

- (b) the subjects included in the allied sector;
- (c) the investment in agriculture and allied sector, sector-wise; and
- (d) the amount invested in Telangana during the above period?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND FARMERS WELFARE (SHRI SUDARSHAN BHAGAT): (a) As per estimates released on 29.01.2016 by the Central Statistics Office (CSO), Ministry of Statistics and Programme Implementation (MOSPI), the details of Public and Private Investment in terms of Gross Capital Formation (GCF) in agriculture and allied sector (at 2011-12 prices) during 2014-15 (latest available) are as under:

(₹ in crore)

Year	Investment (GCF) in Agriculture and Allied Sector		
	Public	Private	Total
2014-15	36061	220434	256495

Estimates of investment in agriculture and allied sector for 2015-16 are due for release in January 2017.

(b) The subjects included in agriculture and allied sector are crop (including horticulture), livestock, forestry and logging and fishery and aquaculture.

(c) Details of sub-sector-wise estimates of investment in terms of Gross Capital Formation (GCF) in agriculture and allied sector (at 2011-12 prices) during 2014-15 (latest available) are as under:

(₹ in crore)

Year	Investment				Total
	Crops (incl. horticulture)	Livestock	Forestry and logging	Fishery and Aquaculture	
2014-15	211861	25868	2338	16429	256496

Source: Central Statistics Office (CSO), Ministry of Statistics and Programme Implementation (MOSPI)

(d) State-wise estimates of investment in agriculture and allied sector are not compiled by the Central Statistics Office.

Regulation of excessive use of pesticides

576. SHRI DEVENDER GOUD T.: Will the Minister of AGRICULTURE AND FARMERS WELFARE be pleased to state:

- (a) the details of pesticides being used in the country;

(b) the regulatory mechanism that the country has to regulate the excessive use of pesticides;

(c) the details of agencies that are working to control use of pesticides and maintain residuary levels of pesticides in various foods;

(d) whether these agencies are working under different Ministries thereby causing problem in co-ordination; and

(e) if not, the coordination mechanism that these agencies have and to what extent they have succeeded in containing excessive use of pesticides in the country?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND FARMERS WELFARE (SHRI SUDARSHAN BHAGAT): (a) There are 272 technical pesticides registered under section 9(3) of the Insecticides Act, 1968. The list is given in the Statement (*See* below).

(b) The Insecticides Act, 1968 has been enacted to regulate the import, manufacture, sale, transport, distribution and use of insecticides with a view to prevent risk to human beings or animals, and for matters connected therewith. As per provision under Section 5 of the Act, the Government has constituted a Registration Committee (RC). This Committee registers pesticides after considering the data on different parameters such as chemistry, bio-efficacy, toxicity, packaging and processing to ensure efficacy and safety to human beings and animals. If pesticides are used as per approved label claims they do not cause any hazard to human beings, live-stock etc.

(c) Implementation of the Insecticides Act, 1968 is the responsibility of both, Central and State Governments. The Central Government is responsible for registration of insecticides whereas, the State Governments are responsible for enforcement of the provisions relating to manufacture, sale, transport, distribution and use of insecticides. The Central Government and State Governments are jointly responsible for quality control.

Further, the Food Safety and Standards Authority of India (FSSAI) fixes Maximum Residues Limits (MRLs) of specific crops. No pesticide is registered without fixation of 'Maximum Residue Limit' (MRL) for the crop on which it is intended to be used. In addition, the Central Government has started a Central sector scheme, "Monitoring of Pesticide Residues at National Level" (MPRNL) under which samples of food commodities are collected and analysed for the presence of pesticide residues.

(d) and (e) Zonal/National Conferences are held annually wherein the State Agriculture authorities are sensitized on judicious use of pesticide and to enforce regulatory provisions with regard to pesticides. In addition, regular meetings are organized by FSSAI to discuss. These are related matters.

Statement

*Insecticides/Pesticides Registered under section 9(3) of the
Insecticides Act, 1968 for use in the country*

Sl. No.	Name of the Pesticide
1.	2,4-D Amine salt
2.	2,4-Dichlorophenoxy Acetic Acid
3.	Acephate
4.	Acetamiprid
5.	Alachlor
6.	Allethrin
7.	Alphacypermethrin
8.	Alphanaphthyl Acetic Acid
9.	Aluminium Phosphide
10.	Ametroctradin
11.	Ametryn
12.	<i>Ampelomyces Quisqualis</i>
13.	Anilophos
14.	Atrazine
15.	Aureofungin
16.	Azadirachtin (Neem Products)
17.	Azimsulfuron
18.	Azoxystrobin
19.	<i>Bacillus sphaericus</i>
20.	<i>Bacillus thuringiensis</i> var. <i>galleriae</i>
21.	<i>Bacillus thuringiensis</i> var. <i>israelensis</i>
22.	<i>Bacillus thuringiensis</i> var. <i>kurstaki</i>
23.	Barium Carbonate
24.	Beauveria Bassiana
25.	Bendiocarb
26.	Benfuracarb
27.	Benomyl
28.	Bensulfuron Methyl

Sl. No.	Name of the Pesticide
29.	Bentazone
30.	Beta Cyfluthrin
31.	Bifenazate
32.	Bifenthrin
33.	Bispyribac Sodium
34.	Bitertanol
35.	Boscalid+Pyraclostrobin
36.	Bromadiolone
37.	Buprofezin
38.	Butachlor
39.	Captan
40.	Carbaryl
41.	Carbendazim
42.	Carbofuran
43.	Carbosulfan
44.	Carboxin
45.	Carfentrazone Ethyl
46.	Carfentrazone Ethyl+Chloropropionic Acid
47.	Carpropamid
48.	Cartap Hydrochloride
49.	Chlorantraniliprole
50.	Chlorfenopyr
51.	Chlorfluazuron
52.	Chlorimuron Ethyl
53.	Chlormequat Chloride (CCC)
54.	Chlorothalonil
55.	Chlorpropham
56.	Chlorpyrifos
57.	Chlorpyrifos Methyl
58.	Chlothianidin
59.	Chromafenozide

Sl. No.	Name of the Pesticide
60.	Cinmethylen
61.	Clodinafop-propargyl
62.	Clodinafop-propargyl+Sodium Acifluorfen
63.	Clomazone
64.	Clothianidin
65.	Copper Hydroxide
66.	Copper Oxychloride
67.	Copper Sulphate
68.	Coumachlor
69.	Coumatetralyl
70.	Cuprous Oxide
71.	Cyantraniliprole
72.	Cyazofamid
73.	Cyflumetofen
74.	Cyfluthrin
75.	Cyhalofop-butyl
76.	Cymoxanil
77.	Cypermethrin
78.	Cyphenothrin
79.	Dazomet
80.	Deltamethrin (Decamethrin)
81.	Diafenthiuron
82.	Diazinon
83.	Dichloro Diphenyl Trichloroethane (DDT)
84.	Dichloropropene and Dichloropropane Mixture (DD Mixture)
85.	Dichlorvos (DDVP)
86.	Diclofop-Methyl
87.	Diclosulam
88.	Dicofol
89.	Difenoconazole
90.	Diflubenzuron

Sl. No.	Name of the Pesticide
91.	Dimethoate
92.	Dimethomorph
93.	Dinocap
94.	Dinotefuron
95.	Dithianon
96.	Diuron
97.	Dodine
98.	D-trans Allethrin
99.	Edifenphos
100.	Emamectin Benzoate
101.	Endosulfan*
102.	Epoxyconazole
103.	Ethephon
104.	Ethion
105.	Ethiprole
106.	Ethofenprox (Etofenprox)
107.	Ethoxysulfuron
108.	Ethylene Dichloride and Carbon Tetrachloride Mixture (EDCT Mixture 3:1)
109.	Etoxazole(FI)
110.	Famoxadone
111.	Fenamidone
112.	Fenarimol
113.	Fenazaquin
114.	Fenitrothion
115.	Fenobucarb (BPMC)
116.	Fenoxaprop-p-Ethyl
117.	Fenpropathrin
118.	Fenpyroximate
119.	Fenthion
120.	Fenvalerate

Sl. No.	Name of the Pesticide
121.	Fipronil
122.	Flonicamid
123.	Fluazifop-p-butyl
124.	Flubendiamide
125.	Fluchloralin
126.	Flufenacet
127.	Flufenoxuron
128.	Flufenzine
129.	Fluopicolide
130.	Fluopyram and its Metabolite
131.	Flusilazole
132.	Fluvalinate
133.	Fomesafen
134.	Forchlorfenuron
135.	Fosetyl-Al
136.	Gibberellic Acid
137.	Glufosinate Ammonium
138.	Glyphosate
139.	Helosulfuron Methyl
140.	Hexaconazole
141.	Hexazinone
142.	Hexythiazox
143.	Hydrogen Cyanamide
144.	Imazamox
145.	Imazethapyr
146.	Imidacloprid
147.	Imiprothrin
148.	Indoxacarb
149.	Iprobenfos (Kitazin)
150.	Iprodione
151.	Iprovalicarb

Sl. No.	Name of the Pesticide
152.	Isoprothiolane
153.	Isoproturon
154.	Kasugamycin
155.	Kresoxim Methyl
156.	Lambdacyhalothrin
157.	Lime Sulphur
158.	Linuron
159.	Lufenuron
160.	Magnesium Phosphide Plates
161.	Malathion
162.	Mancozeb
163.	Mandipropamid
164.	Mepiquate Chloride
165.	Mesosulfuron Methyl + Iodosulfuron Methyl Sodium
166.	Metaflumizone
167.	Metalaxyl
168.	Metalaxyl-M
169.	Metaldehyde
170.	<i>Metarhizium Anisopliae</i>
171.	Methabenzthiazuron
172.	Methomyl
173.	Methoxy Ethyl Mercury Chloride (MEMC)
174.	Methyl Bromide
175.	Methyl Chlorophenoxy Acetic Acid (MCPA)
176.	Methyl Parathion
177.	Metiram
178.	Metofluthrin
179.	Metolachlor
180.	Metribuzin
181.	Metsulfuron Methyl
182.	Milbemectin

Sl. No.	Name of the Pesticide
183.	Monocrotophos
184.	Myclobutanil
185.	Novaluron
186.	Nuclear Polyhydrosis Virus of <i>Helicoverpa Armigera</i>
187.	Nuclear Polyhydrosis Virus of <i>Spodoptera litura</i>
188.	Orthosulfamuron
189.	Oxadiargyl
190.	Oxadiazon
191.	Oxycarboxin
192.	Oxydemeton-Methyl
193.	Oxyfluorfen
194.	Paclobutrazol
195.	Paraquat Dichloride
196.	Penconazole
197.	Pencycuron
198.	Pendimethalin
199.	Penoxsulam
200.	Permethrin
201.	Phenthoate
202.	Phorate
203.	Phosalone
204.	Phosphamidon
205.	Picoxystrobin
206.	Pinoxaden
207.	Prallethrin
208.	Pretilachlor
209.	Primiphos-methyl
210.	Profenophos
211.	Prohexadione Calcium
212.	Propanil
213.	Propaquizafop

Sl. No.	Name of the Pesticide
214.	Propergite
215.	Propetamphos
216.	Propiconazole
217.	Propineb
218.	Propoxur
219.	<i>Pseudomonas Fluorescens</i>
220.	Pymetrozin (FI)
221.	Pyraclostrobin
222.	Pyraclostrobin+Epoxiconazole
223.	Pyrazosulfuron Ethyl
224.	Pyrethrin (Pyrethrum)
225.	Pyridalyl
226.	Pyriproxyfen
227.	Pyriithiobac Sodium
228.	Quinalphos
229.	Quizalofop Ethyl
230.	Quizalofop-P-Tefuryl
231.	S-bioallethrin
232.	Sodium Cyanide
233.	Sodium Paranitro Phinolate
234.	Spinetoram
235.	Spinosad
236.	Spiromesifen
237.	Streptomycin + Tetracycline
238.	Sulfosulfuron
239.	Sulphur
240.	Tebuconazole
241.	Tembotrione
242.	Temephos
243.	Tetraconazole (FI)

Sl. No.	Name of the Pesticide
244.	Thiacloprid
245.	Thifluzamide
246.	Thiobencarb (Benthiocarb)
247.	Thiocyclam Hydrogen Oxalate
248.	Thiodicarb
249.	Thiomethoxain
250.	Thiometon
251.	Thiophanate-Methyl
252.	Thiram
253.	Tolfenpyrad
254.	Topramezone
255.	Transfluthrin
256.	Triacntanol
257.	Triadimefon
258.	Triallate
259.	Triasulfuron
260.	Triazophos
261.	Trichlorfon
262.	<i>Trichoderma Harzianum</i>
263.	<i>Trichoderma Viride</i>
264.	Tricyclazole
265.	Tridemorph
266.	Trifloxistrobin
267.	Trifluralin
268.	Validamycin
269.	<i>Verticillium Lecanii</i>
270.	Zinc Phosphide
271.	Zineb
272.	Ziram

*:- Endosulfan has been banned by the Supreme Court of India w.e.f. 13.05.2011 for production, use and sale, all over India, till further orders *vide ad-interim* order in the Writ Petition (Civil) No. 213 of 2011.