

Table 2 Mean iron concentration of iron-fortified biscuit samples collected from different companies and schools during March and April

Source/collection month	Iron concentration (ppm)				F-value ^a	t-value ^b
	Package 1	Package 2	Package 3	Total		
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)		
Companies						
March						
Company D (n = 9)	1774 (6.32)	35.50 (1.37)	3749 (7.74)	30.30 (10.90)	18.60**	-5.79**
Company K (n = 9)	9.24 (0.76)	30.03 (17.60)	29.78 (4.48)	22.14 (11.90)	32.53**	-7.11**
Total (n = 18)	13.49 (6.01)	32.77 (3.87)	33.64 (5.76)	26.22 (11.40)		
April						
Company S (n = 9)	32.81 (4.07)	22.97 (2.58)	18.22 (4.03)	24.66 (7.44)	12.64*	-11.02**
Company D (n = 9)	53.99 (6.22)	58.35 (5.15)	58.33 (6.87)	56.70 (2.51)	0.5	3.51**
Company K (n = 9)	46.25 (7.02)	52.31 (6.25)	47.14 (3.67)	48.57 (3.28)	0.95	-0.74
Total (n = 27)	44.35 (10.72)	44.54 (18.93)	41.23 (16.66)	43.31 (1.93)	-	-3.969
Schools						
March						
School S (n = 9)	10.55 (0.20)	42.35 (4.93)	28.86 (5.80)	27.30 (16.00)	39.16**	-4.76**
School C (n = 9)	27.37 (1.58)	39.34 (7.36)	28.32 (3.880)	31.67 (6.60)	5.56*	-7.70**
School R (n = 9)	57.52 (2.09)	69.66 (3.39)	83.62 (25.7)	70.27 (13.10)	2.28	3.53**
School M (n = 9)	64.51 (2.53)	70.50 (9.88)	58.54 (7.71)	64.52 (5.98)	1.96	5.30**
Total (n = 36)	39.99 (25.40)	55.46 (19.93)	48.44 (22.02)	48.44 (22.02)	-	-
April						
School D (n = 9)	48.96 (4.22)	47.91 (0.59)	55.21 (8.53)	50.59 (3.95)	1.54	0.35
School R (n = 9)	70.23 (1.58)	64.58 (7.10)	66.10 (3.48)	66.96 (2.92)	1.19	6.76**
Total (n = 18)	59.60 (15.04)	56.25 (11.78)	60.66 (7.70)	58.78 (11.58)	-	-1.59

^aComparing iron concentration among the 3 biscuit packages.

^bComparing iron concentrations with midpoint of Egyptian standards (50 ppm, range 37.5–62.5 ppm).

**P < 0.01

SD = standard deviation.