brown Pubescence
- 100 SW: 11 g



### RVS 76 (2021)

- Maturity 98 days
- Yield: 2065 Kg/ha
- Potential: 24Q/ha
- Oil: 21%
- Protein: 41%
- Purple Flower
- Black hilum
- Glabrous pods
- Resistant to CR

### Central Zone: Late



**RVSM 11-35**

- Maturity:100 days
- Yield: 2200 Kg/ha
- Potential: 31Q/ha
- White Flower
- Brown Pubescence
- 100 SW 11.1g
- Black hilum
- Oil 19.1%
- Protein 38.5%
- M Resistant toYMV



**MACS 1520**

- Maturity: 100 Days
- Yield : 2207 Kg/Ha
- Potential: 24Q/ha
- Purple Flower
- 100 SW 10.5g
- Black hilum
- Oil 18.5%,
- Protein 40.0%
- Resistant to Charcoal rot



**JS 20-116**

- For EZ & NEHZ also
- Maturity: 101 days
- Yield: 17 Q/ha
- Potential 25 Q/ha
- Oil: 20%
- Protein: 41%
- White Flower,
- Brown hilum
- Brown Pubescence
- 100 SW: 11 g



**JS 20-98**

- Maturity 99 days
- Yield: 21Q/ha
- Potential: 24Q/ha
- 100 SW: 10.2g
- Oil: 19%
- Protein: 41%
- White Flower
- Black hilum
- Brown Pubescence
- Resistant to CR

### Southern Zone



**DSb 23**

- Maturity 95 days;
- Yield: 2440 Kg/ha
- Potential: 41Q/ha
- Oil 18.6 %,
- Protein 38.2%
- Purple Flower,
- Brown hilum,
- Glabrous pods
- Highly resistant to rust



**KDS 726**

- Maturity 96-97 days
- Yield: 2442 Kg/ha
- Potential: 37Q/ha
- Oil 18.4 %,
- Protein 38.1%
- Purple Flower,
- Brown hilum,
- Resistant to rust & PPS.



**KDS 992**

- Maturity 101 days
- Yield: 2658 Kg/ha
- Potential: 39 Q/ha
- Oil 19.3 %
- 100 SW 15.8g
- Purple Flower,
- Brown hilum
- Glabrous pods
- HR to PSS, MS to rust and PB



**DSb 28**

- Maturity 95 days
- Yield: 23Q/ha
- Potential: 37 Q/ha
- 100 SW: 13.4g
- Oil: 20%
- Protein: 38%
- Purple Flower
- Brown hilum
- Glabrous Pods
- Resistant to Rust

## Speciality Soybean



**NRC 127**

- Null Kti; CZ
- Maturity: 102 days
- Yield: 2440 Kg/ha
- Potential: 30 Q/ha
- Oil 19.2%,
- Protein 38.2%
- White Flower,
- Black hilum,
- Brown Pubescence



**NRC 132**

- Null Lox 2;SZ & EZ
- Maturity 105 & 99
- Yield: 23&17 Q/ha
- Potential: 29 & 23
- Oil 19.0 %,
- Protein 40.0%
- White Flower,
- Black hilum,
- R to IBB & PSS



**NRC 147**

- Oleic Acid 42%
- EZ & SZ;
- Maturity 96 & 100
- Yield: 24&14 Q/ha
- Potential:32 &20 Q
- 100 SW 15.8g
- Purple Flower,
- Brown hilum
- Brown Pubescence



**NRC 142**

- Null Lox& Kti
- Maturity:97&99days
- Yield: 20&22Q/ha
- Potential: 28 &30Q
- SW: 11 & 14g
- Oil: 22%
- Protein: 38%
- Purple Flower
- Black hilum
- Brown Pubescence

## Speciality Soybean



**MACSNRC 1667**

- Null Kti; SZ
- Maturity: 96 days
- Yield: 2051 Kg/ha
- Potential: 32 Q/ha
- Oil 21.0%,
- 100 SW: 14.8g
- Protein 40%
- Purple Flower,
- Black hilum,
- Brown Pubescence



**NRC 150**

- Null Lox 2
- Central Zone
- Maturity 92 days
- Yield: 1705 Kg/ha
- White Flower,
- Black hilum,
- R to CR, YMV



**NRC 152**

- Null Kti & Lox 2
- Central Zone
- Maturity 89 days
- Yield: 1823 Kg/ha
- 100 SW 12.2 g
- Purple Flower,
- Brown hilum
- Glaborous pods



**Karune**

- Ist Vegetable soy
- Southern Zone
- Pod: 68days
- Yield: 106 Q/ha
- SW: 77 & 35 g
- Sucrose: 6.5%
- White Flower
- White hilum
- Glaborous pods

## Contribution of Varieties in Breeder Seed Indent

Variety	Year	% in Breeder Seed	Variety	Year	% in Breeder Seed
JS 335	1994	17.6	JS 20-69	2016	3.0
JS 20-98	2018	13.9	JS 20-29	2014	3.0
JS 20-34	2014	8.9	KDS-753	2020	2.9
JS 20-116	2019	6.5	RVS 2001-4	2014	2.8
MAUS 612	2018	5.8	JS-93-05	2002	2.3
JS 20-94	2019	4.0	JS 95-60	2007	2.1
RVS 18	2017	3.6	Others		18.4
RVS 24	2017	3.0			

Thank You