SUMMARY OF THE ANALYSIS OF RESIDUES OF ORGANOPHOSPHATE AND ORGANOCHLORINE PESTICIDES ON THE FOLIAGE OF PLANTS WHICH WERE COLLECTED WHEN HAND-LABOR OPERATIONS WERE IN PROGRESS FROM 1975 THROUGH 1985

HS-1337 Revised October 27, 1986

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Summary of the Analysis of Residues of Organophosphate and Organochlorine Pesticides on the Foliage of Plants
Which Were Collected When Hand-Labor Operations Were in Progress From 1975 Through 1985
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Year	County/Area	Crop(s) Surveyed	Screen No. of Fields OP	CHC	Neg	Pos*	Haz**	Comments
76	SAC VALLEY	STONE FRUIT, ROW CROPS	Y	Y	97	0	0	
75	NAPA	GRAPES	Y	N	10	0	0	
75	KERN, TULARE	GRAPES, TOMATOES	Y	N	86	0	0	
76	SAC DELTA AREA	TOMATOES, STONE FRUIT, MELONS, GRAPES	Y	Y	101	0	0	FEW FIELDS REPORTED AS NEG MAY HAVE HAD LOW LEVEL RESIDUES
76	NAPA	GRAPES	Y	Y	26	1	0	
76	MONTEREY	ROW CROPS	Y	Y	31	5	0	
76	SAC DELTA, NO SAC VALLEY	TREE FRUIT, NUTS, OLIVES, GRAPES	Y	Y	93	0	0	
76	IMPERIAL	LETTUCE, OTHER ROW CROPS	Y	Y	30	0	0	
76	RIVERSIDE	GRAPES, CORN, PEPPERS	Y	Y	20	0	0	
76	SAN JOAQUIN, SAC VALLEY	TREE FRUIT, ALMONDS, GRAPES	Y	Y	23	0	0	
77	IMPERIAL, RIVERSIDE	CITRUS, ROW CROPS	Y	Y	67	0	0	FEW FIELDS REPORTED AS NEG MAY HAVE HAD LOW LEVEL RESIDUES
77	SOUTHERN CALIFORNIA	STRAWBERRY, CITRUS, VEGETABLE, ORNAMENTA	Y	Y	74	0	4	FEW FIELDS REPORTED AS NEG MAY HAVE HAD LOW LEVEL RESIDUES
77	SANTA BARBARA, VENTURA	CITRUS, LETTUCE, VEGETABLE	Y	Y	86	8	0	
77	MONTEREY, SANTA CRUZ, STANISLAUS	ROW CROPS, STONE FRUIT	Y	Y	69	3	0	
78	SANTA CLARA, SAN MATEO, ALAMEDA	ORNAMENTALS (GREENHOUSE)	Y	Y	111	0	0	
78	SANTA CRUZ, MONTEREY	MUSHROOMS, ORNAMENTALS (GREENHOUSE)	Y	Y	92	0	0	
78	BUTTE, SAN LUIS OBISPO, SOUTH COAST	ORNAMENTALS (GREENHOUSE)	Y	Y	68	2	0	POSITIVE FINDINGS: CAPTAN, MSR
77	FRESNO, TULARE, KERN	GRAPES	Y	Y	70	0	0	
78	COASTAL (SAN DIEGO TO MONTEREY)	STRAWBERRY	Y	Y	44	58	0	THIODAN, CAPTAN, DIAZINON, KELTHANE REPORTED FOUND
80	TULARE	GRAPES	Y	N	184	0	0	
81	MONTEREY, SANTA CRUZ	LETTUCE, OTHER VEGETABLE	Y	Y	36	0	0	
82	SO SAN JOAQUIN VALLEY, RIVERSIDE	GRAPES, TREE FRUIT, VEGETABLES	Y	Y	101	4	0	PARATHION, DIMETHOATE, MALATHION FOUND ON GRAPES
82	COASTAL (MONTEREY TO MENDOCINO)	ROW CROPS, APPLES	Y	Y	243	4	0	CHLOROTHALONIL & MALATHION FOUND ON LETTUCE, STRAWBERRIES
83	VENTURA, SAN LUIS OBISPO	ROW CROPS, AVOCADO, APPLE	Y	N	99	16	0	CHLOROTHALONIL, DIMETHOATE MALATHION FOUND ON ROW CROPS
84	MONTEREY, SAN BENITO, SANTA CRUZ	ROW CROPS, APPLE	Y	N	50	12	0	GUTHION ON APPLES; MEVINPHOS, DIAZINON CHLOROTHALONIL ON RCs
84	FRESNO, MADERA, MERCED	GRAPES	Y	Y	14	2	0	DIMETHOATE, CAPTAN FOUND
84	SAN LUIS OBISPO, VENTURA, SANTA BARBARA	ROW CROPS, VEGETABLES	Y	N	17	1	0	DIAZINON FOUND ON TOMATOES
84	KERN	GRAPES, ORANGES, PEACHES	Y	N	19	7	0	PHOSMET ON GRAPES, CARBARYL ON ORANGES, GUTHION ON PEACHES
85	ORANGE, KERN	CITRUS	Y	Y	81	21	0	ALL LEVELS WERE BELOW ESTIMATED SAFE LEVEL

Year	County/Area	Crop(s) Surveyed	Screen No. of Fields OP	CHC	Neg	Pos*	Haz**	Comments
85	STANISLAUS	APRICOTS	Y	N	10	0	0	
85	YOLO, SACRAMENTO, SOLANO	PEAR	Y	N	3	13	1	GUTHION[R], PHOSMET FOUND (GUTHION ABOVE SAFE LEVEL)
85	SAN LUIS OBISPO, SANTA BARBARA, VENTURA	STRAWBERRY, LEMONS, ROW CROPS, ARTICHOKES	Y	N	87	0	0	
85	SONOMA, SANTA CRUZ	APPLES, GRAPES	Y	N	34	2	0	PHOSMET DETECTED; BUT BELOW ESTIMATED SAFE LEVEL
85	MONTEREY, SAN BENITO	ARTICHOKES, ROW CROPS	Y	Y	80	2	0	CHC FOUND ON ARTICHOKES
85	MERCED, MADERA, TULARE, FRESNO	GRAPES, TOMATOES, CANTALOUPE, STONE FRUIT ALMONDS, SWEET POTATOES	Y	N	47	5	0	PHOSMET, DIAZINON, GUTHION[R] FOUND ON PLUMS, NECTARINES (ALL BELOW SAFE LEVELS)
85	FRESNO, TULARE	NAVAL ORANGES	Y	N	32	0	0	
85	FRESNO, MERCED	BROCCOLI, LETTUCE, TOMATOES, APPLES	Y	N	49	8	0	GUTHION[R], PHOSMET FOUND ON APPLES; ALL BELOW SAFE LEVEL
	Totals				2384	174	5	

* Positive results may have been found, but were not quantified in the reports from which this summary was made. The levels found were reported as not significant and did not pose a hazard to workers.

** Number of fields with residues found to exceed estimated safe levels. (Prior to 1980, safe levels were not calculated. Samples reported to have "significant" residues during the period 1976 - 1979 are reported in this column)

Key to Screens:

OP - Organophosphate screen for 27 pesticide chemicals (azinphos-methyl, carbophenothion, chlorpyrifos, dasanit, DEF, dialifor, diazinon, dimethoate, dioxathion, disulfoton, dyfonate, EPN, ethion, fenthion, imidan, malathion, merphos, methidathion, methyl parathion, methyl trithion, mevinphos, parathion, phorate, phosalone, phosphamidon, Ronnel, trichlorfon) Samples from 2,563 fields have been screened for OP's for a total of 69,201 analyses.

CHC - Chlorinated hydrocarbon screen for 22 pesticide chemicals (aldrin, Botran, captan, chlordane, DDD, DDE, DDT, dacthal, dicofol, dieldrin, endrin, heptachlor, heptachlor epoxide, hexachlorocyclohexane isomers (BHC) including lindane, methoxychlor, nitrofen, PCNB, Perthane, tetradifon, endosulfan I, II & III, toxaphene) Samples from 1,771 fields have been screened for CHC's for a total of 38,962 analyses