

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

LOK SABHA
UNSTARRED QUESTION NO.3212
TO BE ANSWERED ON THE 21ST MARCH, 2017

PESTICIDE PRODUCTION

3212. SHRI R.P. MARUTHARAJAA:

Will the Minister of AGRICULTURE AND FARMERS WELFARE श्री र.प. मारुथराजा एवं किसान कल्याण
कल्याण 1/2
be pleased to state:

- (a) the total quantum of pesticide production and consumption in the country during 2015-16 and 2017 to till date, State-wise;
- (b) the details of the countries to which pesticides has been exported and the quantum and value of export during the above said period;
- (c) whether the Government encourages the farmers by various methods to use limited and correct quantity of pesticides due to its adverse impact on human health and environment; and
- (d) if so, the details thereof?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND FARMERS WELFARE

श्री र.प. मारुथराजा एवं किसान कल्याण 1/2 1/2 1/2 (SHRI
PARSHOTTAM RUPALA)

(a): As per the data made available by the Ministry of Chemicals and Petrochemicals, the production of pesticide in 2015-16 and 2016-17 (up to December 2016) is 187522 Metric Tonne (Tech. Grade) and 159594 Metric Tonne (Tech. Grade) respectively. The Ministry of Chemicals and Petrochemicals collects production data from large and medium scale units only. As reported by the States in the Zonal Conference, the details of the consumption of pesticides for the period 2015-16 and 2016-17 (up to February 2017) is at Annexure I.

(b): As per the information received from the Ministry of Chemicals and Petrochemicals, the details for the period 2015-16 and 2016-17 (up to September 2016) are at Annexure II.

(c) & (d): The Government is implementing “Strengthening and Modernization of Pest Management Approach in India” through 35 Central Integrated Pest Management Centres (CIPMCs) of Directorate of Plant Protection Quarantine and Storage established across the country with an aim to promote Integrated Pest Management (IPM) approach . CIPMCs inter alia, produce biological agents for release in the fields, conserve natural bio-control agents, promote bio-pesticides as an alternative to chemical pesticides and advocate judicious and safe use of chemical pesticides as a last resort. These activities are implemented through Farmers Field Schools (FFSs), 2 days and 5 days training programmes and season long training program for State Agriculture Extension officers and NGOs / Private Bodies. A ‘Grow Safe Food’ campaign has been initiated disseminating message of safe and judicious use of pesticides to farmers and other stakeholders. Package of practices for control of pests and diseases in 87 crops have been revised to include techniques to reduce dependence on chemical pesticides and encourage use of bio-pesticides and other alternative plant protection measures.

ANNEXURE I**CONSUMPTION OF PESTICIDES IN STATES/UTs DURING 2015-16 TO 2016-17 (up to February 2017)**

Unit: M.T. (Tech. Grade)

S. No.	States/UTs	2015-16	2016-17 (Provisional)
1	Andhra Pradesh	2713	1884
2	Bihar	831	840
3	Chhattisgarh	1625	1495
4	Goa	48	22
5	Gujarat	1980	1713
6	Haryana	NR	4050
7	Himachal Pradesh	450	341
8	Jammu & Kashmir	2251	2188
9	Jharkhand	493	541
10	Karnataka	1434	1279
11	Kerala	1123	1070
12	Madhya Pradesh	732	694
13	Maharashtra	11665	13496
14	Orissa	723	770
15	Punjab	5743	5843
16	Rajasthan	2475	1252
17	Tamil Nadu	2096	2000
18	Telangana	2950	3840
19	Uttar Pradesh	10457	10142
20	Uttarakhand	217	131
21	West Bengal	3712	2624
North-Eastern			
22	Arunachal Pradesh	17	18
23	Assam	NR	306
24	Manipur	30	33
25	Meghalaya	NR	NR
26	Mizoram	NR	NR
27	Nagaland	20	NR
28	Sikkim	NR	NR
29	Tripura	293	298
Union Territories			
30	Andaman & Nicobar	NR	NR
31	Chandigarh	NR	NR
32	Dadra & Nagar Haveli	NR	NR
33	Daman & Diu	NR	NR
34	Delhi	NR	88
35	Lakshadweep	NR	NR
36	Pondicherry	43	42
Sub Total		43	130
Grand Total		54121	57000

Source: States/UTs Zonal Conferences on Inputs (Plant Protection). NR: Not Reported

ANNEXURE II**INDIA'S EXPORT OF PESTICIDES DURING 2015-16 AND 2016-17**

EXPORT OF PESTICIDES (APRIL 2015 - MARCH 2016)				EXPORT OF PESTICIDES *(APRIL 2016 - SEPTEMBER 2016)			
PRODUC T	COUNTRY	QUANTIT Y (In MT)	VALUE (In RS.Lakhs)		COUNTRY	QUANTIT Y (In MT)	VALUE (In RS.Lakhs)
MALATHION							
	BANGLADESH PR	3	5.764		AFGHANISTA N	1.75	3.038
	EGYPT A RP	278	504.714		EGYPT A RP	58.5	108.657
	IRAN	12	29.502		IRAN	10.3	23.484
	JORDAN	17	29.485		JORDAN	20	35.458
	MALAYSIA	160	298.271		MALAYSIA	80	148.802
	MEXICO	196	373.506		MALDIVES	0.1	0.396
	MYANMAR	28.1	63.05		MAURITIUS	0.6	3.155
	NEPAL	0.012	0.028		MEXICO	80	150.139
	PHILIPPINES	41	81.629		MYANMAR	1.91	4.466
	SAUDI ARAB	150.6	309.87		NEPAL	0.52	0.994
	SOMALIA	25	58.092		SAUDI ARAB	35	69.568
	SPAIN	75.75	143.76		SPAIN	22	43.056
	SRI LANKA DSR	3.7	12.351				
	TAIWAN	10	18.788				
	UGANDA	10	14.417				
	Product Total	1010.162	1943.23		Product Total	310.68	591.213
DIMETHOATE							
	BANGLADESH PR	16	41.584		AFGHANISTA N	1.75	3.17
	MALDIVES	0.461	2.84		BANGLADES H PR	5	12.015
	NEPAL	3.26	7.111		MALDIVES	0.03	0.476
	NIGERIA	0.013	0.008		NEPAL	0.45	0.862
					SOUTH AFRICA	0.001	0.001
	Product Total	19.734	51.543		Product Total	7.231	16.525
D.D.V.P.							
	ARGENTINA	112.5	197.188		ARGENTINA	1	2.037
	BRAZIL	15	37.108		BRAZIL	7.5	19.364
	DOMINIC REP	8	24.556		IRAN	20	54.96
	IRAN	3	5.685		JAPAN	14	53.877
	JAPAN	32	119.528		NEPAL	1.24	4.171
	MADAGASCA R	26.5	70.814		NEW ZEALAND	2	7.367
	MEXICO	18	33.608		SPAIN	11	28.043
	NEPAL	3.54	8.555		UGANDA	125.58	507.562
	NETHERLAND	37.5	52.011		ZAMBIA	16.42	58.844
	NEW ZEALAND	2.5	6.916				

	NIGERIA	103.96	233.832			
	SPAIN	18	44.48			
	TANZANIA REP	25.56	79.216			
	U ARAB EMTS	1	4.507			
	UGANDA	131.72	506.757			
	ZAMBIA	10.8	36.647			
	Product Total	549.58	1461.409		Product Total	198.74 736.224
QUINALPHOS						
	BANGLADESH PR	56.4	166.155		BANGLADESH PR	18.8 53.133
	NEPAL	3.165	8.083		NEPAL	0.15 0.501
	SINGAPORE	36.45	184.2		VIETNAM SOC REP	45.45 222.075
	SOUTH AFRICA	0.675	5.4			
	TANZANIA REP	23.5	99.959			
	VIETNAM SOC REP	114.975	572.058			
	Product Total	235.165	1035.857		Product Total	64.4 275.71
CYPERMETHRIN						
	AFGHANISTAN	3	17.912		AFGHANISTAN	9.12 14.156
	ALGERIA	5	13.31		ARGENTINA	201.5 1094.74
	ARGENTINA	340.075	1991.718		AUSTRALIA	2.775 19.492
	AUSTRALIA	4.5	29.132		BANGLADESH PR	88.2 150.786
	BANGLADESH PR	184.592	334.309		BELGIUM	117.475 611.683
	BELGIUM	510.2	3057.602		BRAZIL	674.1 3661.057
	BRAZIL	798.485	4630.67		CHILE	12.4 34.601
	BURKINA FASO	18	87.799		CHINA P RP	390 1871.35
	CAMEROON	27.4	79.501		COLOMBIA	165.649 645.742
	CANADA	3.6	51.983		COSTA RICA	74 354.557
	CHILE	19.66	97.531		COTE D' IVOIRE	6.075 28.579
	CHINA P RP	866.327	4195.599		ECUADOR	5.2 27.318
	COLOMBIA	235.587	987.052		EGYPT A RP	14.65 75.464
	COSTA RICA	177.4	934.277		ERITREA	0.1 0.5
	COTE D' IVOIRE	12.6	66.54		FRANCE	56 417.463
	CUBA	36.48	195.12		GERMANY	0.3 3.192
	DOMINIC REP	0.5	2.929		GREECE	2.25 14.198
	ECUADOR	62	292.182		GUATEMALA	29.7 135.865
	EGYPT A RP	54.325	384.991		INDONESIA	174.2 735.557
	FINLAND	13.5	81.578		IRAN	208.4 996.532
	FRANCE	189.005	1209.877		IRELAND	0.036 1.677
	GERMANY	5.6	19.806		ISRAEL	30.15 174.265
	GHANA	18	27.54		ITALY	4.4 39.31

	GUATEMALA	96	494.735		JORDAN	39.9	186.513
	HONDURAS	16.56	53.577		KOREA RP	24.05	133.918
	INDONESIA	348.7	1835.323		MADAGASCAR	3	15.559
	IRAN	278.625	1274.74		MALAYSIA	63.85	303.691
	IRELAND	0.002	0.84		MALDIVES	0.287	2.311
	ISRAEL	27.725	179.66		MEXICO	252.7	1338.822
	ITALY	9.7	61.113		MOROCCO	55.61	160.81
	JORDAN	76.855	398.744		MOZAMBIQUE	14.74	48.494
	KAZAKHSTAN	0.2	3.525		MYANMAR	53	247.223
	KENYA	6.45	20.26		NEPAL	7.395	22.36
	KOREA RP	82.575	470.307		NETHERLAND	205.2	1527.444
	LATVIA	8.1	45.926		NICARAGUA	49.384	130.532
	MADAGASCAR	4.8	14.688		NIGERIA	286.468	524.857
	MALAWI	8.2	25.626		PAKISTAN IR	19.8	100.046
	MALAYSIA	186.9	937.379		PARAGUAY	12.6	55.91
	MALDIVES	0.224	1.977		PERU	23	123.092
	MAURITIUS	1	4.169		PHILIPPINES	68.325	409.853
	MEXICO	484.362	2765.894		SAUDI ARAB	96	365.856
	MONTENEGRO	1.125	7.255		SERBIA	0.5	3.225
	MOROCCO	17	51.264		SINGAPORE	26.2	77.898
	MYANMAR	93.7	323.288		SLOVENIA	5	31.939
	NEPAL	7.855	12.453		SOUTH AFRICA	82.729	300.736
	NETHERLAND	408.875	2929.156		SPAIN	42.92	240.949
	NEW ZEALAND	0.4	2.723		SUDAN	72.103	224.686
	NICARAGUA	4.4	22.072		SYRIA	4.95	26.587
	NIGERIA	118.5	207.434		TAIWAN	15.4	88.942
	PAKISTAN IR	46.515	285.225		THAILAND	277	1322.818
	PANAMA REPUBLIC	15.904	62.43		TUNISIA	3.6	24.656
	PARAGUAY	36.65	199.178		TURKEY	78.66	358.745
	PERU	72.85	368.825		U ARAB EMTS	10.425	51.661
	PHILIPPINES	37.85	160.577		U K	4.2	63.773
	POLAND	0.6	3.841		U S A	99.422	734.397
	PORTUGAL	0.25	2.655		UGANDA	125.94	363.768
	RUSSIA	82.29	407.541		URUGUAY	0.8	4.271
	SAUDI ARAB	139.975	554.743		UZBEKISTAN	12	99.561
	SINGAPORE	78.125	486.879		VIETNAM SOC REP	139.92	655.582
	SLOVAK REP	0.025	0.935				
	SLOVENIA	5	31.355				
	SOMALIA	36.25	96.302				
	SOUTH AFRICA	64.526	369.878				
	SPAIN	45.91	203.517				

	SUDAN	32.003	86.699			
	SURINAME	10.5	35.92			
	TAIWAN	30.4	187.048			
	TAJIKISTAN	7.5	28.694			
	TANZANIA REP	27	78.91			
	THAILAND	850	4388.536			
	TOGO	15.075	75.298			
	TUNISIA	8.8	46.272			
	TURKEY	236.32	1151.589			
	U ARAB EMTS	38.55	143.805			
	U K	16.076	247.459			
	U S A	222.844	1582.653			
	UGANDA	109.54	207.347			
	UKRAINE	3	8.466			
	URUGUAY	31.65	173.188			
	VENEZUELA	1.25	12.099			
	VIETNAM SOC REP	658.66	3327.81			
	Product Total	8836.557	45948.758		Product Total	4543.758
						21479.566
OTHER PESTICIDES						
	AFGHANISTAN	0.4	2.642		AFGHANISTAN	0.3
						2.654
	ALGERIA	130.996	518.605		ALBANIA	2.15
						32.928
	ARGENTINA	388.29	2128.879		ALGERIA	13.08
						118.673
	AUSTRALIA	481.849	3339.824		ARGENTINA	173.333
						1232.854
	AUSTRIA	2	16.667		AUSTRALIA	200.154
						1325.927
	BAHARAIN IS	24.266	109.242		AZERBAIJAN	5
						20.357
	BANGLADESH PR	1113.907	2605.522		BAHARAIN IS	5.5
						37.42
	BELARUS	0.2	7.882		BANGLADESH PR	763.391
						1761.583
	BELGIUM	346.32	5433.792		BELARUS	0.201
						8.057
	BELIZE	4.09	39.124		BELGIUM	103.5
						2100.086
	BHUTAN	80	18.32		BHUTAN	500
						111.635
	BRAZIL	7230.171	43948.91		BRAZIL	6064.821
						27687.865
	CAMBODIA	15.5	60.63		CAMBODIA	145
						101.149
	CAMEROON	110.1	255.353		CAMEROON	96.39
						309.211
	CANADA	52.265	1288.146		CANADA	20.781
						535.907
	CHILE	138.391	605.263		CHILE	83.964
						296.15
	CHINA P RP	764.136	6410.974		CHINA P RP	374.6
						3347.964
	COLOMBIA	474.736	1932.585		COLOMBIA	138.11
						407.223
	COSTA RICA	79.528	341.616		CONGO D. REP.	0.3
						1.497
	COTE D' IVOIRE	370.771	1016.226		CONGO P REP	0.015
						0.338
	CUBA	22.72	102.507		COSTA RICA	8.571
						60.88
	DOMINIC REP	107.454	488.128		COTE D' IVOIRE	32.01
						168.956

	ECUADOR	109.96	403.618		CYPRUS	2.4	23.09
	EGYPT A RP	827.252	3525.331		DENMARK	6.6	59.93
	EL SALVADOR	223.5	103.746		DJIBOUTI	48	129.689
	ERITREA	2.9	47.139		DOMINIC REP	87.648	291.372
	ETHIOPIA	293.301	1471.453		ECUADOR	30.1	151.181
	FRANCE	107.017	612.723		EGYPT A RP	111.433	429.095
	GEORGIA	31.856	118.629		EL SALVADOR	0.02	0.004
	GERMANY	52.066	2275.419		ETHIOPIA	293.646	1335.198
	GHANA	144.723	398.771		FRANCE	0.006	0.004
	GREECE	6.6	15.381		GERMANY	21.482	1305.317
	GUATEMALA	182.774	606.181		GHANA	36.879	107.639
	GUINEA	0.724	6.996		GUATEMALA	56.742	221.088
	HAITI	1.04	4.458		HONDURAS	21.965	82.878
	HONDURAS	5.504	109.748		HONG KONG	0.05	0.013
	HONG KONG	8.235	59		HUNGARY	0.1	3.835
	HUNGARY	5.01	48.539		INDONESIA	458.929	2139.641
	INDONESIA	1525.934	5042.235		IRAN	462.991	2282.754
	IRAN	801.887	4339.355		IRAQ	79.896	264.252
	IRAQ	75.934	233.327		ISRAEL	186.755	981.167
	IRELAND	0.5	42.792		ITALY	56.332	241.298
	ISRAEL	447.484	3064.386		JAMAICA	7	26.29
	ITALY	79.466	348.641		JAPAN	154.448	1288.631
	JAMAICA	6	23.845		JORDAN	60.909	484.75
	JAPAN	486.446	3644.908		KENYA	179.249	664.322
	JORDAN	162.113	976.309		KOREA RP	76.231	773.621
	KAZAKHSTAN	0.1	7.931		LATVIA	20	178.5
	KENYA	373.165	1435.985		LEBANON	23.56	123.422
	KOREA DP RP	13.43	159.917		LIBYA	30.179	53.375
	KOREA RP	326.228	3898.726		LITHUANIA	20	178.897
	LATVIA	11.928	35.79		MADAGASCAR	50.98	171.297
	LEBANON	50.6	205.603		MALAWI	119.85	341.278
	LIBYA	24.544	80.644		MALAYSIA	234.121	1015.608
	LITHUANIA	88	894.758		MALDIVES	0.34	2.68
	MADAGASCAR	243.556	735.963		MALI	60.01	181.753
	MALAWI	25.881	95.67		MAURITIUS	4.011	20.263
	MALAYSIA	279.502	1351.282		MEXICO	529.017	2112.555
	MALDIVES	0.657	4.419		MOROCCO	166.66	569.695
	MALI	101.895	326.89		MOZAMBIQUE	138.134	344.535
	MAURITANIA	1.3	5.104		MYANMAR	714.19	1685.224
	MAURITIUS	7.97	42.714		NEPAL	1608.793	2971.489
	MEXICO	1327.999	5377.798		NETHERLAND	326.466	2964.739
	MOLDOVA	17.538	92.201		NEW ZEALAND	14.27	104.138
	MOROCCO	668.382	1920.754		NICARAGUA	161.86	470.148

	MOZAMBIQUE	144.582	813.817		NIGERIA	2427.046	4858.492
	MYANMAR	440.193	1235.338		OMAN	44.44	170.93
	NEPAL	1624.892	3354.661		PAKISTAN IR	276.458	1344.719
	NETHERLAND	717.518	4338.994		PANAMA REPUBLIC	46.78	158.959
	NEW ZEALAND	98.706	626.429		PARAGUAY	313.4	1291.517
	NICARAGUA	320.167	963.669		PERU	40.979	344.379
	NIGERIA	1973.364	4474.083		PHILIPPINES	33.327	262.569
	OMAN	66.734	306.049		POLAND	45.36	148.115
	PAKISTAN IR	521.448	4405.741		PORTUGAL	19.82	194.185
	PANAMA REPUBLIC	61.826	178.312		PUERTO RICO	0.025	0.095
	PARAGUAY	629.45	2931.887		QATAR	43.594	178.942
	PERU	91.976	593.188		RUSSIA	105.39	422.543
	PHILIPPINES	103.063	472.847		RWANDA	28.5	69.088
	POLAND	83.457	298.94		SAUDI ARAB	56.066	337.005
	PORTUGAL	48.714	226.559		SENEGAL	36	99.537
	QATAR	18.57	122.408		SINGAPORE	43.207	269.799
	ROMANIA	0.05	0.673		SLOVENIA	0.1	4.302
	RUSSIA	296.484	1455.151		SOMALIA	35	88.996
	RWANDA	32.85	76.649		SOUTH AFRICA	358.3	1340.467
	SAUDI ARAB	524.714	1949.376		SPAIN	140.029	578.732
	SENEGAL	108.804	211		SRI LANKA DSR	69.718	250.336
	SERBIA	0.1	0.905		SUDAN	70.338	253.308
	SINGAPORE	68.117	245.04		TAIWAN	195.522	747.144
	SLOVENIA	10.55	113.22		TANZANIA REP	101.5	413.429
	SOMALIA	73	282.403		THAILAND	295.075	985.863
	SOUTH AFRICA	383.155	2202.918		TOGO	10	15.861
	SPAIN	207.12	960.509		TUNISIA	31.356	235.954
	SRI LANKA DSR	276.893	1596.572		TURKEY	319.609	1485.452
	SUDAN	78.739	318.769		U ARAB EMTS	10	28.319
	SURINAME	1.05	5.304		U K	113.209	688.4
	SYRIA	17.62	192.735		U S A	1365.437	10700.589
	TAIWAN	540.25	1806.856		UGANDA	94.624	340.664
	TANZANIA REP	349.902	1215.782		URUGUAY	86.792	307.635
	THAILAND	759.877	2749.766		UZBEKISTAN	8.35	47.074
	TRINIDAD	0.35	2.635		VENEZUELA	5	23.567
	TUNISIA	37.949	374.346		VIETNAM SOC REP	788.165	4463.995
	TURKEY	775.459	4301.419		YEMEN REPUBLIC	14.1	105.795
	U ARAB EMTS	81	347.609		ZAMBIA	47.192	139.224
	U K	1494.99	6721.233		ZIMBABWE	0.35	17.575
	U S A	4140.826	33230.029				

	UGANDA	196.213	675.13			
	UKRAINE	143.9	458.227			
	URUGUAY	443.71	1927.029			
	UZBEKISTAN	56.15	326.925			
	VENEZUELA	194.058	635.959			
	VIETNAM SOC REP	1603.412	9057.155			
	YEMEN REPubLC	21.744	97.225			
	ZAMBIA	83.508	240.642			
	ZIMBABWE	21.5	66.041			
	Product Total	41057.695	214054.064		Product Total	23113.581
OTHER INSECTICIDES						
	AFGHANISTAN	24.588	106.747		AFGHANISTAN	17.294
	ALBANIA	2.004	9.296		ALGERIA	2
	ALGERIA	26.48	126.763		ARGENTINA	332.101
	ARGENTINA	392.63	1203.606		AUSTRALIA	229.822
	AUSTRALIA	351.647	2859.418		BANGLADESH PR	1034.388
	BAHARAIN IS	3.5	10.199		BELGIUM	373.128
	BANGLADESH PR	2220.549	13014.893		BOLIVIA	3
	BELGIUM	821.642	10615.276		BRAZIL	4517.094
	BELIZE	18.72	116.427		BURKINA FASO	19
	BENIN	0.002	0.028		CAMEROON	20.6
	BHUTAN	11.402	60.451		CANADA	0.829
	BRAZIL	6757.147	47431.938		CHILE	80
	BURKINA FASO	152	552.971		CHINA P RP	97.465
	BURUNDI	3	44.627		COLOMBIA	323.52
	CAMEROON	20	27.452		COSTA RICA	56.506
	CANADA	34.127	1214.415		COTE D' IVOIRE	67.885
	CAPE VERDE IS	2	1.643		CROATIA	43.24
	CHILE	118.512	535.781		CUBA	1
	CHINA P RP	618.91	13143.114		DENMARK	0.087
	COLOMBIA	461.823	4375.843		DOMINIC REP	2
	COSTA RICA	25.343	191.99		ECUADOR	73.35
	COTE D' IVOIRE	269.988	1190.785		EGYPT A RP	219.866
	CUBA	3.251	49.198		EL SALVADOR	0.1
	DENMARK	19.278	79.938		ERITREA	0.2
	DJIBOUTI	24	83.698		ETHIOPIA	75.71
	DOMINIC REP	10.908	118.075		FRANCE	172.975
	ECUADOR	135.65	577.035		GABON	3
	EGYPT A RP	413.575	1800.894		GERMANY	360.951

	EL SALVADOR	0.15	3.752		GHANA	8.64	44.124
	ERITREA	1	14.074		GREECE	18.461	79.145
	ETHIOPIA	244.731	1017.154		GUATEMALA	39.45	232.893
	FIJI IS	15.855	80.262		GUYANA	3.04	11.77
	FRANCE	665.569	21151.752		HAITI	11	45.008
	GAMBIA	0.02	0.166		HONG KONG	14.057	86.556
	GEORGIA	6.22	49.858		INDONESIA	493.356	4101.166
	GERMANY	808.474	17834.473		IRAN	734.984	2700.831
	GHANA	227.618	861.049		IRAQ	45	143.876
	GREECE	8.536	28.978		IRELAND	0.5	43.07
	GUATEMALA	38.618	322.443		ISRAEL	95.313	486.165
	GUYANA	5.416	98.843		ITALY	159.841	932.554
	HAITI	5	24.969		JAPAN	88.835	2048.557
	HONDURAS	5.4	14.958		JORDAN	25.308	124.672
	HONG KONG	3.001	72.384		KENYA	95.09	260.722
	HUNGARY	0.001	0.003		KOREA RP	61.02	2907.528
	INDONESIA	479.743	7834.066		KUWAIT	2.177	32.567
	IRAN	853.95	3373.168		LEBANON	24.74	114.027
	IRAQ	29.5	112.235		LIBYA	11.104	94.509
	IRELAND	0.075	6.793		LITHUANIA	7.2	157.865
	ISRAEL	391.617	1846.717		MADAGASCAR	16.045	30.583
	ITALY	278.375	5765.493		MALAYSIA	240.653	1411.95
	JAMAICA	2	23.063		MALDIVES	12.273	81.039
	JAPAN	590.18	10685.166		MAURITIUS	8.1	45.607
	JORDAN	130.642	757.18		MEXICO	329.262	1735.806
	KENYA	494.198	1511.741		MOROCCO	306.47	877.352
	KOREA RP	109.995	2604.271		MOZAMBIQUE	5	14.993
	KUWAIT	0.013	0.006		MYANMAR	284.891	881.77
	LATVIA	1.3	31.578		NEPAL	812.347	521.742
	LEBANON	8.154	37.724		NETHERLAND	139.961	2974.139
	LIBYA	5.5	27.88		NEW ZEALAND	1.24	26.506
	LITHUANIA	9.405	230.508		NICARAGUA	6	22.288
	MADAGASCAR	43.14	160.34		NIGERIA	964.6	1871.164
	MALAWI	14.45	76.93		OMAN	6	49.547
	MALAYSIA	179.65	1293.367		PAKISTAN IR	159.146	518.85
	MALDIVES	14.772	106.001		PANAMA REPUBLIC	30.74	102.482
	MALI	126.73	348.298		PARAGUAY	0.1	2.861
	MAURITIUS	22.725	131.544		PERU	2.575	14.417
	MEXICO	834.529	4216.539		PHILIPPINES	91.091	1196.5
	MONTENEGRO	15.876	64.253		POLAND	7	7.53
	MOROCCO	476.098	1696.318		PORTUGAL	5	36.94
	MOZAMBIQUE	11.33	57.6		QATAR	1	9.09
	MYANMAR	372.117	1236.323		ROMANIA	5	8.982

	NEPAL	527.641	802.378		SAUDI ARAB	106.04	310.375
	NETHERLAND	385.878	11016.898		SENEGAL	128.075	360.086
	NETHERLANDANTIL	0.001	0.012		SEYCHELLES	0.1	0.157
	NEW ZEALAND	9.53	228.211		SIERRA LEONE	0.05	0.251
	NIGERIA	402.881	1236.958		SINGAPORE	90.275	1398.045
	OMAN	29	212.839		SOUTH AFRICA	99.067	491.503
	PAKISTAN IR	468.506	2251.191		SPAIN	22.843	195.653
	PANAMA REPUBLIC	3.5	10.152		SRI LANKA DSR	277.487	1105.137
	PARAGUAY	6.008	20.586		SUDAN	219.33	844.767
	PERU	20.23	299.71		SURINAME	3.032	18.636
	PHILIPPINES	193.261	2276.352		SYRIA	19.278	64.142
	POLAND	2.9	21.498		TAIWAN	266.535	1321.726
	PORTUGAL	3	22.072		TANZANIA REP	104.71	388.129
	QATAR	3.5	18.476		THAILAND	264.798	2751.71
	ROMANIA	17.05	16.299		TRINIDAD	1.754	15.328
	RUSSIA	356.183	1072.242		TUNISIA	36	103.978
	RWANDA	5.2	27.399		TURKEY	322.599	1127.055
	SAUDI ARAB	396.075	1221.009		U ARAB EMTS	22.07	74.122
	SENEGAL	13.339	45.59		U K	4.737	57.552
	SEYCHELLES	0.58	5.956		U S A	850.718	19493.754
	SINGAPORE	178.306	2197.943		UGANDA	362.078	1421.424
	SOMALIA	12	36.563		UKRAINE	29.22	205.405
	SOUTH AFRICA	239.106	3177.625		URUGUAY	19	70.558
	SPAIN	53.403	563.584		VENEZUELA	0	0.008
	SRI LANKA DSR	1124.443	2811.275		VIETNAM SOC REP	403.51	2994.56
	SUDAN	335.432	1494.128		YEMEN REPUBLIC	8	10.488
	SURINAME	7.041	49.288		ZAMBIA	42.171	124.081
	SWITZERLAND	0.009	0.076				
	TAIWAN	667.812	3638.559				
	TANZANIA REP	268.854	980.424				
	THAILAND	470.392	4248.065				
	TOGO	11.279	204.92				
	TRINIDAD	3.5	31.105				
	TUNISIA	99.088	469.276				
	TURKEY	528.807	1977.031				
	U ARAB EMTS	198.729	740.683				
	U K	38.921	410.166				
	U S A	2152.562	40467.699				
	UGANDA	492.25	1890.544				
	UKRAINE	129.08	314.231				

	URUGUAY	22.5	143.165			
	UZBEKISTAN	18.873	51.209			
	VENEZUELA	0.9	5.115			
	VIETNAM SOC REP	577.142	3642.869			
	YEMEN REPubLC	133.253	570.152			
	ZAMBIA	60.615	134.393			
	ZIMBABWE	3.12	18.387			
	Product Total	31146.029	276427.022		Product Total	17204.198 133076.187
COPPER-OXYCHLORIDE						
	BANGLADESH PR	24	62.081		AFGHANISTAN	22 45.502
	EGYPT A RP	190	422.584		EGYPT A RP	56 113.224
	INDONESIA	10	28.478		IRAN	170 351.298
	IRAN	379.49	801.641		LEBANON	4 14.14
	JORDAN	20	39.235		MALDIVES	0.005 0.04
	KENYA	4	17.577		MOROCCO	20 64.782
	MALAWI	2.5	10.488		MYANMAR	13 27.125
	MALDIVES	0.005	0.038		NEPAL	5.4 11.464
	MOROCCO	10	34.419		PAKISTAN IR	16 23.339
	MYANMAR	19	43.933		SOUTH AFRICA	5.5 14.125
	NEPAL	0.55	1.929		U K	20 39.824
	PAKISTAN IR	26	42.692		VIETNAM SOC REP	56 124.737
	PHILIPPINES	20	47.72			
	SINGAPORE	8	17.732			
	SYRIA	16	42.335			
	UGANDA	10.2	33.722			
	VIETNAM SOC REP	70	171.665			
	Product Total	809.745	1818.268		Product Total	387.905 829.599
2, 4-D						
	ARGENTINA	2421.6	3596.016		AFGHANISTAN	3 4.22
	AUSTRALIA	1169.21	1831.955		ARGENTINA	374 510.053
	BANGLADESH PR	15	29.702		AUSTRALIA	299.4 409.564
	BRAZIL	4212.34	7049.117		BRAZIL	2898 4336.963
	COLOMBIA	501.44	649.791		COLOMBIA	330.356 363.253
	COSTA RICA	378	508.194		COSTA RICA	300 333.725
	COTE D' IVOIRE	352.865	537.305		COTE D' IVOIRE	56.5 78.676
	DOMINIC REP	23.924	38.244		DOMINIC REP	37 38.77
	ECUADOR	40	63.54		ETHIOPIA	788.764 1193.453
	ETHIOPIA	686.64	1165.163		GUATEMALA	100 120.939
	GUATEMALA	120	161.485		IRAN	60.482 81.664
	GUINEA	54.68	75.878		IRAQ	21 29.715

	INDONESIA	72	108.906		KENYA	272	360.605
	IRAN	110.22	149.477		MALAWI	2	3.615
	IRAQ	0.03	0.091		MALAYSIA	54	72.464
	KENYA	84.568	134.319		MAURITIUS	16	19.828
	MALAYSIA	409.88	576.992		MEXICO	508	474.317
	MEXICO	990	1234.228		NEPAL	1.85	4.125
	MOROCCO	117.05	166.288		NIGERIA	92	122.211
	NEPAL	1.25	2.097		PHILIPPINES	36	40.59
	NIGERIA	108	143.077		SINGAPORE	46	41.278
	PERU	16	18.138		SOUTH AFRICA	118	163.454
	RUSSIA	108	155.477		SUDAN	110.08	190.455
	SINGAPORE	160	188.695		TAIWAN	54	76.007
	SOUTH AFRICA	199.962	282.611		TANZANIA REP	54.2	66.976
	SUDAN	196.99	382.083		THAILAND	1349.24	1644.809
	TAIWAN	60	104.523		TURKEY	474	554.043
	TANZANIA REP	134.71	170.368		U ARAB EMTS	54.08	81.506
	THAILAND	2173.342	2924.664		U S A	848	1318.398
	TURKEY	610	777.138		UGANDA	0.001	0.004
	U S A	2860.8	5032.619		URUGUAY	32	37.77
	UGANDA	16	23.793		VIETNAM SOC REP	405	486.17
	URUGUAY	66	83.741		ZAMBIA	1.008	2.271
	VIETNAM SOC REP	978.215	1404.171				
	Product Total	19448.716	29769.886		Product Total	9795.961	13261.89
ISOPROTURON							
	NETHERLAND	1086.8	3829.951		NETHERLAND	345.8	1259.373
	Product Total	1086.8	3829.951		Product Total	345.8	1259.373
ALUMINIUM PHOSPHIDE							
	AFGHANISTAN	9.72	27.876		ALBANIA	4.509	27.685
	ALBANIA	2.504	13.593		AUSTRALIA	0.072	0.09
	BANGLADESH PR	22.298	58.687		BANGLADESH PR	3.55	4.112
	MYANMAR	11.002	42.231		ETHIOPIA	25.16	108.262
	NEPAL	6.507	25.06		NEPAL	7.613	32.744
	QATAR	2	7.26		TAIWAN	1.008	5.183
	TAIWAN	2.016	10.494				
	U K	1	5.096				
	UGANDA	7.288	36.003				
	Product Total	64.335	226.301		Product Total	41.912	178.077
METHYL BROMIDE							
	AUSTRALIA	144	485.648		AUSTRALIA	144	479.414
	EGYPT A RP	102.5	359.613		DJIBOUTI	10	25.414
	INDONESIA	96	301.107		EGYPT A RP	120	416.449

	KOREA RP	0.6	7.799		MALAYSIA	24	98.812
	LIBYA	192	657.803		NEW ZEALAND	108	381.848
	MALAYSIA	36	145.476		OMAN	1	8.926
	NEW ZEALAND	252	973.248		PAKISTAN IR	6.013	24.895
	PHILIPPINES	24.48	106.321		VIETNAM SOC REP	295.728	1025.194
	SINGAPORE	10	40.063				
	VIETNAM SOC REP	416.703	1563.539				
	Product Total	1274.283	4640.619		Product Total	708.741	2460.952
OTHER HERBICIDES-ANTI SPROUTING PRODUCTS							
	ALGERIA	4	47.136		AFGHANISTAN	7.008	9.629
	ARGENTINA	714.72	7199.903		ARGENTINA	747.34	6639.326
	AUSTRALIA	1317.84	22609.109		AUSTRALIA	884.48	6499.162
	BANGLADESH PR	735.205	2239.81		BANGLADESH PR	228.8	734.76
	BELGIUM	155.052	2150.822		BELARUS	0.05	0.724
	BHUTAN	236.5	247.312		BELGIUM	201.5	2989.598
	BRAZIL	495.046	6974.557		BENIN	15	31.872
	CANADA	11.96	319.495		BRAZIL	928.92	10750.032
	CHILE	20	147.807		CAMEROON	0.015	0.04
	CHINA P RP	156.575	1138.1		CHILE	60	99.625
	COLOMBIA	1166.502	2866.618		CHINA P RP	143.99	980.574
	COSTA RICA	158.7	443.742		COLOMBIA	559.57	1206.156
	COTE D' IVOIRE	212.87	583.81		COSTA RICA	111.25	456.288
	DENMARK	0.094	4.482		COTE D' IVOIRE	47.638	151.007
	DOMINIC REP	27	88.329		DOMINIC REP	17.97	24.304
	ECUADOR	0.4	2.571		ECUADOR	0.4	2.531
	EGYPT A RP	202.846	677.457		EGYPT A RP	207.062	568.234
	ETHIOPIA	242.928	553.957		ETHIOPIA	44.044	128.638
	FRANCE	1654.482	13914.666		FRANCE	1373.956	8747.676
	GERMANY	624.145	8477.078		GERMANY	315.127	2977.572
	GREECE	4	10.711		GHANA	14	39.172
	GUATEMALA	0.01	0.02		GUINEA	47.33	154.758
	GUINEA	46.5	119.58		INDONESIA	45.41	749.666
	INDONESIA	204.595	2208.133		IRAN	17	107.547
	IRAN	153.511	838.549		IRAQ	29.28	160.705
	IRAQ	2	5.418		ISRAEL	1013.6	5558.338
	IRELAND	52.8	588.413		ITALY	192	1927.489
	ISRAEL	1839.4	10778.806		JAPAN	855.4	19495.253
	ITALY	61.466	643.23		JORDAN	14.5	35.536
	JAPAN	1144.826	25986.946		KENYA	61.578	153.51
	JORDAN	3.7	14.138		KOREA RP	71.7	867.314
	KENYA	91.548	175.642		MADAGASCAR	16	18.003

	KOREA RP	390	5663.284		MALAYSIA	106.52	370.876
	KUWAIT	1	99.338		MEXICO	573	2306.202
	LEBANON	8	39.037		MOROCCO	115.896	211.512
	MALAYSIA	135.76	575.138		MYANMAR	124.8	210.323
	MALDIVES	0.101	0.608		NEPAL	0.23	1.6
	MEXICO	126.025	487.172		NETHERLAND	159.6	1106.845
	MOLDOVA	7.7	35.937		NEW ZEALAND	13.86	58.173
	MOROCCO	286.26	441.111		NIGERIA	343.5	910.976
	MYANMAR	254.5	202.394		PAKISTAN IR	124.996	147.644
	NEPAL	5.43	13.515		PANAMA REPUBLIC	46.726	209.311
	NETHERLAND	1163.7	4085.766		PARAGUAY	67	71.227
	NEW ZEALAND	20	113.965		PHILIPPINES	48.992	95.187
	NICARAGUA	10	41.42		POLAND	20	11.15
	NIGERIA	93.5	186.459		PUERTO RICO	336	19538.893
	PAKISTAN IR	301.546	1636.94		RUSSIA	57.6	317.173
	PANAMA REPUBLIC	31	146.252		SENEGAL	13.4	100.64
	PARAGUAY	79.87	393.446		SINGAPORE	196.296	1482.929
	PERU	1	3.576		SOUTH AFRICA	942.54	5750.951
	PHILIPPINES	291.842	918.912		SPAIN	58	457.953
	POLAND	95	52.546		SRI LANKA DSR	146.7	989.843
	PUERTO RICO	360.8	21369.826		SUDAN	172.28	397.974
	RUSSIA	129.8	985.985		SYRIA	20	15.846
	SENEGAL	17.642	47.847		TAIWAN	58.757	274.876
	SINGAPORE	807.2	11380.298		TANZANIA REP	9.1	18.919
	SLOVENIA	5	14.214		THAILAND	585.97	785.182
	SOUTH AFRICA	1297.504	9222.602		TOGO	1.2	2.511
	SPAIN	36.769	233.393		TUNISIA	22	53.351
	SRI LANKA DSR	305.251	2254.193		TURKEY	143.54	612.799
	SUDAN	123.132	387.377		U ARAB EMTS	84.3	352.662
	SWITZERLAND	34.7	281.218		U K	818.3	4080.717
	TAIWAN	102.42	619.613		U S A	5585.632	40248.624
	TANZANIA REP	16.5	56.336		URUGUAY	21	46.389
	THAILAND	482.715	1183.151		VIETNAM SOC REP	636.39	1126.087
	TUNISIA	6	19.826		ZAMBIA	2	1.316
	TURKEY	65.3	359.137				
	U ARAB EMTS	129.96	659.456				
	U K	1229.034	4580.053				
	U S A	11602.494	83787.988				
	UGANDA	9	7.583				

	UKRAINE	17.96	103.081			
	URUGUAY	16	21.937			
	VENEZUELA	134.86	635.7			
	VIETNAM SOC REP	374.221	674.758			
	ZAMBIA	33	103.068			
	Product Total	32380.717	266181.802		Product Total	19928.043
OTHER FUNGICIDE NES						
	ALBANIA	21.19	68.31		ALBANIA	13.712
	ALGERIA	93.77	201.606		ALGERIA	25.704
	ANGOLA	21.65	42.684		ANGOLA	32.55
	ARGENTINA	668	1339.317		ARGENTINA	900.42
	AUSTRALIA	3774.225	8654.469		AUSTRALIA	3751.64
	AUSTRIA	74.24	240.73		AUSTRIA	25.6
	BANGLADESH PR	9741.708	11022.376		AZERBAIJAN	1
	BELGIUM	4981	18634.759		BANGLADESH PR	4051.207
	BELIZE	24.78	131.508		BELGIUM	1361.25
	BHUTAN	4.88	11.998		BOLIVIA	14.4
	BRAZIL	19811.435	41768.114		BOSNIA-HRZGOVIN	12
	BULGARIA	438.6	979.201		BRAZIL	20989.386
	CAMEROON	792.89	1645.693		BULGARIA	252
	CANADA	706.1	1362.732		BURUNDI	60.48
	CHILE	211.26	413.078		CAMEROON	240.56
	CHINA P RP	4785.027	10041.029		CANADA	241.92
	COLOMBIA	5423.814	11813.007		CHILE	317.5
	CONGO D. REP.	1.15	12.097		CHINA P RP	1155.215
	COSTA RICA	5238	7451.987		COLOMBIA	2378.517
	COTE D' IVOIRE	8	13.771		CONGO P REP	2
	CROATIA	327.528	338.43		COSTA RICA	3017.78
	CUBA	1.32	27.601		COTE D' IVOIRE	56.116
	CYPRUS	35	86.153		CYPRUS	37.06
	DJIBOUTI	14	32.138		DOMINIC REP	1.008
	DOMINIC REP	9.208	23.685		ECUADOR	342.287
	ECUADOR	546.67	1560.659		EGYPT A RP	256.68
	EGYPT A RP	710.022	1358.805		ETHIOPIA	148.205
	ESTONIA	12.8	29.995		FRANCE	3415.8
	ETHIOPIA	417.21	1081.933		GABON	16
	FINLAND	25.6	59.996		GERMANY	253.064
	FRANCE	8401.604	19016.424		GHANA	12
	GEORGIA	56.072	118.623		GREECE	112.7
	GERMANY	577.65	2773.303		GUATEMALA	218.6
	GHANA	20	40.032		GUINEA	14.4

	GREECE	447.08	963.079		GUYANA	0.15	0.651
	GUATEMALA	1140.94	2133.805		HAITI	64.68	137.616
	GUINEA	20.5	27.666		HONDURAS	42	79.4
	HUNGARY	315.407	380.446		INDONESIA	2464.08	5077.644
	INDONESIA	4810.55	10546.69		IRAN	358.844	779.177
	IRAN	384.1	982.477		IRAQ	5	11.73
	IRELAND	63.888	173.807		ISRAEL	185.825	299.805
	ISRAEL	614.13	1196.693		ITALY	743.855	1733.015
	ITALY	4773.176	9754.015		JAMAICA	16.532	38.616
	JAMAICA	27.775	64.739		JAPAN	95.094	3086.497
	JAPAN	359.36	7941.497		JORDAN	10.1	32.421
	JORDAN	214.267	398.11		KENYA	559.171	1283.203
	KENYA	647.185	1365.337		KOREA RP	51.4	260.29
	KOREA RP	413.045	2447.945		LEBANON	12	7.378
	LEBANON	27.916	62.929		LIBYA	13.6	48.409
	LIBYA	13.64	49.209		MACEDONIA	14	30.143
	LITHUANIA	49.68	119.106		MADAGASCAR	38.78	79.921
	MACEDONIA	83.76	115.762		MALAWI	52.9	104.479
	MADAGASCAR	83.03	177.979		MALAYSIA	350.116	1002.187
	MALAWI	7.39	18.828		MALDIVES	0.208	0.631
	MALAYSIA	965.632	2649.06		MAURITIUS	6.21	14.11
	MALDIVES	0.064	0.207		MEXICO	1771.7	2672.637
	MAURITIUS	24.9	60.046		MOROCCO	1598.11	1907.354
	MEXICO	2835.14	4643.342		MOZAMBIQUE	10.85	21.445
	MOLDOVA	41.04	61.331		MYANMAR	667.31	955.24
	MOROCCO	2850.129	3130.538		NEPAL	99.318	256.901
	MOZAMBIQUE	43.502	93.412		NETHERLAND	208	409.516
	MYANMAR	547.07	956.528		NEW ZEALAND	501.66	918.376
	NEPAL	80.986	268.305		NICARAGUA	13.76	30.781
	NETHERLAND	5988.3	8060.603		NIGERIA	48.44	98.288
	NEW ZEALAND	642.51	932.454		OMAN	3	13.349
	NICARAGUA	6	15.537		PAKISTAN IR	94.92	209.96
	NIGERIA	66.944	133.168		PARAGUAY	1584.4	3406.317
	PAKISTAN IR	192.846	560.897		PERU	342.499	556.974
	PANAMA REPUBLIC	1	8.41		PHILIPPINES	1029.515	2516.245
	PARAGUAY	536.439	1277.276		POLAND	75	161.235
	PERU	361.092	645.509		PORTUGAL	588.7	1365.555
	PHILIPPINES	2636.125	5774.858		ROMANIA	92.06	117.442
	POLAND	539	1777.761		RUSSIA	56	75.648
	PORTUGAL	1104.8	2287.151		RWANDA	177	296.668
	ROMANIA	345.66	344.28		SAUDI ARAB	58.16	126.63
	RUSSIA	380.2	672.256		SENEGAL	4.12	31.41

	RWANDA	764.3	1260.146		SINGAPORE	33.703	114.657
	SAUDI ARAB	94.63	226.171		SLOVENIA	57.5	602.152
	SENEGAL	3.508	27.712		SOUTH AFRICA	2723.805	4778.188
	SERBIA	78.3	113.958		SPAIN	1167.55	2568.62
	SINGAPORE	81.08	385.407		SRI LANKA DSR	297.825	600.964
	SLOVENIA	277.74	423.043		SUDAN	19.32	33.984
	SOUTH AFRICA	2441.712	4460.029		SWITZERLAND	114.87	1029.287
	SPAIN	1867.4	4229.82		SYRIA	16.8	37.305
	SRI LANKA DSR	592.753	1288.587		TAIWAN	293.91	674.552
	SUDAN	41	93.439		TANZANIA REP	4911.82	1479.667
	SWITZERLAND	149.99	1268.355		THAILAND	1143.608	3427.792
	SYRIA	64.32	84.777		TUNISIA	6.5	12.459
	TAIWAN	445.866	1248.645		TURKEY	816.4	1173.123
	TANZANIA REP	793	1180.466		U ARAB EMTS	11.02	38.875
	THAILAND	2882.605	7874.528		U K	115.951	1367.981
	TUNISIA	87.3	214.223		U S A	2499.211	5869.888
	TURKEY	1965.4	3395.328		UGANDA	1196.31	2227.802
	U ARAB EMTS	6.1	21.374		UKRAINE	33.98	131.78
	U K	454.306	853.872		UNSPECIFIED	25	142.351
	U S A	7475.339	15455.937		URUGUAY	140.4	246.328
	UGANDA	2822.2	5102.336		VIETNAM SOC REP	1035.685	3428.15
	URUGUAY	285	4975.953		YEMEN REPUBLIC	9.6	9.506
	UZBEKISTAN	14	56.275		ZAMBIA	40.67	111.295
	VENEZUELA	285.6	693.877				
	VIETNAM SOC REP	2197.17	8489.366				
	ZAMBIA	135.775	308.984				
	ZIMBABWE	25.28	83.109				
	Product Total	128994.275	279485.009		Product Total	74549.266	152179.274
					FENTHION		
					BANGLADESH PR	10	17.883
					Product Total	10	17.883
Source: Emports data have been received from Directorate General of Commercial Intelligence & Statistics, Ministry of Commerce & Industry, and Kolkata. dgciskol@nic.							
* Extent available information							
