



Form 60b - Vitamins, Minerals & Carotenoids

Data File: f60b_ep_base_pub File Date: 12/20/2005 Structure: One row per participant Population: E+P participants

Participant ID

Variable # 1

Usage Notes: none

Sas Name: ID

Categories: Study: Administration

Sas Label: Participant ID

F60 Days since randomization/enrollment

Variable # 2

Usage Notes: none

Sas Name: F60DAYS

Categories: Study: Administration

Sas Label: F60 Days since randomization/enrollment

N	Min	Max	Mean	Std Dev
16555	-1301	0	-122.3929	77.74805

Analysis exclusion consideration status

Variable # 3

Usage Notes: May want to consider excluding participants with a status of 1 or 2 from analyses. The FFQ is suspect in light of the very low or very high value for the Energy (kcal) result.

Sas Name: STATUS

Categories: Computed Variables
Diet: FFQ

Sas Label: Analysis exclusion consideration status

Values	N	%
1 Energy < 600 kcal consider excluding from analyses	436	2.6%
2 Energy > 5000 kcal consider excluding from analyses	68	0.4%
3 600 kcal <= Energy <= 5000 kcal	16,051	97.0%
	16,555	

Dietary Vitamin A (RAE)

Vitamin A as retinol activity equivalents (RAE)

Variable # 4

Usage Notes: The 2001 Dietary Reference Intakes (DRI) from the Food and Nutrition Board, Institute of Medicine, National Academy of Sciences give the recommendations using the units Retinol Activity Equivalents (µg/day RAE). Thus, when reporting total vitamin A (food + supplements) RAE is the preferred unit of measure.

Sas Name: F60VITA

Sas Label: Dietary Vitamin A (RAE)

N	Min	Max	Mean	Std Dev
16555	26.26262	14990.581	749.37421	484.34697

RAE Vitamin A = mcg retinol + (mcg beta-carotene equivalents/12)

1 RAE (retinol activity equivalent):
= 1 mcg all trans retinol
= 2 mcg supplemental all trans beta-carotene
= 12 mcg of dietary all trans beta-carotene
= 24 mcg of other pro-vitamin A carotenoids (alpha-carotene and beta-cryptoxanthin)

Note that beta-carotene equivalents = mcg beta-carotene + 1/2(mcg alpha-carotene + mcg beta-cryptoxanthin). Alpha carotene and beta-cryptoxanthin have about half the activity as beta-carotene.

Categories: Computed Variables
Diet: FFQ



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Dietary Vitamin A (IU)

Total Vitamin A in International Units

Variable # 5

Sas Name: F60VITAIU

Sas Label: Dietary Vitamin A (IU)

N	Min	Max	Mean	Std Dev
16555	182.8662	99942.267	7290.1406	4413.55927

Usage Notes: Historically, International Units were the first measure to combine retinol (preformed vitamin A) and vitamin A from carotenoids into a single measure. While International Units is no longer the preferred unit for dietary assessment it is still included in the dataset because dietary supplement labels still use this terminology.

IU vitamin A = (mcg retinol/0.3) + (mcg beta-carotene equivalents/0.6)

Categories: Computed Variables Diet: FFQ

Dietary Vitamin A (mcg RE)

Total vitamin A in retinol equivalents (RE)

Variable # 6

Sas Name: F60VITARE

Sas Label: Dietary Vitamin A (mcg RE)

N	Min	Max	Mean	Std Dev
16555	32.12985	17987.667	1036.7862	618.60318

Usage Notes: Retinol equivalents (RE) overestimate the amount of vitamin A activity from carotenoids.

RE Vitamin A = mcg retinol + (mcg beta-carotene equivalents/6)

Categories: Computed Variables Diet: FFQ

Dietary Retinol (mcg)

Variable # 7

Sas Name: F60RETIN

Sas Label: Dietary Retinol (mcg)

N	Min	Max	Mean	Std Dev
16555	2.70042	14008.571	461.96588	405.32679

Usage Notes: Dietary Retinol (mcg) is preformed vitamin A found only in animal products as all-trans retinol. 1 mcg provides the equivalent of 1 mcg RE or RAE or 3.33 IU. The Dietary Retinol (mcg) variable is acceptable to use if there is interest ONLY in all-trans retinol from animal products.

Categories: Computed Variables Diet: FFQ

Dietary Thiamin (mg)

Variable # 8

Sas Name: F60THIAM

Sas Label: Dietary Thiamin (mg)

N	Min	Max	Mean	Std Dev
16555	.09377	10.35882	1.36813	.61628

Usage Notes: none

Categories: Computed Variables Diet: FFQ

Dietary Riboflavin (mg)

Variable # 9

Sas Name: F60RIBO

Sas Label: Dietary Riboflavin (mg)

N	Min	Max	Mean	Std Dev
16555	.0865	15.78983	2.0308	.95288

Usage Notes: none

Categories: Computed Variables Diet: FFQ



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Dietary Niacin (mg)

Variable # 10

Usage Notes: none

Sas Name: F60NIACN

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Niacin (mg)

N	Min	Max	Mean	Std Dev
16555	1.18112	149.36341	17.85837	8.23883

Dietary Niacin Equivalents (mg)

Variable # 11

Usage Notes: none

Sas Name: F60NICNEQ

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Niacin Equivalents (mg)

N	Min	Max	Mean	Std Dev
16555	2.12117	263.33982	30.44759	13.76086

Dietary Pantothenic Acid (mg)

Variable # 12

Usage Notes: none

Sas Name: F60PANTO

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Pantothenic Acid (mg)

N	Min	Max	Mean	Std Dev
16555	.20155	39.4028	5.35563	2.67106

Dietary Vitamin B6 (mg)

Variable # 13

Usage Notes: none

Sas Name: F60VITB6

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Vitamin B6 (mg)

N	Min	Max	Mean	Std Dev
16555	.1133	10.49447	1.58514	.70547

Dietary Vitamin B12 (mcg)

Variable # 14

Usage Notes: none

Sas Name: F60VB12

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Vitamin B12 (mcg)

N	Min	Max	Mean	Std Dev
16555	.04891	176.59551	6.14895	4.46675

Dietary Folic Acid (mcg)

Variable # 15

Usage Notes: none

Sas Name: F60FOLA

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Folic Acid (mcg)

N	Min	Max	Mean	Std Dev
16555	12.09571	1558.3818	250.13088	115.18939



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Dietary Folate Equivalents (mcg)

Variable # 16

Usage Notes: none

Sas Name: F60FLDEQ

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Folate Equivalents (mcg)

N	Min	Max	Mean	Std Dev
16555	23.61444	3502.2664	478.68951	219.97729

Dietary Natural Folate (food folate) (mcg)

Variable # 17

Usage Notes: none

Sas Name: F60FLNAT

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Natural Folate (food folate) (mcg)

N	Min	Max	Mean	Std Dev
16555	12.09571	1558.3818	230.79109	94.81109

Dietary Synthetic Folate (folic acid) (mcg)

Variable # 18

Usage Notes: none

Sas Name: F60FLSYN

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Synthetic Folate (folic acid) (mcg)

N	Min	Max	Mean	Std Dev
16555	0	1389.8282	145.85044	94.30846

Dietary Vitamin C (mg)

Variable # 19

Usage Notes: none

Sas Name: F60VITC

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Vitamin C (mg)

N	Min	Max	Mean	Std Dev
16555	2.27765	606.34383	95.34351	55.13718

Dietary Vitamin D (mcg)

Variable # 20

Usage Notes: none

Sas Name: F60VITD

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Vitamin D (mcg)

N	Min	Max	Mean	Std Dev
16555	.0199	36.20417	4.37134	3.15356

Dietary Vitamin E (IU)

Variable # 21

Usage Notes: none

Sas Name: F60VTEIU

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Vitamin E (IU)

N	Min	Max	Mean	Std Dev
16555	.65662	81.50783	9.27019	6.01183



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Dietary Alpha-Tocopherol (mg)

Variable # 22

Usage Notes: none

Sas Name: F60ATOCO

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Alpha-Tocopherol (mg)

N	Min	Max	Mean	Std Dev
16555	.43837	49.09211	5.9532	3.33993

Dietary Total Alpha-Toc Eq (mg)

Variable # 23

Usage Notes: none

Sas Name: F60VITE

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Total Alpha-Toc Eq (mg)

N	Min	Max	Mean	Std Dev
16555	.55507	78.50558	8.11302	5.73589

Dietary Natural Alpha-Tocopherol (mg)

Variable # 24

Usage Notes: none

Sas Name: F60NATOC

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Natural Alpha-Tocopherol (mg)

N	Min	Max	Mean	Std Dev
16555	.43837	49.09211	5.397	2.62118

Dietary Synthetic Alpha-Tocopherol (mg)

Variable # 25

Usage Notes: none

Sas Name: F60STOCO

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Synthetic Alpha-Tocopherol (mg)

N	Min	Max	Mean	Std Dev
16555	0	69.32	1.23621	4.49831

Dietary Beta-Tocopherol (mg)

Variable # 26

Usage Notes: none

Sas Name: F60BTOCO

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Beta-Tocopherol (mg)

N	Min	Max	Mean	Std Dev
16555	.00295	3.99802	.27722	.1606

Dietary Delta-Tocopherol (mg)

Variable # 27

Usage Notes: none

Sas Name: F60DTOCO

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Delta-Tocopherol (mg)

N	Min	Max	Mean	Std Dev
16555	.03089	24.7531	2.37776	1.87591



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Dietary Gamma-Tocopherol (mg)

Variable # 28

Usage Notes: none

Sas Name: F60GTOCO

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Gamma-Tocopherol (mg)

N	Min	Max	Mean	Std Dev
16555	.32559	175.95018	13.36807	9.5163

Dietary Vitamin K (NDS Value) (mcg)

Variable # 29

Usage Notes: none

Sas Name: F60VITK

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Vitamin K (NDS Value) (mcg)

N	Min	Max	Mean	Std Dev
16555	2.01985	1591.6182	87.93946	57.00264

Dietary Calcium (mg)

Variable # 30

Usage Notes: none

Sas Name: F60CALC

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Calcium (mg)

N	Min	Max	Mean	Std Dev
16555	23.20924	5399.2531	822.78638	474.10506

Dietary Copper (mg)

Variable # 31

Usage Notes: none

Sas Name: F60COPPR

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Copper (mg)

N	Min	Max	Mean	Std Dev
16555	.08448	20.43143	1.05366	.58566

Dietary Iron (mg)

Variable # 32

Usage Notes: none

Sas Name: F60IRON

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Iron (mg)

N	Min	Max	Mean	Std Dev
16555	.87849	111.44399	12.44452	5.95925

Dietary Magnesium (mg)

Variable # 33

Usage Notes: none

Sas Name: F60MAGN

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Magnesium (mg)

N	Min	Max	Mean	Std Dev
16555	16.50918	1615.5811	253.65141	104.10956



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Dietary Manganese (mg)

Variable # 34

Usage Notes: none

Sas Name: F60MANGN

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Manganese (mg)

N	Min	Max	Mean	Std Dev
16555	.1219	15.68988	3.19452	1.44574

Dietary Phosphorous (mg)

Variable # 35

Usage Notes: none

Sas Name: F60PHOS

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Phosphorous (mg)

N	Min	Max	Mean	Std Dev
16555	74.50827	9083.5311	1167.033	555.29305

Dietary Potassium (mg)

Variable # 36

Usage Notes: none

Sas Name: F60POTAS

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Potassium (mg)

N	Min	Max	Mean	Std Dev
16555	157.9915	15515.176	2621.1928	1052.03308

Dietary Selenium (mcg)

Variable # 37

Usage Notes: none

Sas Name: F60SELEN

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Selenium (mcg)

N	Min	Max	Mean	Std Dev
16555	3.55103	988.7732	92.18797	44.63611

Dietary Sodium (mg)

Variable # 38

Usage Notes: none

Sas Name: F60SODUM

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Sodium (mg)

N	Min	Max	Mean	Std Dev
16555	209.2969	25964.213	2765.6520	1340.24976

Dietary Zinc (mg)

Variable # 39

Usage Notes: none

Sas Name: F60ZINC

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Zinc (mg)

N	Min	Max	Mean	Std Dev
16555	.76452	163.37785	10.85652	5.65786



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Dietary Alpha-Carotene (mcg)

Variable # 40

Usage Notes: none

Sas Name: F60ACARO

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Alpha-Carotene (mcg)

N	Min	Max	Mean	Std Dev
16555	.86533	11834.459	668.07602	543.09104

Dietary Beta-Carotene (mcg)

Variable # 41

Usage Notes: none

Sas Name: F60BETA

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Beta-Carotene (mcg)

N	Min	Max	Mean	Std Dev
16555	22.77782	39618.258	3044.8723	2116.39641

Dietary Beta-Cryptoxanthin (mcg)

Variable # 42

Usage Notes: none

Sas Name: F60BCRYP

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Beta-Cryptoxanthin (mcg)

N	Min	Max	Mean	Std Dev
16555	1.04695	865.0881	140.24842	91.67201

Dietary Lycopene (mcg)

Variable # 43

Usage Notes: none

Sas Name: F60LYCO

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Lycopene (mcg)

N	Min	Max	Mean	Std Dev
16555	0	41964.728	4826.0414	3292.53875

Dietary Lutein+Zeaxanthin (mcg)

Variable # 44

Usage Notes: none

Sas Name: F60LUTZX

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Lutein+Zeaxanthin (mcg)

N	Min	Max	Mean	Std Dev
16555	48.04441	40175.985	1636.6533	1360.11421