US Vegetables & Fruits:

Names of team members:

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Name of your team's GitHub repository:

Project2_Singh_Zhang_Zhang

Primary dataset:

• US Vegetables and Pulses Yearbook

Yearbook tables contain a time series (1970 - 2019) of the annual per capita supply and availability data for fresh and processed vegetables and for dry pulse crops. Included are U.S. production, exports, imports, per capita availability, and prices.

Link: <a href="https://www.ers.usda.gov/data-products/vegetables-and-pulses-data/vegetables-data/vegetables-and-pulse-data/vegetables-data/vegetables-and-pulse-data/vegetables-data/ve

US Fruit and Tree Nuts Yearbook

The Fruit and Tree Nuts Yearbook tables contain over 20 years of time-series data for U.S. bearing acreage, production, prices, crop value, trade, per capita use, and more.

Link: https://www.ers.usda.gov/data-products/fruit-and-tree-nuts-data/fruit-and-tree-nuts-y earbook-tables/

Key variables of the primary datasets:

- Per capita use of each commodity (fresh, canning, freezing, juice, dried, other processed)
- Bearing acreage (citrus/non-citrus and etc)
- Utilized production and value of production (citrus/non-citrus and etc)
- Annual average retail prices for selected fresh fruit
- Average price indexes (fruit and nut prices received by growers)
- Total commercial production
- Import and Export values

Supplemental datasets:

Avocado Prices

Link: https://www.kaggle.com/neuromusic/avocado-prices

Global Food Prices

Link: https://www.kaggle.com/jboysen/global-food-prices

Explorey of initial dataset:

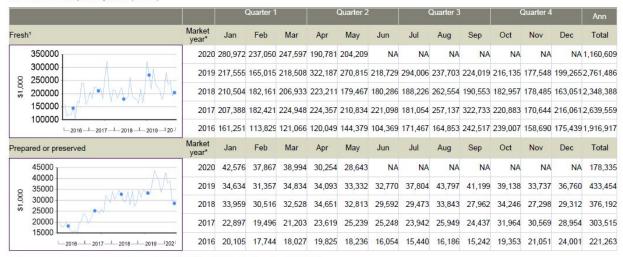
Table 1a--U.S. per capita availability of selected, commercially produced, fresh and processing vegetables and dry pulse crops. 1

Crop	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
						- Pounds	per person						_
Asparagus, all	1.33	1.28	1.27	1.29	1.10	1.20	1.22	0.99	0.85	0.74	0.79	0.80	0.72
Asparagus, fresh	0.44	0.38	0.40	0.40	0.39	0.41	0.43	0.34	0.29	0.25	0.29	0.31	0.38
Asparagus, canning	0.59	0.63	0.61	0.64	0.53	0.58	0.53	0.45	0.38	0.32	0.36	0.38	0.28
Asparagus, freezing	0.29	0.27	0.25	0.25	0.18	0.21	0.26	0.21	0.18	0.17	0.13	0.11	0.06
Snap /Green beans, all	7.61	7.46	7.49	8.01	7.70	7.03	7.83	7.52	7.48	7.45	7.23	7.56	6.99
Snap /Green beans,fresh	1.55	1.51	1.53	1.43	1.36	1.45	1.45	1.34	1.29	1.31	1.31	1.26	1.26
Snap /Green beans, canning	4.67	4.56	4.62	4.90	4.87	4.45	4.88	4.82	4.82	4.74	4.55	4.64	4.20
Snap /Green beans, freezing	1.39	1.39	1.35	1.68	1.47	1.14	1.50	1.36	1.37	1.40	1.36	1.67	1.54
Broccoli, all	1.50	1.62	1.63	1.77	1.78	2.00	2.20	2.32	2.40	2.59	2.86	3.22	3.50
Broccoli, fresh	0.53	0.72	0.70	0.76	0.79	0.99	1.08	1.23	0.99	1.20	1.40	1.66	1.99
Broccoli, freezing	0.97	0.90	0.93	1.01	1.00	1.01	1.12	1.09	1.42	1.39	1.46	1.56	1.52
Cabbage, all	10.98	11.29	10.56	10.99	11.09	10.97	10.58	10.47	10.64	10.11	9.98	10.18	10.25
Cabbage, fresh	8.67	8.82	8.37	8.86	8.83	8.91	8.36	8.28	8.55	8.05	8.00	8.15	8.56
Cabbage, canning	2.30	2.47	2.19	2.13	2.27	2.05	2.22	2.19	2.09	2.06	1.99	2.03	1.70
Carrots, all	9.51	9.48	10.42	10.74	10.70	9.95	9.95	8.97	8.68	9.58	9.62	9.56	9.54
Carrots, fresh	5.97	6.12	6.54	6.70	6.91	6.44	6.41	5.31	5.31	5.89	6.15	6.12	6.60
Carrots, canning	2.14	2.02	2.43	2.27	2.01	1.91	1.90	1.89	1.59	1.81	1.79	1.56	1.20
Carrots, freezing	1.40	1.34	1.45	1.77	1.78	1.60	1.64	1.77	1.77	1.88	1.69	1.89	1.75

Table 4 -- Potatoes: U.S. per capita availability

Year	Fresh	Freezing	Chipping	Dehy- drating	Canning	Processing, total	Potatoes, total
1970	61.80	28.50	17.40	12.00	1.96	59.86	121.66
1971	56.10	30.10	17.20	12.30	2.12	61.72	117.82
1972	57.90	30.30	16.70	12.40	2.11	61.51	119.41
1973	52.40	34.20	16.30	13.10	2.24	65.84	118.24
1974	49.40	35.30	15.70	14.50	2.30	67.80	117.20
1975	52.60	37.10	15.50	14.70	2.00	69.30	121.90
1976	49.40	41.80	15.80	16.30	1.95	75.85	125.25
1977	50.10	42.20	16.20	11.40	2.21	72.01	122.11
1978	46.00	42.60	16.50	12.10	2.26	73.46	119.46
1979	49.30	38.50	16.70	11.20	2.11	68.51	117.81
1980	51.12	35.40	16.50	9.80	1.93	63.63	114.75
1981	45.84	41.49	16.60	10.80	1.79	70.67	116.52

Avocados: U.S. imports by value (\$1,000)



Totals may not add due to rounding. Merchandise entering the United States for consumption.

What we plan to cover in the final report:

- What is the dominant type of vegetable over years (processed Vs fresh food)?
- Evolution of the diet habit over the years (proportion of fresh, canned, frozen, juice, and dried fruit).
- Popularity of veggies over the years.
- What are the most popular fruits/vegetables over these years, is there any notable difference between generations?
- Variance of popularity of vegetables and fruits over seasons/months.
- What is the favorite vegetable/fruit for the farmers, considering bearing acreage, growers income?
- Connection between certain vegetable/fruit's import and export behaviors and its domestic popularity.