

Supplementary Table 2. Frequency of foods on school lunch by subset of school age

No	Elementary school			Middle school			High school		
	Menu	Frequency	TF-IDF	Menu	Frequency	TF-IDF	Menu	Frequency	TF-IDF
1	Milk	1,113,450	0.858	Milk	108,694	0.350	Milk	154,095	0.324
2	Apple	187,647	0.145	Liquid yogurt	79,981	0.257	Liquid yogurt	120,374	0.253
3	Liquid yogurt	160,359	0.124	Apple	52,226	0.168	Apple	79,639	0.168
4	Pineapple	128,212	0.099	Cucumber salad	50,645	0.163	Yogurt	75,105	0.158
5	Cucumber salad	107,464	0.083	Ssam-jang	48,722	0.157	Ketchup	72,714	0.153
6	Beef and seaweed soup	106,029	0.082	Pineapple	44,342	0.143	Cucumber salad	71,523	0.150
7	Cherry tomato	101,184	0.078	Tteokbokki	44,253	0.142	Grilled laver	71,273	0.150
8	Ssam-jang	97,538	0.075	Beef and seaweed soup	41,630	0.134	Pickled radish	68,649	0.144
9	Melon	94,833	0.073	Yogurt	39,786	0.128	Ssam-jang	64,547	0.136
10	Banana	94,158	0.073	Seasoned bean sprout	38,322	0.123	Seasoned bean sprout	61,799	0.130
11	Tteokbokki	93,382	0.072	Sausage stew	37,437	0.120	Fishcake soup	60,297	0.127
12	Watermelon	87,822	0.068	Fishcake soup	36,721	0.118	Stir-fried rice cake	59,078	0.124
13	Seasoned bean sprout	87,563	0.067	Grilled laver	35,403	0.114	Beef and seaweed soup	55,377	0.116
14	Seasoned spinach	83,559	0.064	Pickled radish	33,432	0.108	Fruit and vegetable beverage	54,650	0.115
15	Seasoned mung bean sprout	80,611	0.062	Green onion egg soup	31,975	0.103	Pineapple	54,198	0.114
16	Fishcake soup	78,591	0.061	Seasoned spinach	30,890	0.099	Green onion egg soup	54,182	0.114
17	Grilled laver	77,699	0.060	Pork back-bone stew	30,858	0.099	Sausage stew	51,475	0.108
18	Yukgaejang	77,549	0.060	Yukgaejang	30,729	0.099	Banana	50,903	0.107
19	Stir-fried dried anchovies	76,318	0.059	Braised chicken	30,655	0.099	Seasoned mung bean sprout	46,930	0.099

20	Kiwi	76,009	0.059	Seasoned mung bean sprout	30,566	0.098	Seasoned spinach	46,332	0.097
21	Strawberry	75,195	0.058	Bugeot-guk	30,433	0.098	Fried egg	46,065	0.097
22	Beef and radish soup	70,822	0.055	Spaghetti	30,423	0.098	Pork cutlet	45,267	0.095
23	Auk-doenjangguk	70,770	0.055	Pork cutlet	29,484	0.095	Stir-fried kimchi	43,134	0.091
24	Stir-fried potatoes	70,437	0.054	Fruit and vegetable beverage	29,385	0.094	Bugeot-guk	42,647	0.090
25	Orange	69,994	0.054	Auk-doenjangguk	29,368	0.094	Stir-fried potatoes	42,368	0.089
26	Japchae	67,701	0.052	Cherry tomato	29,239	0.094	Steamed eggs	41,490	0.087
27	Sausage stew	67,625	0.052	Stir-fried dried anchovies	28,814	0.093	Fruit salad	40,829	0.086
28	Bugeot-guk	67,238	0.052	Stir-fried potatoes	27,380	0.088	Braised chicken	40,606	0.085
29	Grape	66,746	0.051	Ketchup	27,245	0.088	Spaghetti	40,527	0.085
30	Pork back-bone stew	65,574	0.051	Banana	27,049	0.087	Cabbage soybean paste soup	39,665	0.083
31	Yogurt	65,108	0.050	Japchae	26,664	0.086	Bulgogi	39,592	0.083
32	Spaghetti	64,279	0.050	Melon	26,181	0.084	Rolled omelet	39,440	0.083
33	Green onion egg soup	62,717	0.048	Soft bean curd stew	26,116	0.084	Cherry tomato	39,049	0.082
34	Braised chicken	60,219	0.046	Watermelon	26,040	0.084	Bean sprout soup	39,020	0.082
35	Geundae-doenjangguk	59,804	0.046	Beef and radish soup	25,315	0.081	Stir-fried dried anchovies	38,836	0.082
36	Lettuce wraps	56,794	0.044	Lettuce wraps	25,046	0.081	Soft bean curd stew	38,541	0.081
37	Soft bean curd stew	55,284	0.043	Cabbage soybean paste soup	25,013	0.080	Beef and radish soup	37,750	0.079
38	Cabbage soybean paste soup	54,643	0.042	Fruit salad	24,563	0.079	Auk-doenjangguk	36,486	0.077
39	Korean melon	54,491	0.042	Geundae-doenjangguk	24,339	0.078	Pork back-bone stew	36,309	0.076
40	Pork cutlet	53,690	0.041	Ssammu	23,951	0.077	Lettuce wraps	36,071	0.076
41	Soybean paste stew	52,311	0.040	Steamed eggs	23,858	0.077	Yukgaejang	35,770	0.075

42	Braised pork rib	51,903	0.040	Kiwi	23,799	0.077	Tteok-guk	34,945	0.074
43	Tteok-guk	50,934	0.039	Rolled omelet	23,098	0.074	Scorched rice soup	34,901	0.073
44	Dotorimung-muchim	50,618	0.039	Stir-fried kimchi	23,020	0.074	Fresh fruit ade	34,867	0.073
45	Bean sprout soup	50,545	0.039	Soybean paste stew	22,980	0.074	Tuna and kimchi stew	34,688	0.073
46	Pork bulgogi	50,339	0.039	Orange	22,941	0.074	Ssammu	34,409	0.072
47	Steamed eggs	49,438	0.038	Bean sprout soup	22,917	0.074	Sujebi-guk	34,242	0.072
48	Sujebi-guk	48,950	0.038	Kimchi and bean sprout soup	22,720	0.073	Kimchi and bean sprout soup	34,081	0.072
49	Rolled omelet	48,907	0.038	Dotorimung-muchim	22,522	0.072	Pickled Radish Salad	33,623	0.071
50	Tangsuyuk	47,177	0.036	Strawberry	22,031	0.071	Soybean paste stew	33,468	0.070

TF-IDF, Term Frequency-Inverse Document Frequency. Only frequencies of top 50 are listed.