



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

MAR - 1 1993

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Captan: Revised Dietary Risk Evaluation Due to Final Tolerance Revocations on Several Commodities.

FROM: Jennifer L. Manley *Jennifer Manley*
Dietary Risk Evaluation Section
Science Analysis Branch/HED (H7509C)

TO: Patricia Critchlow
Registration Division (H7505C)

THROUGH: James P. Kariya, Section Head *Kariya*
Dietary Risk Evaluation Section
Science Analysis Branch/Health Effects Division

An updated dietary risk analysis has been run for captan due to a final rule notice of revocation of tolerances for captan in the Federal Register (8/12/92). The tolerances for the following commodities have been revoked:

- crabapples
- pineapples
- quinces
- rhubarb
- tangerines
- oranges
- cranberries
- grapefruit
- lemons
- limes

EPA is taking this action because all registered uses of captan on these commodities have been canceled. The last DRES analysis for captan was run on 3/9/89 and % of the Reference Dose (RfD), the Anticipated Residue Contribution (ARC) and %RfD with ARCs are listed below. After removal of the above commodities from the DRES file another analysis was needed to bring the file current. The latest analysis results are included in the table. The current estimate of the upper-bound of carcinogenic risk for captan, based on a Q* of 0.0036 is 9×10^{-7} .

Analysis Date	% RfD	ARC	%RfD with ARC	Upper Bound of Carcinogenic Risk
3/9/89	186.27	0.00161	1.24	5.78×10^{-6}
2/23/93	23.55	0.00025	0.19	9.08×10^{-7}

Table 1.

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103	3gen reprod- rat NOEL= 12.5000 mg/kg 250.00 ppm LEL= 25.0000 mg/kg 500.00 ppm ONCO: B2 (HED NOTE)	Decreased pup body wts. ADI based on results of 1-gen. and 3-gen. repro- duction studies. Evi- dence of oncogenicity in rats and mice.	ADI UF -->100 OPP Rfd= 0.130000 EPA Rfd= 0.130000 Q*: 0.00360	No data gaps. Q* calculated.	HED complete 03/07/86. EPA verified 03/26/86. HED complete 12/22/88. EPA verified 01/18/89. WHO last reviewed 1990. On IRIS.

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POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)	CURRENT TMRC*	NEW TMRC**	NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES ARC	%RFD
U.S. POPULATION - 48 STATES	0.030619	0.030619	0.030619	23.553389	0.000000	0.000252	0.19401
U.S. POPULATION - SPRING SEASON	0.027585	0.027585	0.027585	21.219120	0.000000	0.000259	0.19930
U.S. POPULATION - SUMMER SEASON	0.029140	0.029140	0.029140	22.415428	0.000000	0.000311	0.23922
U.S. POPULATION - FALL SEASON	0.034187	0.034187	0.034187	26.297439	0.000000	0.000181	0.13949
U.S. POPULATION - WINTER SEASON	0.031336	0.031336	0.031336	24.104354	0.000000	0.000199	0.15303
NORTHEAST REGION	0.029693	0.029693	0.029693	22.841153	0.000000	0.000269	0.20662
NORTH CENTRAL REGION	0.030829	0.030829	0.030829	23.714782	0.000000	0.000236	0.18186
SOUTHERN REGION	0.029693	0.029693	0.029693	22.840465	0.000000	0.000183	0.14066
WESTERN REGION	0.032848	0.032848	0.032848	25.267703	0.000000	0.000292	0.22480
HISPANICS	0.035256	0.035256	0.035256	27.120348	0.000000	0.000264	0.20282
NON-HISPANIC WHITES	0.030555	0.030555	0.030555	23.503463	0.000000	0.000247	0.18987
NON-HISPANIC BLACKS	0.028554	0.028554	0.028554	21.964735	0.000000	0.000153	0.11775
NON-HISPANIC OTHERS	0.029051	0.029051	0.029051	22.347057	0.000000	0.000345	0.26576
NURSING INFANTS (< 1 YEAR OLD)	0.065983	0.065983	0.065983	50.756069	0.000000	0.000769	0.59179
NON-NURSING INFANTS (< 1 YEAR OLD)	0.112613	0.112613	0.112613	86.625482	0.000000	0.001258	0.96744
FEMALES (13+ YEARS, PREGNANT)	0.022990	0.022990	0.022990	17.684734	0.000000	0.000165	0.12698
FEMALES 13+ YEARS, NURSING	0.028301	0.028301	0.028301	21.770098	0.000000	0.000245	0.18884
CHILDREN (1-6 YEARS OLD)	0.081067	0.081067	0.081067	62.358857	0.000000	0.000475	0.36565
CHILDREN (7-12 YEARS OLD)	0.050076	0.050076	0.050076	38.519796	0.000000	0.000326	0.25047
MALES (13-19 YEARS OLD)	0.024240	0.024240	0.024240	18.646515	0.000000	0.000163	0.12533
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.023257	0.023257	0.023257	17.889628	0.000000	0.000162	0.12426
MALES (20 YEARS AND OLDER)	0.019381	0.019381	0.019381	14.908499	0.000000	0.000165	0.12729
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.020051	0.020051	0.020051	15.424157	0.000000	0.000198	0.15194

*Current TMRC does not include new or pending tolerances.
**New TMRC includes new, pending, and published tolerances.

CHEMICAL Capten Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103	STUDY TYPE 3gen reprod- rat NOEL= 12.5000 mg/kg 250.00 ppm LEL= 25.0000 mg/kg 500.00 ppm ONCO: B2 (HED NOTE)	EFFECTS Decreased pup body wts. ADI based on results of 1-gen. and 3-gen. repro- duction studies. Evi- dence of oncogenicity in rats and mice.	REFERENCE DOSES ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 q*: 0.00360	DATA GAPS/COMMENTS No data gaps.	STATUS HED complete 03/07/86. EPA verified 03/26/88. HED complete 12/22/88. EPA verified 01/18/89. WHO last reviewed 1990. On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.00000	0.004400	FDA SURV	100.00	0.004400
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	15	P 25.00000	0.004400	FDA SURV	100.00	0.004400
04003DA	PEARS-DRIED	21 COOKED-NFS	15	P 25.00000	0.004400	FDA SURV	100.00	0.004400
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	15	P 50.00000	0.460000	FDA SURV	100.00	0.460000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	15	P 50.00000	0.460000	FDA SURV	100.00	0.460000
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	15	P 50.00000	0.460000	FDA SURV	100.00	0.460000
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	15	P 50.00000	0.460000	FDA SURV	100.00	0.460000
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	15	P 50.00000	0.460000	FDA SURV	100.00	0.460000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	15	P 100.00000	0.052000	FDA SURV	100.00	0.052000
05002AA	CHERRIES-FRESH	21 COOKED-NFS	15	P 100.00000	0.052000	FDA SURV	100.00	0.052000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	15	P 100.00000	0.052000	FDA SURV	100.00	0.052000
05002DA	CHERRIES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	15	P 100.00000	0.052000	FDA SURV	100.00	0.052000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	15	P 100.00000	0.052000	FDA SURV	100.00	0.052000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	15	P 100.00000	0.052000	FDA SURV	100.00	0.052000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	15	P 100.00000	0.052000	FDA SURV	100.00	0.052000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	15	P 50.00000	0.009600	FDA SURV	100.00	0.009600
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	15	P 50.00000	0.360000	FDA SURV	100.00	0.360000
05004AA	PEACHES-FRESH	21 COOKED-NFS	15	P 50.00000	0.360000	FDA SURV	100.00	0.360000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	15	P 50.00000	0.360000	FDA SURV	100.00	0.360000
05004AA	PEACHES-FRESH	51 COOKED-CANNED	15	P 50.00000	0.360000	FDA SURV	100.00	0.360000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	15	P 50.00000	0.360000	FDA SURV	100.00	0.360000
05004DA	PEACHES-DRIED	21 COOKED-NFS	15	P 50.00000	0.360000	FDA SURV	100.00	0.360000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	15	P 100.00000	0.008500	FDA SURV	100.00	0.008500
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	15	P 100.00000	0.008500	FDA SURV	100.00	0.008500
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	15	P 100.00000	0.008500	FDA SURV	100.00	0.008500
05005DA	PLUMS-PRUNES	21 COOKED-NFS	15	P 100.00000	0.008500	FDA SURV	100.00	0.008500
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	15	P 100.00000	0.008500	FDA SURV	100.00	0.008500
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	15	P 100.00000	0.008500	FDA SURV	100.00	0.008500
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	15	P 100.00000	0.008500	FDA SURV	100.00	0.008500
06007AA	MANGOES	10 RAW-FRESH OR NFS	15	P 50.00000	50.000000	NOT AVAILABLE	40.00	20.000000
06007AA	MANGOES	21 COOKED-NFS	15	P 50.00000	50.000000	NOT AVAILABLE	40.00	20.000000
11001AA	EGGPLANT	10 RAW-FRESH OR NFS	15	P 25.00000	0.001000	MONITORING	100.00	0.001000
11001AA	EGGPLANT	21 COOKED-NFS	15	P 25.00000	0.001000	MONITORING	100.00	0.001000
11001AA	EGGPLANT	25 COOKED-FRESH-FRIED	15	P 25.00000	0.001000	MONITORING	100.00	0.001000
11003AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	15	P 25.00000	0.007000	MONITORING	100.00	0.007000
11003AA	PEPPERS, SWEET	21 COOKED-NFS	15	P 25.00000	0.007000	MONITORING	100.00	0.007000
11003AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	15	P 25.00000	0.007000	MONITORING	100.00	0.007000
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	15	P 25.00000	0.007000	MONITORING	100.00	0.007000
11003AD	PEPPERS-OTHER	21 COOKED-NFS	15	P 25.00000	0.007000	MONITORING	100.00	0.007000
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	15	P 25.00000	0.007000	MONITORING	100.00	0.007000

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Capten Caswell #159 CAS No. 133-06-2 A.J. CODE: 081301 CFR No. 180.103	3gen reprod- rat NOEL= 12,5000 mg/kg 250.00 ppm LEL= 25,0000 mg/kg 500.00 ppm ONCO: B2 (HED NOTE)	Decreased pup body wts. ADI based on results of 1-gen. and 3-gen. repro- duction studies. Evi- dence of oncogenicity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 q*: 0.00360	No data gaps. q* calculated.	HED complete 03/07/86. EPA verified 03/26/86. HED complete 12/22/88. EPA verified 01/18/89. WHO last reviewed 1990. On IRIS.	

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS TYPE (UG/KG/DAY)	THRC	XRFD	THRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	XRFD	ARC ONCO RISK
06007AA	MANGOES	50.000	P	1.912635	1.471	0.00000688549	20.00000	0.009006	0.007	0.00000003242
	10 RAW-FRESH OR NFS						20.00000	0.602072	0.002	0.00000000746
	21 COOKED-NFS						0.01300	0.000003	0.000	0.000000000001
13016AA	FENNEL	50.000	P	21.228030	16.329	0.00007642091	0.07100	0.005907	0.005	0.00000002127
	00 NOT SPECIFIED (NO CONSUMPTION)						0.07100	0.000071	0.000	0.000000000026
43058AA	WINE AND SHERRY	50.000	P	0.000000	0.000	0.000000000000				
	10 RAW-FRESH OR NFS									
	21 COOKED-NFS									
CROP GROUP TOTALS FOR UNSPECIFIED:										
				23.140665	17.801	0.00008330639	0.02500	0.000000	0.000	0.000000000000
14006AA	TARO-ROOT	0.250	P	0.005590	0.004	0.00000002012				
	00 NOT SPECIFIED (NO CONSUMPTION)									
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:										
				0.005590	0.004	0.00000002012	0.50000	0.000866	0.001	0.00000000312
16004AA	ONIONS-GREEN	50.000	P	0.001799	0.001	0.00000000648	0.50000	0.000050	0.000	0.00000000018
	10 RAW-FRESH OR NFS						0.50000	0.000062	0.000	0.00000000022
	21 COOKED-NFS									
	25 COOKED-FRESH-FRIED									
CROP GROUP TOTALS FOR BULB VEGETABLES:										
				0.001799	0.001	0.00000000648	0.01300	0.000621	0.000	0.00000000224
13002AA	CELERY	50.000	P	0.031674	0.024	0.00000011403	0.01300	0.000171	0.000	0.00000000062
	10 RAW-FRESH OR NFS						0.18000	0.000798	0.001	0.00000000287
	21 COOKED-NFS						0.18000	0.001656	0.001	0.00000000596
13013AA	LETTUCE-LEAFY VARIETIES	100.000	P	0.029422	0.023	0.00000010592	0.13000	0.000965	0.001	0.00000000347
	10 RAW-FRESH OR NFS						0.13000	0.000833	0.001	0.00000000300
	21 COOKED-NFS						0.13000	0.003861	0.003	0.00000001390
13020AA	LETTUCE-UNSPECIFIED	100.000	P	0.000000	0.000	0.000000000000	0.18000	0.037488	0.029	0.00000013496
	10 RAW-FRESH OR NFS						0.18000	0.000722	0.001	0.00000000260
13024AA	SPINACH	100.000	P	0.000000	0.000	0.000000000000				
	10 RAW-FRESH OR NFS									
	21 COOKED-NFS									
	31 COOKED-FRESH OR CANNED									
13045AA	LETTUCE-HEAD VARIETIES	100.000	P	0.000000	0.000	0.000000000000	0.18000	0.000722	0.001	0.00000000260
	10 RAW-FRESH OR NFS									
	21 COOKED-NFS									
CROP GROUP TOTALS FOR LEAFY VEGETABLES (EXCL. BRASSICAE):										
				0.061096	0.047	0.00000021995	0.047115	0.047115	0.036	0.00000016961

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Capten Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103	3gen reprod- rat NOEL= 12.5000 mg/kg 250.00 ppm LEL= 25.0000 mg/kg 500.00 ppm ONCO: B2 (HED NOTE)	Decreased pup body wts. ADI based on results of 1-gen. and 3-gen. repro- duction studies. Evi- dence of oncogenicity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 Q*: 0.00360	No data gaps.	HED complete 03/07/86. EPA verified 03/26/86. HED complete 12/22/88. EPA verified 01/18/89. WHO last reviewed 1990. On IRIS.	

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRG TYPE (UG/KG/DAY)	TMRG ONCO RISK		ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ONCO RISK
				%RFD	ONCO RISK				
04001AA	APPLES-FRESH 10 RAW-FRESH OR NFS	25.000	P 8.311838	6.394	0.00002992262	0.03000	0.009223	0.007	0.00000003320
	21 COOKED-NFS					0.03000	0.000199	0.000	0.00000000072
	31 COOKED-FRESH OR CANNED					0.03000	0.003572	0.003	0.00000001286
	62 COOKED-FRESH OR FROZEN-BAKED					0.03000	0.000707	0.001	0.00000000255
04001DA	APPLES-DRIED 10 RAW-FRESH OR NFS	25.000	P 3.061837	2.355	0.00001102261	0.03000	0.000025	0.000	0.00000000009
	22 COOKED-FRESH-BAKED					0.03000	0.000009	0.000	0.00000000003
	62 COOKED-FRESH OR FROZEN-BAKED					0.03000	0.000016	0.000	0.00000000006
04001JA	APPLES-JUICE 15 RAW-FRESH OR CANNED	25.000	P 0.005225	0.004	0.000000001881	0.03000	0.007689	0.006	0.00000002768
	31 COOKED-FRESH OR CANNED					0.03000	0.002285	0.002	0.00000000823
04003AA	PEARS-FRESH 10 RAW-FRESH OR NFS	25.000	P 0.121200	0.093	0.00000043632	0.00440	0.000232	0.000	0.00000000084
	31 COOKED-FRESH OR CANNED					0.00440	0.000205	0.000	0.00000000074
	51 COOKED-CANNED					0.00440	0.000100	0.000	0.00000000036
	62 COOKED-FRESH OR FROZEN-BAKED					0.00440	0.000001	0.000	0.00000000000
04003DA	PEARS-DRIED 10 RAW-FRESH OR NFS	25.000	P 3.217540	2.475	0.00001158314	0.00440	0.000001	0.000	0.00000000000
	21 COOKED-NFS					0.00440	0.000000	0.000	0.00000000000
CROP GROUP TOTALS FOR POME FRUITS:				14.717640	11.321	0.00005298350	0.024264	0.019	0.00000008735

05001AA	APRICOTS-FRESH 10 RAW-FRESH OR NFS	50.000	P 0.511200	0.393	0.00000184032	0.46000	0.002628	0.002	0.00000000946
	21 COOKED-NFS					0.46000	0.003580	0.003	0.00000001289
	31 COOKED-FRESH OR CANNED					0.46000	0.009289	0.007	0.00000003344
05001DA	APRICOTS-DRIED 10 RAW-FRESH OR NFS	50.000	P 0.648310	0.499	0.00000233392	0.46000	0.000946	0.001	0.00000000341
	22 COOKED-FRESH-BAKED					0.46000	0.000169	0.000	0.00000000061
05002AA	CHERRIES-FRESH 10 RAW-FRESH OR NFS	100.000	P 10.769580	8.284	0.00003877049	0.05200	0.000384	0.000	0.00000000138
	31 COOKED-NFS					0.05200	0.000229	0.000	0.00000000082
	62 COOKED-FRESH OR FROZEN-BAKED					0.05200	0.000652	0.001	0.00000000235
05002DA	CHERRIES-DRIED 00 NOT SPECIFIED (NO CONSUMPTION)	100.000	P 0.017360	0.013	0.000000006250	0.05200	0.000408	0.000	0.00000000147
05002JA	CHERRIES-JUICE 15 RAW-FRESH OR CANNED	100.000	P 2.486260	1.913	0.00000895054	0.05200	0.000244	0.000	0.00000000088
	21 COOKED-NFS					0.05200	0.000022	0.000	0.00000000008
05003AA	NECTARINES 10 RAW-FRESH OR NFS	50.000	P 1.742130	1.340	0.00000627167	0.00960	0.000124	0.000	0.00000000045

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
01014DA	31 COOKED-FRESH OR CANNED GRAPES-RAISINS	50.000	P	0.000543	0.000	0.00000000195	0.07100	0.001330	0.001	0.00000000479
	10 RAW-FRESH OR NFS						0.07100	0.000726	0.001	0.00000000261
	21 COOKED-NFS						0.07100	0.000068	0.000	0.00000000024
	22 COOKED-FRESH-BAKED						0.07100	0.000411	0.000	0.00000000148
01014JA	GRAPES-JUICE	50.000	P	11.418225	8.783	0.00004110561	0.07100	0.000712	0.001	0.00000000256
	10 RAW-FRESH OR NFS						0.07100	0.006682	0.005	0.00000002406
	15 RAW-FRESH OR CANNED						0.07100	0.000282	0.000	0.00000000102
	21 COOKED-NFS									
01016AA	STRAWBERRIES	25.000	P	0.041280	0.032	0.00000014861	0.84000	0.020331	0.016	0.00000007319
	10 RAW-FRESH OR NFS						0.84000	0.004176	0.003	0.0000001503
	21 COOKED-NFS						0.84000	0.004648	0.004	0.00000001673
	70 RAW-FROZEN									
CROP GROUP TOTALS FOR SMALL FRUITS AND BERRIES:				12.844853	9.881	0.00004624147	0.062780		0.048	0.00000022601

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
03001AA	ALMONDS	2.000	P	0.000000	0.000	0.00000000000	0.00600	0.000008	0.000	0.00000000003
	10 RAW-FRESH OR NFS						0.00600	0.000006	0.000	0.00000000002
	21 COOKED-NFS						0.00600	0.000003	0.000	0.00000000001
	22 COOKED-FRESH-BAKED									
CROP GROUP TOTALS FOR TREE NUTS:				0.000000	0.000	0.00000000000	0.000017		0.000	0.000000000006

GRAND TOTALS FOR U.S. POPULATION - 48 STATES

109.983839 84.603 0.00039594182 0.252214 0.194 0.00000090797

TOLERANCE TYPE: N=NEW; A=PENDING; P=PUBLISHED
 TMRC=THEORETICAL MAXIMUM RESIDUE CONTRIBUTION
 ARC = ANTICIPATED RESIDUE CONTRIBUTION
 RFD = REFERENCE DOSE