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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

AUG -6 1998

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Dietary Exposure Analysis for Dimethoate in Support of
the Reregistration Eligibility Decision. D247875; 1208501

FROM: Brian Steinwand BS
Chemistry Exposure Branch 1
Health Effects Division (7509C)

Through: Bart Suhre, Senior Scientist JSuhre
Chemistry Exposure Branch 1
Health Effects Division (7509C)

TO: Pauline Wagner
Registration Branch 2
Health Effects Division (7509C)

Action Requested

Provide a dietary exposure analysis to estimate the chronic and acute dietary exposure and risk from dimethoate for uses which are being supported through reregistration.

Discussion

Toxicological Endpoint:

The Reference Dose (RfD) used in the analysis is 0.0005 mg/kg bwt/day, based on a NOEL of 0.05 mg/kg bwt/day (LEL of 0.25 mg/kg/day) from a two year rat feeding study with an uncertainty factor of 100 that demonstrated brain cholinesterase inhibition as an endpoint (See RfD Peer Review Report, 1/17/97). The RfD value has been approved by the HED RfD committee, 1/17/97.

In the August 29, 1991 meeting of the HED Carcinogenicity Peer Review Committee, dimethoate was classified as a group C carcinogen (possible human carcinogenicity, See TES Document). However, no Q₁* has been calculated for dimethoate.

TABLE 1

U.S. Environmental Protection Agency
DEEM89N CHRONIC analysis for 035001 DIMETHOATE

Ver. 6.12
(1989-92 data)

Residue file name: 035001

Adjustment factor #2 used.

Analysis Date 08-05-1998

Residue file dated: 08-05-1998/14:21:55/8

Reference dose (RfD, CHRONIC) = 0.000500 mg/kg body-wt/day

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Residue file listing

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Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctrs #2
7	01009AA	N	BLUEBERRIES	1.000000	1.00	1.00
13	01014AA	A	GRAPES	0.017000	1.00	0.01
14	01014DA	A	GRAPES-RAISINS	0.017000	1.00	0.01
15	01014JA	A	GRAPES-JUICE	0.017000	1.20	0.01
22	02002AB	K	GRAPEFRUIT-PEELED FRUIT	0.002000	1.00	0.12
23	02002JA	K	GRAPEFRUIT-JUICE	0.002000	1.00	0.12
26	02004AB	K	LEMONS-PEELED FRUIT	0.009000	1.00	0.12
27	02004HA	K	LEMONS-PEEL	0.036000	1.00	0.12
28	02004JA	K	LEMONS-JUICE	0.008000	2.00	0.12
33	02006JC	K	ORANGES-JUICE-CONCENTRATE	0.004000	1.00	0.12
34	02006AB	K	ORANGES-PEELED FRUIT	0.005000	1.00	0.12
35	02006HA	K	ORANGES-PEEL	0.020000	1.00	0.12
36	02006JA	K	ORANGES-JUICE	0.004000	1.00	0.12
38	02008AA	K	TANGERINES	0.006000	1.00	1.00
39	02008JA	K	TANGERINES-JUICE	0.005000	1.00	1.00
47	03008AA	R	PECANS	0.100000	1.00	0.16
52	04001AA	L	APPLES	0.006000	1.00	0.15
53	04001DA	L	APPLES-DRIED	0.006000	8.00	0.15
54	04001JA	L	APPLES-JUICE/CIDER	0.010000	1.00	0.15
57	04003DA	L	PEARS-DRIED	0.008000	6.25	0.02
61	05002AA	M	CHERRIES	0.031000	1.00	1.00
62	05002DA	M	CHERRIES-DRIED	0.031000	4.00	1.00
63	05002JA	M	CHERRIES-JUICE	0.031000	1.50	1.00
141	10002NA	J	MELONS-CANTALOUPE-JUICE	0.010000	1.00	0.35
142	10002AB	J	MELONS-CANTALOUPE-PULP	0.010000	1.00	0.35
143	10003AA	J	CASABAS	0.010000	1.00	0.35
144	10004AA	J	CRENSHAW	0.010000	1.00	1.00
145	10005AA	J	MELONS-HONEYDEW	0.010000	1.00	0.35
146	10007AA	J	MELONS-PERSIAN	0.010000	1.00	0.35
147	10008AA	J	WATERMELON	0.006000	1.00	1.00
153	10020AA	J	TOWELGOURD	0.000054	1.00	1.00
155	11003AA	I	PEPPERS-SWEET (GARDEN)	0.023000	1.00	0.22
156	11003AB	I	PEPPERS-CHILLI INCL JALAPENO	0.023000	1.00	0.03
157	11003AD	I	PEPPERS-OTHER	0.023000	1.00	0.03
158	11004AA	I	PIMIENTOS	0.023000	1.00	0.22
159	11005AA	I	TOMATOES-WHOLE	0.006000	1.00	0.08
160	11005JA	I	TOMATOES-JUICE	0.006000	1.50	0.08
161	11005RA	I	TOMATOES-PUREE	0.006000	3.30	0.08
162	11005TA	I	TOMATOES-PASTE	0.006000	5.40	0.08
163	11005UA	I	TOMATOES-CATSUP	0.006000	2.50	0.08
168	13005AA	F	BROCCOLI	0.013000	1.00	0.22

Incorporating the recommendations of CBRS (decreasing the turnip root tolerance from 2 to 0.02 ppm, and the deletion of lentils) represents 6.4% of the RfD for the U.S. general population. The highest subgroup, Children (1-6 years old) occupies 13.2% of the RfD (See Table 4).

The chronic analysis for dimethoate is not a worst case estimate of dietary exposure with all residues at tolerance level and 100 percent of the commodities assumed to be treated with dimethoate. Some refinements such as percent crop treated data and anticipated residues have been incorporated for selected commodities. Based on the risk estimates calculated in this analysis, it appears that chronic dietary risk from the uses recommended through reregistration, is not of concern.

Acute Exposure:

The DRES detailed acute analysis estimates the distribution of single-day exposures for the overall U.S. population and certain subgroups. The analysis evaluates individual food consumption as reported by respondents in the USDA 1989-92 Nationwide Food Consumption Survey (NFCS) and accumulates exposure to the chemical for each commodity. Each analysis assumes uniform distribution of dimethoate in the commodity supply.

The Margin of Exposure (MOE) is a measure of how close the high end exposure comes to the NOEL (the highest dose at which no effects were observed in the laboratory test), and is calculated as the ratio of the NOEL to the exposure ($\text{NOEL/exposure} = \text{MOE}$). Generally, acute dietary margins of exposure greater than 100 tend to cause no dietary concern. The high end MOE values (all at or below 1) of Tables 6 and 7 demonstrate acute dietary concern. These results reflect a bounding estimate of acute dietary risk and indicate that further refinement to the acute dietary risk is required. HED will therefore request that the registrant perform and submit for Agency review a tier 3 Monte Carlo analysis.

Attachments

cc: DRES; Caswell 358

Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctrs #2
275	24006AA	O	SORGHUM (INCLUDING MILO)	0.100000	1.00	0.05
276	24007AA	O	WHEAT-ROUGH	0.040000	1.00	0.02
277	24007GA	O	WHEAT-GERM	0.040000	1.00	0.02
278	24007HA	O	WHEAT-BRAN	0.040000	1.00	0.02
279	24007WA	O	WHEAT-FLOUR	0.040000	1.00	0.02
289	27002OA	O	CORN GRAIN-OIL	0.100000	1.00	0.01
290	27003OA	A	COTTONSEED-OIL	0.100000	1.00	0.14
291	27003WA	A	COTTONSEED-MEAL	0.100000	1.00	0.14
294	27008AA	A	SAFFLOWER-SEED	0.100000	1.00	0.19
295	27008OA	A	SAFFLOWER-OIL	0.100000	1.00	0.19
297	27010OA	G	SOYBEANS-OIL	0.050000	1.00	0.10
303	15023AA	G	SOYBEAN-OTHER	0.050000	1.00	0.10
304	28023AB	G	SOYBEANS-MATURE SEEDS DRY	0.100000	1.00	0.10
305	28023WA	G	SOYBEANS-FLOUR (FULL FAT)	0.050000	1.00	0.10
306	28023WB	G	SOYBEANS-FLOUR (LOW FAT)	0.050000	1.00	0.10
307	28023WC	G	SOYBEANS-FLOUR (DEFATTED)	0.050000	1.00	0.10
315	43058AA	A	GRAPES-WINE AND SHERRY	0.290000	1.00	0.01
318	50000DB	X	MILK-NONFAT SOLIDS	0.000140	1.00	1.00
319	50000FA	X	MILK-FAT SOLIDS	0.000140	1.00	1.00
320	50000SA	X	MILK SUGAR (LACTOSE)	0.000140	1.00	1.00
321	53001BA	U	BEEF-MEAT BYPRODUCTS	0.000017	1.00	1.00
322	53001BB	U	BEEF-OTHER ORGAN MEATS	0.000017	1.00	1.00
323	53001DA	U	BEEF-DRIED	0.000017	1.92	1.00
324	53001FA	U	BEEF-FAT W/O BONES	0.000017	1.00	1.00
325	53001KA	U	BEEF-KIDNEY	0.000017	1.00	1.00
326	53001LA	U	BEEF-LIVER	0.000017	1.00	1.00
327	53001MA	U	BEEF-LEAN (FAT/FREE) W/O BONES	0.000017	1.00	1.00
328	53002BA	U	GOAT-MEAT BYPRODUCTS	0.000017	1.00	1.00
329	53002BB	U	GOAT-OTHER ORGAN MEATS	0.000017	1.00	1.00
330	53002FA	U	GOAT-FAT W/O BONE	0.000017	1.00	1.00
331	53002KA	U	GOAT-KIDNEY	0.000017	1.00	1.00
332	53002LA	U	GOAT-LIVER	0.000017	1.00	1.00
333	53002MA	U	GOAT-LEAN (FAT/FREE) W/O BONE	0.000017	1.00	1.00
334	53003AA	U	HORSEMEAT	0.017000	1.00	1.00
336	53005BA	U	SHEEP-MEAT BYPRODUCTS	0.000017	1.00	1.00
337	53005BB	U	SHEEP-OTHER ORGAN MEATS	0.000017	1.00	1.00
338	53005FA	U	SHEEP-FAT W/O BONE	0.000017	1.00	1.00
339	53005KA	U	SHEEP-KIDNEY	0.000017	1.00	1.00
340	53005LA	U	SHEEP-LIVER	0.000017	1.00	1.00
341	53005MA	U	SHEEP-LEAN (FAT FREE) W/O BONE	0.000017	1.00	1.00
342	53006BA	U	PORK-MEAT BYPRODUCTS	0.000170	1.00	1.00
343	53006BB	U	PORK-OTHER ORGAN MEATS	0.000170	1.00	1.00
344	53006FA	U	PORK-FAT W/O BONE	0.000170	1.00	1.00
345	53006KA	U	PORK-KIDNEY	0.000170	1.00	1.00
346	53006LA	U	PORK-LIVER	0.000170	1.00	1.00
347	53006MA	U	PORK-LEAN (FAT FREE) W/O BONE	0.000170	1.00	1.00
355	55008BA	V	TURKEY-BYPRODUCTS	0.000054	1.00	1.00
356	55008LA	V	TURKEY-GIBLETS (LIVER)	0.000054	1.00	1.00
357	55008MA	V	TURKEY--FAT W/O BONES	0.000054	1.00	1.00

Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctrs #2
169	13006AA	F	BRUSSELS SPROUTS	2.080000	1.00	0.01
170	13007AA	F	CABBAGE-GREEN AND RED	0.012000	1.00	0.25
171	13008AA	F	CAULIFLOWER	0.011000	1.00	0.19
172	13009AA	F	COLLARDS	0.018000	1.00	0.25
173	13010AA	F	CABBAGE-CHINESE/CELERY/BOK CHO	0.012000	1.00	0.25
174	13011AA	F	KALE	0.005000	1.00	1.00
176	13013AA	E	LETTUCE-LEAFY VARIETIES	0.011000	1.00	0.49
178	13015AA	E	ENDIVE-CURLEY AND ESCAROLE	0.038000	1.00	1.00
179	13016AA	S	FENNEL	0.038000	1.00	1.00
182	13020AA	E	LETTUCE-UNSPECIFIED	0.011000	1.00	0.49
183	13021AA	F	MUSTARD GREENS	0.067000	1.00	1.00
186	13024AA	E	SPINACH	0.024000	1.00	0.06
187	13025AA	E	SWISS CHARD	0.038000	1.00	1.00
188	13026AA	C	TURNIPS-TOPS	0.024000	1.00	1.00
192	13045AA	E	LETTUCE-HEAD VARIETIES	0.011000	1.00	0.49
195	13049AA	A	GRAPES-LEAVES	0.017000	1.00	0.01
207	14013AA	B	POTATOES/WHITE-WHOLE	0.001000	1.00	0.02
208	14013AB	B	POTATOES/WHITE-UNSPECIFIED	0.001000	1.00	0.02
209	14013AC	B	POTATOES/WHITE-PEELED	0.001000	1.00	0.02
210	14013DA	B	POTATOES/WHITE-DRY	0.001000	6.50	0.02
211	14013HA	B	POTATOES/WHITE-PEEL ONLY	0.001000	1.00	0.02
219	14019AA	B	TURNIPS-ROOTS	0.005000	1.00	1.00
227	15001AA	G	BEANS-DRY-GREAT NORTHERN	0.006000	1.00	0.04
228	15001AB	G	BEANS-DRY-KIDNEY	0.006000	1.00	0.04
229	15001AC	G	BEANS-DRY-LIMA	0.006000	1.00	0.04
230	15001AD	G	BEANS-DRY-NAVY (PEA)	0.006000	1.00	0.04
231	15001AE	G	BEANS-DRY-OTHER	0.006000	1.00	0.04
232	15001AF	G	BEANS-DRY-PINTO	0.006000	1.00	0.04
233	15002AA	G	BEANS-SUCCULENT-LIMA	0.280000	1.00	0.13
234	15003AA	G	BEANS-SUCCULENT-GREEN	0.280000	1.00	0.13
235	15003AB	G	BEANS-SUCCULENT-OTHER	0.280000	1.00	0.13
236	15003AC	G	BEANS-SUCCULENT-YELLOW/WAX	0.280000	1.00	0.13
240	15007AA	G	PEAS (GARDEN) -DRY	0.006000	1.00	0.02
241	15009AA	G	PEAS (GARDEN) -GREEN	0.006000	1.00	0.27
243	15011AB	G	LENTILS	0.009000	1.00	1.00
244	15013AA	G	MUNG BEANS (SPROUTS)	0.006000	1.00	1.00
249	15022AA	G	BEANS-DRY-BROADBEANS	0.006000	1.00	0.04
250	15022AB	G	BEANS-SUCCULENT-BROADBEANS	0.280000	1.00	0.13
251	15023AA	G	BEANS-DRY-PIGEON BEANS	0.006000	1.00	0.04
253	15027AA	G	BEANS-UNSPECIFIED	0.006000	1.00	0.04
255	15029AA	G	SOYBEANS-SPROUTED SEEDS	0.050000	0.33	0.10
256	15030AA	G	BEANS-DRY-HYACINTH	0.006000	1.00	0.04
257	15030AB	G	BEANS-SUCCULENT-HYACINTH	0.006000	1.00	0.13
258	15031AA	G	BEANS-DRY-BLACK EYE PEAS/COWPEA	0.006000	1.00	0.04
259	15032AA	G	BEANS-DRY-GARBANZO/CHICK PEA	0.006000	1.00	0.04
260	16002AA	A	ASPARAGUS	0.150000	1.00	1.00
266	24002EA	O	CORN GRAIN-ENDOSPERM	0.100000	1.00	0.01
267	24002HA	O	CORN GRAIN-BRAN	0.100000	1.00	0.01
268	24002SA	O	CORN GRAIN/SUGAR/HFCS	0.100000	1.50	0.01

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TABLE 2

U.S. Environmental Protection Agency Ver. 6.12
 DEEM89N CHRONIC analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035001 Adjustment factor #2 used.
 Analysis Date 08-05-1998 Residue file dated: 08-05-1998/14:21:55/8
 Reference dose (RfD, CHRONIC) = 0.000500 mg/kg body-wt/day

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Total exposure by population subgroup

Population Subgroup	Total Exposure	
	mg/kg body wt/day	Percent of Rfd
U.S. Pop - 48 states - all seasons	0.000034	6.8%
U.S. Population - spring season	0.000036	7.2%
U.S. Population - summer season	0.000035	6.9%
U.S. Population - autumn season	0.000031	6.1%
U.S. Population - winter season	0.000036	7.1%
Northeast region	0.000036	7.3%
Midwest region	0.000033	6.6%
Southern region	0.000034	6.8%
Western region	0.000033	6.7%
Pacific Region	0.000036	7.2%
Hispanics	0.000027	5.3%
Non-hispanic whites	0.000036	7.2%
Non-hispanic blacks	0.000028	5.6%
Non-hispanic other than black or white	0.000032	6.3%
All infants (<1 year)	0.000048	9.6%
Nursing infants (<1 year)	0.000008	1.7%
Non-nursing infants (<1 year)	0.000065	13.0%
Children (1-6 years)	0.000070	14.1%
Children (7-12 years)	0.000043	8.7%
Females (13-19 yrs/not preg. or nursing)	0.000024	4.8%
Females (20+ years/not preg. or nursing)	0.000028	5.7%
Females (13-50 years)	0.000026	5.2%
Females (13+/pregnant/not nursing)	0.000023	4.5%
Females (13+/nursing)	0.000049	9.9%
Males (13-19 years)	0.000035	7.0%
Males (20+ years)	0.000028	5.7%
Seniors (55+)	0.000032	6.3%

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Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. Fctrs #1	#2
358	55008MB	V	TURKEY-LEAN/FAT FREE W/O BONE	0.000054	1.00	1.00
360	55013BA	V	POULTRY-OTHER-LEAN (FAT FREE)	0.000054	1.00	1.00
361	55013LA	V	POULTRY-OTHER-GIBLETS (LIVER)	0.000054	1.00	1.00
362	55013MA	V	POULTRY-OTHER-FAT W/O BONES	0.000054	1.00	1.00
363	55014AA	X	EGGS-WHOLE	0.000054	1.00	1.00
364	55014AB	X	EGGS-WHITE ONLY	0.000054	1.00	1.00
365	55014AC	X	EGGS-YOLK ONLY	0.000054	1.00	1.00
366	55015BA	V	CHICKEN-BYPRODUCTS	0.000054	1.00	1.00
367	55015LA	V	CHICKEN-GIBLETS (LIVER)	0.000054	1.00	1.00
368	55015MA	V	CHICKEN-FAT W/O BONES	0.000054	1.00	1.00
369	55015MB	V	CHICKEN-LEAN/FATFREE W/O BONE	0.000054	1.00	1.00
377	04001JC	L	APPLES-JUICE-CONCENTRATE	0.010000	1.00	0.15
383	13007SA	F	CABBAGE-SAVOY	0.012000	1.00	0.25
384	13002JA	E	CELERY JUICE	0.011000	1.00	1.00
385	55015EL	V	CHICKEN-GIBLETS (EXCL. LIVER)	0.000054	1.00	1.00
388	24002MO	O	CORN GRAIN/SUGAR-MOLASSES	0.100000	1.50	0.01
392	01014JC	A	GRAPES-JUICE-CONCENTRATE	0.017000	3.60	0.01
398	50000WA	X	MILK-BASED WATER	0.000140	1.00	1.00
404	04003NA	L	PEARS-JUICE	0.008000	1.00	0.02
405	15008AA	G	PEAS-SUCCUL./BLACK EYE/COWPEA	0.067000	1.00	0.27
420	02008JC	K	TANGERINES-JUICE-CONCENTRATE	0.005000	1.00	1.00
423	11005DA	I	TOMATOES-DRIED	0.006000	14.30	0.08
436	10008JA	J	WATERMELON-JUICE	0.006000	1.00	0.06
437	24007OL	O	WHEAT-GERM OIL	0.040000	1.00	0.02
441	02002JC	K	GRAPEFRUIT-JUICE-CONCENTRATE	0.002000	1.00	0.12
442	02004JC	K	LEMONS-JUICE-CONCENTRATE	0.009000	11.40	0.12
448	02002HA	K	GRAPEFRUIT PEEL	0.002000	1.00	0.12
449	No Code	V	TURKEY-OTHER ORGAN MEATS	0.000054	1.00	1.00
467	08010AA	S	CELERY SEED	0.011000	1.00	1.00
482	No Code	A	SOYBEANS-PROTEIN ISOLATE	0.050000	1.00	0.10

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Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctrs #2
169	13006AA	F	BRUSSELS SPROUTS	2.080000	1.00	0.01
170	13007AA	F	CABBAGE-GREEN AND RED	0.012000	1.00	0.25
171	13008AA	F	CAULIFLOWER	0.011000	1.00	0.19
172	13009AA	F	COLLARDS	0.018000	1.00	0.25
173	13010AA	F	CABBAGE-CHINESE/CELERY/BOK CHO	0.012000	1.00	0.25
174	13011AA	F	KALE	0.005000	1.00	1.00
176	13013AA	E	LETTUCE-LEAFY VARIETIES	0.011000	1.00	0.49
178	13015AA	E	ENDIVE-CURLEY AND ESCAROLE	0.038000	1.00	1.00
179	13016AA	S	FENNEL	0.038000	1.00	1.00
182	13020AA	E	LETTUCE-UNSPECIFIED	0.011000	1.00	0.49
183	13021AA	F	MUSTARD GREENS	0.067000	1.00	1.00
186	13024AA	E	SPINACH	0.024000	1.00	0.06
187	13025AA	E	SWISS CHARD	0.038000	1.00	1.00
188	13026AA	C	TURNIPS-TOPS	0.024000	1.00	1.00
192	13045AA	E	LETTUCE-HEAD VARIETIES	0.011000	1.00	0.49
195	13049AA	A	GRAPES-LEAVES	0.017000	1.00	0.01
207	14013AA	B	POTATOES/WHITE-WHOLE	0.001000	1.00	0.02
208	14013AB	B	POTATOES/WHITE-UNSPECIFIED	0.001000	1.00	0.02
209	14013AC	B	POTATOES/WHITE-PEELED	0.001000	1.00	0.02
210	14013DA	B	POTATOES/WHITE-DRY	0.001000	6.50	0.02
211	14013HA	B	POTATOES/WHITE-PEEL ONLY	0.001000	1.00	0.02
219	14019AA	B	TURNIPS-ROOTS	0.005000	1.00	1.00
227	15001AA	G	BEANS-DRY-GREAT NORTHERN	0.006000	1.00	0.04
228	15001AB	G	BEANS-DRY-KIDNEY	0.006000	1.00	0.04
229	15001AC	G	BEANS-DRY-LIMA	0.006000	1.00	0.04
230	15001AD	G	BEANS-DRY-NAVY (PEA)	0.006000	1.00	0.04
231	15001AE	G	BEANS-DRY-OTHER	0.006000	1.00	0.04
232	15001AF	G	BEANS-DRY-PINTO	0.006000	1.00	0.04
233	15002AA	G	BEANS-SUCCULENT-LIMA	0.280000	1.00	0.13
234	15003AA	G	BEANS-SUCCULENT-GREEN	0.280000	1.00	0.13
235	15003AB	G	BEANS-SUCCULENT-OTHER	0.280000	1.00	0.13
236	15003AC	G	BEANS-SUCCULENT-YELLOW/WAX	0.280000	1.00	0.13
240	15007AA	G	PEAS (GARDEN)-DRY	0.006000	1.00	0.02
241	15009AA	G	PEAS (GARDEN)-GREEN	0.006000	1.00	0.27
244	15013AA	G	MUNG BEANS (SPROUTS)	0.006000	1.00	1.00
249	15022AA	G	BEANS-DRY-BROADBEANS	0.006000	1.00	0.04
250	15022AB	G	BEANS-SUCCULENT-BROADBEANS	0.280000	1.00	0.13
251	15023AA	G	BEANS-DRY-PIGEON BEANS	0.006000	1.00	0.04
253	15027AA	G	BEANS-UNSPECIFIED	0.006000	1.00	0.04
255	15029AA	G	SOYBEANS-SPROUTED SEEDS	0.050000	0.33	0.01
256	15030AA	G	BEANS-DRY-HYACINTH	0.006000	1.00	0.04
257	15030AB	G	BEANS-SUCCULENT-HYACINTH	0.006000	1.00	0.13
258	15031AA	G	BEANS-DRY-BLACK EYE PEAS/COWPEA	0.006000	1.00	0.04
259	15032AA	G	BEANS-DRY-GARBANZO/CHICK PEA	0.006000	1.00	0.04
260	16002AA	A	ASPARAGUS	0.150000	1.00	1.00
266	24002EA	O	CORN GRAIN-ENDOSPERM	0.100000	1.00	0.01
267	24002HA	O	CORN GRAIN-BRAN	0.100000	1.00	0.01
268	24002SA	O	CORN GRAIN/SUGAR/HFCS	0.100000	1.50	0.01
275	24006AA	O	SORGHUM (INCLUDING MILO)	0.100000	1.00	0.05

TABLE 3

U.S. Environmental Protection Agency Ver. 6.12
 DEEM89N CHRONIC analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035001RR Adjustment factor #2 used.
 Analysis Date 08-05-1998 Residue file dated: 08-05-1998/13:53:33/8
 Reference dose (RfD, CHRONIC) = 0.000500 mg/kg body-wt/day

Residue file listing

Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctrs #2
7	01009AA	N	BLUEBERRIES	1.000000	1.00	1.00
13	01014AA	A	GRAPES	0.017000	1.00	0.01
14	01014DA	A	GRAPES-RAISINS	0.017000	1.00	0.01
15	01014JA	A	GRAPES-JUICE	0.017000	1.20	0.01
22	02002AB	K	GRAPEFRUIT-PEELED FRUIT	0.002000	1.00	0.12
23	02002JA	K	GRAPEFRUIT-JUICE	0.002000	1.00	0.12
26	02004AB	K	LEMONS-PEELED FRUIT	0.009000	1.00	0.12
27	02004HA	K	LEMONS-PEEL	0.036000	1.00	0.12
28	02004JA	K	LEMONS-JUICE	0.008000	2.00	0.12
33	02006JC	K	ORANGES-JUICE-CONCENTRATE	0.004000	1.00	0.12
34	02006AB	K	ORANGES-PEELED FRUIT	0.005000	1.00	0.12
35	02006HA	K	ORANGES-PEEL	0.020000	1.00	0.12
36	02006JA	K	ORANGES-JUICE	0.004000	1.00	0.12
38	02008AA	K	TANGERINES	0.006000	1.00	0.12
39	02008JA	K	TANGERINES-JUICE	0.005000	1.00	0.12
47	03008AA	R	PECANS	0.100000	1.00	0.16
52	04001AA	L	APPLES	0.006000	1.00	0.15
53	04001DA	L	APPLES-DRIED	0.006000	8.00	0.15
54	04001JA	L	APPLES-JUICE/CIDER	0.010000	1.00	0.15
57	04003DA	L	PEARS-DRIED	0.008000	6.25	0.02
61	05002AA	M	CHERRIES	0.031000	1.00	1.00
62	05002DA	M	CHERRIES-DRIED	0.031000	4.00	1.00
63	05002JA	M	CHERRIES-JUICE	0.031000	1.50	1.00
141	10002NA	J	MELONS-CANTALOUPE-JUICE	0.010000	1.00	0.35
142	10002AB	J	MELONS-CANTALOUPE-PULP	0.010000	1.00	0.35
143	10003AA	J	CASABAS	0.010000	1.00	1.00
144	10004AA	J	CRENSHAW	0.010000	1.00	1.00
145	10005AA	J	MELONS-HONEYDEW	0.010000	1.00	0.35
146	10007AA	J	MELONS-PERSIAN	0.010000	1.00	0.35
147	10008AA	J	WATERMELON	0.006000	1.00	0.06
153	10020AA	J	TOWELGOURD	0.000054	1.00	1.00
155	11003AA	I	PEPPERS-SWEET (GARDEN)	0.023000	1.00	0.22
156	11003AB	I	PEPPERS-CHILLI INCL JALAPENO	0.023000	1.00	0.03
157	11003AD	I	PEPPERS-OTHER	0.023000	1.00	0.03
158	11004AA	I	PIMIENTOS	0.023000	1.00	0.22
159	11005AA	I	TOMATOES-WHOLE	0.006000	1.00	0.08
160	11005JA	I	TOMATOES-JUICE	0.006000	1.50	0.08
161	11005RA	I	TOMATOES-PUREE	0.006000	3.30	0.08
162	11005TA	I	TOMATOES-PASTE	0.006000	5.40	0.08
163	11005UA	I	TOMATOES-CATSUP	0.006000	2.50	0.08
168	13005AA	F	BROCCOLI	0.013000	1.00	0.22

Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctrs #2
360	55013BA	V	POULTRY-OTHER-LEAN (FAT FREE)	0.000054	1.00	1.00
361	55013LA	V	POULTRY-OTHER-GIBLETS (LIVER)	0.000054	1.00	1.00
362	55013MA	V	POULTRY-OTHER-FAT W/O BONES	0.000054	1.00	1.00
363	55014AA	X	EGGS-WHOLE	0.000054	1.00	1.00
364	55014AB	X	EGGS-WHITE ONLY	0.000054	1.00	1.00
365	55014AC	X	EGGS-YOLK ONLY	0.000054	1.00	1.00
366	55015BA	V	CHICKEN-BYPRODUCTS	0.000054	1.00	1.00
367	55015LA	V	CHICKEN-GIBLETS (LIVER)	0.000054	1.00	1.00
368	55015MA	V	CHICKEN-FAT W/O BONES	0.000054	1.00	1.00
369	55015MB	V	CHICKEN-LEAN/FATFREE W/O BONE	0.000054	1.00	1.00
377	04001JC	L	APPLES-JUICE-CONCENTRATE	0.010000	1.00	0.15
383	13007SA	F	CABBAGE-SAVOY	0.012000	1.00	0.25
384	13002JA	E	CELERY JUICE	0.011000	1.00	1.00
385	55015EL	V	CHICKEN-GIBLETS (EXCL. LIVER)	0.000054	1.00	1.00
388	24002MO	O	CORN GRAIN/SUGAR-MOLASSES	0.100000	1.50	0.01
392	01014JC	A	GRAPES-JUICE-CONCENTRATE	0.017000	3.60	0.01
398	50000WA	X	MILK-BASED WATER	0.000140	1.00	1.00
404	04003NA	L	PEARS-JUICE	0.008000	1.00	0.02
405	15008AA	G	PEAS-SUCCUL./BLACKEYE/COWPEA	0.067000	1.00	0.27
420	02008JC	K	TANGERINES-JUICE-CONCENTRATE	0.005000	1.00	0.12
423	11005DA	I	TOMATOES-DRIED	0.006000	14.30	0.08
436	10008JA	J	WATERMELON-JUICE	0.006000	1.00	0.06
437	24007OL	O	WHEAT-GERM OIL	0.040000	1.00	0.02
441	02002JC	K	GRAPEFRUIT-JUICE-CONCENTRATE	0.002000	1.00	0.12
442	02004JC	K	LEMONS-JUICE-CONCENTRATE	0.009000	11.40	0.12
448	02002HA	K	GRAPEFRUIT PEEL	0.002000	1.00	0.12
449	No Code	V	TURKEY-OTHER ORGAN MEATS	0.000054	1.00	1.00
467	08010AA	S	CELERY SEED	0.011000	1.00	1.00
482	No Code	A	SOYBEANS-PROTEIN ISOLATE	0.050000	1.00	0.01

Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctrs #2
276	24007AA	O	WHEAT-ROUGH	0.040000	1.00	0.02
277	24007GA	O	WHEAT-GERM	0.040000	1.00	0.02
278	24007HA	O	WHEAT-BRAN	0.040000	1.00	0.02
279	24007WA	O	WHEAT-FLOUR	0.040000	1.00	0.02
289	27002OA	O	CORN GRAIN-OIL	0.100000	1.00	0.01
290	27003OA	A	COTTONSEED-OIL	0.100000	1.00	0.14
291	27003WA	A	COTTONSEED-MEAL	0.100000	1.00	0.14
294	27008AA	A	SAFFLOWER-SEED	0.100000	1.00	0.19
295	27008OA	A	SAFFLOWER-OIL	0.100000	1.00	0.19
297	27010OA	G	SOYBEANS-OIL	0.050000	1.00	0.01
303	15023AA	G	SOYBEAN-OTHER	0.050000	1.00	0.01
304	28023AB	G	SOYBEANS-MATURE SEEDS DRY	0.100000	1.00	0.01
305	28023WA	G	SOYBEANS-FLOUR (FULL FAT)	0.050000	1.00	0.01
306	28023WB	G	SOYBEANS-FLOUR (LOW FAT)	0.050000	1.00	0.01
307	28023WC	G	SOYBEANS-FLOUR (DEFATTED)	0.050000	1.00	0.01
315	43058AA	A	GRAPES-WINE AND SHERRY	0.290000	1.00	0.01
318	50000DB	X	MILK-NONFAT SOLIDS	0.000140	1.00	1.00
319	50000FA	X	MILK-FAT SOLIDS	0.000140	1.00	1.00
320	50000SA	X	MILK SUGAR (LACTOSE)	0.000140	1.00	1.00
321	53001BA	U	BEEF-MEAT BYPRODUCTS	0.000017	1.00	1.00
322	53001BB	U	BEEF-OTHER ORGAN MEATS	0.000017	1.00	1.00
323	53001DA	U	BEEF-DRIED	0.000017	1.92	1.00
324	53001FA	U	BEEF-FAT W/O BONES	0.000017	1.00	1.00
325	53001KA	U	BEEF-KIDNEY	0.000017	1.00	1.00
326	53001LA	U	BEEF-LIVER	0.000017	1.00	1.00
327	53001MA	U	BEEF-LEAN (FAT/FREE) W/O BONES	0.000017	1.00	1.00
328	53002BA	U	GOAT-MEAT BYPRODUCTS	0.000017	1.00	1.00
329	53002BB	U	GOAT-OTHER ORGAN MEATS	0.000017	1.00	1.00
330	53002FA	U	GOAT-FAT W/O BONE	0.000017	1.00	1.00
331	53002KA	U	GOAT-KIDNEY	0.000017	1.00	1.00
332	53002LA	U	GOAT-LIVER	0.000017	1.00	1.00
333	53002MA	U	GOAT-LEAN (FAT/FREE) W/O BONE	0.000017	1.00	1.00
334	53003AA	U	HORSEMEAT	0.017000	1.00	0.01
336	53005BA	U	SHEEP-MEAT BYPRODUCTS	0.000017	1.00	1.00
337	53005BB	U	SHEEP-OTHER ORGAN MEATS	0.000017	1.00	1.00
338	53005FA	U	SHEEP-FAT W/O BONE	0.000017	1.00	1.00
339	53005KA	U	SHEEP-KIDNEY	0.000017	1.00	1.00
340	53005LA	U	SHEEP-LIVER	0.000017	1.00	1.00
341	53005MA	U	SHEEP-LEAN (FAT FREE) W/O BONE	0.000017	1.00	1.00
342	53006BA	U	PORK-MEAT BYPRODUCTS	0.000170	1.00	1.00
343	53006BB	U	PORK- OTHER ORGAN MEATS	0.000170	1.00	1.00
344	53006FA	U	PORK-FAT W/O BONE	0.000170	1.00	1.00
345	53006KA	U	PORK-KIDNEY	0.000170	1.00	1.00
346	53006LA	U	PORK-LIVER	0.000170	1.00	1.00
347	53006MA	U	PORK-LEAN (FAT FREE) W/O BONE	0.000170	1.00	1.00
355	55008BA	V	TURKEY-BYPRODUCTS	0.000054	1.00	1.00
356	55008LA	V	TURKEY-GIBLETS (LIVER)	0.000054	1.00	1.00
357	55008MA	V	TURKEY--FAT W/O BONES	0.000054	1.00	1.00
358	55008MB	V	TURKEY-LEAN/FAT FREE W/O BONE	0.000054	1.00	1.00

Food Crop			RESIDUE (ppm)	Adj. Factors	
Code	Grp	Food Name		#1	#2
007	N	BLUEBERRIES	001.000000	01.000	01.000
013	A	GRAPES	001.000000	01.000	00.010
014	A	GRAPES-RAISINS	001.000000	04.300	00.010
015	A	GRAPES-JUICE	001.000000	01.200	00.010
022	K	GRAPEFRUIT-PEELED FRUIT	002.000000	01.000	00.120
023	K	GRAPEFRUIT-JUICE	002.000000	02.100	00.120
026	K	LEMONS-PEELED FRUIT	002.000000	01.000	00.120
027	K	LEMONS-PEEL	002.000000	01.000	00.120
028	K	LEMONS-JUICE	002.000000	02.000	00.120
033	K	ORANGES-JUICE-CONCENTRATE	002.000000	06.700	00.120
034	K	ORANGES-PEELED FRUIT	002.000000	01.000	00.120
035	K	ORANGES-PEEL	002.000000	01.000	00.120
036	K	ORANGES-JUICE	002.000000	01.800	00.120
038	K	TANGERINES	002.000000	01.000	00.120
039	K	TANGERINES-JUICE	002.000000	02.300	00.120
047	R	PECANS	000.100000	01.000	00.160
052	L	APPLES	002.000000	01.000	00.150
053	L	APPLES-DRIED	002.000000	08.000	00.150
054	L	APPLES-JUICE/CIDER	002.000000	01.300	00.150
056	L	PEARS	002.000000	01.000	00.020
057	L	PEARS-DRIED	002.000000	06.250	00.020
061	M	CHERRIES	002.000000	01.000	01.000
062	M	CHERRIES-DRIED	002.000000	04.000	01.000
063	M	CHERRIES-JUICE	002.000000	01.500	01.000
141	J	MELONS-CANTALOUPE-JUICE	001.000000	01.000	00.350
142	J	MELONS-CANTALOUPE-PULP	001.000000	01.000	00.350
143	J	CASABAS	001.000000	01.000	00.350
144	J	CRENSHAW	001.000000	01.000	00.350
145	J	MELONS-HONEYDEW	001.000000	01.000	00.350
146	J	MELONS-PERSIAN	001.000000	01.000	00.350
147	J	WATERMELON	001.000000	01.000	00.350
155	I	PEPPERS-SWEET (GARDEN)	002.000000	01.000	00.220
156	I	PEPPERS-CHILLI INCL JALAPENO	002.000000	01.000	00.030
157	I	PEPPERS-OTHER	002.000000	01.000	00.030
158	I	PIMIENTOS	002.000000	01.000	00.220
159	I	TOMATOES-WHOLE	002.000000	01.000	00.080
160	I	TOMATOES-JUICE	002.000000	01.500	00.080
161	I	TOMATOES-PUREE	002.000000	03.300	00.080
162	I	TOMATOES-PASTE	002.000000	05.400	00.080
163	I	TOMATOES-CATSUP	002.000000	02.500	00.080
166	E	CELERY	002.000000	01.000	01.000
168	F	BROCCOLI	002.000000	01.000	00.220
169	F	BRUSSELS SPROUTS	005.000000	01.000	00.010
170	F	CABBAGE-GREEN AND RED	002.000000	01.000	00.250
171	F	CAULIFLOWER	002.000000	01.000	00.190
172	F	COLLARDS	002.000000	01.000	00.250
173	F	CABBAGE-CHINESE/CELERY/BOK CHO	002.000000	01.000	00.250
174	F	KALE	002.000000	01.000	01.000
176	E	LETTUCE-LEAFY VARIETIES	002.000000	01.000	00.490
178	E	ENDIVE-CURLEY AND ESCAROLE	002.000000	01.000	01.000
179	S	FENNEL	002.000000	01.000	01.000
182	E	LETTUCE-UNSPECIFIED	002.000000	01.000	00.490
183	F	MUSTARD GREENS	002.000000	01.000	01.000
186	E	SPINACH	002.000000	01.000	00.060
187	E	SWISS CHARD	002.000000	01.000	01.000
188	C	TURNIPS-TOPS	002.000000	01.000	01.000
192	E	LETTUCE-HEAD VARIETIES	002.000000	01.000	00.490
195	A	GRAPES-LEAVES	001.000000	01.000	00.010
207	B	POTATOES/WHITE-WHOLE	000.200000	01.000	00.020
208	B	POTATOES/WHITE-UNSPECIFIED	000.200000	01.000	00.020
209	B	POTATOES/WHITE-PEELED	000.200000	01.000	00.020
210	B	POTATOES/WHITE-DRY	000.200000	06.500	00.020
211	B	POTATOES/WHITE-PEEL ONLY	000.200000	01.000	01.000
219	B	TURNIPS-ROOTS	002.000000	01.000	01.000
227	G	BEANS-DRY-GREAT NORTHERN	002.000000	01.000	00.040

TABLE 4

U.S. Environmental Protection Agency
 DEEM89N CHRONIC analysis for 035001 DIMETHOATE
 Residue file name: 035001RR
 Analysis Date 08-05-1998
 Reference dose (RfD, CHRONIC) = 0.000500 mg/kg body-wt/day

Ver. 6.12
 (1989-92 data)
 Adjustment factor #2 used.
 Residue file dated: 08-05-1998/13:53:33/8

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Total exposure by population subgroup

Population Subgroup	Total Exposure	
	mg/kg body wt/day	Percent of Rfd
U.S. Pop - 48 states - all seasons	0.000032	6.4%
U.S. Population - spring season	0.000034	6.8%
U.S. Population - summer season	0.000032	6.4%
U.S. Population - autumn season	0.000029	5.8%
U.S. Population - winter season	0.000034	6.7%
Northeast region	0.000034	6.8%
Midwest region	0.000031	6.2%
Southern region	0.000032	6.4%
Western region	0.000031	6.2%
Pacific Region	0.000034	6.8%
Hispanics	0.000024	4.9%
Non-hispanic whites	0.000034	6.8%
Non-hispanic blacks	0.000025	5.1%
Non-hispanic other than black or white	0.000029	5.9%
All infants (<1 year)	0.000040	8.0%
Nursing infants (<1 year)	0.000006	1.2%
Non-nursing infants (<1 year)	0.000054	10.9%
Children (1-6 years)	0.000066	13.2%
Children (7-12 years)	0.000040	8.0%
Females (13-19 yrs/not preg. or nursing)	0.000022	4.4%
Females (20+ years/not preg. or nursing)	0.000027	5.4%
Females (13-50 years)	0.000024	4.9%
Females (13+/pregnant/not nursing)	0.000020	4.1%
Females (13+/nursing)	0.000047	9.5%
Males (13-19 years)	0.000033	6.5%
Males (20+ years)	0.000027	5.3%
Seniors (55+)	0.000030	6.0%

357 V	TURKEY--FAT W/O BONES	000.020000	01.000	01.000
358 V	TURKEY-LEAN/FAT FREE W/O BONE	000.020000	01.000	01.000
360 V	POULTRY-OTHER-LEAN (FAT FREE)	000.020000	01.000	01.000
361 V	POULTRY-OTHER-GIBLETS (LIVER)	000.020000	01.000	01.000
362 V	POULTRY-OTHER-FAT W/O BONES	000.020000	01.000	01.000
363 X	EGGS-WHOLE	000.020000	01.000	01.000
364 X	EGGS-WHITE ONLY	000.020000	01.000	01.000
365 X	EGGS-YOLK ONLY	000.020000	01.000	01.000
366 V	CHICKEN-BYPRODUCTS	000.020000	01.000	01.000
367 V	CHICKEN-GIBLETS (LIVER)	000.020000	01.000	01.000
368 V	CHICKEN-FAT W/O BONES	000.020000	01.000	01.000
369 V	CHICKEN-LEAN/FATFREE W/O BONE	000.020000	01.000	01.000
377 L	APPLES-JUICE-CONCENTRATE	002.000000	03.900	00.150
383 F	CABBAGE-SAVOY	002.000000	01.000	00.250
385 V	CHICKEN-GIBLETS (EXCL. LIVER)	000.020000	01.000	01.000
388 O	CORN GRAIN/SUGAR-MOLASSES	000.100000	01.500	00.010
392 A	GRAPES-JUICE-CONCENTRATE	001.000000	03.600	00.010
398 X	MILK-BASED WATER	000.002000	01.000	01.000
404 L	PEARS-JUICE	002.000000	01.000	00.020
405 G	PEAS-SUCCUL./BLACKEYE/COWPEA	002.000000	01.000	00.270
420 K	TANGERINES-JUICE-CONCENTRATE	002.000000	07.350	00.120
423 I	TOMATOES-DRIED	002.000000	14.300	00.080
436 J	WATERMELON-JUICE	001.000000	01.000	00.350
437 O	WHEAT-GERM OIL	000.040000	01.000	00.020
441 K	GRAPEFRUIT-JUICE-CONCENTRATE	002.000000	08.260	00.120
442 K	LEMONS-JUICE-CONCENTRATE	002.000000	11.400	00.120
448 K	GRAPEFRUIT PEEL	002.000000	01.000	00.120
449 V	TURKEY-OTHER ORGAN MEATS	000.020000	01.000	01.000
467 S	CELERY SEED	002.000000	01.000	01.000
482 A	SOYBEANS-PROTEIN ISOLATE	000.050000	01.000	00.010

228 G	BEANS-DRY-KIDNEY	002.000000	01.000 00.040
229 G	BEANS-DRY-LIMA	002.000000	01.000 00.040
230 G	BEANS-DRY-NAVY (PEA)	002.000000	01.000 00.040
231 G	BEANS-DRY-OTHER	002.000000	01.000 00.040
232 G	BEANS-DRY-PINTO	002.000000	01.000 00.040
233 G	BEANS-SUCCULENT-LIMA	002.000000	01.000 00.130
234 G	BEANS-SUCCULENT-GREEN	002.000000	01.000 00.130
235 G	BEANS-SUCCULENT-OTHER	002.000000	01.000 00.130
236 G	BEANS-SUCCULENT-YELLOW/WAX	002.000000	01.000 00.130
238 O	CORN/SWEET	000.100000	01.000 00.010
240 G	PEAS (GARDEN) -DRY	002.000000	01.000 00.020
241 G	PEAS (GARDEN) -GREEN	002.000000	01.000 00.270
243 G	LENTILS	002.000000	01.000 01.000
244 G	MUNG BEANS (SPROUTS)	002.000000	01.000 01.000
249 G	BEANS-DRY-BROADBEANS	002.000000	01.000 00.040
250 G	BEANS-SUCCULENT-BROADBEANS	002.000000	01.000 00.130
251 G	BEANS-DRY-PIGEON BEANS	002.000000	01.000 00.040
253 G	BEANS-UNSPECIFIED	002.000000	01.000 00.040
255 G	SOYBEANS-SPROUTED SEEDS	000.050000	00.330 00.010
256 G	BEANS-DRY-HYACINTH	002.000000	01.000 00.040
257 G	BEANS-SUCCULENT-HYACINTH	002.000000	01.000 00.130
258 G	BEANS-DRY-BLACK EYE PEAS/COWPEA	002.000000	01.000 00.040
259 G	BEANS-DRY-GARBANZO/CHICK PEA	002.000000	01.000 00.040
260 A	ASPARAGUS	000.150000	01.000 01.000
266 O	CORN GRAIN-ENDOSPERM	000.100000	01.000 00.010
267 O	CORN GRAIN-BRAN	000.100000	01.000 00.010
268 O	CORN GRAIN/SUGAR/HFCS	000.100000	01.500 00.010
275 O	SORGHUM (INCLUDING MILO)	000.100000	01.000 00.050
276 O	WHEAT-ROUGH	000.040000	01.000 00.020
277 O	WHEAT-GERM	000.040000	01.000 00.020
278 O	WHEAT-BRAN	000.040000	01.000 00.020
279 O	WHEAT-FLOUR	000.040000	01.000 00.020
289 O	CORN GRAIN-OIL	000.100000	01.000 00.010
290 A	COTTONSEED-OIL	000.100000	01.000 00.140
291 A	COTTONSEED-MEAL	000.100000	01.000 00.140
294 A	SAFFLOWER-SEED	000.100000	01.000 00.190
295 A	SAFFLOWER-OIL	000.100000	01.000 00.190
297 G	SOYBEANS-OIL	000.050000	01.000 00.010
303 G	SOYBEAN-OTHER	000.050000	01.000 00.010
304 G	SOYBEANS-MATURE SEEDS DRY	000.050000	01.000 00.010
305 G	SOYBEANS-FLOUR (FULL FAT)	000.050000	01.000 00.010
306 G	SOYBEANS-FLOUR (LOW FAT)	000.050000	01.000 00.010
307 G	SOYBEANS-FLOUR (DEFATTED)	000.050000	01.000 00.010
315 A	GRAPES-WINE AND SHERRY	001.000000	01.000 00.010
318 X	MILK-NONFAT SOLIDS	000.002000	01.000 01.000
319 X	MILK-FAT SOLIDS	000.002000	01.000 01.000
320 X	MILK SUGAR (LACTOSE)	000.002000	01.000 01.000
321 U	BEEF-MEAT BYPRODUCTS	000.020000	01.000 01.000
322 U	BEEF-OTHER ORGAN MEATS	000.020000	01.000 01.000
323 U	BEEF-DRIED	000.020000	01.920 01.000
324 U	BEEF-FAT W/O BONES	000.020000	01.000 01.000
325 U	BEEF-KIDNEY	000.020000	01.000 01.000
326 U	BEEF-LIVER	000.020000	01.000 01.000
327 U	BEEF-LEAN (FAT/FREE) W/O BONES	000.020000	01.000 01.000
328 U	GOAT-MEAT BYPRODUCTS	000.020000	01.000 01.000
329 U	GOAT-OTHER ORGAN MEATS	000.020000	01.000 01.000
330 U	GOAT-FAT W/O BONE	000.020000	01.000 01.000
331 U	GOAT-KIDNEY	000.020000	01.000 01.000
332 U	GOAT-LIVER	000.020000	01.000 01.000
333 U	GOAT-LEAN (FAT/FREE) W/O BONE	000.020000	01.000 01.000
334 U	HORSEMEAT	000.020000	01.000 01.000
336 U	SHEEP-MEAT BYPRODUCTS	000.020000	01.000 01.000
337 U	SHEEP-OTHER ORGAN MEATS	000.020000	01.000 01.000
338 U	SHEEP-FAT W/O BONE	000.020000	01.000 01.000
339 U	SHEEP-KIDNEY	000.020000	01.000 01.000
340 U	SHEEP-LIVER	000.020000	01.000 01.000
341 U	SHEEP-LEAN (FAT FREE) W/O BONE	000.020000	01.000 01.000
342 U	PORK-MEAT BYPRODUCTS	000.020000	01.000 01.000
343 U	PORK- OTHER ORGAN MEATS	000.020000	01.000 01.000
344 U	PORK-FAT W/O BONE	000.020000	01.000 01.000
345 U	PORK-KIDNEY	000.020000	01.000 01.000
346 U	PORK-LIVER	000.020000	01.000 01.000
347 U	PORK-LEAN (FAT FREE) W/O BONE	000.020000	01.000 01.000
355 V	TURKEY-BYPRODUCTS	000.020000	01.000 01.000
356 V	TURKEY-GIBLETS (LIVER)	000.020000	01.000 01.000

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Percent of Person-Days that are User-Days = 67.11%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000032	1,887	10.00	0.061402	1
80.00	0.000048	1,262	5.00	0.103709	1
70.00	0.000147	408	2.50	0.176532	0
60.00	0.000156	385	1.00	0.326367	0
50.00	0.000165	364	0.50	0.496709	0
40.00	0.000222	270	0.25	0.591060	0
30.00	0.003714	16	0.10	0.647670	0
20.00	0.017542	3			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000000	>1,000,000	10.00	0.039908	2
80.00	0.000000	>1,000,000	5.00	0.082977	1
70.00	0.000000	>1,000,000	2.50	0.140845	0
60.00	0.000033	1,833	1.00	0.277416	0
50.00	0.000102	586	0.50	0.413233	0
40.00	0.000156	384	0.25	0.544823	0
30.00	0.000195	308	0.10	0.629175	0
20.00	0.003990	15			

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U.S. Environmental Protection Agency Ver. 6.27
DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
NOEL (Acute) = 0.060000 mg/kg body-wt/day

Non-nursing infants (<1 yr)	Daily Exposure Analysis (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.027558	0.027558
Standard Deviation	0.031127	0.031127
Standard Error	0.001462	0.001462
Margin of Exposure	2	2

Percent of Person-Days that are User-Days =100.00%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000160	375	10.00	0.069246	1
80.00	0.000197	305	5.00	0.079644	1
70.00	0.000816	74	2.50	0.094457	1
60.00	0.004476	13	1.00	0.135737	0
50.00	0.016924	4	0.50	0.145130	0
40.00	0.029561	2	0.25	0.155635	0
30.00	0.039480	2	0.10	0.162210	0
20.00	0.056003	1			

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 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

U.S. pop - all seasons Daily Exposure Analysis 1/
 ----- (mg/kg body-weight/day)
 per Capita per User

 Mean 0.014407 0.014444
 Standard Deviation 0.019829 0.019841
 Standard Error 0.000105 0.000105
 Margin of Exposure 2/ 4 4

Percent of Person-Days that are User-Days = 99.74%

Estimated percentile of user-days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000925	65	10.00	0.034124	2
80.00	0.002296	26	5.00	0.049268	1
70.00	0.003877	15	2.50	0.068400	1
60.00	0.005683	11	1.00	0.094886	1
50.00	0.008027	7	0.50	0.114819	1
40.00	0.011407	5	0.25	0.139658	0
30.00	0.015726	4	0.10	0.175638	0
20.00	0.021821	3			

Estimated percentile of per-capita days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000904	66	10.00	0.034092	2
80.00	0.002268	26	5.00	0.049229	1
70.00	0.003848	16	2.50	0.068351	1
60.00	0.005655	11	1.00	0.094840	1
50.00	0.007996	8	0.50	0.114768	1
40.00	0.011372	5	0.25	0.139594	0
30.00	0.015693	4	0.10	0.175576	0
20.00	0.021789	3			

1/ Analysis based on all three-day participant records in CSFII 1989-92 survey.
 2/ Margin of Exposure = NOEL/ Dietary Exposure.

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U.S. Environmental Protection Agency Ver. 6.27
 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
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 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Nursing infants (<1 year) Daily Exposure Analysis
 ----- (mg/kg body-weight/day)
 per Capita per User

 Mean 0.015289 0.022782
 Standard Deviation 0.061265 0.073640
 Standard Error 0.004953 0.007987
 Margin of Exposure 4 3

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 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Children (7-12 years) Daily Exposure Analysis

 (mg/kg body-weight/day)
 per Capita per User

 Mean 0.021720 0.021725
 Standard Deviation 0.021886 0.021887
 Standard Error 0.000373 0.000373
 Margin of Exposure 3 3

Percent of Person-Days that are User-Days = 99.98%

Estimated percentile of user-days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.002028	30	10.00	0.048186	1
80.00	0.004360	14	5.00	0.066910	1
70.00	0.007346	8	2.50	0.082849	1
60.00	0.010618	6	1.00	0.101663	1
50.00	0.014952	4	0.50	0.117638	1
40.00	0.021128	3	0.25	0.130861	0
30.00	0.027032	2	0.10	0.151312	0
20.00	0.035198	2			

Estimated percentile of per-capita days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.002024	30	10.00	0.048183	1
80.00	0.004355	14	5.00	0.066906	1
70.00	0.007341	8	2.50	0.082845	1
60.00	0.010614	6	1.00	0.101660	1
50.00	0.014947	4	0.50	0.117634	1
40.00	0.021122	3	0.25	0.130858	0
30.00	0.027028	2	0.10	0.151308	0
20.00	0.035194	2			

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 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Females (13+/preg/not nsg) Daily Exposure Analysis

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Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000160	375	10.00	0.069246	1
80.00	0.000197	305	5.00	0.079644	1
70.00	0.000816	74	2.50	0.094457	1
60.00	0.004476	13	1.00	0.135737	0
50.00	0.016924	4	0.50	0.145130	0
40.00	0.029561	2	0.25	0.155635	0
30.00	0.039480	2	0.10	0.162210	0
20.00	0.056003	1			

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U.S. Environmental Protection Agency Ver. 6.27
DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
NOEL (Acute) = 0.060000 mg/kg body-wt/day

Children (1-6 years)	Daily Exposure Analysis (mg/kg body-weight/day) per Capita per User	
Mean	0.038165	0.038177
Standard Deviation	0.039338	0.039339
Standard Error	0.000636	0.000636
Margin of Exposure	2	2

Percent of Person-Days that are User-Days = 99.97%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.002160	28	10.00	0.086826	1
80.00	0.006242	10	5.00	0.108475	1
70.00	0.011692	5	2.50	0.132303	0
60.00	0.018772	3	1.00	0.170384	0
50.00	0.027339	2	0.50	0.209427	0
40.00	0.038408	2	0.25	0.257651	0
30.00	0.050309	1	0.10	0.299920	0
20.00	0.063267	1			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.002154	28	10.00	0.086819	1
80.00	0.006233	10	5.00	0.108469	1
70.00	0.011681	5	2.50	0.132296	0
60.00	0.018759	3	1.00	0.170376	0
50.00	0.027326	2	0.50	0.209415	0
40.00	0.038395	2	0.25	0.257636	0
30.00	0.050299	1	0.10	0.299912	0
20.00	0.063259	1			

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80.00	0.004522	13	5.00	0.045998	1
70.00	0.005988	10	2.50	0.065452	1
60.00	0.008337	7	1.00	0.089804	1
50.00	0.009738	6	0.50	0.095522	1
40.00	0.012227	5	0.25	0.098381	1
30.00	0.020291	3	0.10	0.100096	1
20.00	0.030356	2			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.001429	42	10.00	0.038133	2
80.00	0.004522	13	5.00	0.045998	1
70.00	0.005988	10	2.50	0.065452	1
60.00	0.008337	7	1.00	0.089804	1
50.00	0.009738	6	0.50	0.095522	1
40.00	0.012227	5	0.25	0.098381	1
30.00	0.020291	3	0.10	0.100096	1
20.00	0.030356	2			

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U.S. Environmental Protection Agency Ver. 6.27
DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
NOEL (Acute) = 0.060000 mg/kg body-wt/day

Females (13-19 yrs/np/nn)		Daily Exposure Analysis (mg/kg body-weight/day)	
		per Capita	per User
Mean		0.012462	0.012485
Standard Deviation		0.014368	0.014372
Standard Error		0.000345	0.000346
Margin of Exposure		5	5

Percent of Person-Days that are User-Days = 99.81%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000820	73	10.00	0.032531	2
80.00	0.001895	32	5.00	0.041575	1
70.00	0.002978	20	2.50	0.052638	1
60.00	0.004714	13	1.00	0.062041	1
50.00	0.006566	9	0.50	0.072670	1
40.00	0.010152	6	0.25	0.090301	1
30.00	0.015343	4	0.10	0.100473	1
20.00	0.021635	3			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000806	74	10.00	0.032511	2
80.00	0.001879	32	5.00	0.041558	1
70.00	0.002964	20	2.50	0.052617	1

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	(mg/kg body-weight/day)	
	per Capita	per User
Mean	0.012451	0.012451
Standard Deviation	0.012472	0.012472
Standard Error	0.000632	0.000632
Margin of Exposure	5	5

Percent of Person-Days that are User-Days =100.00%

Estimated percentile of user-days exceeding calculated exposure in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000776	77	10.00	0.027508	2
80.00	0.002146	28	5.00	0.035661	2
70.00	0.003703	16	2.50	0.044002	1
60.00	0.006232	10	1.00	0.048439	1
50.00	0.008739	7	0.50	0.072842	1
40.00	0.011336	5	0.25	0.084337	1
30.00	0.016320	4	0.10	0.097820	1
20.00	0.022686	3			

Estimated percentile of per-capita days exceeding calculated exposure in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000776	77	10.00	0.027508	2
80.00	0.002146	28	5.00	0.035661	2
70.00	0.003703	16	2.50	0.044002	1
60.00	0.006232	10	1.00	0.048439	1
50.00	0.008739	7	0.50	0.072842	1
40.00	0.011336	5	0.25	0.084337	1
30.00	0.016320	4	0.10	0.097820	1
20.00	0.022686	3			

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U.S. Environmental Protection Agency Ver. 6.27
 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
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 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Females (13+/nursing)

Daily Exposure Analysis
 (mg/kg body-weight/day)
 per Capita per User

Mean	0.017134	0.017134
Standard Deviation	0.018613	0.018613
Standard Error	0.001284	0.001284
Margin of Exposure	4	4

Percent of Person-Days that are User-Days =100.00%

Estimated percentile of user-days exceeding calculated exposure in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.001429	42	10.00	0.038133	2

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DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
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 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Females (13-50 years)

Daily Exposure Analysis
 (mg/kg body-weight/day)
 per Capita per User

Mean	0.010834	0.010854
Standard Deviation	0.012222	0.012224
Standard Error	0.000120	0.000120
Margin of Exposure	6	6

Percent of Person-Days that are User-Days = 99.81%

Estimated percentile of user-days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000713	84	10.00	0.026536	2
80.00	0.001827	33	5.00	0.035893	2
70.00	0.003140	19	2.50	0.043119	1
60.00	0.004642	13	1.00	0.054321	1
50.00	0.006440	9	0.50	0.065311	1
40.00	0.009265	6	0.25	0.077377	1
30.00	0.013090	5	0.10	0.095909	1
20.00	0.018316	3			

Estimated percentile of per-capita days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000701	86	10.00	0.026521	2
80.00	0.001811	33	5.00	0.035876	2
70.00	0.003123	19	2.50	0.043106	1
60.00	0.004625	13	1.00	0.054307	1
50.00	0.006423	9	0.50	0.065291	1
40.00	0.009244	6	0.25	0.077354	1
30.00	0.013069	5	0.10	0.095886	1
20.00	0.018297	3			

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U.S. Environmental Protection Agency Ver. 6.27
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 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Males (13-19 years)

Daily Exposure Analysis
 (mg/kg body-weight/day)
 per Capita per User

Mean	0.012450	0.012450
Standard Deviation	0.013091	0.013091
Standard Error	0.000335	0.000335
Margin of Exposure	5	5

Percent of Person-Days that are User-Days = 100.00%

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60.00	0.004695	13	1.00	0.062029	1
50.00	0.006549	9	0.50	0.072651	1
40.00	0.010125	6	0.25	0.090268	1
30.00	0.015314	4	0.10	0.100460	1
20.00	0.021612	3			

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U.S. Environmental Protection Agency Ver. 6.27
 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Females (20+ years/np/nn)	Daily Exposure Analysis (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.010330	0.010350
Standard Deviation	0.010686	0.010687
Standard Error	0.000091	0.000091
Margin of Exposure	6	6

Percent of Person-Days that are User-Days = 99.81%

Estimated percentile of user-days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000778	77	10.00	0.023954	3
80.00	0.002051	29	5.00	0.031025	2
70.00	0.003482	17	2.50	0.039119	2
60.00	0.005043	12	1.00	0.047495	1
50.00	0.006883	9	0.50	0.054786	1
40.00	0.009492	6	0.25	0.063564	1
30.00	0.012915	5	0.10	0.078032	1
20.00	0.017243	3			

Estimated percentile of per-capita days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000764	79	10.00	0.023942	3
80.00	0.002031	30	5.00	0.031012	2
70.00	0.003463	17	2.50	0.039103	2
60.00	0.005025	12	1.00	0.047485	1
50.00	0.006865	9	0.50	0.054772	1
40.00	0.009472	6	0.25	0.063547	1
30.00	0.012895	5	0.10	0.078013	1
20.00	0.017227	3			

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2343

in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000935	64	10.00	0.023319	3
80.00	0.002072	29	5.00	0.030247	2
70.00	0.003399	18	2.50	0.037473	2
60.00	0.004858	12	1.00	0.047896	1
50.00	0.006595	9	0.50	0.058796	1
40.00	0.008846	7	0.25	0.077300	1
30.00	0.012257	5	0.10	0.095225	1
20.00	0.016590	4			

12

U.S. Environmental Protection Agency Ver. 6.27
 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Summary calculations:

	95th Percentile Exposure	MOE	99th Percentile Exposure	MOE	99.9 Percentile Exposure	MOE
U.S. pop - all seasons:						
Nursing infants (<1 year):	0.049229	1	0.094840	1	0.175576	0
Non-nursing infants (<1 yr):	0.082977	1	0.277416	0	0.629175	0
Children (1-6 years):	0.079644	1	0.135737	0	0.162210	0
Children (7-12 years):	0.108469	1	0.170376	0	0.299912	0
Females (13+/preg/not nsg):	0.066906	1	0.101660	1	0.151308	0
Females (13+/nursing):	0.035661	2	0.048439	1	0.097820	1
Females (13-19 yrs/np/nn):	0.045998	1	0.089804	1	0.100096	1
Females (20+ years/np/nn):	0.041558	1	0.062029	1	0.100460	1
Females (13-50 years):	0.031012	2	0.047485	1	0.078013	1
Males (13-19 years):	0.035876	2	0.054307	1	0.095886	1
Males (20+ years):	0.037990	2	0.059137	1	0.086857	1
	0.030247	2	0.047896	1	0.095225	1

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Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000781	77	10.00	0.031119	2
80.00	0.002183	27	5.00	0.037990	2
70.00	0.003559	17	2.50	0.044035	1
60.00	0.004994	12	1.00	0.059137	1
50.00	0.007712	8	0.50	0.072669	1
40.00	0.011767	5	0.25	0.081758	1
30.00	0.015834	4	0.10	0.086857	1
20.00	0.021762	3			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000781	77	10.00	0.031119	2
80.00	0.002183	27	5.00	0.037990	2
70.00	0.003559	17	2.50	0.044035	1
60.00	0.004994	12	1.00	0.059137	1
50.00	0.007712	8	0.50	0.072669	1
40.00	0.011767	5	0.25	0.081758	1
30.00	0.015834	4	0.10	0.086857	1
20.00	0.021762	3			

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U.S. Environmental Protection Agency Ver. 6.27
DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
NOEL (Acute) = 0.060000 mg/kg body-wt/day

Males (20+ years)	Daily Exposure Analysis (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.010049	0.010059
Standard Deviation	0.010755	0.010756
Standard Error	0.000107	0.000107
Margin of Exposure	6	6

Percent of Person-Days that are User-Days = 99.90%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000943	64	10.00	0.023325	3
80.00	0.002081	29	5.00	0.030253	2
70.00	0.003408	18	2.50	0.037480	2
60.00	0.004866	12	1.00	0.047903	1
50.00	0.006603	9	0.50	0.058807	1
40.00	0.008855	7	0.25	0.077317	1
30.00	0.012267	5	0.10	0.095236	1
20.00	0.016598	4			

Estimated percentile of per-capita days exceeding calculated exposure

25q3

228 G	BEANS-DRY-KIDNEY	002.000000	01.000	00.040
229 G	BEANS-DRY-LIMA	002.000000	01.000	00.040
230 G	BEANS-DRY-NAVY (PEA)	002.000000	01.000	00.040
231 G	BEANS-DRY-OTHER	002.000000	01.000	00.040
232 G	BEANS-DRY-PINTO	002.000000	01.000	00.040
233 G	BEANS-SUCCULENT-LIMA	002.000000	01.000	00.130
234 G	BEANS-SUCCULENT-GREEN	002.000000	01.000	00.130
235 G	BEANS-SUCCULENT-OTHER	002.000000	01.000	00.130
236 G	BEANS-SUCCULENT-YELLOW/WAX	002.000000	01.000	00.130
238 O	CORN/SWEET	000.100000	01.000	00.010
240 G	PEAS (GARDEN)-DRY	002.000000	01.000	00.020
241 G	PEAS (GARDEN)-GREEN	002.000000	01.000	00.270
244 G	MUNG BEANS (SPROUTS)	002.000000	01.000	01.000
249 G	BEANS-DRY-BROADBEANS	002.000000	01.000	00.040
250 G	BEANS-SUCCULENT-BROADBEANS	002.000000	01.000	00.130
251 G	BEANS-DRY-PIGEON BEANS	002.000000	01.000	00.040
253 G	BEANS-UNSPECIFIED	002.000000	01.000	00.040
255 G	SOYBEANS-SPROUTED SEEDS	000.050000	00.330	00.010
256 G	BEANS-DRY-HYACINTH	002.000000	01.000	00.040
257 G	BEANS-SUCCULENT-HYACINTH	002.000000	01.000	00.130
258 G	BEANS-DRY-BLACK EYE PEAS/COWPEA	002.000000	01.000	00.040
259 G	BEANS-DRY-GARBANZO/CHICK PEA	002.000000	01.000	00.040
260 A	ASPARAGUS	000.150000	01.000	01.000
266 O	CORN GRAIN-ENDOSPERM	000.100000	01.000	00.010
267 O	CORN GRAIN-BRAN	000.100000	01.000	00.010
268 O	CORN GRAIN/SUGAR/HFCS	000.100000	01.500	00.010
275 O	SORGHUM (INCLUDING MILO)	000.100000	01.000	00.050
276 O	WHEAT-ROUGH	000.040000	01.000	00.020
277 O	WHEAT-GERM	000.040000	01.000	00.020
278 O	WHEAT-BRAN	000.040000	01.000	00.020
279 O	WHEAT-FLOUR	000.040000	01.000	00.020
289 O	CORN GRAIN-OIL	000.100000	01.000	00.010
290 A	COTTONSEED-OIL	000.100000	01.000	00.140
291 A	COTTONSEED-MEAL	000.100000	01.000	00.140
294 A	SAFFLOWER-SEED	000.100000	01.000	00.190
295 A	SAFFLOWER-OIL	000.100000	01.000	00.190
297 G	SOYBEANS-OIL	000.050000	01.000	00.010
303 G	SOYBEAN-OTHER	000.050000	01.000	00.010
304 G	SOYBEANS-MATURE SEEDS DRY	000.050000	01.000	00.010
305 G	SOYBEANS-FLOUR (FULL FAT)	000.050000	01.000	00.010
306 G	SOYBEANS-FLOUR (LOW FAT)	000.050000	01.000	00.010
307 G	SOYBEANS-FLOUR (DEFATTED)	000.050000	01.000	00.010
315 A	GRAPES-WINE AND SHERRY	001.000000	01.000	00.010
318 X	MILK-NONFAT SOLIDS	000.002000	01.000	01.000
319 X	MILK-FAT SOLIDS	000.002000	01.000	01.000
320 X	MILK SUGAR (LACTOSE)	000.002000	01.000	01.000
321 U	BEEF-MEAT BYPRODUCTS	000.020000	01.000	01.000
322 U	BEEF-OTHER ORGAN MEATS	000.020000	01.000	01.000
323 U	BEEF-DRIED	000.020000	01.920	01.000
324 U	BEEF-FAT W/O BONES	000.020000	01.000	01.000
325 U	BEEF-KIDNEY	000.020000	01.000	01.000
326 U	BEEF-LIVER	000.020000	01.000	01.000
327 U	BEEF-LEAN (FAT/FREE) W/O BONES	000.020000	01.000	01.000
328 U	GOAT-MEAT BYPRODUCTS	000.020000	01.000	01.000
329 U	GOAT-OTHER ORGAN MEATS	000.020000	01.000	01.000
330 U	GOAT-FAT W/O BONE	000.020000	01.000	01.000
331 U	GOAT-KIDNEY	000.020000	01.000	01.000
332 U	GOAT-LIVER	000.020000	01.000	01.000
333 U	GOAT-LEAN (FAT/FREE) W/O BONE	000.020000	01.000	01.000
334 U	HORSEMEAT	000.020000	01.000	01.000
336 U	SHEEP-MEAT BYPRODUCTS	000.020000	01.000	01.000
337 U	SHEEP-OTHER ORGAN MEATS	000.020000	01.000	01.000
338 U	SHEEP-FAT W/O BONE	000.020000	01.000	01.000
339 U	SHEEP-KIDNEY	000.020000	01.000	01.000
340 U	SHEEP-LIVER	000.020000	01.000	01.000
341 U	SHEEP-LEAN (FAT FREE) W/O BONE	000.020000	01.000	01.000
342 U	PORK-MEAT BYPRODUCTS	000.020000	01.000	01.000
343 U	PORK- OTHER ORGAN MEATS	000.020000	01.000	01.000
344 U	PORK-FAT W/O BONE	000.020000	01.000	01.000
345 U	PORK-KIDNEY	000.020000	01.000	01.000
346 U	PORK-LIVER	000.020000	01.000	01.000
347 U	PORK-LEAN (FAT FREE) W/O BONE	000.020000	01.000	01.000
355 V	TURKEY-BYPRODUCTS	000.020000	01.000	01.000
356 V	TURKEY-GIBLETS (LIVER)	000.020000	01.000	01.000
357 V	TURKEY--FAT W/O BONES	000.020000	01.000	01.000

U.S. Environmental Protection Agency
 DEEM Acute analysis for 035001 DIMETHOATE
 Residue file name: C:\deem\resdata\035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date 08-06-1998
 Reference dose (NOEL, Acute) 0 mg/day

171111 +

Ver. 6.08
 1989/92 data

Food Code	Crop Grp	Food Name	RESIDUE (ppm)	Adj. Factors #1	Adj. Factors #2
007	N	BLUEBERRIES	001.000000	01.000	01.000
013	A	GRAPES	001.000000	01.000	00.010
014	A	GRAPES-RAISINS	001.000000	04.300	00.010
015	A	GRAPES-JUICE	001.000000	01.200	00.010
022	K	GRAPEFRUIT-PEELED FRUIT	002.000000	01.000	00.120
023	K	GRAPEFRUIT-JUICE	002.000000	02.100	00.120
026	K	LEMONS-PEELED FRUIT	002.000000	01.000	00.120
027	K	LEMONS-PEEL	002.000000	01.000	00.120
028	K	LEMONS-JUICE	002.000000	02.000	00.120
033	K	ORANGES-JUICE-CONCENTRATE	002.000000	06.700	00.120
034	K	ORANGES-PEELED FRUIT	002.000000	01.000	00.120
035	K	ORANGES-PEEL	002.000000	01.000	00.120
036	K	ORANGES-JUICE	002.000000	01.800	00.120
038	K	TANGERINES	002.000000	01.000	00.120
039	K	TANGERINES-JUICE	002.000000	02.300	00.120
047	R	PECANS	000.100000	01.000	00.160
052	L	APPLES	002.000000	01.000	00.150
053	L	APPLES-DRIED	002.000000	08.000	00.150
054	L	APPLES-JUICE/CIDER	002.000000	01.300	00.150
056	L	PEARS	002.000000	01.000	00.020
057	L	PEARS-DRIED	002.000000	06.250	00.020
061	M	CHERRIES	002.000000	01.000	01.000
062	M	CHERRIES-DRIED	002.000000	04.000	01.000
063	M	CHERRIES-JUICE	002.000000	01.500	01.000
141	J	MELONS-CANTALOUPE-JUICE	001.000000	01.000	00.350
142	J	MELONS-CANTALOUPE-PULP	001.000000	01.000	00.350
143	J	CASABAS	001.000000	01.000	00.350
144	J	CRENSHAW	001.000000	01.000	00.350
145	J	MELONS-HONEYDEW	001.000000	01.000	00.350
146	J	MELONS-PERSIAN	001.000000	01.000	00.350
147	J	WATERMELON	001.000000	01.000	00.350
155	I	PEPPERS-SWEET (GARDEN)	002.000000	01.000	00.220
156	I	PEPPERS-CHILLI INCL JALAPENO	002.000000	01.000	00.030
157	I	PEPPERS-OTHER	002.000000	01.000	00.030
158	I	PIMIENTOS	002.000000	01.000	00.220
159	I	TOMATOES-WHOLE	002.000000	01.000	00.080
160	I	TOMATOES-JUICE	002.000000	01.500	00.080
161	I	TOMATOES-PUREE	002.000000	03.300	00.080
162	I	TOMATOES-PASTE	002.000000	05.400	00.080
163	I	TOMATOES-CATSUP	002.000000	02.500	00.080
166	E	CELERY	002.000000	01.000	01.000
168	F	BROCCOLI	002.000000	01.000	00.220
169	F	BRUSSELS SPROUTS	005.000000	01.000	00.010
170	F	CABBAGE-GREEN AND RED	002.000000	01.000	00.250
171	F	CAULIFLOWER	002.000000	01.000	00.190
172	F	COLLARDS	002.000000	01.000	00.250
173	F	CABBAGE-CHINESE/CELERY/BOK CHO	002.000000	01.000	00.250
174	F	KALE	002.000000	01.000	01.000
176	E	LETTUCE-LEAFY VARIETIES	002.000000	01.000	00.490
178	E	ENDIVE-CURLEY AND ESCAROLE	002.000000	01.000	01.000
179	S	FENNEL	002.000000	01.000	01.000
182	E	LETTUCE-UNSPECIFIED	002.000000	01.000	00.490
183	F	MUSTARD GREENS	002.000000	01.000	01.000
186	E	SPINACH	002.000000	01.000	00.060
187	E	SWISS CHARD	002.000000	01.000	01.000
188	C	TURNIPS-TOPS	002.000000	01.000	01.000
192	E	LETTUCE-HEAD VARIETIES	002.000000	01.000	00.490
195	A	GRAPES-LEAVES	001.000000	01.000	00.010
207	B	POTATOES/WHITE-WHOLE	000.200000	01.000	00.020
208	B	POTATOES/WHITE-UNSPECIFIED	000.200000	01.000	00.020
209	B	POTATOES/WHITE-PEELED	000.200000	01.000	00.020
210	B	POTATOES/WHITE-DRY	000.200000	06.500	00.020
211	B	POTATOES/WHITE-PEEL ONLY	000.200000	01.000	01.000
219	B	TURNIPS-ROOTS	002.000000	01.000	01.000
227	G	BEANS-DRY-GREAT NORTHERN	002.000000	01.000	00.040

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U.S. Environmental Protection Agency Ver. 6.27
 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day
 =====

U.S. pop - all seasons Daily Exposure Analysis 1/
 ----- (mg/kg body-weight/day)
 per Capita per User

 Mean 0.014407 0.014444
 Standard Deviation 0.019829 0.019841
 Standard Error 0.000105 0.000105
 Margin of Exposure 2/ 4 4

Percent of Person-Days that are User-Days = 99.74%

Estimated percentile of user-days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000925	65	10.00	0.034124	2
80.00	0.002296	26	5.00	0.049268	1
70.00	0.003877	15	2.50	0.068400	1
60.00	0.005683	11	1.00	0.094886	1
50.00	0.008027	7	0.50	0.114819	1
40.00	0.011407	5	0.25	0.139658	0
30.00	0.015726	4	0.10	0.175638	0
20.00	0.021821	3			

Estimated percentile of per-capita days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000904	66	10.00	0.034092	2
80.00	0.002268	26	5.00	0.049229	1
70.00	0.003848	16	2.50	0.068351	1
60.00	0.005655	11	1.00	0.094840	1
50.00	0.007996	8	0.50	0.114768	1
40.00	0.011372	5	0.25	0.139594	0
30.00	0.015693	4	0.10	0.175576	0
20.00	0.021789	3			

- 1/ Analysis based on all three-day participant records in CSFII 1989-92 survey.
 2/ Margin of Exposure = NOEL/ Dietary Exposure.

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U.S. Environmental Protection Agency Ver. 6.27
 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day
 =====

Nursing infants (<1 year) Daily Exposure Analysis
 ----- (mg/kg body-weight/day)
 per Capita per User

 Mean 0.015289 0.022782
 Standard Deviation 0.061265 0.073640
 Standard Error 0.004953 0.007987
 Margin of Exposure 4 3

2843

358 V	TURKEY-LEAN/FAT FREE W/O BONE	000.020000	01.000	01.000
360 V	POULTRY-OTHER-LEAN (FAT FREE)	000.020000	01.000	01.000
361 V	POULTRY-OTHER-GIBLETS (LIVER)	000.020000	01.000	01.000
362 V	POULTRY-OTHER-FAT W/O BONES	000.020000	01.000	01.000
363 X	EGGS-WHOLE	000.020000	01.000	01.000
364 X	EGGS-WHITE ONLY	000.020000	01.000	01.000
365 X	EGGS-YOLK ONLY	000.020000	01.000	01.000
366 V	CHICKEN-BYPRODUCTS	000.020000	01.000	01.000
367 V	CHICKEN-GIBLETS (LIVER)	000.020000	01.000	01.000
368 V	CHICKEN-FAT W/O BONES	000.020000	01.000	01.000
369 V	CHICKEN-LEAN/FATFREE W/O BONE	000.020000	01.000	01.000
377 L	APPLES-JUICE-CONCENTRATE	002.000000	03.900	00.150
383 F	CABBAGE-SAVOY	002.000000	01.000	00.250
385 V	CHICKEN-GIBLETS (EXCL. LIVER)	000.020000	01.000	01.000
388 O	CORN GRAIN/SUGAR-MOLASSES	000.100000	01.500	00.010
392 A	GRAPES-JUICE-CONCENTRATE	001.000000	03.600	00.010
398 X	MILK-BASED WATER	000.002000	01.000	01.000
404 L	PEARS-JUICE	002.000000	01.000	00.020
405 G	PEAS-SUCCUL./BLACK EYE/COWPEA	002.000000	01.000	00.270
420 K	TANGERINES-JUICE-CONCENTRATE	002.000000	07.350	00.120
423 I	TOMATOES-DRIED	002.000000	14.300	00.080
436 J	WATERMELON-JUICE	001.000000	01.000	00.350
437 O	WHEAT-GERM OIL	000.040000	01.000	00.020
441 K	GRAPEFRUIT-JUICE-CONCENTRATE	002.000000	08.260	00.120
442 K	LEMONS-JUICE-CONCENTRATE	002.000000	11.400	00.120
448 K	GRAPEFRUIT PEEL	002.000000	01.000	00.120
449 V	TURKEY-OTHER ORGAN MEATS	000.020000	01.000	01.000
467 S	CELERY SEED	002.000000	01.000	01.000
482 A	SOYBEANS-PROTEIN ISOLATE	000.050000	01.000	00.010

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000160	375	10.00	0.069246	1
80.00	0.000197	305	5.00	0.079644	1
70.00	0.000816	74	2.50	0.094457	1
60.00	0.004476	13	1.00	0.135737	0
50.00	0.016924	4	0.50	0.145130	0
40.00	0.029561	2	0.25	0.155635	0
30.00	0.039480	2	0.10	0.162210	0
20.00	0.056003	1			

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U.S. Environmental Protection Agency Ver. 6.27
DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
NOEL (Acute) = 0.060000 mg/kg body-wt/day

Children (1-6 years)

Daily Exposure Analysis
(mg/kg body-weight/day)
per Capita per User

Mean	0.038165	0.038177
Standard Deviation	0.039338	0.039339
Standard Error	0.000636	0.000636
Margin of Exposure	2	2

Percent of Person-Days that are User-Days = 99.97%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.002160	28	10.00	0.086826	1
80.00	0.006242	10	5.00	0.108475	1
70.00	0.011692	5	2.50	0.132303	0
60.00	0.018772	3	1.00	0.170384	0
50.00	0.027339	2	0.50	0.209427	0
40.00	0.038408	2	0.25	0.257651	0
30.00	0.050309	1	0.10	0.299920	0
20.00	0.063267	1			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.002154	28	10.00	0.086819	1
80.00	0.006233	10	5.00	0.108469	1
70.00	0.011681	5	2.50	0.132296	0
60.00	0.018759	3	1.00	0.170376	0
50.00	0.027326	2	0.50	0.209415	0
40.00	0.038395	2	0.25	0.257636	0
30.00	0.050299	1	0.10	0.299912	0
20.00	0.063259	1			

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U.S. Environmental Protection Agency Ver. 6.27
 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Children (7-12 years) Daily Exposure Analysis
 ----- (mg/kg body-weight/day)
 per Capita per User

 Mean 0.021720 0.021725
 Standard Deviation 0.021886 0.021887
 Standard Error 0.000373 0.000373
 Margin of Exposure 3 3

Percent of Person-Days that are User-Days = 99.98%

Estimated percentile of user-days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.002028	30	10.00	0.048186	1
80.00	0.004360	14	5.00	0.066910	1
70.00	0.007346	8	2.50	0.082849	1
60.00	0.010618	6	1.00	0.101663	1
50.00	0.014952	4	0.50	0.117638	1
40.00	0.021128	3	0.25	0.130861	0
30.00	0.027032	2	0.10	0.151312	0
20.00	0.035198	2			

Estimated percentile of per-capita days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.002024	30	10.00	0.048183	1
80.00	0.004355	14	5.00	0.066906	1
70.00	0.007341	8	2.50	0.082845	1
60.00	0.010614	6	1.00	0.101660	1
50.00	0.014947	4	0.50	0.117634	1
40.00	0.021122	3	0.25	0.130858	0
30.00	0.027028	2	0.10	0.151308	0
20.00	0.035194	2			

U.S. Environmental Protection Agency Ver. 6.27
 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Females (13+/preg/not nsg) Daily Exposure Analysis

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(mg/kg body-weight/day)
per Capita per User

Percent of Person-Days that are User-Days = 67.11%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000032	1,887	10.00	0.061402	1
80.00	0.000048	1,262	5.00	0.103709	1
70.00	0.000147	408	2.50	0.176532	0
60.00	0.000156	385	1.00	0.326367	0
50.00	0.000165	364	0.50	0.496709	0
40.00	0.000222	270	0.25	0.591060	0
30.00	0.003714	16	0.10	0.647670	0
20.00	0.017542	3			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000000	>1,000,000	10.00	0.039908	2
80.00	0.000000	>1,000,000	5.00	0.082977	1
70.00	0.000000	>1,000,000	2.50	0.140845	0
60.00	0.000033	1,833	1.00	0.277416	0
50.00	0.000102	586	0.50	0.413233	0
40.00	0.000156	384	0.25	0.544823	0
30.00	0.000195	308	0.10	0.629175	0
20.00	0.003990	15			

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U.S. Environmental Protection Agency Ver. 6.27
DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
NOEL (Acute) = 0.060000 mg/kg body-wt/day

Non-nursing infants (<1 yr)	Daily Exposure Analysis	
	(mg/kg body-weight/day)	
	per Capita	per User
Mean	0.027558	0.027558
Standard Deviation	0.031127	0.031127
Standard Error	0.001462	0.001462
Margin of Exposure	2	2

Percent of Person-Days that are User-Days =100.00%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000160	375	10.00	0.069246	1
80.00	0.000197	305	5.00	0.079644	1
70.00	0.000816	74	2.50	0.094457	1
60.00	0.004476	13	1.00	0.135737	0
50.00	0.016924	4	0.50	0.145130	0
40.00	0.029561	2	0.25	0.155635	0
30.00	0.039480	2	0.10	0.162210	0
20.00	0.056003	1			

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Standard Deviation	0.012472	0.012472
Standard Error	0.000632	0.000632
Margin of Exposure	5	5

Percent of Person-Days that are User-Days =100.00%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000776	77	10.00	0.027508	2
80.00	0.002146	28	5.00	0.035661	2
70.00	0.003703	16	2.50	0.044002	1
60.00	0.006232	10	1.00	0.048439	1
50.00	0.008739	7	0.50	0.072842	1
40.00	0.011336	5	0.25	0.084337	1
30.00	0.016320	4	0.10	0.097820	1
20.00	0.022686	3			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000776	77	10.00	0.027508	2
80.00	0.002146	28	5.00	0.035661	2
70.00	0.003703	16	2.50	0.044002	1
60.00	0.006232	10	1.00	0.048439	1
50.00	0.008739	7	0.50	0.072842	1
40.00	0.011336	5	0.25	0.084337	1
30.00	0.016320	4	0.10	0.097820	1
20.00	0.022686	3			

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U.S. Environmental Protection Agency Ver. 6.27
DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
NOEL (Acute) = 0.060000 mg/kg body-wt/day

Females (13+/nursing)	Daily Exposure Analysis (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.017134	0.017134
Standard Deviation	0.018613	0.018613
Standard Error	0.001284	0.001284
Margin of Exposure	4	4

Percent of Person-Days that are User-Days =100.00%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.001429	42	10.00	0.038133	2

34837

80.00	0.004522	13	5.00	0.045998	1
70.00	0.005988	10	2.50	0.065452	1
60.00	0.008337	7	1.00	0.089804	1
50.00	0.009738	6	0.50	0.095522	1
40.00	0.012227	5	0.25	0.098381	1
30.00	0.020291	3	0.10	0.100096	1
20.00	0.030356	2			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.001429	42	10.00	0.038133	2
80.00	0.004522	13	5.00	0.045998	1
70.00	0.005988	10	2.50	0.065452	1
60.00	0.008337	7	1.00	0.089804	1
50.00	0.009738	6	0.50	0.095522	1
40.00	0.012227	5	0.25	0.098381	1
30.00	0.020291	3	0.10	0.100096	1
20.00	0.030356	2			

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U.S. Environmental Protection Agency Ver. 6.27
DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
NOEL (Acute) = 0.060000 mg/kg body-wt/day

Females (13-19 yrs/np/nn)

Daily Exposure Analysis
(mg/kg body-weight/day)
per Capita per User

Mean	0.012462	0.012485
Standard Deviation	0.014368	0.014372
Standard Error	0.000345	0.000346
Margin of Exposure	5	5

Percent of Person-Days that are User-Days = 99.81%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000820	73	10.00	0.032531	2
80.00	0.001895	32	5.00	0.041575	1
70.00	0.002978	20	2.50	0.052638	1
60.00	0.004714	13	1.00	0.062041	1
50.00	0.006566	9	0.50	0.072670	1
40.00	0.010152	6	0.25	0.090301	1
30.00	0.015343	4	0.10	0.100473	1
20.00	0.021635	3			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000806	74	10.00	0.032511	2
80.00	0.001879	32	5.00	0.041558	1
70.00	0.002964	20	2.50	0.052617	1

35839

60.00	0.004695	13	1.00	0.062029	1
50.00	0.006549	9	0.50	0.072651	1
40.00	0.010125	6	0.25	0.090268	1
30.00	0.015314	4	0.10	0.100460	1
20.00	0.021612	3			

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U.S. Environmental Protection Agency Ver. 6.27
 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Females (20+ years/np/nn)	Daily Exposure Analysis (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.010330	0.010350
Standard Deviation	0.010686	0.010687
Standard Error	0.000091	0.000091
Margin of Exposure	6	6

Percent of Person-Days that are User-Days = 99.81%

Estimated percentile of user-days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000778	77	10.00	0.023954	3
80.00	0.002051	29	5.00	0.031025	2
70.00	0.003482	17	2.50	0.039119	2
60.00	0.005043	12	1.00	0.047495	1
50.00	0.006883	9	0.50	0.054786	1
40.00	0.009492	6	0.25	0.063564	1
30.00	0.012915	5	0.10	0.078032	1
20.00	0.017243	3			

Estimated percentile of per-capita days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000764	79	10.00	0.023942	3
80.00	0.002031	30	5.00	0.031012	2
70.00	0.003463	17	2.50	0.039103	2
60.00	0.005025	12	1.00	0.047485	1
50.00	0.006865	9	0.50	0.054772	1
40.00	0.009472	6	0.25	0.063547	1
30.00	0.012895	5	0.10	0.078013	1
20.00	0.017227	3			

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DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Females (13-50 years)

	Daily Exposure Analysis (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.010834	0.010854
Standard Deviation	0.012222	0.012224
Standard Error	0.000120	0.000120
Margin of Exposure	6	6

Percent of Person-Days that are User-Days = 99.81%

Estimated percentile of user-days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000713	84	10.00	0.026536	2
80.00	0.001827	33	5.00	0.035893	2
70.00	0.003140	19	2.50	0.043119	1
60.00	0.004642	13	1.00	0.054321	1
50.00	0.006440	9	0.50	0.065311	1
40.00	0.009265	6	0.25	0.077377	1
30.00	0.013090	5	0.10	0.095909	1
20.00	0.018316	3			

Estimated percentile of per-capita days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000701	86	10.00	0.026521	2
80.00	0.001811	33	5.00	0.035876	2
70.00	0.003123	19	2.50	0.043106	1
60.00	0.004625	13	1.00	0.054307	1
50.00	0.006423	9	0.50	0.065291	1
40.00	0.009244	6	0.25	0.077354	1
30.00	0.013069	5	0.10	0.095886	1
20.00	0.018297	3			

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U.S. Environmental Protection Agency Ver. 6.27
 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Males (13-19 years)

	Daily Exposure Analysis (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.012450	0.012450
Standard Deviation	0.013091	0.013091
Standard Error	0.000335	0.000335
Margin of Exposure	5	5

Percent of Person-Days that are User-Days = 100.00%

37839

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000781	77	10.00	0.031119	2
80.00	0.002183	27	5.00	0.037990	2
70.00	0.003559	17	2.50	0.044035	1
60.00	0.004994	12	1.00	0.059137	1
50.00	0.007712	8	0.50	0.072669	1
40.00	0.011767	5	0.25	0.081758	1
30.00	0.015834	4	0.10	0.086857	1
20.00	0.021762	3			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000781	77	10.00	0.031119	2
80.00	0.002183	27	5.00	0.037990	2
70.00	0.003559	17	2.50	0.044035	1
60.00	0.004994	12	1.00	0.059137	1
50.00	0.007712	8	0.50	0.072669	1
40.00	0.011767	5	0.25	0.081758	1
30.00	0.015834	4	0.10	0.086857	1
20.00	0.021762	3			

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U.S. Environmental Protection Agency Ver. 6.27
DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
NOEL (Acute) = 0.060000 mg/kg body-wt/day

Males (20+ years)		Daily Exposure Analysis (mg/kg body-weight/day)	
		per Capita	per User
Mean		0.010049	0.010059
Standard Deviation		0.010755	0.010756
Standard Error		0.000107	0.000107
Margin of Exposure		6	6

Percent of Person-Days that are User-Days = 99.90%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000943	64	10.00	0.023325	3
80.00	0.002081	29	5.00	0.030253	2
70.00	0.003408	18	2.50	0.037480	2
60.00	0.004866	12	1.00	0.047903	1
50.00	0.006603	9	0.50	0.058807	1
40.00	0.008855	7	0.25	0.077317	1
30.00	0.012267	5	0.10	0.095236	1
20.00	0.016598	4			

Estimated percentile of per-capita days exceeding calculated exposure

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in mg/kg body-wt/day and corresponding Margin of Exposure (MOE)

Percentile	Exposure	MOE	Percentile	Exposure	MOE
90.00	0.000935	64	10.00	0.023319	3
80.00	0.002072	29	5.00	0.030247	2
70.00	0.003399	18	2.50	0.037473	2
60.00	0.004858	12	1.00	0.047896	1
50.00	0.006595	9	0.50	0.058796	1
40.00	0.008846	7	0.25	0.077300	1
30.00	0.012257	5	0.10	0.095225	1
20.00	0.016590	4			

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U.S. Environmental Protection Agency Ver. 6.27
 DEEM ACUTE analysis for 035001 DIMETHOATE (1989-92 data)
 Residue file name: 035100ac.R91 Adjustment factor #2 NOT used.
 Analysis Date: 08-06-1998/11:09:07 Residue file dated: 08-06-1998/11:03:10/8
 NOEL (Acute) = 0.060000 mg/kg body-wt/day

Summary calculations:

	95th Percentile Exposure	MOE	99th Percentile Exposure	MOE	99.9 Percentile Exposure	MOE
U.S. pop - all seasons:	0.049229	1	0.094840	1	0.175576	0
Nursing infants (<1 year):	0.082977	1	0.277416	0	0.629175	0
Non-nursing infants (<1 yr):	0.079644	1	0.135737	0	0.162210	0
Children (1-6 years):	0.108469	1	0.170376	0	0.299912	0
Children (7-12 years):	0.066906	1	0.101660	1	0.151308	0
Females (13+/preg/not nsg):	0.035661	2	0.048439	1	0.097820	1
Females (13+/nursing):	0.045998	1	0.089804	1	0.100096	1
Females (13-19 yrs/np/nn):	0.041558	1	0.062029	1	0.100460	1
Females (20+ years/np/nn):	0.031012	2	0.047485	1	0.078013	1
Females (13-50 years):	0.035876	2	0.054307	1	0.095886	1
Males (13-19 years):	0.037990	2	0.059137	1	0.086857	1
Males (20+ years):	0.030247	2	0.047896	1	0.095225	1

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