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

(Attachment #1)

11/OPP #34131C

25PP

OFFICE OF
PREVENTION, PESTICIDES, AND
TOXIC SUBSTANCES

May 12, 1999

MEMORANDUM

SUBJECT: Azinphos-methyl. Revised Monte Carlo Assessment (Case No. 0235; Chemical No. 058001). DPBarcode D255395. No MRID No.

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On February 17, 1999, HED completed a review of a Monte-Carlo submission from Bayer Corporation for the pesticide chemical, azinphos-methyl. Additionally, HED revised the Monte Carlo submission using a pilot acute dietary protocol entitled "Protocol for Running Monte Carlo Assessments Using PDP and FDA Monitoring Data", 2/2/99 update. This protocol currently in draft form, incorporated use of monitoring data in acute dietary risk assessments.

In the current acute dietary assessment, several changes were made to the residue inputs used in the previous analysis. Specific new data used are described in Table 5 of this document.

Revisions

1. Updated BEAD percent crop treated data were incorporated. A comparison of the data used in the previous assessment and in the current assessment are shown in Table 2 below.
2. For canned and boiled apples, peaches, pears and plums, an average of the PDP monitoring data incorporating % crop treated and $\frac{1}{2}$ the limit of detection (LOD) for

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non-detects was used. In the previous assessment, a distribution of residues were used where data were adjusted to reflect single servings using ½ the LOD and % crop treated (decomposition method).

3. For commodities which are considered partially blended such as small berries, PDP monitoring data was used directly incorporating % crop treated. In the earlier assessment, no adjustment for % crop treated was included.
4. Single serving PDP monitoring data (for pears) were used directly, including ½ the LOD and % crop treated. These data were translated to apples, quinces and crabapples with their corresponding % crop treated incorporated. In the previous assessment, a distribution of single-serving residues derived from composite samples were used where data were adjusted to reflect single servings (decomposition method).
5. FDA monitoring data were incorporated for tart and sweet cherries. In the previous assessment field trial residue data were used.
6. Pistachio nuts, cottonseed meal and cottonseed oil were included in the assessment. These commodities were previously excluded.
7. A saucing processing/reduction factor provided by the registrant was included for boiled apple (applesauce). EPA used these data in their revised analysis; however, raw data allowing the Agency to verify these values must be submitted.
8. Adjustments were made to account for the differences in % crop treated for sweet and tart cherries and processed and unprocessed tomatoes.

Conclusions

The results of the revised HED Monte Carlo analysis incorporating all changes noted above are shown in Table 1. These results show a significant reduction in the % aRfD for the all infant and children subpopulations. However, the results (Table 1) indicate that at the 99.9th percentile, acute exposure to azinphos-methyl remain above 100% aRfD for nursing infants and children (1-6). A copy of the revised analysis is attached.

Table 1. Monte Carlo Analysis Results at the 99.9th Percentile

Population subgroup	HED Analysis Previous assessment (2/17/99)			HED Analysis- Current Assessment (5/12/99)		
	Exposure (mg/kg bwt-day)	MOE1	%RfD	Exposure (mg/kg bwt-day)	MOE1	%RfD
U.S. Population	0.005519	394	85%	0.001781	561	59%
All infants (<1 year)	0.009934	100	331%	0.003003	332	100%
Nursing infant (<1 year)	0.010733	265	126%	0.003632	275	121%
Non-nursing infants	0.009965	81	407%	0.002234	447	74%
Children (1-6 years)	0.010343	165	202%	0.003913	255	130%
Children (7-12 years)	0.006556	258	129%	0.002704	369	90%

1. HED has no concern for MOE's above 300 or %RfD < 100.
2. The aRfD used was 0.003 mg/kg/day

Table 2. Comparison of BEAD Percent Crop treated Data

Commodity	September 1998	May, 1999
Alfalfa	4	<0.5
Almond	39	39
Apple	65	88
Blackberries	15	14
Blueberries	86	51
Boysenberries	16	14
Broccoli	5	<0.5
Brussels sprouts	4	2
Cabbage	8	13
Cantaloupe	4	5
Cauliflower	3	2
Celery	12	13
Cherry	62	58% (sweet)/ 80%(tart)
Citrus fruits	3	3
Crabapples	0*	<0.5
Cranberries	100	69
Cucumber	5	3
Dewberries	16	14
Filbert	39	39
Grapefruit	8	17
Grapes	1	2
Honeydew melons	20	2
Kumquats	3*	3*
Lemons	1	<0.5
Lime	3	3

Table 2. Comparison of BEAD Percent Crop treated Data		
Commodity	September 1998	May, 1999
Melon	5	2
Nectarine	12	6
Onions (dry/green)	6	2
Oranges	5	3
Peach	38	30
Pear	100	91
Pecan	7	3
Plum/prune	23	12
Potato	20	3
Quince	75*	75*
Raspberries	9	14
Strawberry	12	12
Tangerine	3	3
Tomato	4	10% (unprocessed)/11% (processed)
Walnuts	38	30
Watermelon	0	2

* Percent crop treated data provided by the registrant.

Table 3 - Crop by Crop Description of Specific Data Used in Revised Analysis.

Crop	Residue Data Used	%Crop Treated ¹	Comments on data Selected
Alfalfa Sprouts	Tolerance of 2 ppm and 1% CT.	<0.5% ⁵	
Almonds	Point estimate which = mean FT ² data X 39% CT and assumed all almonds are at this level. $0.009 \times 0.39 = 0.0035$ [Field trials used 2 lb ai/A, 3 applications, PHI of 28 days].	39%	
Apples	Single Serving PDP ³ pear data incorporating 88% CT used for apples except cooked where a point estimate was used =0.037.	88%	RDF #8 ⁸
Apples, Dried	Single Serving PDP ³ pear data incorporating 88% CT and a concentration factor.	88%	
Apple Juice, Concentrate	Full distribution of PDP apple juice data and a concentration factor.	N/A	RDF #9
Apple Juice, Cider	Full distribution of PDP apple juice data.	N/A	RDF #10
Beans, Succulent	Composite PDP green bean data directly incorporating 1% CT.	<0.5% ⁵	Few PDP residues (10) detected in three years of PDP data. Total of 1810 samples. RDF #24
Blackberries	Composite FDA raspberry data directly incorporating 14% CT.	14% ⁶	RDF #1
Blackberry Juice	Point estimate using FDA raspberry data incorporating $\frac{1}{2}$ LOD ⁴ and 14% CT = 0.002. Point estimate multiplied by processing factor.	14% ⁶	
Blueberries	Composite FDA blueberry data directly incorporating 51% CT.	51%	RDF #2
Boysenberries	Composite FDA raspberry data directly incorporating 14% CT.	14% ⁶	RDF#1
Broccoli	Composite PDP spinach data directly and 1% CT.	1%	Few PDP residues (4) detected in three years of PDP data. Total of 1806 samples. RDF #14
Brussels Sprouts	Composite PDP spinach data directly and 2% CT.	2%	Few PDP residues (4) detected in three years of PDP data. Total of 1806 samples. RDF #15
Cabbage, Green and Red	Cabbage FT data and 13% CT.	13%	RDF #16
Cabbage Savoy	Cabbage FT data and 13% CT.	13%	RDF #16
Cantaloupe Nectar	No detectable residue. Used point estimate equal to $\frac{1}{2}$ LOD ⁴ = 0.0015	N/A	Not detected in four years of FDA monitoring (1994-97).
Cantaloupe Pulp	No detectable residue found. $\frac{1}{2}$ LOD used incorporating 5% CT.	5%	Not detected in four years of FDA monitoring (1994-97). RDF #27
Casaba	No detectable residue found. $\frac{1}{2}$ LOD used incorporating 2% CT.	2%	Not detected in four years of FDA monitoring (1994-97). RDF #25

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Crop	Residue Data Used	%Crop Treated ¹	Comments on data Selected
Cauliflower	Composite PDP spinach data directly and 2% CT.	2%	Few PDP residues (4) detected in three years of PDP data. Total of 1806 samples. RDF #17
Celery	Composite PDP spinach data directly and 13% CT.	13%	Few PDP residues (4) detected in three years of PDP data. Total of 1806 samples. RDF #13
Celery Juice	Point estimate using PDP spinach data incorporating ½ LOD and 13% CT = 0.0030. Point estimate multiplied by processing factor.	13%	
Celery Seed	Point estimate using PDP spinach data incorporating ½ LOD and 13% CT = 0.0030. Point estimate multiplied by processing factor.	13%	
Cherries	Composite FDA cherries data directly incorporating 58% CT for sweet cherries and 80% CT for tart cherries.	58/80% ⁷	RDF #33 and #34
Cherries, Dried	Composite FDA cherries data directly incorporating 58% CT for sweet cherries and 80% CT for tart cherries and an concentration factor.	58/80% ⁷	RDF #33 and #34
Cherry Juice	Point estimate of FDA cherry data incorporating ½ LOD and 58% CT = 0.002. Point estimate multiplied by processing factor.	58%	
Citrus Citron	Composite PDP orange data directly and 3% CT.	3%	Few PDP residues (3) detected in three years of PDP data. Total samples = 1209. RDF #7
Cottonseed	Tolerance of 0.5 ppm and 11% CT.	11%	
Crabapples	Single Serving PDP Pear incorporating 1% CT.	<0.5% ⁵	RDF #21
Cranberries	Point estimate of cranberries mean FT data multiplied by 69% CT. $0.03 \times 0.69 = 0.021$. [Field trials used 1.0 lb ai/A, 3 applications, PHI of 21 days].	69%	
Cranberry Juice	Point estimate of mean FT data multiplied by 69% CT. $0.03 \times 0.69 = 0.021$. Point estimate multiplied by processing factor. [Field trials used 1.0 lb ai/A, 3 applications, PHI of 21 days].	69%	
Cranberries Juice Concentrate	Point estimate of mean FT data multiplied by 69% CT. $0.03 \times 0.69 = 0.021$. Point estimate multiplied by processing factor. [Field trials used 1.0 lb ai/A, 3 applications, PHI of 21 days].	69%	
Crenshaw	No detectable residue found. ½ LOD used incorporating 2% CT.	2%	Not detected in four years of FDA monitoring (1994-97). RDF #25
Cucumbers	No detectable residue found. ½ LOD used incorporating 3% CT.	3%	Not detected in four years of FDA monitoring (1994-97). RDF #26

Crop	Residue Data Used	%Crop Treated ¹	Comments on data Selected
Dewberries	Composite FDA raspberry data directly and incorporating 14% CT.	14% ⁶	RDF # 1
Filberts	Point estimate of mean of pecan FT data X 39% CT = 0.0156 [Field trials used 2.0 lb ai/A, 3 applications, PHI of 45 days].	39%	
Grapes	Composite PDP grape data directly and incorporating 2% CT.	2%	Low PDP residues (<0.05 ppm) detected in two years of PDP data. Total of 1215 samples. RDF #3
Grape Juice	Point estimate of mean of PDP grape data X 2% CT = 0.0006. Point estimate multiplied by a processing factor.	2%	
Grape Juice Concentrate	Point estimate of mean of PDP grape data X 2% CT = 0.0006. Point estimate multiplied by a processing factor.	2%	
Grapes-Raisins	Composite PDP grape data directly and incorporated 2% CT and concentration factor.	2%	Low PDP residue (<0.05 ppm) detected in two years of PDP data. Total of 1215. RDF #3
Grape Leaves	Composite PDP grape data directly and incorporated 2% CT.	2%	Low PDP residues (<0.05 ppm) detected in two years of PDP data. Total of 1215 samples. RDF #3
Grapefruit Juice	Full distribution of PDP orange juice data.	N/A	RDF #20
Grapefruit Juice Concentrate	Full distribution of PDP orange juice data and a processing factor.	N/A	RDF #20
Grapefruit Peel	Composite PDP orange data directly and incorporated 17% CT.	17%	Few PDP residues (3) detected in three years of PDP data. Total samples = 1209. RDF #5
Grapefruit Peeled Fruit	Composite PDP orange data directly and incorporated 17% CT.	17%	Few PDP residues (3) detected in three years of PDP data. Total samples = 1209. RDF #5
Honeydew Melons	No detectable residue found. ½ LOD used incorporating 2% CT.	2%	Not detected in four years of FDA monitoring (1994-97). RDF #32
Kumquats	Composite PDP orange data directly and 3% CT.	3%	Few PDP residues (3) detected in three years of PDP data. Total samples = 1209. RDF #7
Leeks	Green onion FT data and 2% CT. [Field trials used 0.75 lb ai/A, 3 applications, PHI of 14 days]	2%	RDF #19
Lemon Juice	Full distribution of PDP orange juice data.	N/A	RDF #20
Lemon Juice Concentrate	Full distribution of PDP orange juice data and processing factor.	N/A	RDF #20
Lemon Peel	Composite PDP orange data directly and 1% CT.	<0.5% ⁵	Few PDP residues (3) detected in three years of PDP data. Total samples = 1209. RDF #6

Crop	Residue Data Used	%Crop Treated ¹	Comments on data Selected
Lemon Peeled Fruit	Composite PDP orange data directly and 1% CT.	<0.5% ⁵	Few PDP residues (3) detected in three years of PDP data. Total samples = 1209. RDF #6
Lime Juice	Full distribution of PDP orange juice data.	N/A	RDF #20
Lime Juice Concentrate	Full distribution of PDP orange juice data and a concentration factor.	N/A	RDF #20
Lime Peel	Composite PDP orange data directly and incorporating 3% CT.	3%	Few PDP residues (3) detected in three years of PDP data. Total samples = 1209. RDF #7
Limes Peeled Fruit	Composite PDP orange data directly and incorporating 3% CT.	3%	Few PDP residues (3) detected in three years of PDP data. Total samples = 1209. RDF #7
Loganberries	Composite FDA raspberry data directly and incorporating 14% CT.	14% ⁶	RDF #1
Nectarines	Composite PDP peach data adjusted for single servings incorporating 6% CT.	6%	689 detects from three years of PDP data (1995-1997). Total Sample = 1393. RDF #28
Onions, Green	Green onion FT data and incorporating 2% CT. [Field trials used 0.75 lb ai/A, 3 applications, PHI of 14 days].	2%	RDF #19
Onions, Dehydrated or Dried	Bulb onion FT data and incorporated 2% CT and processing factor. [Field trials used 0.75 lb ai/A, 3 applications, PHI of 21 days].	2%	RDF #18
Onions, Dry Bulb	Bulb onion FT data and incorporated 2% CT.	2%	RDF #18
Orange Juice	Full distribution of PDP orange juice data.	N/A	Used PDP orange juice data as blended although not generally considered to be blended. Rationale: comparable residues in orange and orange juice. RDF #20
Orange Juice Concentrate	Full distribution of PDP orange juice data and a concentration factor.	N/A	Used PDP orange juice data as blended although not generally considered to be blended. Rationale: comparable residues in orange and orange juice. RDF #20
Orange Peel	Composite PDP orange data directly incorporating 3% CT.	3%	Few PDP residues (3) detected in three years of PDP data. Total samples = 1209. RDF #22
Orange Peeled Fruit	Composite PDP orange data directly incorporating 3% CT.	3%	Few PDP residues (3) detected in three years of PDP data. Total samples = 1209. RDF #22
Peaches	Composite PDP peach data adjusted for single servings and incorporated 30% CT except point estimate equal to 0.02 ppm used for canned and boiled food forms.	30%	689 detects from three years of PDP data (1995-1997). Total samples = 1393. RDF #11

Crop	Residue Data Used	%Crop Treated ¹	Comments on data Selected
Peaches, Dried	Composite PDP peach data adjusted for single servings incorporating 30% CT and processing factor.	30%	689 detects from three years of PDP data (1995-1997). Total samples = 1393. RDF #11
Peaches, Juice	Point estimate using PDP peach data incorporating ½ LOD and 30% CT = 0.0157. Point estimate multiplied by processing factor.	30%	
Pears	Single Serving PDP pear data and incorporating 91% CT except point estimate equal to 0.059 ppm used for canned and boiled food forms.	91%	RDF #10
Pears, Dried	Single Serving PDP pear data incorporating 91% CT and processing factor.	91%	RDF #10
Pear Nectar	Full distribution of apple juice PDP data.	N/A	RDF #9
Pecan	Point estimate which = mean FT data X 3% CT = 0.0012 [Field trials used 2.0 lb ai/A, 3 applications, PHI of 45 days].	3%	
Persian Melon	No detectable residue found. ½ LOD used incorporating 2% CT.	2%	Not detected in four years of FDA monitoring (1994-97). RDF #25
Pistachios	Point estimate of mean of pecan FT data X 48% CT = 0.0172 [Field trials used 2.0 lb ai/A, 3 applications, PHI of 45 days].	48%	
Plum	Composite PDP peach data adjusted for single servings and incorporated 12% CT except point estimate equal to 0.02 ppm used for canned food forms.	12%	689 detects from three years of PDP data (1995-1997). Total Samples = 1393. RDF #29
Plum/Prunes, Dried	Composite PDP peach data adjusted for single servings, incorporating 12% CT and processing factor.	12%	689 detects from three years of PDP data (1995-1997). Total Samples = 1393. RDF #29
Plum/Prune Juice	Point estimate using PDP peach data and incorporating 12%CT = 0.0104. Point estimate multiplied by processing factor.	12%	
Potatoes (White), Dry	No detectable residues found. ½ LOD = 0.011 ppm used	N/A	Not detected in two years of PDP monitoring (1995-96).
Potatoes (White) Unspecified	No detectable residue found. ½ LOD used incorporating 10% CT.	10%	Not detected in two years of PDP Monitoring (1995-96). RDF #10
Potatoes (White), Whole	No detectable residue found. ½ LOD used incorporating 10% CT.	10%	Not detected in two years of PDP Monitoring (1995-96). RDF #10
Quince	Single Serving PDP pear data and incorporating 75% CT.	75%	RDF #23
Raspberries	Composite FDA raspberry data directly and incorporating 14% CT.	14%	RDF #1
Shallots	Bulb onion FT data and incorporated 2% CT.	2%	RDF #18

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Crop	Residue Data Used	%Crop Treated ¹	Comments on data Selected
Strawberries	Composite FDA raspberry data directly and incorporating 12% CT.	12%	RDF #4
Strawberry Juice	Point estimate using FDA strawberry data incorporating ½ LOD and 12% CT = 0.0025.	12%	
Tangelos	Composite PDP orange data directly and 3% CT.	3%	Few PDP residues (3) detected in three years of PDP data. Total samples = 1209. RDF #22
Tangerines	Composite PDP orange data directly and 3% CT.	3%	Few PDP residues (3) detected in three years of PDP data. Total samples = 1209. RDF #22
Tangerine Juice	Full distribution of PDP orange juice data.	N/A	Used PDP orange juice data as blended although not generally considered to be blended. Rationale: comparable residues in orange and orange juice. RDF #20
Tangerine Juice Concentrate	Full distribution of PDP orange juice data and a concentration factor.	N/A	Used PDP orange juice data as blended although not generally considered to be blended. Rationale: comparable residues in orange and orange juice. RDF #20
Tomato Juice	Point estimate using PDP tomato data incorporating ½ LOD and 11% CT = 0.0031. Point estimate multiplied by processing factor.	11%	
Tomato Catsup	Point estimate using PDP tomato data incorporating ½ LOD and 11% CT = 0.0031. Point estimate multiplied by processing factor.	11%	
Tomato Paste	Point estimate using PDP tomato data incorporating ½ LOD and 11% CT = 0.0031. Point estimate multiplied by processing factor.	11%	
Tomato Puree	Point estimate using PDP tomato data incorporating ½ LOD and 11% CT = 0.0031. Point estimate multiplied by processing factor.	11%	
Tomato, Whole	Composite PDP tomato data and incorporated 10% CT for unprocessed and 11% CT for processed tomatoes.	10%/11%	Low PDP residues (<0.1) detected in three years of PDP data. Total of 879 samples. RDF #12 and #31
Tomato, Dried	Composite PDP tomato data directly incorporating 10% CT and concentration factor.	10%	Low PDP residues (<0.1) detected in three years of PDP data. Total of 879 samples. RDF #31
Walnut Oil	Point estimate using mean FT X 30% CT = 0.029. Point estimate multiplied by processing factor. [Field trials used 2.0 lb ai/A, 3 applications, PHI of 21 days].	30%	
Walnuts	Point estimate using mean FT X 30% CT = 0.029. [Field trials used 2.0 lb ai/A, 3 applications, PHI of 21 days].	30%	

Crop	Residue Data Used	%Crop Treated ¹	Comments on data Selected
Watermelon Juice	No detectable residues found. ½ LOD = 0.0015 used	N/A	Not detected in four years of FDA monitoring (1994-97). RDF #25
Watermelon	No detectable residue found. ½ LOD used incorporating 2% CT.	2%	Not detected in four years of FDA monitoring (1994-97). RDF #25
Wintermelon	No detectable residue found. ½ LOD used incorporating 2% CT.	2%	Not detected in four years of FDA monitoring (1994-97). RDF #25

¹ %CT = Percent Crop Treated; BEAD estimated percent crop treated used for all commodities except kumquats, crabapples and quinces which were registrant supplied percent crop treated .

² FT = Field Trial

³ PDP = Pesticide Data Program - This is a USDA pesticide residue monitoring program.

⁴ LOD = Level of Detection

⁵ When BEAD reports <0.5% crop treated (CT), 1% CT was used.

⁶ Used % crop treated for raspberry

⁷ 58% CT used for sweet cherries; 80% CT used for tart cherries.

⁸ RDF = Residue distribution File

Revised Monte Carlo Analysis

U.S. Environmental Protection Agency Ver. 6.73
 DEEM ACUTE analysis for AZINPHOS METHYL (1989-92 data)
 Residue file: \$sazmfin.R96 Adjustment factor #2 NOT used.
 Analysis Date: 05-12-1999/15:44:05 Residue file dated: 05-12-1999/14:11:32/8
 Acute Reference Dose (aRfD) = 0.003000 mg/kg body-wt/day
 NOEL (Acute) = 1.000000 mg/kg body-wt/day
 MC iterations = 1000 MC list in residue file MC seed = 10
 Run Comment: New BEAD %CT(March 1999) and using est. Maximum

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Summary calculations:

	95th Percentile			99th Percentile			99.9th Percentile		
	Exposure	% aRfD	MOE	Exposure	% aRfD	MOE	Exposure	% aRfD	MOE
U.S. pop - all seasons:	0.000179	5.98	5571	0.000500	16.65	2001	0.001781	59.37	561
All infants (<1 year):	0.000450	14.99	2223	0.000881	29.37	1134	0.003003	100.12	332
Nursing infants (<1 year):	0.000290	9.66	3451	0.001232	41.07	811	0.003632	121.07	275
Non-nursing infants (<1 yr):	0.000463	15.44	2158	0.000719	23.98	1389	0.002234	74.47	447
Children (1-6 years):	0.000415	13.84	2409	0.001046	34.86	956	0.003913	130.43	255
Children (7-12 years):	0.000261	8.70	3831	0.000724	24.13	1381	0.002704	90.12	369

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U.S. Environmental Protection Agency
DEEM Acute analysis for AZINPHOS METHYL
Residue file name: E:\MAX_NEW\\$\$sazmfin.R96
Analysis Date 05-12-1999
Reference dose: aRFD = 0.003 mg/kg bw/day NOEL = 1 mg/kg bw/day
Comment: New BEAD %CT (March 1999) and using est. Maximum

Ver. 6.73
1989-92 data
Adjust. #2 NOT used

Residue file dated: 05-12-1999/14:11:32/8

RDF indices and file names for Monte Carlo Analysis

- 1 lfdarasp.rdf
- 2 lfdablub.rdf
- 3 Grpehans.rdf
- 4 lfdastrw.rdf
- 5 Grfrhans.rdf
- 6 Lemohans.rdf
- 7 Citrhans.rdf
- 8 Ssapple.rdf
- 9 Pdpappjc.rdf
- 10 sspear.rdf
- 11 Peachans.rdf
- 12 TomaFres.rdf
- 13 Celehans.rdf
- 14 Brochans.rdf
- 15 Brushans.rdf
- 16 Cabboth.rdf
- 17 Caulhans.rdf
- 18 Dryonion.rdf
- 19 Gronion.rdf
- 20 Pdpoj.rdf
- 21 Sscrabap.rdf
- 22 Ornghans.rdf
- 23 Ssquinc.rdf
- 24 Grbn.rdf
- 25 melon.rdf
- 26 cucumb.rdf
- 27 Cantelop.rdf
- 28 Nectarin.rdf
- 29 Plumhans.rdf
- 30 potato.rdf
- 31 TomaProc.rdf
- 32 honeyde.rdf
- 33 Scherry.rdf
- 34 Tcherry.rdf

Food Crop	Grp	Food Name	RESIDUE (ppm)	RDF #	Adj. Factors	Code #1 #2
1	13A	Blackberries				
		11-Uncooked	0.730000	1	0.370	1.000
		13-Baked	0.730000	1	0.370	1.000
		14-Boiled	0.730000	1	0.370	1.000
		31-Canned: NFS	0.730000	1	0.140	1.000
		34-Canned: Boiled	0.730000	1	0.140	1.000
		41-Frozen: NFS	0.730000	1	0.310	1.000
2	13A	Boysenberries	0.730000	1	0.370	1.000
3	13A	Dewberries	0.730000	1	0.370	1.000
4	13A	Loganberries	0.730000	1	0.370	1.000
5	13A	Raspberries				
		11-Uncooked	0.730000	1	0.370	1.000
		13-Baked	0.730000	1	0.370	1.000
		14-Boiled	0.730000	1	0.370	1.000
		31-Canned: NFS	0.730000	1	0.140	1.000
		34-Canned: Boiled	0.730000	1	0.140	1.000
		41-Frozen: NFS	0.730000	1	0.140	1.000
7	13B	Blueberries				
		11-Uncooked	0.300000	2	0.370	1.000
		12-Cooked: NFS	0.300000	2	0.370	1.000
		13-Baked	0.300000	2	0.370	1.000
		14-Boiled	0.300000	2	0.370	1.000
		15-Fried	0.300000	2	0.370	1.000
		31-Canned: NFS	0.300000	2	0.140	1.000
		41-Frozen: NFS	0.300000	2	0.310	1.000
8	0	Cranberries				
		11-Uncooked	0.020000	0	0.370	1.000
		12-Cooked: NFS	0.020000	0	0.370	1.000
		13-Baked	0.020000	0	0.370	1.000
		18-Dried	0.020000	0	0.370	1.000
		31-Canned: NFS	0.020000	0	0.140	1.000
		42-Frozen: Cooked	0.020000	0	0.310	1.000
9	0	Cranberries-juice	0.020000	0	0.320	1.000
13	0	Grapes				
		11-Uncooked	7.200000	3	1.000	1.000
		12-Cooked: NFS	7.200000	3	1.000	1.000
		31-Canned: NFS	0.330000	3	0.380	1.000
		41-Frozen: NFS	0.330000	3	0.860	1.000
14	0	Grapes-raisins	0.330000	3	4.300	1.000
15	0	Grapes-juice	0.000300	0	1.200	1.000
17	0	Strawberries				
		11-Uncooked	1.300000	4	0.370	1.000
		12-Cooked: NFS	0.432000	4	0.370	1.000
		13-Baked	0.432000	4	0.370	1.000
		14-Boiled	0.432000	4	0.370	1.000
		31-Canned: NFS	0.432000	4	0.140	1.000
		34-Canned: Boiled	0.432000	4	0.140	1.000
		41-Frozen: NFS	0.432000	4	0.310	1.000
20	10	Citrus citron	0.013000	7	1.000	1.000
22	10	Grapefruit-peeled fruit	1.500000	5	1.000	1.000
23	10	Grapefruit-juice	0.010200	20	1.000	1.000
24	10	Kumquats	0.013000	7	1.000	1.000
26	10	Lemons-peeled fruit	1.500000	6	1.000	1.000
27	10	Lemons-peel	1.500000	6	1.000	1.000
28	10	Lemons-juice	0.179000	20	1.000	1.000
30	10	Limes-peeled fruit	1.500000	7	1.000	1.000

31 10	Limes-peel	1.500000	7	1.000	1.000
32 10	Limes-juice	0.179000	20	1.000	1.000
33 10	Oranges-juice-concentrate	0.013000	20	4.900	1.000
34 10	Oranges-peeled fruit	1.500000	22	1.000	1.000
35 10	Oranges-peel	1.500000	22	1.000	1.000
36 10	Oranges-juice				
	11-Uncooked	0.013000	20	1.000	1.000
	12-Cooked: NFS	0.013000	20	1.000	1.000
	31-Canned: NFS	0.013000	20	1.000	1.000
	41-Frozen: NFS	0.013000	20	1.000	1.000
37 10	Tangelos	1.500000	7	1.000	1.000
38 10	Tangerines	1.500000	7	1.000	1.000
39 10	Tangerines-juice	0.013000	20	1.000	1.000
40 14	Almonds	0.004000	0	1.000	1.000
44 14	Filberts (hazelnuts)	0.015600	0	1.000	1.000
47 14	Pecans	0.001200	0	1.000	1.000
48 14	Walnuts	0.029200	0	1.000	1.000
50 0	Pistachio nuts	0.001200	0	1.000	1.000
52 11	Apples				
	11-Uncooked	1.270000	8	1.000	1.000
	12-Cooked: NFS	1.270000	8	1.000	1.000
	13-Baked	1.270000	8	1.000	1.000
	14-Boiled	0.037000	0	0.360	1.000
	15-Fried	1.270000	8	1.000	1.000
	18-Dried	0.000000	0	1.000	1.000
	31-Canned: NFS	0.037000	0	0.360	1.000
	32-Canned: Cooked	0.037000	0	0.360	1.000
	33-Canned: Baked	0.037000	0	0.360	1.000
	34-Canned: Boiled	0.037000	0	0.360	1.000
	42-Frozen: Cooked	0.153000	8	0.360	1.000
53 11	Apples-dried	0.153000	8	5.840	1.000
54 11	Apples-juice/cider	0.010000	9	1.000	1.000
55 11	Crabapples	1.270000	21	1.000	1.000
56 11	Pears				
	11-Uncooked	1.270000	10	1.000	1.000
	12-Cooked: NFS	0.059000	0	1.000	1.000
	13-Baked	1.270000	10	1.000	1.000
	14-Boiled	0.059000	0	1.000	1.000
	31-Canned: NFS	0.059000	0	0.360	1.000
57 11	Pears-dried				
	13-Baked	0.150000	10	5.800	1.000
	14-Boiled	0.059000	10	5.800	1.000
	18-Dried	0.000000	0	1.000	1.000
58 11	Quinces	1.270000	23	1.000	1.000
61 12	Cherries				
	11-Uncooked	1.190000	33	0.370	1.000
	12-Cooked: NFS	1.640000	34	0.370	1.000
	13-Baked	1.640000	34	0.370	1.000
	14-Boiled	1.640000	34	0.370	1.000
	31-Canned: NFS	1.640000	34	0.037	1.000
	33-Canned: Baked	1.640000	34	0.037	1.000
	41-Frozen: NFS	1.640000	34	0.310	1.000
62 12	Cherries-dried	1.190000	33	2.160	1.000
63 12	Cherries-juice				
	13-Baked	0.050000	0	0.320	1.000
	14-Boiled	0.050000	0	0.320	1.000
	31-Canned: NFS	0.050000	0	0.120	1.000
	41-Frozen: NFS	0.050000	0	0.280	1.000
64 12	Nectarines	0.790000	28	1.000	1.000

65	12	Peaches				
		11-Uncooked	0.260000	11	1.000	1.000
		12-Cooked: NFS	0.260000	11	1.000	1.000
		13-Baked	0.260000	11	1.000	1.000
		14-Boiled	0.020000	0	0.360	1.000
		31-Canned: NFS	0.020000	0	0.360	1.000
		41-Frozen: NFS	0.190000	11	0.360	1.000
66	12	Peaches-dried	0.260000	11	7.000	1.000
67	12	Plums (damsons)				
		11-Uncooked	0.890000	29	1.000	1.000
		12-Cooked: NFS	0.890000	29	1.000	1.000
		31-Canned: NFS	0.020000	0	0.360	1.000
		42-Frozen: Cooked	0.020000	29	0.360	1.000
		51-Cured: NFS (smoked/p	0.020000	29	1.000	1.000
68	12	Plums-prunes (dried)	0.020000	29	5.000	1.000
69	12	Plums/prune-juice	0.010400	0	1.400	1.000
141	9A	Melons-cantaloupes-juice	0.001500	0	1.000	1.000
142	9A	Melons-cantaloupes-pulp	0.001500	27	1.000	1.000
143	9A	Casabas	0.001500	25	1.000	1.000
144	9A	Crenshaws	0.001500	25	0.031	1.000
145	9A	Melons-honeydew	0.001500	32	1.000	1.000
146	9A	Melons-persian	0.001500	25	1.000	1.000
147	9A	Watermelon	0.001500	25	1.000	1.000
148	9B	Cucumbers				
		11-Uncooked	0.001500	26	0.410	1.000
		34-Canned: Boiled	0.001500	26	0.004	1.000
		60-Canned: Cured	0.001500	26	0.004	1.000
159	8	Tomatoes-whole				
		11-Uncooked	1.530000	12	1.000	1.000
		12-Cooked: NFS	1.530000	12	1.000	1.000
		13-Baked	1.530000	12	1.000	1.000
		14-Boiled	1.530000	12	1.000	1.000
		15-Fried	1.530000	12	1.000	1.000
		31-Canned: NFS	0.041000	31	1.000	1.000
		32-Canned: Cooked	0.041000	31	1.000	1.000
		33-Canned: Baked	0.041000	31	1.000	1.000
		34-Canned: Boiled	0.041000	31	1.000	1.000
		42-Frozen: Cooked	0.041000	31	1.000	1.000
160	8	Tomatoes-juice				
		31-Canned: NFS	0.003100	0	0.004	1.000
		32-Canned: Cooked	0.003100	0	0.004	1.000
		34-Canned: Boiled	0.003100	0	0.004	1.000
		42-Frozen: Cooked	0.003100	0	0.316	1.000
161	8	Tomatoes-puree				
		12-Cooked: NFS	0.003100	0	0.020	1.000
		14-Boiled	0.003100	0	0.020	1.000
		31-Canned: NFS	0.003100	0	0.000	1.000
		32-Canned: Cooked	0.003100	0	0.000	1.000
		33-Canned: Baked	0.003100	0	0.000	1.000
		34-Canned: Boiled	0.003100	0	0.000	1.000
		42-Frozen: Cooked	0.003100	0	0.014	1.000
162	8	Tomatoes-paste				
		14-Boiled	0.003100	0	0.010	1.000
		31-Canned: NFS	0.003100	0	0.000	1.000
		32-Canned: Cooked	0.003100	0	0.000	1.000
		33-Canned: Baked	0.003100	0	0.000	1.000
		34-Canned: Boiled	0.003100	0	0.000	1.000
		42-Frozen: Cooked	0.003100	0	0.007	1.000
163	8	Tomatoes-catsup	0.003100	0	0.020	1.000

166 4B	Celery				
	11-Uncooked	0.900000	13	1.000	1.000
	12-Cooked: NFS	0.900000	13	1.000	1.000
	13-Baked	0.900000	13	1.000	1.000
	14-Boiled	0.900000	13	1.000	1.000
	15-Fried	0.900000	13	1.000	1.000
	31-Canned: NFS	0.518000	13	0.830	1.000
	32-Canned: Cooked	0.518000	13	0.830	1.000
	34-Canned: Boiled	0.518000	13	0.830	1.000
	42-Frozen: Cooked	0.518000	13	0.720	1.000
168 5A	Broccoli				
	11-Uncooked	0.940000	14	1.000	1.000
	12-Cooked: NFS	0.940000	14	1.000	1.000
	13-Baked	0.940000	14	1.000	1.000
	14-Boiled	0.940000	14	1.000	1.000
	15-Fried	0.940000	14	1.000	1.000
	32-Canned: Cooked	0.010000	14	0.830	1.000
	42-Frozen: Cooked	0.010000	14	0.720	1.000
	44-Frozen: Boiled	0.010000	14	0.720	1.000
169 5A	Brussels sprouts	0.750000	15	1.000	1.000
170 5A	Cabbage-green and red				
	11-Uncooked	0.300000	16	1.000	1.000
	12-Cooked: NFS	0.300000	16	1.000	1.000
	13-Baked	0.300000	16	1.000	1.000
	14-Boiled	0.300000	16	1.000	1.000
	15-Fried	0.300000	16	1.000	1.000
	31-Canned: NFS	0.010000	16	0.830	1.000
	32-Canned: Cooked	0.010000	16	0.830	1.000
	51-Cured: NFS (smoked/p	0.010000	16	1.000	1.000
171 5A	Cauliflower				
	11-Uncooked	0.940000	17	1.000	1.000
	12-Cooked: NFS	0.940000	17	1.000	1.000
	14-Boiled	0.940000	17	1.000	1.000
	15-Fried	0.940000	17	1.000	1.000
	42-Frozen: Cooked	0.010000	17	1.000	1.000
195 0	Grapes-leaves	7.200000	3	0.370	1.000
204 3	Leeks	0.550000	19	0.410	1.000
205 3	Onions-dry-bulb (cipollini)				
	11-Uncooked	0.050000	18	1.000	1.000
	12-Cooked: NFS	0.050000	18	1.000	1.000
	13-Baked	0.050000	18	1.000	1.000
	14-Boiled	0.050000	18	1.000	1.000
	15-Fried	0.050000	18	1.000	1.000
	31-Canned: NFS	0.013000	18	1.000	1.000
	32-Canned: Cooked	0.013000	18	1.000	1.000
	34-Canned: Boiled	0.013000	18	1.000	1.000
	42-Frozen: Cooked	0.013000	18	1.000	1.000
	43-Frozen: Baked	0.013000	18	1.000	1.000
	44-Frozen: Boiled	0.013000	18	1.000	1.000
	60-Canned: Cured	0.013000	18	1.000	1.000
206 3	Onions-dehydrated or dried	0.013000	18	9.000	1.000
207 1C	Potatoes/white-whole	0.011000	30	1.000	0.200
208 1C	Potatoes/white-unspecified	0.011000	30	1.000	0.200
209 1C	Potatoes/white-peeled	0.011000	30	1.000	0.200
210 1C	Potatoes/white-dry	0.001100	0	6.500	1.000
211 1C	Potatoes/white-peel only	0.011000	30	1.000	0.200
217 3	Shallots	0.050000	18	1.000	1.000
233 6B	Beans-succulent-lima				
	11-Uncooked	2.000000	24	1.000	1.000

	12-Cooked: NFS	2.000000	24	1.000	1.000
	14-Boiled	2.000000	24	1.000	1.000
	32-Canned: Cooked	2.000000	24	0.830	1.000
	42-Frozen: Cooked	2.000000	24	0.720	1.000
	44-Frozen: Boiled	2.000000	24	0.720	1.000
234 6A	Beans-succulent-green				
	11-Uncooked	2.000000	24	1.000	1.000
	12-Cooked: NFS	2.000000	24	1.000	1.000
	14-Boiled	2.000000	24	1.000	1.000
	31-Canned: NFS	2.000000	24	0.830	1.000
	32-Canned: Cooked	2.000000	24	0.830	1.000
	34-Canned: Boiled	2.000000	24	0.830	1.000
	42-Frozen: Cooked	2.000000	24	0.720	1.000
	44-Frozen: Boiled	2.000000	24	0.720	1.000
	51-Cured: NFS (smoked/p	2.000000	24	1.000	1.000
235 6A	Beans-succulent-other				
	34-Canned: Boiled	2.000000	24	0.830	1.000
236 6A	Beans-succulent-yellow/wax				
	14-Boiled	2.000000	24	1.000	1.000
	32-Canned: Cooked	2.000000	24	0.830	1.000
	42-Frozen: Cooked	2.000000	24	0.720	1.000
248 O	Alfalfa sprouts	0.020000	0	0.410	1.000
250 6B	Beans-succulent-broadbeans	2.000000	24	1.000	1.000
253 6	Beans-unspecified	2.000000	24	1.000	1.000
257 6	Beans-succulent-hyacinth	2.000000	24	1.000	1.000
262 3	Onions-green				
	11-Uncooked	0.550000	19	1.000	1.000
	12-Cooked: NFS	0.550000	19	1.000	1.000
	13-Baked	0.550000	19	1.000	1.000
	14-Boiled	0.550000	19	1.000	1.000
	15-Fried	0.550000	19	1.000	1.000
	31-Canned: NFS	0.011000	19	1.000	1.000
	32-Canned: Cooked	0.011000	19	1.000	1.000
290 O	Cottonseed-oil	0.500000	0	1.000	1.000
291 O	Cottonseed-meal	0.500000	0	1.000	1.000
377 11	Apples-juice-concentrate				
	12-Cooked: NFS	0.010000	9	3.000	1.000
	13-Baked	0.010000	9	3.000	1.000
	31-Canned: NFS	0.010000	9	3.000	1.000
	41-Frozen: NFS	0.010000	9	3.000	1.000
380 13A	Blackberries-juice	0.002000	0	0.320	1.000
383 5B	Cabbage-savoy	0.300000	16	1.000	1.000
384 4B	Celery juice	0.003000	0	1.000	1.000
389 O	Cranberries-juice-concentrate	0.020000	0	0.510	1.000
392 O	Grapes-juice-concentrate	0.000300	0	3.600	1.000
402 12	Peaches-juice	0.020000	0	0.810	1.000
404 11	Pears-juice	0.150000	9	1.000	1.000
416 O	Strawberries-juice	0.002500	0	0.320	1.000
420 10	Tangerines-juice-concentrate	0.012000	20	3.200	1.000
423 8	Tomatoes-dried	0.041000	12	7.450	1.000
431 14	Walnut oil	0.029200	0	1.000	1.000
436 9A	Watermelon-juice	0.001500	25	1.000	1.000
439 9B	Wintermelon	0.001500	25	1.000	1.000
441 10	Grapefruit-juice-concentrate	0.010000	20	3.000	1.000
442 10	Lemons-juice-concentrate	0.179000	20	2.000	1.000
443 10	Limes-juice-concentrate	0.179000	20	3.000	1.000
448 10	Grapefruit peel	1.500000	5	1.000	1.000
467 19B	Celery seed	0.003000	0	1.000	1.000

U.S. Environmental Protection Agency
 DEEM Acute Critical Exposure Contribution Analysis (Ver
 f.73)
 CSFII 1989-92
 Residue file = E:\MAX_NEW\\$\\$azmfir.R96
 Acute report = E:\MAX_NEW\\$\\$azmfir5.AC4
 Date and time of analysis: 05-12-1999 14:53:01
 Critical exposure value = .0018
 Minimum exposure contribution = 10
 Max number of records = 100
 Exposures divided by body weight
 Subpopulations:
 1 = U.S. pop - all seasons
 2 = All infants (<1 year)
 3 = Nursing infants (<1 year)
 4 = Non-nursing infants (<1 year)
 5 = Children (1-6 years)
 6 = Children (7-12 years)

Number of individual exposure records cannot exceed 100
 CEC file terminated; analysis continues.

CEC's for subpopulation 1 U.S. pop - all seasons

Demographic data for each record:

rec	pid	day	sex	age	bw-kg	nf	tot	expos
#	#	---	---	---	---	---	---	---

Exposure contribution data by food consumed (nf lines):
 rac ff amt(g) residue adj#1 contribtn percent

1	1	1	F	5	15.00	1	0.002118	
168	14	77.7		0.400000	1.00	0.002072	97.83	Broccoli; Boiled
2	1	1	F	5	15.00	1	0.003483	
65	12	58.8		0.877700	1.00	0.003441	98.78	Peaches; Cooked: NFS
3	1	1	F	5	15.00	1	0.002177	
168	14	77.7		0.400000	1.00	0.002072	95.18	Broccoli; Boiled
4	1	1	F	5	15.00	1	0.002391	
65	12	58.8		0.598870	1.00	0.002348	98.18	Peaches; Cooked: NFS
5	1	1	F	5	15.00	1	0.002191	
65	12	58.8		0.548220	1.00	0.002149	98.07	Peaches; Cooked: NFS
6	1	1	F	5	15.00	1	0.001997	
65	12	58.8		0.498590	1.00	0.001954	97.88	Peaches; Cooked: NFS
7	1	1	F	5	15.00	1	0.002158	
168	14	77.7		0.400000	1.00	0.002072	96.02	Broccoli; Boiled
8	1	1	F	5	15.00	1	0.002020	
65	12	58.8		0.503700	1.00	0.001975	97.73	Peaches; Cooked: NFS
9	1	3	F	5	15.00	1	0.002447	
168	14	91.4		0.400000	1.00	0.002437	99.59	Broccoli; Boiled
10	2	1	M	40	72.73	2	0.001884	
52	11	212.0		0.560000	1.00	0.001632	86.67	Apples; Uncooked
61	13	103.8		0.400000	0.37	0.000211	11.21	Cherries; Baked
11	2	1	M	40	72.73	1	0.006393	
66	18	8.3		7.600000	7.00	0.006071	94.97	Peaches-dried; Dried

12	2	1	M	40	72.73	3	0.001860	
52	11	212.0		0.190000	1.00	0.000554	29.77	Apples; Uncooked
53	13	8.3		0.330000	5.84	0.000220	11.82	Apples-dried; Baked
66	18	8.3		1.246920	7.00	0.000996	53.55	Peaches-dried; Dried
13	2	2	M	40	72.73	1	0.002580	
66	18	8.3		3.166710	7.00	0.002530	98.07	Peaches-dried; Dried
14	3	1	M	8	26.36	1	0.002642	
52	11	138.0		0.480000	1.00	0.002513	95.09	Apples; Uncooked
15	3	1	M	8	26.36	1	0.001814	
52	11	138.0		0.330000	1.00	0.001727	95.23	Apples; Uncooked
16	3	1	M	8	26.36	1	0.001891	
52	11	138.0		0.330000	1.00	0.001727	91.35	Apples; Uncooked
17	3	1	M	8	26.36	1	0.002825	
52	11	138.0		0.520000	1.00	0.002722	96.36	Apples; Uncooked
18	3	1	M	8	26.36	1	0.002017	
52	11	138.0		0.370000	1.00	0.001937	96.04	Apples; Uncooked
19	3	1	M	8	26.36	1	0.002609	
52	11	138.0		0.480000	1.00	0.002513	96.30	Apples; Uncooked
20	3	1	M	8	26.36	1	0.002044	
52	11	138.0		0.370000	1.00	0.001937	94.75	Apples; Uncooked
21	3	1	M	8	26.36	1	0.001809	
52	11	138.0		0.330000	1.00	0.001727	95.50	Apples; Uncooked
22	3	1	M	8	26.36	1	0.001921	
52	11	138.0		0.330000	1.00	0.001727	89.90	Apples; Uncooked
23	3	1	M	8	26.36	1	0.002670	
52	11	138.0		0.480000	1.00	0.002513	94.09	Apples; Uncooked
24	3	1	M	8	26.36	1	0.002808	
52	11	138.0		0.520000	1.00	0.002722	96.92	Apples; Uncooked
25	3	1	M	8	26.36	1	0.002868	
52	11	138.0		0.520000	1.00	0.002722	94.92	Apples; Uncooked
26	3	1	M	8	26.36	1	0.003011	
52	11	138.0		0.560000	1.00	0.002931	97.34	Apples; Uncooked
27	3	1	M	8	26.36	1	0.002806	
52	11	138.0		0.520000	1.00	0.002722	97.02	Apples; Uncooked
28	3	1	M	8	26.36	1	0.002810	
52	11	138.0		0.520000	1.00	0.002722	96.86	Apples; Uncooked
29	3	1	M	8	26.36	1	0.001890	
52	11	138.0		0.330000	1.00	0.001727	91.39	Apples; Uncooked
30	3	1	M	8	26.36	1	0.001844	
159	34	61.3		0.710000	1.00	0.001651	89.55	

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Tomatoes-whole; Canned: Boiled

31	3	1	M	8	26.36	1	0.002109	
52	11	138.0		0.370000	1.00	0.001937	91.82	
Apples; Uncooked								
32	3	1	M	8	26.36	1	0.002811	
52	11	138.0		0.520000	1.00	0.002722	96.81	
Apples; Uncooked								
33	3	1	M	8	26.36	1	0.002841	
52	11	138.0		0.520000	1.00	0.002722	95.81	
Apples; Uncooked								
34	3	1	M	8	26.36	1	0.001860	
52	11	138.0		0.330000	1.00	0.001727	92.88	
Apples; Uncooked								
35	3	1	M	8	26.36	1	0.002598	
52	11	138.0		0.480000	1.00	0.002513	96.73	
Apples; Uncooked								
36	3	1	M	8	26.36	1	0.003022	
52	11	138.0		0.560000	1.00	0.002931	96.99	
Apples; Uncooked								
37	3	3	M	8	26.36	1	0.001870	
52	11	138.0		0.330000	1.00	0.001727	92.39	
Apples; Uncooked								
38	3	3	M	8	26.36	1	0.003018	
52	11	138.0		0.560000	1.00	0.002931	97.14	
Apples; Uncooked								
39	3	3	M	8	26.36	1	0.002821	
52	11	138.0		0.520000	1.00	0.002722	96.49	
Apples; Uncooked								
40	3	3	M	8	26.36	1	0.002036	
52	11	138.0		0.370000	1.00	0.001937	95.14	
Apples; Uncooked								
41	3	3	M	8	26.36	1	0.002606	
52	11	138.0		0.480000	1.00	0.002513	96.42	
Apples; Uncooked								
42	3	3	M	8	26.36	1	0.001820	
52	11	138.0		0.330000	1.00	0.001727	94.90	
Apples; Uncooked								
43	3	3	M	8	26.36	1	0.002030	
52	11	138.0		0.370000	1.00	0.001937	95.40	
Apples; Uncooked								
44	3	3	M	8	26.36	1	0.002069	
52	11	138.0		0.370000	1.00	0.001937	93.59	
Apples; Uncooked								
45	3	3	M	8	26.36	1	0.002605	
52	11	138.0		0.480000	1.00	0.002513	96.43	
Apples; Uncooked								
46	3	3	M	8	26.36	1	0.002023	
52	11	138.0		0.370000	1.00	0.001937	95.76	
Apples; Uncooked								
47	3	3	M	8	26.36	1	0.003030	
52	11	138.0		0.560000	1.00	0.002931	96.73	
Apples; Uncooked								
48	3	3	M	8	26.36	1	0.003046	
52	11	138.0		0.560000	1.00	0.002931	96.22	
Apples; Uncooked								
49	4	3	M	6	19.09	1	0.002867	
52	11	138.0		0.370000	1.00	0.002675	93.28	
Apples; Uncooked								

50	4	3	M	6	19.09	1	0.002032	
52	11	138.0		0.250000	1.00	0.001807	88.95	
Apples; Uncooked								
51	4	3	M	6	19.09	1	0.002013	
52	11	138.0		0.260000	1.00	0.001879	93.37	
Apples; Uncooked								
52	4	3	M	6	19.09	1	0.002808	
52	11	138.0		0.370000	1.00	0.002675	95.24	
Apples; Uncooked								
53	4	3	M	6	19.09	1	0.002909	
52	11	138.0		0.370000	1.00	0.002675	91.96	
Apples; Uncooked								
54	4	3	M	6	19.09	1	0.002027	
52	11	138.0		0.260000	1.00	0.001879	92.74	
Apples; Uncooked								
55	4	3	M	6	19.09	1	0.002013	
52	11	138.0		0.260000	1.00	0.001879	93.37	
Apples; Uncooked								
56	4	3	M	6	19.09	1	0.002519	
52	11	138.0		0.330000	1.00	0.002385	94.69	
Apples; Uncooked								
57	4	3	M	6	19.09	1	0.002822	
52	11	138.0		0.370000	1.00	0.002675	94.79	
Apples; Uncooked								
58	4	3	M	6	19.09	1	0.004163	
52	11	138.0		0.560000	1.00	0.004048	97.23	
Apples; Uncooked								
59	4	3	M	6	19.09	1	0.003892	
52	11	138.0		0.520000	1.00	0.003759	96.57	
Apples; Uncooked								
60	4	3	M	6	19.09	1	0.002808	
52	11	138.0		0.370000	1.00	0.002675	95.25	
Apples; Uncooked								
61	4	3	M	6	19.09	1	0.001941	
52	11	138.0		0.250000	1.00	0.001807	93.12	
Apples; Uncooked								
62	4	3	M	6	19.09	1	0.003874	
52	11	138.0		0.520000	1.00	0.003759	97.03	
Apples; Uncooked								
63	4	3	M	6	19.09	1	0.003983	
52	11	138.0		0.520000	1.00	0.003759	94.36	
Apples; Uncooked								
64	4	3	M	6	19.09	1	0.002004	
52	11	138.0		0.260000	1.00	0.001879	93.79	
Apples; Uncooked								
65	4	3	M	6	19.09	1	0.004181	
52	11	138.0		0.560000	1.00	0.004048	96.81	
Apples; Uncooked								
66	4	3	M	6	19.09	1	0.002519	
52	11	138.0		0.330000	1.00	0.002385	94.70	
Apples; Uncooked								
67	4	3	M	6	19.09	1	0.004182	
52	11	138.0		0.560000	1.00	0.004048	96.80	
Apples; Uncooked								
68	4	3	M	6	19.09	1	0.002533	
52	11	138.0		0.330000	1.00	0.002385	94.19	
Apples; Uncooked								
69	4	3	M	6	19.09	1	0.003594	
52	11	138.0		0.480000	1.00	0.003470	96.54	

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Apples; Uncooked

70	4	3	M	6	19.09	1	0.003906		
52	11	138.0		0.520000	1.00	0.003759	96.23		

Apples; Uncooked

71	4	3	M	6	19.09	1	0.004273		
52	11	138.0		0.560000	1.00	0.004048	94.74		

Apples; Uncooked

72	4	3	M	6	19.09	1	0.003663		
52	11	138.0		0.480000	1.00	0.003470	94.72		

Apples; Uncooked

73	4	3	M	6	19.09	1	0.003883		
52	11	138.0		0.520000	1.00	0.003759	96.80		

Apples; Uncooked

74	4	3	M	6	19.09	1	0.003952		
52	11	138.0		0.520000	1.00	0.003759	95.12		

Apples; Uncooked

75	4	3	M	6	19.09	1	0.003585		
52	11	138.0		0.480000	1.00	0.003470	96.79		

Apples; Uncooked

76	4	3	M	6	19.09	1	0.004204		
52	11	138.0		0.560000	1.00	0.004048	96.29		

Apples; Uncooked

77	4	3	M	6	19.09	1	0.002510		
52	11	138.0		0.330000	1.00	0.002385	95.05		

Apples; Uncooked

78	4	3	M	6	19.09	1	0.003937		
52	11	138.0		0.520000	1.00	0.003759	95.47		

Apples; Uncooked

79	4	3	M	6	19.09	1	0.002799		
52	11	138.0		0.370000	1.00	0.002675	95.56		

Apples; Uncooked

80	4	3	M	6	19.09	1	0.004241		
52	11	138.0		0.560000	1.00	0.004048	95.46		

Apples; Uncooked

81	4	3	M	6	19.09	1	0.002085		
52	11	138.0		0.270000	1.00	0.001952	93.60		

Apples; Uncooked

82	4	3	M	6	19.09	1	0.002044		
52	11	138.0		0.260000	1.00	0.001879	91.94		

Apples; Uncooked

83	4	3	M	6	19.09	1	0.002076		
52	11	138.0		0.270000	1.00	0.001952	94.01		

Apples; Uncooked

84	4	3	M	6	19.09	1	0.002104		
52	11	138.0		0.260000	1.00	0.001879	89.33		

Apples; Uncooked

85	4	3	M	6	19.09	1	0.002578		
52	11	138.0		0.330000	1.00	0.002385	92.53		

Apples; Uncooked

86	5	1	F	3	14.55	1	0.001925		
52	11	138.0		0.190000	1.00	0.001803	93.64		

Apples; Uncooked

87	5	1	F	3	14.55	1	0.004699		
52	11	138.0		0.480000	1.00	0.004554	96.92		

Apples; Uncooked

88	5	1	F	3	14.55	1	0.004680		
52	11	138.0		0.480000	1.00	0.004554	97.31		

Apples; Uncooked

89	5	1	F	3	14.55	1	0.005449		
52	11	138.0		0.560000	1.00	0.005313	97.50		

Apples; Uncooked

90	5	1	F	3	14.55	1	0.004786		
52	11	138.0		0.480000	1.00	0.004554	95.14		

Apples; Uncooked

91	5	1	F	3	14.55	1	0.005082		
52	11	138.0		0.520000	1.00	0.004933	97.07		

Apples; Uncooked

92	5	1	F	3	14.55	1	0.002688		
52	11	138.0		0.270000	1.00	0.002562	95.29		

Apples; Uncooked

93	5	1	F	3	14.55	1	0.002610		
52	11	138.0		0.260000	1.00	0.002467	94.50		

Apples; Uncooked

94	5	1	F	3	14.55	1	0.002689		
52	11	138.0		0.270000	1.00	0.002562	95.27		

Apples; Uncooked

95	5	1	F	3	14.55	1	0.002606		
52	11	138.0		0.260000	1.00	0.002467	94.67		

Apples; Uncooked

96	5	1	F	3	14.55	1	0.002208		
159	34	40.9		0.710000	1.00	0.001996	90.40		

Tomatoes-whole; Canned: Boiled

97	5	1	F	3	14.55	1	0.001942		
52	11	138.0		0.190000	1.00	0.001803	92.84		

Apples; Uncooked

98	5	1	F	3	14.55	1	0.003260		
52	11	138.0		0.330000	1.00	0.003131	96.04		

Apples; Uncooked

99	5	1	F	3	14.55	1	0.003654		
52	11	138.0		0.370000	1.00	0.003510	96.08		

Apples; Uncooked

100	5	1	F	3	14.55	1	0.004692		
52	11	138.0		0.480000	1.00	0.004554	97.06		

Apples; Uncooked

CEC's for subpopulation 2 All infants (<1 year)

Demographic data for each record:

rec	pid	day	sex	age	bw-kg	nf	tot	expos
#	#	---	---	---	-----	-----	-----	-----

Exposure contribution data by food consumed (nf lines):

rac	ff	amt(g)	residue	adj#1	contributn	percnt
---	---	-----	-----	-----	-----	-----

CEC's for subpopulation 3 Nursing infants (<1 year)

Demographic data for each record:

rec	pid	day	sex	age	bw-kg	nf	tot	expos
#	#	---	---	---	-----	-----	-----	-----

Exposure contribution data by food consumed (nf lines):

rac	ff	amt(g)	residue	adj#1	contributn	percnt
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CEC's for subpopulation 4 Non-nursing infants (<1 yr)

Demographic data for each record:

rec	pid	day	sex	age	bw-kg	nf	tot	expos
#	#	---	---	---	-----	-----	-----	-----

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Exposure contribution data by food consumed (nf lines):

rac	ff	amt(g)	residue	adj#1	contributn	percnt
1	1	1	F	5	15.00	1 0.002118
168	14	77.7	0.400000	1.00	0.002072	97.83
Broccoli; Boiled						
2	1	1	F	5	15.00	1 0.003483
65	12	58.8	0.877700	1.00	0.003441	98.78
Peaches; Cooked: NFS						
3	1	1	F	5	15.00	1 0.002177
168	14	77.7	0.400000	1.00	0.002072	95.18
Broccoli; Boiled						
4	1	1	F	5	15.00	1 0.002391
65	12	58.8	0.598870	1.00	0.002348	98.18
Peaches; Cooked: NFS						
5	1	1	F	5	15.00	1 0.002191
65	12	58.8	0.548220	1.00	0.002149	98.07
Peaches; Cooked: NFS						
6	1	1	F	5	15.00	1 0.001997
65	12	58.8	0.498590	1.00	0.001954	97.88
Peaches; Cooked: NFS						
7	1	1	F	5	15.00	1 0.002158
168	14	77.7	0.400000	1.00	0.002072	96.02
Broccoli; Boiled						
8	1	1	F	5	15.00	1 0.002020
65	12	58.8	0.503700	1.00	0.001975	97.73
Peaches; Cooked: NFS						
9	1	3	F	5	15.00	1 0.002447
168	14	91.4	0.400000	1.00	0.002437	99.59
Broccoli; Boiled						
49	4	3	M	6	19.09	1 0.002867
52	11	138.0	0.370000	1.00	0.002675	93.28
Apples; Uncooked						
50	4	3	M	6	19.09	1 0.002032
52	11	138.0	0.250000	1.00	0.001807	88.95
Apples; Uncooked						
51	4	3	M	6	19.09	1 0.002013
52	11	138.0	0.260000	1.00	0.001879	93.37
Apples; Uncooked						
52	4	3	M	6	19.09	1 0.002808
52	11	138.0	0.370000	1.00	0.002675	95.24
Apples; Uncooked						
53	4	3	M	6	19.09	1 0.002909
52	11	138.0	0.370000	1.00	0.002675	91.96
Apples; Uncooked						
54	4	3	M	6	19.09	1 0.002027
52	11	138.0	0.260000	1.00	0.001879	92.74
Apples; Uncooked						

55	4	3	M	6	19.09	1 0.002013
52	11	138.0	0.260000	1.00	0.001879	93.37
Apples; Uncooked						
56	4	3	M	6	19.09	1 0.002519
52	11	138.0	0.330000	1.00	0.002385	94.69
Apples; Uncooked						
57	4	3	M	6	19.09	1 0.002822
52	11	138.0	0.370000	1.00	0.002675	94.79
Apples; Uncooked						
58	4	3	M	6	19.09	1 0.004163
52	11	138.0	0.560000	1.00	0.004048	97.23
Apples; Uncooked						
59	4	3	M	6	19.09	1 0.003892
52	11	138.0	0.520000	1.00	0.003759	96.57
Apples; Uncooked						
60	4	3	M	6	19.09	1 0.002808
52	11	138.0	0.370000	1.00	0.002675	95.25
Apples; Uncooked						
61	4	3	M	6	19.09	1 0.001941
52	11	138.0	0.250000	1.00	0.001807	93.12
Apples; Uncooked						
62	4	3	M	6	19.09	1 0.003874
52	11	138.0	0.520000	1.00	0.003759	97.03
Apples; Uncooked						
63	4	3	M	6	19.09	1 0.003983
52	11	138.0	0.520000	1.00	0.003759	94.36
Apples; Uncooked						
64	4	3	M	6	19.09	1 0.002004
52	11	138.0	0.260000	1.00	0.001879	93.79
Apples; Uncooked						
65	4	3	M	6	19.09	1 0.004181
52	11	138.0	0.560000	1.00	0.004048	96.81
Apples; Uncooked						
66	4	3	M	6	19.09	1 0.002519
52	11	138.0	0.330000	1.00	0.002385	94.70
Apples; Uncooked						
67	4	3	M	6	19.09	1 0.004182
52	11	138.0	0.560000	1.00	0.004048	96.80
Apples; Uncooked						
68	4	3	M	6	19.09	1 0.002533
52	11	138.0	0.330000	1.00	0.002385	94.19
Apples; Uncooked						
69	4	3	M	6	19.09	1 0.003594
52	11	138.0	0.480000	1.00	0.003470	96.54
Apples; Uncooked						
70	4	3	M	6	19.09	1 0.003906
52	11	138.0	0.520000	1.00	0.003759	96.23
Apples; Uncooked						
71	4	3	M	6	19.09	1 0.004273
52	11	138.0	0.560000	1.00	0.004048	94.74
Apples; Uncooked						
72	4	3	M	6	19.09	1 0.003663
52	11	138.0	0.480000	1.00	0.003470	94.72
Apples; Uncooked						
73	4	3	M	6	19.09	1 0.003883
52	11	138.0	0.520000	1.00	0.003759	96.80
Apples; Uncooked						
74	4	3	M	6	19.09	1 0.003952
52	11	138.0	0.520000	1.00	0.003759	95.12

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Apples; Uncooked

75	4	3	M	6	19.09	1	0.003585		
52	11	138.0		0.480000	1.00	0.003470	96.79		
Apples; Uncooked									
76	4	3	M	6	19.09	1	0.004204		
52	11	138.0		0.560000	1.00	0.004048	96.29		
Apples; Uncooked									
77	4	3	M	6	19.09	1	0.002510		
52	11	138.0		0.330000	1.00	0.002385	95.05		
Apples; Uncooked									
78	4	3	M	6	19.09	1	0.003937		
52	11	138.0		0.520000	1.00	0.003759	95.47		
Apples; Uncooked									
79	4	3	M	6	19.09	1	0.002799		
52	11	138.0		0.370000	1.00	0.002675	95.56		
Apples; Uncooked									
80	4	3	M	6	19.09	1	0.004241		
52	11	138.0		0.560000	1.00	0.004048	95.46		
Apples; Uncooked									
81	4	3	M	6	19.09	1	0.002085		
52	11	138.0		0.270000	1.00	0.001952	93.60		
Apples; Uncooked									
82	4	3	M	6	19.09	1	0.002044		
52	11	138.0		0.260000	1.00	0.001879	91.94		
Apples; Uncooked									
83	4	3	M	6	19.09	1	0.002076		
52	11	138.0		0.270000	1.00	0.001952	94.01		
Apples; Uncooked									
84	4	3	M	6	19.09	1	0.002104		
52	11	138.0		0.260000	1.00	0.001879	89.33		
Apples; Uncooked									
85	4	3	M	6	19.09	1	0.002578		
52	11	138.0		0.330000	1.00	0.002385	92.53		
Apples; Uncooked									
86	5	1	F	3	14.55	1	0.001925		
52	11	138.0		0.190000	1.00	0.001803	93.64		
Apples; Uncooked									
87	5	1	F	3	14.55	1	0.004699		
52	11	138.0		0.480000	1.00	0.004554	96.92		
Apples; Uncooked									
88	5	1	F	3	14.55	1	0.004680		
52	11	138.0		0.480000	1.00	0.004554	97.31		
Apples; Uncooked									
89	5	1	F	3	14.55	1	0.005449		
52	11	138.0		0.560000	1.00	0.005313	97.50		
Apples; Uncooked									
90	5	1	F	3	14.55	1	0.004786		
52	11	138.0		0.480000	1.00	0.004554	95.14		
Apples; Uncooked									
91	5	1	F	3	14.55	1	0.005082		
52	11	138.0		0.520000	1.00	0.004933	97.07		
Apples; Uncooked									
92	5	1	F	3	14.55	1	0.002688		
52	11	138.0		0.270000	1.00	0.002562	95.29		
Apples; Uncooked									
93	5	1	F	3	14.55	1	0.002610		
52	11	138.0		0.260000	1.00	0.002467	94.50		
Apples; Uncooked									

94	5	1	F	3	14.55	1	0.002689		
52	11	138.0		0.270000	1.00	0.002562	95.27		
Apples; Uncooked									
95	5	1	F	3	14.55	1	0.002606		
52	11	138.0		0.260000	1.00	0.002467	94.67		
Apples; Uncooked									
96	5	1	F	3	14.55	1	0.002208		
159	34	40.9		0.710000	1.00	0.001996	90.40		
Tomatoes-whole; Canned: Boiled									
97	5	1	F	3	14.55	1	0.001942		
52	11	138.0		0.190000	1.00	0.001803	92.84		
Apples; Uncooked									
98	5	1	F	3	14.55	1	0.003260		
52	11	138.0		0.330000	1.00	0.003131	96.04		
Apples; Uncooked									
99	5	1	F	3	14.55	1	0.003654		
52	11	138.0		0.370000	1.00	0.003510	96.08		
Apples; Uncooked									
100	5	1	F	3	14.55	1	0.004692		
52	11	138.0		0.480000	1.00	0.004554	97.06		
Apples; Uncooked									

CEC's for subpopulation 6 Children (7-12 years)

Demographic data for each record:

rec	pid	day	sex	age	bw-kg	nf	tot	expos
#	#	---	---	---	---	---	---	---

Exposure contribution data by food consumed (nf lines):

rac	ff	amt(g)	residue	adj#1	contribtn	percnt
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14	3	1	M	8	26.36	1	0.002642		
52	11	138.0		0.480000	1.00	0.002513	95.09		
Apples; Uncooked									

15	3	1	M	8	26.36	1	0.001814		
52	11	138.0		0.330000	1.00	0.001727	95.23		
Apples; Uncooked									

16	3	1	M	8	26.36	1	0.001891		
52	11	138.0		0.330000	1.00	0.001727	91.35		
Apples; Uncooked									

17	3	1	M	8	26.36	1	0.002825		
52	11	138.0		0.520000	1.00	0.002722	96.36		
Apples; Uncooked									

18	3	1	M	8	26.36	1	0.002017		
52	11	138.0		0.370000	1.00	0.001937	96.04		
Apples; Uncooked									

19	3	1	M	8	26.36	1	0.002609		
52	11	138.0		0.480000	1.00	0.002513	96.30		
Apples; Uncooked									

20	3	1	M	8	26.36	1	0.002044		
52	11	138.0		0.370000	1.00	0.001937	94.75		
Apples; Uncooked									

21	3	1	M	8	26.36	1	0.001809		
52	11	138.0		0.330000	1.00	0.001727	95.50		
Apples; Uncooked									

22	3	1	M	8	26.36	1	0.001921		
52	11	138.0		0.330000	1.00	0.001727	89.90		
Apples; Uncooked									

23	3	1	M	8	26.36	1	0.002670		
52	11	138.0		0.480000	1.00	0.002513	94.09		

Apples; Uncooked

24	3	1	M	8	26.36	1	0.002808	
52	11	138.0		0.520000	1.00	0.002722	96.92	
Apples; Uncooked								
25	3	1	M	8	26.36	1	0.002868	
52	11	138.0		0.520000	1.00	0.002722	94.92	
Apples; Uncooked								
26	3	1	M	8	26.36	1	0.003011	
52	11	138.0		0.560000	1.00	0.002931	97.34	
Apples; Uncooked								
27	3	1	M	8	26.36	1	0.002806	
52	11	138.0		0.520000	1.00	0.002722	97.02	
Apples; Uncooked								
28	3	1	M	8	26.36	1	0.002810	
52	11	138.0		0.520000	1.00	0.002722	96.86	
Apples; Uncooked								
29	3	1	M	8	26.36	1	0.001890	
52	11	138.0		0.330000	1.00	0.001727	91.39	
Apples; Uncooked								
30	3	1	M	8	26.36	1	0.001844	
159	34	61.3		0.710000	1.00	0.001651	89.55	
Tomatoes-whole; Canned; Boiled								
31	3	1	M	8	26.36	1	0.002109	
52	11	138.0		0.370000	1.00	0.001937	91.82	
Apples; Uncooked								
32	3	1	M	8	26.36	1	0.002811	
52	11	138.0		0.520000	1.00	0.002722	96.81	
Apples; Uncooked								
33	3	1	M	8	26.36	1	0.002841	
52	11	138.0		0.520000	1.00	0.002722	95.81	
Apples; Uncooked								
34	3	1	M	8	26.36	1	0.001860	
52	11	138.0		0.330000	1.00	0.001727	92.88	
Apples; Uncooked								
35	3	1	M	8	26.36	1	0.002598	
52	11	138.0		0.480000	1.00	0.002513	96.73	
Apples; Uncooked								
36	3	1	M	8	26.36	1	0.003022	
52	11	138.0		0.560000	1.00	0.002931	96.99	
Apples; Uncooked								
37	3	3	M	8	26.36	1	0.001870	
52	11	138.0		0.330000	1.00	0.001727	92.39	
Apples; Uncooked								
38	3	3	M	8	26.36	1	0.003018	
52	11	138.0		0.560000	1.00	0.002931	97.14	
Apples; Uncooked								
39	3	3	M	8	26.36	1	0.002821	
52	11	138.0		0.520000	1.00	0.002722	96.49	
Apples; Uncooked								
40	3	3	M	8	26.36	1	0.002036	
52	11	138.0		0.370000	1.00	0.001937	95.14	
Apples; Uncooked								
41	3	3	M	8	26.36	1	0.002606	
52	11	138.0		0.480000	1.00	0.002513	96.42	
Apples; Uncooked								
42	3	3	M	8	26.36	1	0.001820	
52	11	138.0		0.330000	1.00	0.001727	94.90	
Apples; Uncooked								

43	3	3	M	8	26.36	1	0.002030	
52	11	138.0		0.370000	1.00	0.001937	95.40	
Apples; Uncooked								
44	3	3	M	8	26.36	1	0.002069	
52	11	138.0		0.370000	1.00	0.001937	93.59	
Apples; Uncooked								
45	3	3	M	8	26.36	1	0.002605	
52	11	138.0		0.480000	1.00	0.002513	96.43	
Apples; Uncooked								
46	3	3	M	8	26.36	1	0.002023	
52	11	138.0		0.370000	1.00	0.001937	95.76	
Apples; Uncooked								
47	3	3	M	8	26.36	1	0.003030	
52	11	138.0		0.560000	1.00	0.002931	96.73	
Apples; Uncooked								
48	3	3	M	8	26.36	1	0.003046	
52	11	138.0		0.560000	1.00	0.002931	96.22	
Apples; Uncooked								

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