

GOVERNMENT OF INDIA  
MINISTRY OF AGRICULTURE AND FARMERS WELFARE  
DEPARTMENT OF AGRICULTURE AND FARMERS WELFARE

**RAJYA SABHA**  
**UNSTARRED QUESTION NO.2742**  
TO BE ANSWERED ON 24/03/2023

**SEED REPLACEMENT RATE**

2742 SMT. PHULO DEVI NETAM:

Will the Minister of Agriculture and Farmers Welfare be pleased to state:

- (a) whether Seed Replacement Rate (SRR) is directly related to higher yields, the status of SRR in India, State-wise;
- (b) the action taken by Government for improvement of SRR; and
- (c) the status of availability of certified seeds in the States to improve the SRR?

**ANSWER**

MINISTER OF AGRICULTURE AND FARMERS WELFARE  
(SHRI NARENDRA SINGH TOMAR)

(a): Yes, Madam. Seed Replacement Rate is directly related to yields. The State-wise data of Seed Replacement Rate of important crops across the country (as reported by the States) is placed at **Annexure-I**.

(b): The details of steps being taken up by Department of Agriculture & Farmers Welfare, Ministry of Agriculture & Farmers Welfare to improve the Seed Replacement Rate and to ensure availability of quality seed to the farmers:-

1) Government of India organizes Zonal Seed Review Meetings biannually, to supplement the efforts of the State Governments by coordinating with them in meeting their seed requirement and availability & assessing Seed Replacement rates of various crops before onset of each sowing season *i.e.* Kharif and Rabi.

- 2) As a routine process Seed Division, DA&FW requests State Governments to prepare a Seed Rolling Plan three years in advance to estimate the requirement of seed in their state and distribute seed production targets accordingly to different seed production agencies.
  - 3) Seed Division, DA&FW also ensures that the State Governments place their Breeder Seed indent of Agriculture and Horticulture crops one year in advance for systematic breeder seed production of indented quantities. After production the Breeder Seed is allotted to State Governments and other agencies for further multiplication into foundation and then certified seed and its distribution to the farmers.
  - 4) The division ensures fixation of uniform breeder seed price in consultation with ICAR for minimization of the seed production cost in case of foundation and certified seed.
  - 5) Government provides financial assistance to different States and Government Seed Producing Agencies for production and distribution of seeds and for other interventions related to seed sector viz. National Food Security Mission (NFSM), Rashtriya Krishi Vikas Yojana (RKVY), Sub-Mission on Seeds and Planting Materials (SMSP) etc. so as to increase the quality seed production and improve the Seed Replacement Rate in the country.
- (c): As reported by the States, the availability of certified/quality seed in the States, across the country in three years including current year is placed at **Annexure-II**.

## Annexure-I

STATE-WISE SEED REPLACEMENT RATE OF IMPORTANT CROPS																								
STATE	YEAR	WHEAT	PADDY		MAIZE		JOWAR		BAJRA		GRAM	PEAS	LENTIL	URD	MOONG	ARHAR	G.NUT	R/M	SOYABEAN	FIGURES IN PERCENTAGE (%)				
			V	H	V	H	V	H	V	H										SUNFLOWER	COTTON	JUTE		
																							V	H
ANDHRA PRADESH	2019	-	89	100	-	100	61	100	-	100	87	-	-	60	52	78	62	-	100	-	100	-	-	-
	2020	-	89	100	-	100	60	100	-	100	87	-	-	60	52	78	61	-	100	-	100	-	-	-
	2021	-	89	100	-	100	60	100	-	100	87	-	-	60	52	78	62	-	-	-	100	-	-	-
TELANGANA	2019	-	88	100	-	100	75	100	69	100	85	-	-	67	67	72	77	-	100	-	100	-	100	-
	2020	-	89	100	-	100	76	100	69	100	85	-	-	67	67	73	77	-	100	-	100	-	100	-
	2021	-	89	100	-	100	77	100	60	100	85	-	-	68	67	73	77	-	99	-	100	-	100	-
KARNATAKA	2019	33	37	-	-	100	42	100	37	100	38	-	-	33	35	35	34	-	87	-	100	32	100	-
	2020	32	35	-	-	100	37	100	29	100	39	-	-	34	35	39	34	-	91	-	100	26	100	-
	2021	-	35	-	-	100	33	100	32	100	-	-	-	32	31	30	19	-	80	-	100	25	100	-
TAMILNADU	2019	-	81	-	62	100	26	-	57	-	33	-	-	47	35	51	9	-	-	51	-	78	100	-
	2020	-	81	-	62	100	25	-	57	-	32	-	-	48	35	51	9	-	-	51	-	78	100	-
	2021	-	78	-	50	-	11	-	52	-	32	-	-	46	35	51	9	-	-	50	-	70	100	-
KERALA	2019	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2020	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2021	-	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUDUCHERRY	2019	-	72	-	-	-	-	-	-	-	-	-	-	64	49	-	70	-	-	-	-	-	-	-
	2020	-	81	-	-	-	-	-	-	-	-	-	-	64	51	-	75	-	-	-	-	-	-	-
	2021	-	74	-	-	-	-	-	-	-	-	-	-	78	74	-	73	-	-	-	-	-	-	-
GUJARAT	2019	42	46	-	-	100	-	-	-	100	44	-	-	46	46	42	20	100	40	-	-	70	100	-
	2020	44	48	-	-	100	-	-	-	100	46	-	-	48	48	44	22	100	40	-	-	70	100	-
	2021	44	48	-	-	100	-	-	-	100	46	-	-	47	48	44	22	100	40	-	-	70	100	-
MAHARASHTRA	2019	40	48	-	-	100	20	100	76	100	38	-	-	35	20	34	2	-	35	40	-	38	100	-
	2020	42	48	-	-	100	20	100	80	100	36	-	-	37	21	35	3	-	35	40	-	41	100	-
	2021	38	48	-	-	100	19	100	80	100	38	-	-	39	22	34	3	-	34	46	-	40	100	-
RAJASTHAN	2019	40	13	-	21	100	19	100	15	100	20	-	-	20	24	10	9	77	30	-	-	3	100	-
	2020	35	14	-	39	100	12	100	12	100	13	-	-	21	21	6	7	62	18	-	-	1	100	-
	2021	33	27	-	10	100	12	100	15	100	19	-	-	13	19	11	9	68	19	-	-	2	100	-
MADHYA PRADESH	2019	30	21	-	93	-	61	-	64	-	14	11	14	21	60	68	6	65	26	-	-	99	100	-
	2020	23	26	-	98	-	65	-	72	-	19	12	23	25	77	44	5	69	26	-	-	102	100	-
	2021	24	27	-	93	-	56	-	67	-	19	12	34	28	65	60	4	69	20	-	-	100	-	-

V: Variety, H: Hybrid

**STATE-WISE SEED REPLACEMENT RATE OF IMPORTANT CROPS**

**FIGURES IN PERCENTAGE (%)**

STATE	YEAR	WHEAT	PADDY		MAIZE		JOWAR		BAJRA		GRAM	PEAS	LENTIL	URD	MOONG	ARHAR	G.NUT	R/M	SOYABEAN	SUNFLOWER		COTTON		JUTE
			V	H	V	H	V	H	V	H										V	H	V	H	
UTTAR PRADESH	2019	46	38	100	-	100	59	-	-	100	33	34	24	30	46	34	25	23	36	-	-	-	-	-
	2020	46	38	100	-	100	61	-	-	100	34	33	23	31	47	33	24	0	33	-	-	-	-	-
	2021	45	40	100	-	100	59	-	-	100	33	36	23	31	45	33	25	79	35	-	-	-	-	-
HARYANA	2019	61	36	-	-	-	-	-	72	-	57	-	-	-	-	-	-	78	-	-	-	-	-	-
	2020	62	36	-	-	-	-	-	69	-	43	-	-	-	-	-	-	79	-	-	-	-	-	-
	2021	67	-	-	-	-	-	-	-	-	60	-	-	-	-	-	-	86	-	-	-	-	-	-
PUNJAB	2019	40	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2020	42	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIMACHAL PRADESH	2019	27	51	-	28	-	-	-	-	100	102	-	80	79	-	-	-	42	92	-	-	-	-	-
	2020	27	52	-	28	-	-	-	-	100	126	-	80	80	-	-	-	42	92	-	-	-	-	-
	2021	28	51	-	28	-	-	-	-	100	94	-	81	79	-	-	-	42	92	-	-	-	-	-
JAMMU & KASHMIR	2019	38	39	-	40	-	65	-	-	-	4	45	4	7	2	-	-	82	-	-	-	-	-	-
	2020	38	41	-	41	-	73	-	-	-	-	-	-	6	2	-	-	-	-	-	-	-	-	-
	2021	43	41	-	-	100	55	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
ODISHA	2019	-	28	-	64	-	-	-	-	-	15	6	-	5	11	5	17	6	-	19	-	65	-	40
	2020	-	26	-	60	-	-	-	-	-	17	9	-	6	12	2	12	5	-	22	-	62	-	24
	2021	-	34	-	64	-	-	-	-	-	18	9	-	7	18	7	16	15	-	34	-	65	-	31
WEST BENGAL	2019	56	39	-	76	-	-	-	-	-	36	-	34	39	38	46	45	53	-	-	-	-	-	84
	2020	56	40	-	86	-	-	-	-	-	36	-	35	39	38	53	45	57	-	-	-	-	-	85
	2021	56	41	-	86	-	-	-	-	-	36	-	36	40	39	53	46	57	-	-	-	-	-	86
BIHAR	2019	43	46	-	99	-	-	-	-	-	20	-	13	-	-	52	-	35	-	-	-	-	-	-
	2020	44	49	-	100	-	-	-	-	-	12	-	9	-	-	23	-	54	-	-	-	-	-	-
	2021	44	49	-	100	-	-	-	-	-	38	-	21	-	-	24	-	100	-	-	-	-	-	-
CHHATTISGARH	2019	56	52	-	82	-	-	-	-	-	21	19	26	27	41	21	6	40	43	-	-	-	-	-
	2020	58	56	-	84	-	-	-	-	-	23	15	51	20	35	22	7	45	37	-	-	-	-	-
	2021	51	59	-	100	-	-	-	-	-	29	18	33	28	36	23	7	56	34	37	-	-	-	-

V: Variety, H: Hybrid

**STATE-WISE SEED REPLACEMENT RATE OF IMPORTANT CROPS**

STATE	YEAR	WHEAT	PADDY		MAIZE		JOWAR		BAJRA		GRAM	PEAS	LENTIL	URD	MOONG	ARHAR	G.NUT	R/M	SOYABEAN	FIGURES IN PERCENTAGE (%)				JUTE
			V	H	V	H	V	H	V	H										V	H	V	H	
ASSAM	2019	-	39	-	-	-	-	-	-	-	-	-	-	32	39	-	-	45	-	-	-	-	52	
	2020	-	40	-	-	-	-	-	-	-	-	-	-	32	41	-	-	46	-	-	-	-	52	
	2021	-	43	-	90	-	-	-	-	-	-	-	-	35	37	-	-	46	-	-	-	-	-	
UTTARAKHAND	2019	42	18	-	6	-	-	-	-	-	100	-	22	33	-	-	-	57	9	-	-	-	-	
	2020	40	22	-	4	-	-	-	-	-	8	-	36	18	-	-	-	48	6	-	-	-	-	
	2021	41	18	-	3	-	-	-	-	-	9	-	27	28	-	-	-	80	4	-	-	-	-	
JHARKHAND	2019	29	20	-	41	-	2	-	-	-	18	23	19	27	9	28	16	8	21	-	-	-	-	
	2020	19	13	-	42	-	16	-	-	-	17	20	21	25	9	24	17	34	23	-	-	-	-	
	2021	28	21	-	29	-	1	-	-	-	13	18	27	25	8	21	22	25	4	-	-	-	-	
TRIPURA	2019	33	42	100	45	-	100	-	-	-	-	50	50	50	50	-	60	42	-	-	-	-	50	
	2020	-	39	100	100	-	0	-	-	-	-	101	92.80	76	72	-	85	100	-	-	-	-	106	
	2021	-	39	100	100	100	0	-	-	-	-	79	100	100	100	-	96	100	-	-	-	-	100	
MANIPUR	2019	27	62	100	66	-	-	-	-	-	61	72	68	97	89	-	95	96	22	-	-	-	-	
	2020	27	51	100	72	-	-	-	-	-	59	75	82	97	93	-	97	96	22	-	-	-	-	
	2021	32	49	100	73	-	-	-	-	-	60	76	86	96	91	-	96	96	22	-	-	-	-	
SIKKIM	2019	-	10	-	2	-	-	-	-	-	-	-	-	-	10	-	-	10	10	-	-	-	-	
	2020	-	10	-	4	-	-	-	-	-	-	-	-	-	10	-	-	10	10	-	-	-	-	
	2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MIZORAM	2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MEGHALAYA	2019	-	37	-	86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2020	-	37	-	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2021	-	37	-	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NAGALAND	2019	-	3	-	12	-	-	-	-	-	-	16	29	-	-	31	14	9	6	-	-	-	-	
	2020	-	4	-	15	-	-	-	-	-	-	12	18	-	-	27	30	11	1	-	-	-	-	
	2021	-	0	-	3	-	8	-	-	-	-	-	-	-	-	2	3	-	1	-	-	-	-	
ARUNACHAL PRADESH	2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GOA	2019	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2020	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2021	-	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

V: Variety, H: Hybrid

## Annexure-II

Qty. in Lakh Qtls.			
STATE	Availability of Certified/Quality seed		
	2020-21	2021-22	2022-23
ANDHRA PRADESH	30.85	29.85	27.90
ARUNACHAL PRADESH	0.21	0.19	0.23
ASSAM	4.43	4.24	7.73
BIHAR	16.10	18.40	17.18
CHHATTISGARH	12.28	12.52	13.38
GOA	0.06	0.06	0.06
GUJARAT	57.24	66.30	54.98
HARYANA	34.80	24.87	22.62
HIMACHAL PRADESH	0.28	0.95	1.09
JAMMU & KASHMIR	1.27	1.10	1.28
JHARKAND	2.05	5.46	3.67
KARNATAKA	19.18	16.98	20.04
KERALA	0.97	1.14	1.09
MADHYA PRADESH	39.55	49.45	52.44
MAHARASHTRA	24.80	27.51	28.88
MANIPUR	0.26	0.26	0.27
MEGHALAYA	0.30	1.68	1.67
MIZORAM	0.01	0.01	0.05
NAGALAND	0.27	0.13	0.04
ODISHA	6.48	6.42	6.29
PUDUCHERRY	0.08	0.08	0.07
PUNJAB	50.93	50.48	47.35
RAJASTHAN	29.36	28.18	26.67
SIKKIM	0.02	0.01	0.01
TAMILNADU	9.09	10.03	5.90
TELANGANA	32.46	36.69	56.24
TRIPURA	0.39	0.31	0.39
UTTAR PRADESH	60.94	61.14	62.88
UTTARKHAND	2.24	1.72	3.45
WEST BENGAL	46.78	42.65	50.42
<b>TOTAL :</b>	<b>483.66</b>	<b>498.83</b>	<b>514.26</b>

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