

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

**LOK SABHA**  
**UNSTARRED QUESTION NO.335**  
TO BE ANSWERED ON THE 19<sup>TH</sup> NOVEMBER, 2019

**SEED REPLACEMENT RATE**

335. SHRI PINAKI MISRA:

Will the Minister of AGRICULTURE AND FARMERS WELFARE कृषि एवं किसान कल्याण मंत्री be pleased to state:

- (a) the steps being taken to increase the Seed Replacement Rate in the country;
- (b) whether figures for the Seed Replacement Rate for the year 2018 are available;
- (c) if so, whether State-wise data of the same year can be presented; and
- (d) if not, the reasons for the no availability of up-to-date data?

**ANSWER**

MINISTER OF AGRICULTURE AND FARMERS WELFARE

कृषि एवं किसान कल्याण मंत्री (SHRI NARENDRA SINGH TOMAR)

(a): Well established systems are existing for production and distribution of quality seeds of improved varieties to farmers through State Department of Agriculture, National/State Seed Corporations, State Agricultural Universities, Cooperative Societies and Private Seed Producing Agencies.

State Governments are preparing dynamic State Seed Rolling Plan well in advance for production and distribution of certified/quality seeds to achieve the desired Seed Replacement Rate in the Country.

In addition, Indian Council of Agricultural Research and State Agricultural Universities undertake research programmes for the development of new crop varieties/hybrids to enhance crop productivity and production, as well as Seed Replacement Rate.

The Government of India also provides financial assistance to States and seed producing agencies for production and distribution of seeds through various ongoing crop development programmes/schemes viz. National Food Security Mission, Mission for Integrated Development of Horticulture, Rashtriya Krishi Vikas Yojana, Sub-Mission on Seeds and Planting Materials under National Mission on Agricultural Extension and Technology etc. to enhance the Seed Replacement Rate in the Country.

(b) to (d): The details of State-wise and crop-wise Seed Replacement Rate as reported by States for the years 2017-18 and 2018-19 are at Annexure-I and Annexure-II.

## STATE-WISE SEED REPLACEMENT RATE OF IMPORTANT CROPS

| STATE            | YEAR | WHEAT | PADDY   |        | MAIZE   |        | JOWAR   |        | BAJRA   |        | GRAM  | PEAS  | LENTIL | URD   |
|------------------|------|-------|---------|--------|---------|--------|---------|--------|---------|--------|-------|-------|--------|-------|
|                  |      |       | Variety | Hybrid | Variety | Hybrid | Variety | Hybrid | Variety | Hybrid |       |       |        |       |
| ANDHRA PRADESH   | 2017 | -     | 89.00   | 100.00 | -       | 100.00 | 61.73   | 100.00 | -       | -      | 85.00 | -     | -      | 60.00 |
|                  | 2018 | -     | 89.00   | 100.00 | -       | 100.00 | 61.94   | 100.00 | -       | -      | 85.00 | -     | -      | 60.00 |
| TELANGANA        | 2017 | -     | 87.10   | 100.00 | -       | 100.00 | 65.09   | 100.00 | 57.86   | 100.00 | 82.66 | -     | -      | 62.11 |
|                  | 2018 | -     | 88.00   | 100.00 | -       | 100.00 | 75.07   | 100.00 | 53.75   | 100.00 | 85.57 | -     | -      | 64.30 |
| KARNATAKA        | 2017 | 32.65 | 32.68   | -      | -       | 100.00 | 41.98   | 100.00 | 33.75   | 100.00 | 36.64 | -     | -      | 26.07 |
|                  | 2018 | 32.53 | 32.59   | -      | -       | 100.00 | 40.67   | 100.00 | 37.71   | 100.00 | 39.06 | -     | -      | 35.70 |
| TAMILNADU        | 2015 | -     | 63.94   | -      | -       | 100.00 | 50.61   | -      | 80.64   | -      | 52.98 | -     | -      | 43.54 |
|                  | 2016 | -     | 63.09   | -      | -       | 100.00 | 53.04   | -      | 77.30   | -      | 38.99 | -     | -      | 34.21 |
| TAMILNADU        | 2017 | -     | 82.45   | -      | -       | -      | 46.55   | -      | 69.84   | -      | 32.90 | -     | -      | 38.15 |
|                  | 2018 | -     | 79.23   | -      | -       | 100.00 | 46.98   | -      | 69.93   | -      | 32.98 | -     | -      | 38.16 |
| KERALA           | 2017 | -     | 53.69   | -      | -       | -      | -       | -      | -       | -      | -     | -     | -      | -     |
|                  | 2018 | -     | 62.00   | -      | -       | -      | -       | -      | -       | -      | -     | -     | -      | -     |
| PUDUCHERRY       | 2017 | -     | 76.58   | -      | -       | -      | -       | -      | -       | -      | -     | -     | -      | 62.85 |
|                  | 2018 | -     | 78.07   | -      | -       | -      | -       | -      | -       | -      | -     | -     | -      | 60.34 |
| GUJARAT          | 2017 | 38.00 | 42.00   | -      | -       | 100.00 | -       | -      | -       | 100.00 | 41.00 | -     | -      | 42.00 |
|                  | 2018 | 40.00 | 44.00   | -      | -       | 100.00 | -       | -      | -       | 100.00 | 42.00 | -     | -      | 44.00 |
| MAHARASHTRA      | 2017 | 37.13 | 47.00   | -      | -       | 100.00 | 20.24   | 100.00 | 80.02   | 100.00 | 33.06 | -     | -      | 35.99 |
|                  | 2018 | 40.00 | 47.03   | -      | -       | 100.00 | 16.00   | 100.00 | 78.40   | 100.00 | 38.01 | -     | -      | 35.01 |
| RAJASTHAN        | 2017 | 31.43 | 19.38   | -      | -       | 47.57  | -       | 30.23  | -       | 57.93  | -     | -     | -      | 13.41 |
|                  | 2018 | 35.87 | 13.09   | -      | -       | 56.70  | -       | 30.65  | -       | 61.88  | -     | -     | -      | 20.51 |
| MADHYA PRADESH   | 2017 | 28.84 | 28.09   | -      | -       | 85.55  | -       | 25.46  | -       | 67.58  | -     | 14.95 | 12.14  | 10.46 |
|                  | 2018 | 29.67 | 26.90   | -      | -       | 90.62  | -       | 54.44  | -       | 58.26  | -     | 14.44 | 10.58  | 14.36 |
| UTTAR PRADESH    | 2017 | 42.96 | 36.75   | 100.00 | -       | 100.00 | 60.49   | -      | -       | 100.00 | 35.87 | 33.01 | 24.21  | 36.12 |
|                  | 2018 | 44.65 | 37.55   | 100.00 | -       | 100.00 | 50.54   | -      | -       | 100.00 | 30.79 | 32.94 | 23.59  | 32.25 |
| HARYANA          | 2017 | -     | 34.23   | -      | -       | -      | -       | -      | 65.56   | -      | -     | -     | -      | -     |
|                  | 2018 | -     | 37.43   | -      | -       | -      | -       | -      | 66.68   | -      | -     | -     | -      | -     |
| PUNJAB           | 2017 | 46.70 | 33.81   | -      | -       | -      | -       | -      | -       | -      | -     | -     | -      | -     |
|                  | 2018 | 12.86 | 34.38   | -      | -       | -      | -       | -      | -       | -      | -     | -     | -      | -     |
| HIMACHAL PRADESH | 2017 | 27.43 | 51.21   | -      | -       | 24.30  | -       | -      | -       | -      | 95.93 | -     | 80.25  | 79.24 |
|                  | 2018 | 27.57 | 53.52   | -      | -       | 23.44  | -       | -      | -       | -      | 95.93 | -     | 80.25  | 79.07 |



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

FIGURES IN PERCENTAGE

| STATE           | YEAR | WHEAT  | PADDY   |        | MAIZE   |        | JOWAR   |        | BAJRA   |        | GRAM  | PEAS  | LENTIL | URD   | MOON G | ARHAR | G.NUT | R/M   | SOYABEAN | SUNFLOWER |        | COTTON  |        | JUTE |
|-----------------|------|--------|---------|--------|---------|--------|---------|--------|---------|--------|-------|-------|--------|-------|--------|-------|-------|-------|----------|-----------|--------|---------|--------|------|
|                 |      |        | Variety | Hybrid | Variety | Hybrid | Variety | Hybrid | Variety | Hybrid |       |       |        |       |        |       |       |       |          | Variety   | Hybrid | Variety | Hybrid |      |
|                 |      |        |         |        |         |        |         |        |         |        |       |       |        |       |        |       |       |       |          |           |        |         |        |      |
| JAMMU & KASHMIR | 2017 | 39.43  | 43.19   | -      | 31.41   | -      | 66.67   | -      | -       | -      | 3.03  | 27.06 | 5.03   | 8.60  | 3.14   | -     | -     | 57.71 | -        | -         | -      | -       | -      | -    |
|                 | 2018 | 35.83  | 42.25   | -      | 41.18   | -      | 69.79   | -      | -       | -      | 3.94  | 40.38 | 4.58   | 2.35  | 0.42   | -     | -     | 54.96 | -        | -         | -      | -       | -      | -    |
| ODISSA          | 2017 | 0.00   | 39.68   | -      | 53.83   | -      | -       | -      | -       | -      | 15.32 | 0.72  | -      | 18.56 | 18.93  | 5.06  | 13.15 | 10.11 | -        | 70.49     | -      | 84.07   | -      | -    |
|                 | 2018 | 14.56  | 40.03   | -      | 55.74   | -      | -       | -      | -       | -      | 16.00 | 6.71  | -      | 9.04  | 19.19  | 6.14  | 15.15 | 12.42 | -        | 76.92     | -      | 88.24   | -      | -    |
| WEST BENGAL     | 2017 | 54.55  | 38.51   | -      | 46.00   | -      | -       | -      | -       | -      | 35.47 | -     | 33.19  | 38.00 | 37.50  | 52.00 | 44.00 | 52.88 | -        | -         | -      | -       | -      | -    |
|                 | 2018 | 56.00  | 38.80   | -      | 47.00   | -      | -       | -      | -       | -      | 35.69 | -     | 33.30  | 38.29 | 37.80  | 46.96 | 44.30 | 52.81 | -        | -         | -      | -       | -      | -    |
| BIHAR           | 2017 | 30.82  | 40.74   | -      | 85.51   | -      | -       | -      | -       | -      | 9.79  | -     | 9.17   | -     | -      | 11.55 | -     | 31.56 | -        | -         | -      | -       | -      | -    |
|                 | 2018 | 32.94  | 41.29   | -      | 87.00   | -      | -       | -      | -       | -      | 35.12 | -     | 4.95   | -     | -      | 21.65 | -     | 63.51 | -        | -         | -      | -       | -      | -    |
| CHATTISGARH     | 2017 | 48.56  | 48.07   | -      | 70.71   | -      | -       | -      | -       | -      | 19.86 | 15.71 | 24.45  | 18.14 | 36.49  | 20.33 | 5.95  | 51.09 | 37.16    | -         | -      | -       | -      | -    |
|                 | 2018 | 51.43  | 47.76   | -      | 80.62   | -      | -       | -      | -       | -      | 20.87 | 17.33 | 37.01  | 19.44 | 35.14  | 25.70 | 7.80  | 43.04 | 41.79    | -         | -      | -       | -      | -    |
| ASSAM           | 2017 | -      | 39.88   | -      | 56.10   | -      | -       | -      | -       | -      | -     | -     | -      | 34.00 | 36.00  | -     | -     | 43.95 | -        | -         | -      | -       | -      | -    |
|                 | 2018 | -      | 38.59   | -      | -       | -      | -       | -      | -       | -      | -     | -     | -      | -     | -      | -     | -     | 45.03 | -        | -         | -      | -       | -      | -    |
| UTTARAKHAND     | 2017 | 33.53  | 19.56   | -      | 0.00    | -      | -       | -      | -       | -      | 0.82  | -     | 40.15  | 32.92 | -      | -     | -     | 32.63 | 7.63     | -         | -      | -       | -      | -    |
|                 | 2018 | 37.25  | 17.13   | -      | 0.87    | -      | -       | -      | -       | -      | 71.14 | -     | 41.31  | 22.21 | -      | -     | -     | 49.25 | 12.70    | -         | -      | -       | -      | -    |
| JHARKHAND       | 2017 | 16.22  | 7.25    | -      | 1.46    | -      | -       | -      | -       | -      | 4.13  | 41.92 | 7.93   | 13.24 | 1.78   | 0.80  | 58.60 | 1.30  | 12.44    | -         | -      | -       | -      | -    |
|                 | 2018 | 16.99  | 8.17    | -      | 1.74    | -      | -       | -      | -       | -      | 9.53  | -     | 4.24   | 36.33 | 10.24  | 0.09  | 34.38 | 1.55  | 3.05     | -         | -      | -       | -      | -    |
| TRIPURA         | 2017 | 100.00 | 38.79   | 100.00 | 100.00  | -      | 100.00  | -      | -       | -      | -     | 57.14 | 55.00  | 60.54 | 50.05  | 20.75 | 51.68 | 60.00 | 100.00   | -         | -      | -       | -      | -    |
|                 | 2018 | 50.13  | 33.49   | 100.00 | 100.00  | -      | 100.00  | -      | -       | -      | -     | 58.19 | 94.09  | 37.83 | 35.54  | 50.00 | 52.42 | 46.98 | 100.00   | -         | -      | -       | -      | -    |
| MANIPUR         | 2017 | 27.78  | 51.20   | 100.00 | 65.40   | -      | -       | -      | -       | -      | 57.47 | 70.61 | 62.50  | 90.41 | 96.00  | 96.97 | 94.67 | -     | 19.57    | -         | -      | -       | -      | -    |
|                 | 2018 | 27.29  | 51.28   | 100.00 | 67.42   | -      | -       | -      | -       | -      | 60.98 | 70.92 | 68.49  | 95.89 | 94.34  | -     | 94.67 | -     | 22.37    | -         | -      | -       | -      | -    |
| MEGHALAYA       | 2017 | -      | 37.82   | -      | 68.28   | -      | -       | -      | -       | -      | -     | -     | -      | 22.73 | -      | -     | -     | -     | -        | -         | -      | -       | -      | -    |
|                 | 2018 | -      | 37.45   | -      | 88.37   | -      | -       | -      | -       | -      | -     | -     | -      | -     | -      | -     | -     | -     | -        | -         | -      | -       | -      | -    |
| NAGALAND        | 2017 | -      | 54.10   | -      | 39.22   | -      | -       | -      | -       | -      | -     | -     | -      | -     | -      | 37.62 | 37.58 | -     | 8.31     | -         | -      | -       | -      | -    |
|                 | 2018 | -      | 10.84   | -      | 78.20   | -      | -       | -      | -       | -      | -     | -     | -      | -     | -      | 43.34 | 11.32 | -     | 6.68     | -         | -      | -       | -      | -    |

## Annexure-II

| <b>CERTIFIED/QUALITY SEEDS REPLACEMENT RATE OF MAJOR CROPS IN THE COUNTRY DURING 2017-18 AND 2018-19</b> |                |                |
|--|----------------|----------------|
| <b>Figure in %</b>   |                |                |
| <b>CROP</b>  | <b>2017-18</b> | <b>2018-19</b> |
| WHEAT  | 36.49          | 39.60          |
| PADDY  | 35.73          | 33.08          |
| MAIZE  | 65.49          | 68.84          |
| JOWAR  | 31.85          | 27.92          |
| BAJRA  | 49.76          | 58.17          |
| RAGI   | 67.06          | 54.18          |
| BARLEY   | 31.36          | 25.63          |
| URD  | 30.03          | 30.78          |
| MOONG  | 26.20          | 28.69          |
| ARHAR  | 51.26          | 51.48          |
| PEAS   | 34.97          | 37.48          |
| GRAM   | 30.89          | 34.75          |
| LENTIL   | 29.20          | 30.70          |
| GROUNDNUT  | 23.53          | 22.44          |
| RAPE/MUSTARD   | 54.86          | 52.41          |
| TIL  | 37.44          | 39.54          |
| SUNFLOWER  | 32.23          | 30.27          |
| SOYABEAN   | 39.92          | 37.45          |
| CASTOR   | 95.40          | 54.04          |
| SAFFLOWER  | 26.58          | 36.74          |

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