(d) Question does not arise.

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Ban on the use of Chemicals insecticides by **Western Countries**

1558. SHRI SOM PAL: Will the Minister of AGRICULTURE be pleased to state:

- (a) whether it is a fact that the developed countries of the west have banned the use of a number of chemicals insecticides and pesticides in their countries;
- (b) if so, what are the names of such chemicals;
- (c) whether it is a fcat that many of these axe, still in use in our country, and because of these the incidence of toxic residues in our soils, water sources, vegetation, edible items is increasing beyond prescribed international limits; and
- (d) if so, what are the details thereof and what is being done to overcome the problem?

THE MINISTER OF STATE IN THE DEPARTMENT OF, AGRICULTURE AND CO-OPERATION IN THE MINISTRY OF AGRICULTURE (SHRI S. KRISHNA KUMAR) : (a) Yes, Sir.

- (b) The Statement is enclosed. [see below]
- (c) and (d) The list of pesticides permitted by different countries is, often at variance because of different agro-climatic conditions and pest problems. The Registration Committee constituted under the Insecticides Act. 1968 evaluates the comprehensive data on toxicity, bio-efficacy including residues of persticides and registers it only when it is found safe. When the recommended pesticides are used as per the Good Agricultural Practices regarding their doses, time

and method of application etc., their residue may not occur beyond the prescribed tole-; rence limits.

The survey conducted by the Directorate 'General of Health Services and Indian

Council of Medical Research indicate the presence of HCH and DDT in various articles of food and in a few cases beyond the permissible limit laid down under PFA Rules. The State/UT Governments have been alerted to be more vigilant and ensure using the recommended pesticides as per the Good Agricultural Practices to overcome such problems.

to Questions

Statement

LIST OF CHEMICAL INSECTICIDES AND PESTICIDES THE USE OF WHICH HAVE BEEN BANNED IN SOME OF THE DEVELOPED COUNTRIES

SI. Name of Chemical Pesticides No

- alpha-HCH 1
- alpha-Naphthylthiourea (ANTU)
- 3 beta-HCH
- delta-HCH
- 5 gamma-HCH
- r-Dichloi obenzene
- 7 Acetylene
- 8 Acrylonitrile
- Alachlor
- 10 Aldicarb
- Aldrin 11
- Aluminium Phosphide 12
- Aminocarb 13
- 14 Amitraz
- 15 Amitrole Anabasine 16
- 17 Anabasine sulfate
- 18 Aramite
- 19 Aresenic acid and arsenates
- 20 Arsenic and arsenic compounds
- 21 Arsenious acid and arsenites
- 22 Arsenious acid, sodium salt
- 23 Azinphos-ethyl
- 24 Azinphos-methyl
- Azobenzene 25
- 26 Azocyclotin
- 27 Benomvl
- Bifenthrin 28
- 29 Bromide
- 30 Binapacryl
- 31 Bromocyclen
- 32 Bromomethane
- 33 Cadmium and cadmium compounds
- 34 Calcium arsenate
- 35 Calcium cyanide

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SI. No.	Name of Chemical Pesticides	SI. No.	Name of Chemical Pesticides		
36	Camphechlor	86	Dinoterb-acetate		
37	Captan	87	Dioxacarb		
38	Carbaryl	88	Disulfoton		
39	Carbofuran	89	Diuron		
40	Carbon disulfide	90	Drazoxolon		
41	Carbon tetrachloride	91	DDB		
42	Carbophenothion	92	DDD		
43	Carbosulfan	93	DDE		
44	Chloralose	94	DDT		
45	Chloranil	95	DNOC		
46	Chlorbicyclen	96	Endosulfau		
47	Chlordane	97	Endothal-sodium		
48	Chlordecone	1	Endothion		
49	Chlordimeform	1	Endrin		
50	Chlorfenethol	1	Ethoprosfos		
51	Chlorfenson		Ethylene dibiomide (EDB)		
52	Chlorfensulphide	102	Ethylene dichloride		
53	Chlorinol		Ethylene oxide		
	Chlorobenzilate		Ethylenebisdithiocarbamic acid		
54			Ethylformate		
55	Chloroform		•		
56	Chlorophicrin		Ethylmercury chloride EPN		
57	Chloropropylate		Penerimol		
58	Chlorthal-dimethyl	1			
59	Chlorthiophos		Penezophor		
60	Copper acetaorsenite		Pespropathrin		
61	Copper arsenate (basic)	1	Fenson '		
62	Coroxon	1	Fensulfothion		
63	Crimidine		Fentin hydroxide		
64	Cyanide		Fluorbenside		
65	Cycloheximide		Fluoroacetamide		
66	Cyhexatin	1	Fluoroacetic acid		
67	Demephion	1	Flutriafol		
68	Demeton (O and S)		Folpet		
69	Demeton-O-Methyl		Fomesafen		
70	Demeton-S-Methyl	1	Fonofos		
71	Dialifos		Fumiron (With mercury)		
72	Diallate		Granosan M.		
73	Dichlofenthion Dichlofenthion	123			
74	Dicofol	124	F		
75	Dicrotophos	125	Heptachtor epoxide		
76	Dieldrin		Hexachlorobenzene		
77	Dienochlor Diedocheille et el	127			
78	Diethylstilbestrol		Hydrogen cyanide		
79	Difenzoquatmethy1 sulfate		HCH-mixed isomers		
80	Dimefox	130			
81	Dimethoate	131			
82	Dinoseb		Isodrin		
83	Dinoseb (Amine)	1	Kadethrin		
84	Dinoseb-acetate		Kelevan		
85	Dinoterb	105	Lead and lead compounds		

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SI. Name of Chemical Pesticides	SI. Name of Chemerall Pesticides
No.	No.
136 Lead arsenate	187 Phosphamidon
137 Lead arsenite	188 Phosphine
138 Leptophos	189 Picloram
139 Linuron	190 Polychlorinated biphenyis (PCBs)
140 Malathion	191 Polychlorinated triphenyls (PCTs)
141 Maleic hydrazide	192 Potasan
142 Maneb	193 Potassium arsenite
143 Mecarbam	194 Pretilachlor
144 Mecoprop sodium salt	195 Prochloraz
145 Medinoterb acetate	196 Pronamide
146 Melipax	197 Propham
147 Menazon	198 Protein
148 Mephosfolan	199 Prothoate
149 Mercuric chloride	200 Pyrinuron
150 Mercuric oxide	201 Quintozene
151 MercurDus chloride	202 Rovral TS
152 Mercury and mercury compounds	203 Safrole
153 Metham sodium	204 Schradan
154 Methamidofos	205 Scilliroside
155 Methanaearsonic acid	206 Selenium and seleniium compounds
156 MethidathiOn	207 Silvex
157 Methomyl	208 Sodium arsenate
158 Methoxychlor	209 Sodium cacodylate
159 Methoxyethylmercury acetate160 Mevinpho.	210 • Sodium cyanide 211 Sodium fluoride
161 Mexacrabate	211 Sodium fluoroacetate
162 Mirex	213 Sodium metaarsenite
163 Monocrotophos	214 Sodium methanearsonate
164 Monolinuron	215 Sodium silicofluride
165 Monuron	216 Stilbene
166 Morfamguat	217 Strobane
167 Nicotine	218 Strychnine and salts
168 Nicotine sulphate	219 Strychnine nitrate
169 Nitazin	220 Strychnine sulphate
170 Nitrofen	221 Sulfotep
171 Octachlordipropy1 ether	222 Sulprofos
172 Omethoate	223 Tebuthiuron
173 Oxyfluorfen	224 Tetradifon
174 Oxyth ioquinox	225 Tetraethylpyrophosphate (TEPP)
175 Paraquat (ischlofide)	226 Tetrasulerostee
176 Paracuat-bis (methyl sulfate)	227 Thallium and Thallium compounds
177 Parathion	228 Thallium sulphate
178 Parathlanarhanal	229 Thiometon
179 Pentachloropheaol	230 Thiouracil
180 Perthane 181 Phenarsazine chloride	231 Thiram 232 Triazophos
182 Phenkapton	232 Triazophos233 Tributyl phosphorotrithioite
183 Phenylmercury acetate	234 Tridemorph
184 Phorate	234 Indemorph 235 Vamidothion
185 PMsacetim	236 Vinul chloride
186 Phosmet	237 Zinc phosphide

SI.	Name of Chemical Pesticides
No.	
238	Zinophos
239	Ziram
240	O, O-Dimethyl-s-Ethylmercaptoethylhnethyl-
	thiophosphate
241	1,2,2,Terachloroethane
242	1,2-Dihromo-3-Chloropropane
	(DBCP)
243	2-Methoxyethyimercury chloride (M
	EMC)
244	2-Thiohydantoin
245	2,3,4,5-Teteachlorophenol
246	2,3,4,6-Tetrachlorophenol
247	2,3,5,6-Tetrachlorophenol
248	2,4-Dinitrophenol
249	2,4-DB
250	2,4-DP
251	2,4,5-T
252	2,4,5-Trichlorophenol.

Effect of Chemical Fertilizers on Soil Structures

1559. SHRI SOM PAL: Will the Minister of AGRICULTURE be pleased to state:

- (a) whether it is a fact that chemical fertilizers are affecting our soil structures & soil organisms adversely;
- (b) whether it is also a fact that several micro-nutrients in our soil are depleting due

- to over exploitation, moaoculturing of a few crops and over use of fertilizers;
- (e) if so, what are the Detalits thereof and what is being done to tackle these problems; and
 - (d) if not, the reasons therefor?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI ARVIND NEIAM): (a) There are no re-ports of chemical fertilizers adversedy attacting soil structure and soil organisms.

- (b) Micro-nutrient deficiencies may crors cue to their inadequate presenec is acvils Inclusive use of high chengxal fertilizers which contain ooly N.PK.. and may also result in micro-nutrient dafeicncits in intensively cultivated soils.
- (c) and (d) The statement at micro-nutrient evey conducted by ICAR indicating the sumoer of soil samples analysed and the percent sample found nan-standard is enclosed (See below)

Apart from recommending the use of micro-Rutrient fertilizers, integrated use of onganic Manures and chemical fertihzereis advocated. Organic manures also supply aaero-aitttients; and help in building soil structure and soil micro-flora.

Statement

MICRO-NOTRIEST SURVEY BY ICAR Extent of Micranutrient-deficiencies in different States

State	Zinc Copp		per Maganes	e Iron	Boron
	(1)	(2) (1)	(2) 0)	(2) (1)	(2) (1) (2)
1 Andhra Pradesh .	. 4845	53 ?6&3	0 3637	1 3596	1
2 Bihar .	. 10277	45 10476	2 9228	1 9462	4 1487 38
3 Gujarat	. 26016	24 25943	5 25971	1 24576	8 1991 2
4 Haryana	. 19508	64 18274	3 17944	4 17844	25
5 Madhya Pradesh .	. 10382	65 9641	1 9636	3 9581	3
6 Punjab	. 13261	50 13261	1 13261	2 13261	13
7 Tamil Nadu	. 12478	43 11447	21 11709	8 12071	15
8 A. P	. 8754	64 8057	1 8135	3 8636	8
9 Karnataka	. 2318	25 2318	9 2318	1 2318	2

NOTE: (1)—No. of samples analysed. (2)—Examples found deficient. 95-M/P(D)17RSS—6