

Supplemental Table 1. Comparison of key features of the *First* and *Second Nutrition Report*

Characteristic	First report 2008	Second report 2012
Years of NHANES covered	1999–2002	2003–2006
Number of nutrition biomarkers covered	27	58
Tables with concentrations by race/ethnic group	Yes	Yes
Tables with central 95% reference intervals	No	Yes
Graphs representing age patterns	No	Yes
Tables and graphs with concentrations over time	No	Yes (1999–2006)
Tables with prevalence estimates	No	Yes
Tables with prevalence estimates over time	No	Yes (1999–2006)
New indicators covered in the second report		Vitamin B-6 (pyridoxal-5'-phosphate and 4-pyridoxic acid) Vitamin C Iron status: soluble transferrin receptor and body iron Fatty acids (saturated, mono-, polyunsaturated) Acrylamide hemoglobin adducts

Supplemental Table 2. Sample sizes for nutritional biomarkers by demographic subgroups for participants ≥ 6 y, NHANES 2003–2006

Biomarker (matrix)	6–11 y	20–39 y	≥ 60 y	MA	NHB	NHW	Males	Females
25OHD (S)	1768	3262	3071	4275	4349	6698	8145	8459
Folate (S)	1749	3242	3053	4212	4297	6633	8050	8361
Folate (RBC)	1779	3262	3069	4304	4404	6675	8172	8498
PLP (S)	922	1699	1409	2212	2157	3285	4055	4256
Vitamin A (S)	860	1688	1387	1844	1891	2973	3547	3707
Vitamin B-12 (S)	1747	3214	3035	4205	4285	6571	7999	8317
Vitamin C (S)	1703	3233	3024	3628	3784	6089	7155	7424
Vitamin E (S)	860	1688	1387	1844	1891	2973	3547	3707

¹ 25OHD, 25-hydroxyvitamin D; MA, Mexican American; NHB, non-Hispanic black; NHW, non-Hispanic white; PLP, pyridoxal-5'-phosphate; S, serum

Supplemental Table 3. Sample sizes for serum and RBC folate, serum 25-hydroxyvitamin D, and urine iodine by demographic subgroups for participants ≥ 4 y, NHANES 1988–2006

Biomarker	All	Males	Females	Mexican American	Non-Hispanic black	Non-Hispanic white
Serum folate						
1988–1994	23705	11269	12436	7053	6853	8795
1999–2002	15653	7594	8059	4613	3640	6074
2003–2006	15331	7509	7822	3864	3999	6323
RBC folate						
1988–1994	23404	11145	12259	6957	6869	8575
1999–2002	15827	7663	8164	4641	3700	6134
2003–2006	15451	7561	7890	3901	4066	6333
Serum 25OHD ¹						
1988–1994	18883	8840	10043	5305	5362	7428
2001–2002	6816	3285	3531	1678	1487	3122
2003–2006	13037	6379	6658	3102	3285	5725
Urine iodine ²						
1988–1994	22090	10558	11532	6448	6622	8091
2001–2002	2837	1333	1504	720	670	1222
2003–2006	5175	2477	2698	1320	1363	2085

¹ 25OHD, 25-hydroxyvitamin D; data is limited to persons ≥ 12 y² Data is limited to persons ≥ 6 y

Supplemental Table 4. Sample sizes for serum vitamin B-6, vitamin D, and iron deficiency demographic subgroups for participants ≥ 1 y, NHANES 2003–2006

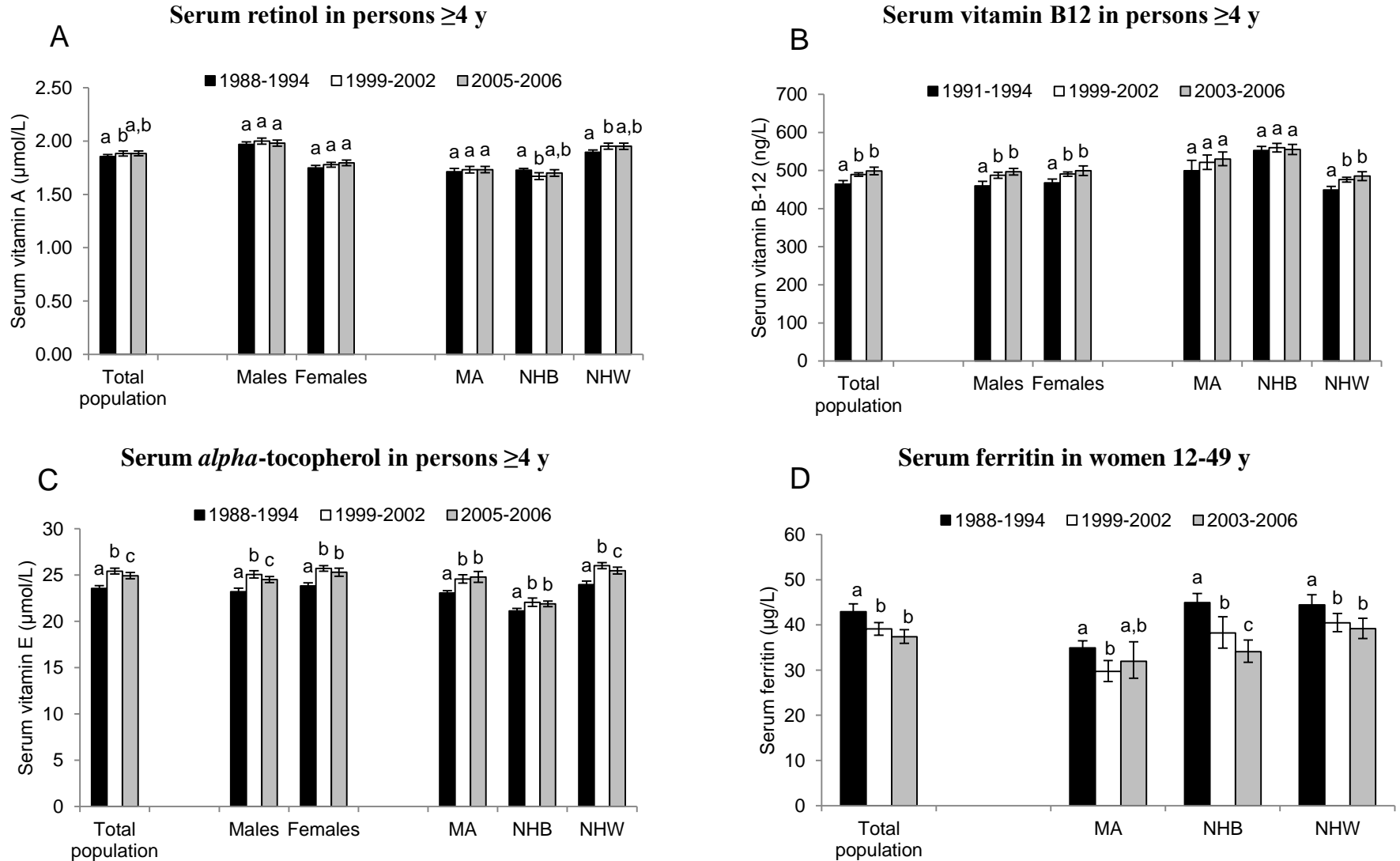
Demographic group	Vitamin B6¹	Vitamin D	Iron (Children)	Iron (Women)
Age, y				
1-5	915	1799	1369	NA
6-11	922	1768	NA	NA
12-19	1985	4044	NA	1967
20-39	1699	3262	NA	1758
40-59	1381	2660	NA	751 ²
≥ 60	1409	3071	NA	NA
Sex				
Males	4055	8145	695	NA
Females	4256	8459	674	4476
Race-ethnicity				
MA	2212	4275	422	1219
NHB	2157	4349	401	1232
NHW	3285	6698	385	1656

¹ Available for NHANES 2005–2006 only

² Women 40–49 y

NA, not applicable

Supplemental Figure 1. Time trends of age-adjusted geometric mean concentrations in the US population, NHANES 1988-2006



Legend: Error bars represent 95% confidence intervals. Within a demographic group, bars not sharing a common letter differ ($P < 0.05$). Age adjustment was done using direct standardization. MA, Mexican American; NHB, non-Hispanic black; NHW, non-Hispanic white. SI conversion factors are as follows: vitamin B12, $\times 0.738$ (nmol/L); ferritin, $\times 2.247$ (pmol/L).