

GOVERNMENT OF INDIA
MINISTRY OF FOOD PROCESSING INDUSTRIES
RAJYA SABHA
UNSTARRED QUESTION NO. 1511
ANSWERED ON 01ST AUGUST, 2025

ENHANCING INDIA'S FOOD PROCESSING SECTOR

1511. SMT. RENUKA CHOWDHURY:

Will the Minister of **FOOD PROCESSING INDUSTRIES** be pleased to state:

- (a) the total food production in the country during the last five years, year-wise and crop-wise;
- (b) the estimated quantity of food wastage, particularly post-harvest losses, during the same period, year-wise, category-wise (cereals, fruits, vegetables, dairy, etc.);
- (c) whether Government has conducted an assessment of food wastage at various stages of the supply chain, if so, the details thereof;
- (d) whether there is any provision for including irradiation technology in food processing parks, if so, the number of such parks; and
- (e) whether the number of such facilities is being increased in the climate-vulnerable districts, if so, the details thereof?

ANSWER

THE MINISTER OF STATE FOR FOOD PROCESSING INDUSTRIES
(SHRI RAVNEET SINGH)

(a): As per the data of Department of Agricultural and Farmers Welfare, the crop wise, year-wise information of the production across the country is placed at **Annexure-I**.

(b) & (c): The Ministry of Food Processing Industries (MoFPI) had commissioned a study through NABARD Consultancy Services Pvt. Ltd. (NABCONS), namely, "Study to determine Post harvest losses of Agri Produce in India" in 2022 with reference year 2020-22. The scope of the study was to assess post-harvest losses with respect to 54 crops/commodities selected across the country. The different stages considered for assessment of losses were harvesting, collection, grading/sorting, winnowing/cleaning, drying, packaging, transportation, storage at farm level and Godown, wholesalers, retailers, processing unit and transport at market level. The details of estimated loss of various agri-produce at different stages are placed at **Annexure-II**.

(d) & (e): The Ministry of Food Processing Industries (MoFPI) has been implementing the component scheme- Integrated Cold Chain & Value Addition Infrastructure (Cold Chain scheme) under Pradhan Mantri Kisan Sampada Yojana (PMKSY). Under Cold Chain scheme, MoFPI is assisting Food irradiation units, which helps in reduction of post-harvest losses and wastage of perishable farm, produce by enhancing shelf life. As per the operational guidelines of Scheme for "Integrated Cold Chain & Value Addition Infrastructure - setting up of multiproduct food irradiation units", Individuals and organizations, such as FPOs, FPCs, SHGs, NGOS, PSUs, firms, and companies etc., who are interested in food irradiation and cold chain solutions, as well as those involved in managing supply chains, can establish standalone food irradiation units or food irradiation units integrated with cold chain and value-addition infrastructure projects. In total MoFPI has approved 16 numbers of project proposals for setting up of multi-product food irradiation units across the Country. Cold Chain scheme is demand driven and proposals are invited by the Ministry from across the country through floating Expression of Interests (EoIs).

The multiproduct food irradiation units can also be set up in the Mega Food Parks (MFP) assisted by MoFPI. As on date, the number of sanctioned Mega food parks under PMKSY in the country is 41. One food irradiation facility has been set up in MoFPI assisted Mega Food Park viz. M/s Avanti Mega Food Park at Devas, Madhya Pradesh by their own funds. The Mega Food Park Scheme has, however, been discontinued w.e.f. 01.04.2021 with provision for committed liabilities only.

ANNEXURE-I REFERRED TO IN REPLY TO PART (a) OF RAJYA SABHA UNSTARRED QUESTION NUMBER 1511 ANSWERED ON 01ST AUGUST, 2025 REGARDING ENHANCING INDIA'S FOOD PROCESSING SECTOR

Crop	All India Production of Food Grains & Pulses in Lakh Tonnes				
	2020-21	2021-22	2022-23	2023-24	2024-25 (As per 3 rd Advance Estimates)
Rice	1243.68	1294.71	1357.55	1378.25	1490.74
Wheat	1095.86	1077.42	1105.54	1132.92	1175.07
Maize	316.47	337.30	380.85	376.65	422.81
Barley	16.56	13.71	19.13	16.99	18.44
Jowar	48.12	41.51	38.14	47.37	48.80
Bajra	108.63	97.81	114.31	107.16	108.63
Ragi	19.98	17.01	16.91	16.70	18.34
Small Millets	3.47	3.67	3.84	4.49	4.38
Shree Anna /Nutri Cereals	180.21	160.00	173.21	175.72	180.15
Nutri/Coarse Cereals	513.24	511.01	573.19	569.36	621.40
Cereals	2852.79	2883.14	3036.28	3080.52	3287.21
Tur	43.16	42.20	33.12	34.17	35.61
Gram	119.11	135.44	122.67	110.39	113.37
Urad	22.30	27.76	26.31	23.19	21.06
Moong	30.85	31.66	36.76	31.03	38.19
Lentil	14.94	12.69	15.59	17.91	17.72
Other Pulses	24.27	23.27	26.14	25.77	26.43
Total Pulses	254.63	273.02	260.58	242.46	252.38
Total Food Grains	3107.42	3156.16	3296.87	3322.98	3539.59

All India Production of Fruits, Vegetables, Plantation crops and Spices in '000 MT					
Crops	2020-21	2021-22	2022-23	2023-24	2024-25 (As per Second Advance Estimates)
<u>Fruits</u>					
Almond	11	12	12	12	13
Aonla/Gooseberry	1197	1278	1318	1378	1401
Apple	2276	2589	2876	2626	2686
Banana	33062	34528	36614	37614	38035
Ber	580	547	531	526	561
Custardapple	407	418	460	829	530
Date Palm	-	-	-	-	200
Dragon Fruit (Kamalam)	-	-	21	54	72
Grapes	3358	3401	3740	3904	3523
Guava	4582	5527	5364	5368	5446
Jackfruit	1893	3301	3260	3392	3328
Kiwi	16	16	18	17	18
Litchi	720	737	746	577	584

Makhana (Euryale Ferox/Foxnut)	-	-	-	-	56
Mango	20386	20772	20872	22398	22837
Muskmelon	1478	1498	1498	1541	1622
Papaya	5540	5341	5240	5292	5449
Passion Fruit	70	56	57	48	41
Peach	111	121	102	109	111
Pear	276	309	271	274	288
Picanut	0	0	0	0	
Pineapple	1799	1851	1828	1733	1717
Plum	84	86	65	68	71
Pomegranate	3271	3086	3098	2842	2896
Sapota	822	941	875	887	871
Strawberry	20	11	19	21	22
Walnut	281	289	316	318	293
Water Chestnut	-	-	-	-	4
Watermelon	3254	3308	3626	3721	4470
Other Fruits	2741	2726	2776	2874	2442
<u>Vegetables</u>					
Beans	2595	2726	2831	2898	2948
Bittergourd	1330	1376	1429	1769	1871
Bottlegourd	3171	3210	3364	3845	4279
Brinjal	12874	12765	12972	12998	12886
Cabbage	9560	9825	10049	10432	10472
Capsicum	563	586	643	647	659
Carrot	1885	2284	2399	2776	2752
Cauliflower	9225	9566	9548	9794	10228
Cucumber	1652	1694	1712	2050	2074
Chillies (Green)	4363	4700	4496	4671	5312
Elephant Foot Yam	874	1040	987	977	881
Mushroom	243	280	315	347	391
Okra/Ladyfinger	6466	6873	7158	7305	7694
Onion	26641	31687	30208	24267	30772
Parwal/Pointedgourd	725	763	752	1013	1031
Peas	5846	6182	6592	6671	7086
Potato	56173	56176	60142	57053	60175
Radish	3263	3214	3100	3236	3319
Pumpkin/Sitaphal/Kaddu	2205	2364	2427	2704	2787
Sweet Potato	1121	1184	1289	1306	1527
Tapioca	6941	6213	5938	6283	6721
Tomato	21181	20694	20425	21323	20752
Other Vegetables	21550	23740	23775	22841	23058
<u>Plantation Crops</u>		-	-		
Arecanut	1563.155	1666	1369	1411	1438
Betelvine	-	-	706	722	676
Cashewnut	738	752	782	795	704
Cocoa	27	28	30	30	33
Coconut	14301	13317	14163	14708	14036
<u>Spices</u>		-	-		

Ajwain	36	40	39	38	44
Cardamom	34	37	36	35	31
Red Chillies (Dried)	2049	1836	2782	2910	2679
Cinnamon/Tejpata	5	4	5	5	5
Celery,Dill & Poppy	31	29	43	51	41
Clove	1	1	1	1	1
Coriander	891	735	974	837	855
Cumin	795	556	577	895	774
Fenugreek	241	252	230	250	226
Fennel	137	115	152	376	154
Garlic	3190	3523	3239	3316	3503
Ginger	2225	2503	2201	2333	2542
Nutmeg	16	18	18	19	20
Black Pepper	141	95	117	126	79
Vanilla	0	0	0	0	0
Saffron	0	0	0	0	0
Tamarind	156	152	151	132	117
Turmeric	1124	1222	1170	1063	1204
Curry Leaf	-	-	59	59	56
Mint (Mentha)	46	35	35	39	39
Total	316429.155	328807	337033	335780	348519

ANNEXURE-II REFERRED TO IN REPLY TO PART (b)&(c) OF RAJYA SABHA UNSTARRED QUESTION NUMBER 1511 ANSWERED ON 01ST AUGUST, 2025 REGARDING ENHANCING INDIA'S FOOD PROCESSING SECTOR

Table-1: Category wise losses in quantity

Category	Quantity lost (Million MT) As per NABCONS study (2022)
Cereals	12.49
Pulses	1.37
Oil Seeds	2.11
Fruits	7.36
Vegetables	11.97
Plantation crops (including sugarcane and spices)	30.59
Livestock produce (milk, meat and fish)	3.01
Eggs	7363.00

Table-2: Post harvest losses of major agri-produce

Category	Crops	Percent of Loss As per NABCONS study (2022)	
		Total loss in farm operations	Total loss in market level
Cereals	Paddy	4.16	0.61
	Wheat	3.61	0.56
	Maize	3.22	0.67
	Bajra	3.59	0.78
	Sorghum	4.75	1.17
Pulses	Pigeon Pea	4.67	0.99
	Chickpea	5.89	0.85
	Green Gram	5.3	0.89
	Black Gram	4.95	0.88
Oilseeds	Mustard	4.08	0.38
	Cottonseed	2.47	0.4
	Soybean	6.58	0.93
	Safflower	2.66	0.4
	Sunflower	3.3	1.08
	Groundnut	4.7	1.03
Fruits	Apple	7.87	1.64
	Banana	5.17	2.40
	Citrus	5.53	2.18
	Grapes	5.09	2.05
	Guava	11.59	3.46
	Mango	6.03	2.5
	Papaya	3.77	2.82
	Sapota	6.22	3.32
	Pineapple	4.22	1.8
	Pomegranate	4.09	2.73
	Muskmelon	4.12	2.71

Vegetables	Cabbage	5.83	2.32
	Cauliflower	5.76	2.13
	Green pea	4.67	1.76
	Mushroom	6.21	0.99
	Onion	5.31	1.96
	Potato	5.1	0.86
	Tomato	8.37	3.25
	Tapioca	3.39	1.48
	Bottle Gourd	4.69	2.32
	Brinjal	4.75	2.66
	Beans	3.68	3.43
	Radish	3.96	2.5
	Capsicum	2.60	2.55
	Okra	3.76	2.25
Plantation Crops and spices	Areca Nut	3.58	0.83
	Cashew nut	3.11	0.61
	Coconut	2.85	1.00
	Sugar cane	5.63	1.71
	Black Pepper	1.11	0.19
	Chilli	5.2	0.91
	Coriander	4.72	0.6
	Turmeric	3.78	1.57
Milk	-	0.54	0.33
Fisheries	Inland	3.8	1.06
Fisheries	Marine	7	1.76
Meat	-	1.43	0.91
Poultry	-	2.51	3.12
Egg	-	4.40	1.63
