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CHEMICAL ANALYSES OF FRUITS, VEGETABLES, AND THEIR ASSOCIATED SOILS FROM AREAS OF COMMERCIAL PRODUCTION IN THE CONTERMINOUS UNITED STATES

By

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This report is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards or nomenclature.

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Introduction

In order to determine the concentrations of chemical elements in a selection of food plants as they grew in the field before commercial harvesting and processing, fruits and vegetables were sampled in 11 areas of commercial production by following a hierarchical sampling plan; they were analyzed for 33 elements, and two physical measurements (ash percent and dry weight percent) were made. Soils were sampled at nearly each site where the produce was collected, and they were then analyzed for 43 elements and pH. Additional elements were determined in a few samples of both kinds of sampling material. Analyses of the individual samples as given in this report were evaluated statistically and summarized by Shacklette (in press).

Sample collection, preparation, and analysis

Plants

Fruits and vegetables were sampled at the time of maturity in the fields where they grew. The samples were prepared as for eating, but were not cooked. The methods of preparation follow:

American grape. Bunches washed and drained, berries removed from stems; skin and seeds included in sample.
Apple. Fruit washed and drained, peeled; core removed; fruit sliced.
Cantaloupe. Fruit peeled, seeds removed, and flesh sliced and cubed.
European grape. Fruit washed and drained, cut open, and seeds removed.
Grapefruit. Fruit peeled, segments separated and cut into pieces, and seeds discarded.
Orange. Fruit prepared the same as for grapefruit.
Peach. Fruit peeled, seed (pit) removed, and fruit sliced.
Pear. Fruit peeled, core removed, and fruit sliced.
Plum. Fruit washed and drained, seed (pit) removed, and fruit sliced.
Asparagus. Stalks washed and drained, cut into segments; tough stalks discarded.
Cabbage. Outer leaves removed and discarded; firm head washed and drained, then sliced.
Carrot. Leafy tops removed; root washed, drained, peeled, and sliced.
Chinese cabbage. Same preparation as for cabbage.
Cucumber. Fruit washed and drained, not peeled, and sliced.
Dry bean. Seeds removed from dry pods and winnowed to remove foreign material; moldy or imperfect seeds discarded.
Endive. Leaves washed and drained, cut into pieces.

Eggplant. Fruit peeled and sliced.
Lettuce. Same preparation as for cabbage.
Onion bulb, white. Tops, roots, and dry leaf bases removed; bulb sliced.
Parsley. Leaves washed and drained.
Pepper, bell. Fruit washed, seeds and their supporting tissues removed, and fruit sliced.
Potato. Tubers washed and drained, peeled, and sliced.
Snap bean. Pods washed and drained, stems and tips removed, and pods broken into pieces.
Sweet corn. Shucks (husks) and silks (styles) removed, grains cut from the cob (rachis), and cob discarded.
Tomato. Fruit washed and drained, sliced.

The samples of produce were refrigerated until they could be frozen; then the frozen samples were dried in an electric oven in circulating air held at a temperature of 38–40 degrees Centigrade until they reached a stable weight. The dry samples were pulverized in a blender having a glass canister and stainless steel blades, thus producing particle sizes that would pass through a screen with apertures of 1.3 mm. Samples were then arranged in a formal random sequence that was unknown to the analysts; they were analyzed in this order to reduce the effects of analytical drift and operator bias on interpretation of the data. Samples to be analyzed for most elements were burned to ash in an electric muffle furnace at about 500 degrees Centigrade. Dry material was used for analyses of arsenic, mercury, selenium, and total sulfur. The methods used for analysis, with the sample weights and lower limits of determination, are given in table 1.

Table 1.--Summary of methods used for analysis of plants and plant ashes, and approximate lower limits of determination (1)

Element	Method	Sample weight (g)	Lower limit (ppm)
	Dry material of sample		
As	Atomic absorption (arsine generation)	1	0.5
Hg	Flameless atomic absorption	1	.01
Se	2,3-diaminonaphthalene	2	.005
S	Turbiometric	.5	100
	Ash of sample		
Ag	Emission spectroscopy	.01	1
Al	....do	.01	150
B	....do	.01	50
Ba	....do	.01	3
Ca	Atomic absorption	.05	100
Cd	....do	.5	.2
Co	....do	.5	1
Cr	Emission spectroscopy	.01	1.5
Cu	....do	.01	1
Fe	....do	.01	10
Ga	....do	.01	10
K	Atomic absorption	.05	100
La	Emission spectroscopy	.01	70
Li	Atomic absorption	.05	4
Mg	Emission spectroscopy	.01	20
Mn	....do	.01	1
Mo	....do	.01	7
Na	Atomic absorption	.05	25
Ni	Emission spectroscopy	.01	10
P	Colorimetric	.05	100
Pb	Emission spectroscopy	.01	20
Sn	....do	.01	10
Sr	....do	.01	10
Ti	....do	.01	5
V	....do	.01	15
Y	....do	.01	20
Yb	....do	.01	2
Zn	Atomic absorption	.05	10
Zr	Emission spectroscopy	.01	20

(1) From Harms (1976) and Neiman (1976).

Soils

A soil sample, consisting of a composited section of the cultivated horizon, was collected at nearly each site where the produce was grown. The samples were oven dried at a temperature of 38–40 degrees Centigrade, particles larger than 2 mm were discarded, and the fine material was ground to pass 80 mesh in a Braun pulverizer having ceramic plates. The soil samples were randomized and submitted for analysis in a manner similar to that used for samples of produce. The methods used for analysis, with the sample weights and lower limits of determination, are given in table 2.

Table 2.--Summary of methods used for analysis of soils, and approximate lower limits of determination

Element	Method	Sample weight (g)	Lower limit (ppm)
Ag.....	Emission spectroscopy.....	0.01	0.5
Al.....	X-ray fluorescence spectrometry.....	.8	2,600
As.....	....do.....	.5	.1
B.....	Emission spectroscopy.....	.01	10
Ba.....	....do.....	.01	2
Be.....	....do.....	.01	1
C.....	Induction furnace-gasometric.....	.25-.40	500
Ca.....	X-ray fluorescence spectrometry.....	.8	710
Ce.....	Emission spectroscopy.....	.01	200
Co.....	....do.....	.01	3
Cr.....	....do.....	.01	1
Cu.....	....do.....	.01	1
F.....	Fluorine specific-ion electrode.....	.1	400
Fe.....	X-ray fluorescence spectrometry.....	.8	350
Ga.....	Emission spectroscopy.....	.01	5
Ge.....	X-ray fluorescence spectrometry.....	.8	.1
Hg.....	Flameless atomic absorption.....	.1	.01
K.....	X-ray fluorescence spectrometry.....	.8	250
La.....	Emission spectroscopy.....	.01	30
Li.....	Atomic absorption.....	1	5
Mg.....	....do.....	1	600
Mn.....	Emission spectroscopy.....	.01	1
Mo.....	....do.....	.01	3
Na.....	Atomic absorption.....	1	740
Nb.....	Emission spectroscopy.....	.01	10

Table 2.--Summary of methods used for analysis of soils, and approximate lower limits of determination--continued (1)

Element	Method	Sample weight (g)	Lower limit (ppm)
Nd.....	Emission spectroscopy.....	.01	50
Ni.....	....do.....	.01	2
Pb.....	....do.....	.01	10
Rb.....	Atomic absorption.....	1	20
S.....	X-ray fluorescence spectrometry.....	.8	800
Sc.....	Emission spectroscopy.....	.01	3
Se.....	X-ray fluorescence spectrometry.....	.8	.1
Si.....	....do.....	.8	2,300
Sn.....	....do.....	.8	.1
Sr.....	Emission spectroscopy.....	.01	5
Th.....	Neutron activation-delayed neutron technique.	6-10	1
Ti.....	X-ray fluorescence spectrometry.....	.8	300
U.....	Neutron activation-delayed neutron technique.	6-10	.1
V.....	Emission spectroscopy.....	.01	7
Y.....	....do.....	.01	10
Yb.....	....do.....	.01	1
Zn.....	Atomic absorption.....	1	10
Zr.....	Emission spectroscopy.....	.01	10

Concentration of elements reported in samples of fruits and vegetables and in samples of their supporting soils

In tables 3-10, the fruits are arranged alphabetically, followed by analyses of soils supporting the samples for each kind of fruit. Vegetables, also arranged alphabetically and followed by their supporting soils, are given in tables 11-23, except no soil was analyzed for 1) cabbage collected from Berrien County, Mich., or from Cumberland County, N.J., or for 2) cucumbers collected from Cumberland County, N.J. Tables 24-27 contain analyses for the fruit or vegetable only; no soils were analyzed for these samples of produce. The elements are arranged alphabetically by their chemical symbols for each kind of produce and soil, and the units used for reporting concentrations (parts per million (ppm) or percent (%)) follow the symbols.

The ash yield (ash, %), obtained by burning the dry sample, and the dry-material yield (dry wt., %), obtained by drying the fresh ("wet") produce, were calculated on a weight basis and are given for each kind of produce following zirconium (Zr). If an element concentration is given as parts per million or percent of ash (as are most elements in this report; see table 1), this value can be converted to concentration

(1) From Millard (1976), Huffman and Dinnin (1976), Neiman (1976), and Wahlberg (1976).

in dry material as follows:

$$D = (A \times PA)/100$$

where D is the concentration in dry material, A is the concentration in ash, and PA is the percent ash yield of the sample.

The concentrations of arsenic, mercury, selenium, and total sulfur are given on a dry-weight basis and can be converted to concentrations in the fresh produce as follows:

$$F = (D \times PD)/100$$

where F is the concentration in fresh produce, D is the concentration of the element in dry material, and PD is the percent dry weight yield of fresh material. To convert concentrations reported in ash to concentrations in fresh produce, first convert ash-weight values to concentrations in dry produce, then convert these concentrations to fresh-produce concentrations as explained above. The percentage of water in the fresh produce can be calculated by subtracting the percent dry-weight yield from 100.

The pH values for the soil follow zirconium (Zr) in the list of element concentrations.

The sample code given in the first column of each table identifies the area of production, kind of produce, sequential number of the field within the area (for most produce, based on sampling of five fields per area), sequential number of the sample within the field (generally, two samples per field), and kind of sample (whether produce or soil). Generally the first sample of produce from each field has a corresponding soil sample.

The area of production is indicated by the latitude (degrees N) and longitude (degrees W) and by the first two digits of the sample code, as follows:

01 — Berrien County, Mich.
02 — Wayne County, N.Y.
03 — Cumberland County N.J. (samples of apples and sweet corn were obtained in adjacent Gloucester and Salem Counties, respectively).
04 — Palm Beach County, Fla.
05 — Hidalgo County, Tex.
06 — Imperial County, Calif. (grapefruit and oranges were sampled in Coachella Valley of adjacent Riverside County).
07 — Yuma County, Ariz.
08 — Twin Falls County, Idaho.
09 — Yakima County, Wash.
10 — San Joaquin County, Calif.
11 — Mesa County, Colo.

The two letters in the sample code identify the kind of produce, as follows:

AP -- Apple
AS -- Asparagus
BD -- Dry bean
CA -- Cabbage
CC -- Chinese cabbage
CO -- Sweet corn
CR -- Carrot
CS -- Cucumber
EN -- Endive
EP -- Eggplant
GA -- American grape
GB -- Snap bean
GE -- European grape
GF -- Grapefruit
LH -- Lettuce
MM -- Cantaloupe
OB -- Onion
OR -- Orange
PA -- Pear
PB -- Pepper
PD -- Plum
PE -- Peach
PI -- Potato
PS -- Parsley
TO -- Tomato

The first number following the two letters is the sequential number assigned to each of the five fields that generally were sampled in the area, and the second number indicates which of the two sampling sites in the field is represented by the particular sample. The remaining symbols, 00 or 0S, indicate that the sample was of produce, or of the soil supporting the sample of produce, respectively.

An example of the interpretation of a sample code follows:

> 01AP5100 -- The sample was collected in Berrien County, Mich. (01), is a sample of apple (AP), was collected in the fifth field sampled in this county (5), was the first sample collected in this field (1), and consists of produce (00). The soil sample collected at this site is numbered 01AP510S.

Some elements were determined infrequently in the plant samples, therefore were not entered in the tables of element concentrations. These elements, the fruit or vegetable in which found, the concentrations found, and the sampling localities, follow:

Gallium -- Two samples of lettuce, 10 and 15 ppm in ash, Cumberland County, N.J.

Lanthanum -- One sample of plum, 70 ppm in ash, Berrien County, Mich.; one sample of lettuce, 70 ppm in ash, Cumberland County, N.J.; and one sample of cabbage, 70 ppm in ash, Hidalgo County, Tex.

Tin -- One sample of grapefruit, 30 ppm in ash, Hidalgo County, Tex.

Vanadium -- One sample of pear, 15 ppm in ash, Berrien County, Mich.; nine samples of lettuce, from 15 to 70 ppm in ash, Cumberland County, N.J.

Ytterbium -- Three samples of lettuce, from 2 to 3 ppm in ash, Cumberland County, N.J.

Yttrium -- Three samples of lettuce, from 20 to 30 ppm in ash, Cumberland County, N.J.

Some elements were determined infrequently in the soil samples, therefore were not entered in the tables of element concentrations. These elements, the fruit or vegetable supported by the soil, the concentration found, and the sampling localities, follow:

Cerium -- One sample of apple soil, 200 ppm, Wayne County, N.Y.; one sample of potato soil, 700 ppm, and one sample of tomato soil, 150 ppm, Cumberland County, N.J.; two samples of asparagus soils, 150 and 200 ppm, Imperial County, Calif.; three samples of orange soils, from 100 to 200 ppm, Riverside County, Calif.; one sample of grapefruit soil, 150 ppm, Yuma County, Ariz.; one sample of American grape soil, 100 ppm, Yakima County, Wash.; and one sample of dry bean soil, 150 ppm, Mesa County, Colo.

Molybdenum -- One sample of orange soil, 10 ppm, Riverside County, Calif.; one sample of snap bean soil, 2 ppm, Imperial County, Calif.; one sample of snap bean soil, 2 ppm, and one sample of potato soil, 10 ppm, Twin Falls County, Idaho; one sample of potato soil, 50 ppm, Yakima County, Wash.; and one sample of dry bean soil, 3 ppm, Mesa County, Colo.

Neodymium -- One sample of apple soil, 150 ppm, and one sample of snap bean soil, 70 ppm, Wayne County, N.Y.; five samples of potato soils, from 50 to 300 ppm, and one sample of tomato soil, 70 ppm, Cumberland County, N.J.; two samples of asparagus soils, 70 and 150 ppm, Imperial County, Calif.; one sample of grapefruit soil, 70 ppm, and three samples of orange soils, from 70 to 100 ppm, Riverside County, Calif.; one sample of American grape soil, 70 ppm, and one sample of European grape soil, 70 ppm, Yakima County, Wash.; and one sample of dry bean soil, 70 ppm, Mesa County, Colo.

Silver -- One sample of American grape soil, 0.7 ppm, Berrien County, Mich.; one sample of plum soil, 30 ppm, Wayne County, N.Y,; and one sample of tomato soil, 10 ppm, San Joaquin County, Calif.

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Table 3.--Concentrations of elements reported in samples of American grapes and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
American grapes, Berrien County, Michigan											
01GA1100	42 3 0	86 22 0	417,343	<1	.050	<.05	300	150	4.6	3.0	1
01GA1200	42 3 0	86 22 0	417,084	<1	<.015	.05	150	200	1.7	.8	<1
01GA2100	42 3 0	86 22 0	417,817	<1	.070	<.05	200	100	1.7	.6	<1
01GA2200	42 3 0	86 22 0	417,237	<1	.030	<.05	150	150	1.9	.2	<1
01GA3100	41 57 0	86 21 0	417,700	<1	.070	.05	300	100	3.0	.4	<1
01GA3200	41 57 0	86 21 0	417,177	<1	.020	--	300	100	2.8	.8	<1
01GA4100	41 57 0	86 21 0	417,094	<1	.070	.10	200	70	3.2	.4	<1
01GA4200	41 57 0	86 21 0	417,256	<1	<.015	<.05	200	50	2.8	.4	<1
01GA5100	41 57 0	86 21 0	417,809	<1	.030	<.05	300	100	1.6	<.2	<1
01GA5200	41 57 0	86 21 0	417,723	<1	.050	<.05	300	70	3.0	.2	<1
American grapes, Wayne County, New York											
02GA1100	43 15 0	77 16 0	417,231	<1	.200	<.05	500	70	3.4	<.2	<1
02GA1200	43 15 0	77 16 0	417,576	<1	.020	<.05	150	30	1.8	.2	<1
02GA2100	43 15 0	77 16 0	417,112	<1	.100	--	500	70	3.6	<.2	1
02GA2200	43 15 0	77 16 0	417,668	<1	<.015	<.05	500	30	3.6	<.2	<1
02GA3100	43 15 0	77 16 0	417,713	<1	.050	<.05	300	100	2.8	.2	<1
02GA3200	43 15 0	77 16 0	417,518	<1	.020	<.05	300	100	3.4	.4	<1
02GA4100	43 15 0	77 16 0	417,273	<1	.020	<.05	300	50	2.4	.4	<1
02GA4200	43 15 0	77 16 0	417,608	<1	.030	.05	300	70	3.6	<.2	<1
02GA5100	43 17 0	77 13 0	417,454	<1	<.015	.05	100	200	1.3	.4	<1
02GA5200	43 17 0	77 13 0	417,173	<1	.020	--	200	200	1.1	.6	<1
American grapes, Yakima County, Washington											
09GA1100	46 20 0	120 3 0	417,197	<1	.030	<.05	300	100	3.2	<.2	<1
09GA1200	46 20 0	120 3 0	417,207	<1	.030	<.05	200	150	3.5	.4	<1
09GA2100	46 20 0	120 3 0	417,610	<1	.100	.05	300	150	5.4	.2	<1
09GA2200	46 20 0	120 3 0	417,685	<1	.100	<.05	300	150	2.6	.2	<1
09GA3100	46 18 0	120 1 0	417,694	<1	.100	.15	300	70	1.4	.2	<1
09GA3200	46 18 0	120 1 0	417,091	<1	.050	.25	300	70	6.2	.4	<1
09GA4100	46 18 0	120 1 0	417,158	<1	.050	--	300	70	1.1	<.2	<1
09GA4200	46 18 0	120 1 0	417,797	<1	.030	<.05	150	50	2.4	<.2	<1
09GA5100	46 18 0	120 1 0	417,372	<1	.070	<.05	300	70	2.8	<.2	<1
09GA5200	46 18 0	120 1 0	417,262	<1	.050	.05	300	100	4.0	.2	<1

Table 3.--Concentrations of elements reported in samples of American grapes and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
American grapes, Berrien County, Michigan											
01GA1100	<1.5	100	.05	.01	32	<4	2.0	700	<7	.055	<10
01GA1200	3.0	50	.03	<.01	25	<4	1.0	700	<7	.042	<10
01GA2100	<1.5	50	.03	<.01	19	<4	1.0	300	<7	.008	<10
01GA2200	<1.5	70	.05	<.01	23	<4	1.5	700	<7	.020	<10
01GA3100	2.0	150	.15	<.01	23	<4	1.5	300	<7	.020	<10
01GA3200	1.5	100	.05	.01	26	<4	2.0	300	<7	.030	<10
01GA4100	2.0	70	.05	<.01	28	<4	2.0	150	<7	.070	<10
01GA4200	<1.5	70	.03	<.01	23	<4	.7	200	<7	.020	<10
01GA5100	<1.5	100	.03	<.01	18	<4	1.5	200	<7	.010	<10
01GA5200	<1.5	150	.05	<.01	26	<4	1.5	150	30	.010	<10
American grapes, Wayne County, New York											
02GA1100	<1.5	100	.03	<.01	23	<4	2.0	150	<7	.025	<10
02GA1200	<1.5	50	.02	<.01	16	<4	1.5	200	<7	.015	<10
02GA2100	<1.5	100	.03	<.01	26	<4	1.5	70	<7	.025	<10
02GA2200	<1.5	70	.03	<.01	20	<4	3.0	50	<7	.015	<10
02GA3100	<1.5	150	.03	.01	26	<4	1.0	500	<7	.015	<10
02GA3200	<1.5	100	.05	<.01	28	<4	1.5	500	<7	.025	<10
02GA4100	<1.5	50	.03	<.01	18	<4	1.5	150	<7	.025	<10
02GA4200	2.0	70	.03	<.01	26	<4	2.0	150	<7	.025	<10
02GA5100	5.0	50	.02	<.01	20	<4	1.0	500	<7	.025	<10
02GA5200	3.0	70	.02	<.01	18	<4	1.5	700	<7	.040	<10
American grapes, Yakima County, Washington											
09GA1100	<1.5	50	.05	.01	18	<4	1.5	70	<7	.050	<10
09GA1200	<1.5	50	.03	<.01	25	<4	1.5	50	<7	.085	<10
09GA2100	700.0	70	.20	<.01	30	<4	2.0	100	15	.140	200
09GA2200	<1.5	70	.05	<.01	17	<4	1.5	70	<7	.040	<10
09GA3100	2.0	50	.07	<.01	14	<4	1.5	50	<7	.055	<10
09GA3200	2.0	70	.10	<.01	30	<4	2.0	30	<7	.590	<10
09GA4100	1.5	70	.05	<.01	17	<4	1.5	30	<7	.210	<10
09GA4200	<1.5	70	.07	.01	19	<4	1.0	30	<7	.200	<10
09GA5100	<1.5	50	.07	<.01	20	5	2.0	70	<7	.200	<10
09GA5200	<1.5	70	.05	<.01	26	<4	.7	30	<7	.100	<10

Table 3.--Concentrations of elements reported in samples of American grapes and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
American grapes, Berrien County, Michigan										
01GA1100	2.4	<20	.065	.010	150	<.0005	200	<20	2.6	15.6
01GA1200	1.2	<20	.080	.020	150	<.0005	100	<20	6.0	16.2
01GA2100	1.2	<20	.045	.010	70	<.0005	100	<20	6.0	13.9
01GA2200	1.8	<20	.055	.005	300	.0007	130	<20	4.4	14.1
01GA3100	1.8	<20	.090	.010	70	.0010	80	<20	5.7	11.3
01GA3200	1.8	<20	.070	.010	150	<.0005	140	<20	4.5	13.1
01GA4100	1.8	<20	.085	.020	100	.0015	120	<20	4.8	10.3
01GA4200	1.2	<20	.090	.010	100	<.0005	270	<20	5.6	11.7
01GA5100	1.8	<20	.085	.010	70	<.0005	85	<20	6.0	16.3
01GA5200	2.4	<20	.065	.010	150	.0030	120	<20	4.3	14.4
American grapes, Wayne County, New York										
02GA1100	2.4	<20	.055	.005	200	.0015	130	20	2.5	15.2
02GA1200	1.2	<20	.055	.010	70	<.0005	50	<20	4.9	15.2
02GA2100	2.4	<20	.110	.010	150	.0005	160	<20	4.2	13.8
02GA2200	1.8	<20	.110	.010	150	<.0005	90	<20	4.6	13.9
02GA3100	1.8	<20	.055	.010	200	<.0005	100	<20	5.9	15.6
02GA3200	2.4	<20	.060	.005	100	.0010	130	<20	2.2	14.8
02GA4100	1.2	<20	.045	.005	150	<.0005	70	<20	4.3	16.5
02GA4200	2.4	<20	.060	.005	150	.0007	100	<20	4.3	16.1
02GA5100	1.2	<20	.110	.010	150	<.0005	85	<20	5.5	13.2
02GA5200	1.2	<20	.075	.010	200	.0015	90	<20	5.9	15.3
American grapes, Yakima County, Washington										
09GA1100	1.2	<20	.050	.010	200	.0007	120	<20	4.9	20.7
09GA1200	1.2	<20	.065	<.005	300	.0020	60	<20	5.0	18.3
09GA2100	1.8	<20	.045	<.005	150	.0050	130	<20	3.7	21.2
09GA2200	1.2	<20	.060	.005	200	.0010	100	<20	7.7	17.8
09GA3100	1.2	<20	.050	.040	150	.0050	60	<20	4.7	22.2
09GA3200	2.4	30	.040	.020	300	.0100	350	<20	2.1	23.9
09GA4100	1.2	<20	.035	.150	300	.0050	60	<20	5.6	18.6
09GA4200	1.2	<20	.050	.080	200	.0030	80	<20	6.5	19.1
09GA5100	1.2	<20	.045	.080	500	.0050	85	<20	4.5	18.7
09GA5200	1.2	<20	.055	.040	300	.0050	100	<20	4.6	17.1

Table 3.--Concentrations of elements reported in samples of American grapes and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting American grapes, Berrien County, Michigan											
01GA110S	42 3 0	86 22 0	172,923	1.9	3.2	<10	500	<1.0	.62	.39	5
01GA210S	42 3 0	86 22 0	173,150	3.3	4.3	50	300	<1.0	.56	.38	5
01GA310S	41 57 0	86 21 0	173,089	3.4	11.5	30	500	<1.0	2.44	.36	7
01GA410S	41 57 0	86 21 0	172,804	3.5	14.7	30	500	<1.0	2.00	.46	7
01GA510S	41 57 0	86 21 0	173,145	3.1	3.7	30	500	<1.0	1.76	.46	7
Soils supporting American grapes, Wayne County, New York											
02GA110S	43 15 0	77 16 0	172,869	4.0	5.7	30	500	<1.0	1.80	.80	5
02GA210S	43 15 0	77 16 0	172,813	4.1	2.9	20	300	<1.0	2.30	.68	5
02GA310S	43 15 0	77 16 0	173,095	3.8	10.1	20	300	<1.0	1.85	.76	3
02GA410S	43 15 0	77 16 0	172,888	3.9	7.3	30	500	<1.0	2.19	1.03	5
02GA510S	43 17 0	77 13 0	172,973	3.8	4.7	20	300	<1.0	3.32	.53	5
Soils supporting American grapes, Yakima County, Washington											
09GA110S	46 20 0	120 3 0	172,853	6.0	3.7	20	700	1.0	2.20	2.53	15
09GA210S	46 20 0	120 3 0	173,051	6.4	6.6	<10	500	<1.0	2.28	2.67	15
09GA310S	46 18 0	120 1 0	173,086	6.1	8.3	<10	700	1.0	1.36	2.80	15
09GA410S	46 18 0	120 1 0	172,837	5.7	6.7	20	500	1.0	2.21	4.25	15
09GA510S	46 18 0	120 1 0	172,937	6.2	5.9	<10	700	1.0	1.94	3.83	15

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting American grapes, Berrien County, Michigan											
01GA110S	15	20	<400	1.0	5	.97	.092	1.2	<30	9	.16
01GA210S	20	7	<400	1.2	7	1.16	.023	1.5	<30	16	.25
01GA310S	30	150	<400	1.6	10	1.00	.040	1.7	30	21	.27
01GA410S	30	100	<400	1.7	10	1.22	.050	1.9	30	18	.27
01GA510S	30	30	<400	1.0	7	1.06	.060	1.6	<30	15	.20
Soils supporting American grapes, Wayne County, New York											
02GA110S	20	70	<400	1.7	15	1.30	.085	1.4	<30	21	.38
02GA210S	20	15	<400	1.9	15	1.26	.050	1.5	<30	27	.42
02GA310S	15	50	<400	1.5	10	1.25	.050	1.3	<30	15	.32
02GA410S	20	50	<400	1.9	15	1.31	.071	1.4	<30	23	.42
02GA510S	20	20	1,400	1.8	10	1.08	.042	1.4	<30	20	.39
Soils supporting American grapes, Yakima County, Washington											
09GA110S	50	30	400	4.6	20	1.55	.025	1.7	50	20	1.28
09GA210S	70	50	500	4.0	20	1.27	.025	1.5	<30	19	1.18
09GA310S	30	50	400	4.4	15	1.47	.023	1.6	50	21	1.36
09GA410S	50	20	1,200	4.8	20	1.54	.034	1.7	30	20	1.52
09GA510S	70	20	600	4.7	20	1.53	.034	1.8	<30	22	1.49

Table 3.--Concentrations of elements reported in samples of American grapes and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting American grapes, Berrien County, Michigan											
01GA110S	700	.57	<10	7	10	40	<.08	<3	<.10	34	2.66
01GA210S	500	.58	<10	10	10	50	<.08	5	.13	38	.88
01GA310S	1,000	.66	10	10	50	70	<.08	5	<.10	34	.59
01GA410S	700	.73	10	10	50	75	<.08	5	.25	36	.68
01GA510S	700	.58	<10	10	15	50	<.08	3	<.10	38	.59
Soils supporting American grapes, Wayne County, New York											
02GA110S	300	1.15	<10	10	20	50	<.08	5	<.10	30	.61
02GA210S	200	.99	10	7	15	55	.09	5	.12	35	.48
02GA310S	300	1.09	10	7	30	40	<.08	3	<.10	34	.28
02GA410S	300	1.12	10	10	30	50	.09	5	<.10	34	.59
02GA510S	200	.98	10	7	20	45	<.08	5	.19	33	.96
Soils supporting American grapes, Yakima County, Washington											
09GA110S	500	1.67	10	20	15	65	<.08	20	<.10	26	.94
09GA210S	700	1.66	10	30	15	55	<.08	20	.32	27	.99
09GA310S	700	1.80	10	20	30	60	<.08	15	.18	28	.47
09GA410S	500	1.67	10	15	15	60	.09	20	.19	26	1.13
09GA510S	500	1.73	10	20	15	65	.11	20	.13	26	1.70

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting American grapes, Berrien County, Michigan										
01GA110S	100	4.0	.16	.92	20	<10	<1.0	57	70	5.6
01GA210S	70	6.4	.27	1.72	30	10	1.5	42	200	6.5
01GA310S	100	8.6	.33	2.05	50	15	2.0	67	300	5.2
01GA410S	150	7.2	.35	2.31	50	15	1.5	68	150	5.4
01GA510S	70	4.4	.25	1.77	30	15	1.5	52	200	6.8
Soils supporting American grapes, Wayne County, New York										
02GA110S	150	4.0	.34	2.41	50	15	1.5	61	200	6.1
02GA210S	150	6.9	.40	1.89	30	20	2.0	62	150	6.8
02GA310S	150	3.8	.33	1.87	30	15	1.5	49	700	5.1
02GA410S	150	--	.40	2.51	50	15	1.5	63	150	6.8
02GA510S	150	6.5	.36	1.72	50	10	1.0	54	200	4.8
Soils supporting American grapes, Yakima County, Washington										
09GA110S	300	10.1	.72	2.56	150	20	3.0	125	150	6.8
09GA210S	300	7.0	.60	2.15	150	20	3.0	117	150	7.3
09GA310S	300	8.9	.70	2.29	150	30	3.0	407	500	7.2
09GA410S	300	9.0	.75	2.47	150	30	3.0	96	150	8.0

Table 4.--Concentrations of elements reported in samples of apples and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Apples, Berrien County, Michigan											
01AP1100	42 3 0	86 22 0	417,221	<1	.050	8.00	500	70	.48	<.2	<1
01AP1200	42 3 0	86 22 0	417,495	<1	<.015	10.00	500	30	.94	.2	<1
01AP2100	42 3 0	86 22 0	417,730	<1	.300	3.50	500	200	1.30	.4	<1
01AP2200	42 3 0	86 22 0	417,803	<1	.070	6.00	500	50	.80	.2	<1
01AP3100	42 3 0	86 22 0	417,779	<1	.070	.05	300	100	1.20	.2	<1
01AP3200	42 3 0	86 22 0	417,200	<1	.030	.25	500	150	1.30	<.2	<1
01AP4100	42 3 0	86 22 0	417,264	<1	.020	<.05	300	70	.70	.2	<1
01AP4200	42 3 0	86 22 0	417,406	<1	.030	<.05	300	30	.72	<.2	<1
01AP5100	42 3 0	86 22 0	417,812	<1	.150	.50	500	70	.88	.2	<1
01AP5200	42 3 0	86 22 0	417,271	<1	.030	.45	300	150	.73	.2	<1
Apples, Wayne County, New York											
02AP1100	43 15 0	77 16 0	417,667	<1	.050	.05	500	150	3.00	.2	<1
02AP1200	43 15 0	77 16 0	417,488	<1	.050	.20	700	150	3.20	.4	<1
02AP2100	43 15 0	77 16 0	417,097	<1	.050	--	300	100	2.40	.6	<1
02AP2200	43 15 0	77 16 0	417,216	<1	.020	.05	300	150	1.60	.2	<1
02AP3100	43 15 0	77 16 0	417,119	<1	.030	--	300	70	.86	.2	<1
02AP3200	43 15 0	77 16 0	417,375	<1	<.015	.05	300	50	.68	<.2	<1
02AP4100	43 15 0	77 16 0	417,522	<1	.030	.10	150	200	1.30	.2	<1
02AP4200	43 15 0	77 16 0	417,655	<1	<.015	.10	300	150	1.20	<.2	<1
02AP5100	43 14 0	76 52 0	417,348	<1	.030	7.00	500	150	2.00	<.2	1
02AP5200	43 14 0	76 52 0	417,701	<1	.150	1.20	700	200	2.00	.4	<1
Apples, Gloucester County, New Jersey											
03AP1100	39 44 0	75 10 0	417,787	<1	.030	.15	500	70	1.10	.2	<1
03AP1200	39 44 0	75 10 0	417,578	<1	.050	.20	500	70	.84	.4	<1
03AP2100	39 44 0	75 10 0	417,359	<1	.020	.15	500	30	.72	.2	<1
03AP2200	39 44 0	75 10 0	417,470	<1	<.015	.10	300	30	.90	.4	1
03AP3100	39 44 0	75 10 0	417,438	<1	<.015	.20	300	70	1.20	.2	1
03AP3200	39 44 0	75 10 0	417,622	<1	.020	.35	500	30	.54	.2	1
03AP4100	39 44 0	75 10 0	417,763	<1	.020	.25	500	30	.50	.2	1
03AP4200	39 44 0	75 10 0	417,693	<1	.070	.20	700	70	.64	.4	1
03AP5100	39 44 0	75 10 0	417,350	<1	.030	.10	300	100	2.00	.2	1
03AP5200	39 44 0	75 10 0	417,448	<1	.050	.25	300	20	.56	.6	<1
Apples, Yakima County, Washington											
09AP1100	46 28 0	120 23 0	417,292	<1	.200	.10	500	70	1.10	.2	1
09AP1200	46 28 0	120 23 0	417,101	<1	.030	<.05	300	70	1.60	.2	<1
09AP2100	46 28 0	120 23 0	417,746	<1	.070	<.05	500	50	.90	<.2	<1
09AP2200	46 28 0	120 23 0	417,223	<1	.030	.05	300	50	.48	<.2	<1
09AP3100	46 28 0	120 23 0	417,178	<1	.030	--	700	70	1.00	<.2	<1
09AP3200	46 28 0	120 23 0	417,543	<1	.100	.05	1,000	150	1.00	.2	<1
09AP4100	46 44 0	120 42 0	417,479	<1	.070	.30	500	200	1.50	.2	<1
09AP4200	46 44 0	120 42 0	417,534	2	.020	.10	500	150	1.30	.2	<1
09AP5100	46 44 0	120 42 0	417,501	<1	.070	.30	300	100	1.70	<.2	<1
09AP5200	46 44 0	120 42 0	417,533	<1	.020	.05	300	100	1.60	<.2	1

Table 4.--Concentrations of elements reported in samples of apples and in samples of their supporting soil--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Apples, Berrien County, Michigan											
01AP1100	3.0	70	.03	.06	17	<4	1.5	70	<7	.025	<10
01AP1200	<1.5	50	.02	.12	34	<4	1.0	30	<7	.065	<10
01AP2100	<1.5	70	.05	.02	39	<4	1.5	100	7	.060	<10
01AP2200	<1.5	70	.07	.02	30	<4	1.5	70	<7	.035	<10
01AP3100	<1.5	100	.05	.03	40	<4	1.5	100	<7	.020	<10
01AP3200	2.0	70	.03	<.01	33	<4	2.0	150	7	.045	15
01AP4100	<1.5	50	.03	<.01	27	<4	.7	70	<7	.030	<10
01AP4200	<1.5	30	.05	.01	26	<4	1.0	50	<7	.020	<10
01AP5100	<1.5	70	.07	.06	30	<4	1.5	150	<7	.040	<10
01AP5200	<1.5	70	.03	.03	19	<4	1.5	150	<7	.040	<10
Apples, Wayne County, New York											
02AP1100	<1.5	70	.03	<.01	41	<4	2.0	200	<7	.040	<10
02AP1200	2.0	70	.03	<.01	40	<4	1.5	150	<7	.050	<10
02AP2100	<1.5	50	.03	<.01	42	<4	2.0	150	<7	.053	<10
02AP2200	<1.5	70	.03	<.01	31	<4	1.5	100	<7	.050	<10
02AP3100	<1.5	70	.03	<.01	31	<4	1.5	100	<7	.075	<10
02AP3200	<1.5	100	.03	<.01	25	<4	1.5	70	<7	.030	<10
02AP4100	<1.5	70	.03	<.01	30	<4	1.5	150	<7	.035	<10
02AP4200	<1.5	50	.03	<.01	31	<4	1.5	100	<7	.010	<10
02AP5100	2.0	70	.05	<.01	38	<4	2.0	150	10	.035	<10
02AP5200	7.0	100	.05	.01	39	<4	2.0	200	<7	.025	<10
Apples, Gloucester County, New Jersey											
03AP1100	2.0	70	.05	.01	40	<4	1.0	150	<7	.150	<10
03AP1200	2.0	30	.10	<.01	36	<4	1.5	150	<7	.110	<10
03AP2100	3.0	70	.05	<.01	35	<4	1.5	150	<7	.140	<10
03AP2200	<1.5	50	.03	<.01	38	<4	1.0	50	<7	.120	<10
03AP3100	<1.5	70	.03	<.01	43	<4	1.5	150	7	.230	<10
03AP3200	<1.5	50	.03	<.01	36	<4	2.0	150	<7	.100	<10
03AP4100	<1.5	70	.05	<.01	38	<4	.7	100	<7	.070	<10
03AP4200	<1.5	100	.05	<.01	40	<4	1.5	150	<7	.070	<10
03AP5100	<1.5	70	.03	<.01	40	<4	1.5	150	<7	.150	<10
03AP5200	2.0	50	.03	<.01	38	<4	1.5	70	<7	.090	<10
Apples, Yakima County, Washington											
09AP1100	<1.5	70	.05	<.01	35	<4	2.0	70	7	.055	<10
09AP1200	3.0	50	.03	.01	37	<4	1.5	70	<7	.060	<10
09AP2100	<1.5	70	.05	<.01	33	<4	1.0	70	<7	.030	<10
09AP2200	<1.5	50	.03	<.01	26	<4	1.5	30	<7	.025	<10
09AP3100	<1.5	70	.03	<.01	40	<4	1.5	50	7	.310	<10
09AP3200	<1.5	70	.05	<.01	34	<4	2.0	100	<7	.190	<10
09AP4100	<1.5	70	.03	<.01	39	<4	2.0	50	<7	.055	<10
09AP4200	<1.5	70	.03	<.01	40	<4	1.5	50	<7	.050	<10
09AP5100	<1.5	50	.03	<.01	35	<4	2.0	50	<7	.035	<10
09AP5200	<1.5	50	.03	<.01	39	<4	1.5	50	<7	.035	<10

Table 4.--Concentrations of elements reported in samples of apples and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
				Apples, Berrien County, Michigan						
01AP1100	2.4	1,000	.025	<.005	30	.0020	65	<20	1.4	13.7
01AP1200	1.8	1,500	.025	<.005	15	<.0005	40	<20	1.4	15.5
01AP2100	2.4	700	.025	<.005	70	.0010	120	<20	1.7	17.3
01AP2200	1.8	1,000	.030	<.005	30	.0007	100	<20	2.4	17.5
01AP3100	2.4	<20	.025	<.005	70	.0070	90	<20	1.2	14.9
01AP3200	2.4	<20	.030	<.005	150	.0015	100	<20	1.5	16.0
01AP4100	1.8	<20	.025	<.005	70	.0015	50	<20	1.7	15.8
01AP4200	2.4	<20	.025	<.005	30	.0020	60	<20	1.8	15.4
01AP5100	2.4	70	.025	<.005	30	.0030	70	<20	1.8	14.7
01AP5200	2.4	70	.020	<.005	70	.0030	170	<20	1.2	15.4
				Apples, Wayne County, New York						
02AP1100	2.4	30	.025	<.005	200	.0020	75	<20	1.1	14.3
02AP1200	3.6	30	.030	.005	200	.0015	80	<20	1.4	13.8
02AP2100	2.4	<20	.035	<.005	150	<.0005	120	<20	1.4	15.7
02AP2200	2.4	<20	.045	<.005	200	<.0005	100	<20	1.9	12.2
02AP3100	2.4	<20	.045	<.005	70	<.0005	60	<20	1.9	13.8
02AP3200	2.1	<20	.030	.010	70	<.0005	60	<20	2.3	14.5
02AP4100	2.4	<20	.035	<.005	150	<.0005	60	<20	1.8	12.3
02AP4200	1.8	<20	.025	<.005	150	<.0005	50	<20	1.7	15.2
02AP5100	2.4	700	.030	<.005	200	.0015	70	<20	1.3	13.7
02AP5200	2.4	300	.025	<.005	200	.0030	70	<20	1.6	15.1
				Apples, Gloucester County, New Jersey						
03AP1100	3.6	<20	.030	<.005	70	<.0005	80	<20	1.7	16.3
03AP1200	1.8	<20	.035	.005	50	.0030	65	<20	1.5	13.2
03AP2100	1.8	<20	.025	.005	70	.0050	80	<20	1.6	16.1
03AP2200	1.8	<20	.045	.005	30	.0007	75	<20	2.9	10.4
03AP3100	2.4	<20	.025	<.005	70	.0010	100	<20	1.5	15.7
03AP3200	2.4	<20	.030	<.005	30	.0015	50	<20	1.8	16.2
03AP4100	3.6	<20	.055	.005	20	<.0005	90	<20	4.3	11.2
03AP4200	2.4	<20	.040	.005	50	.0010	120	<20	2.4	13.9
03AP5100	1.8	50	.030	<.005	100	.0020	70	<20	1.3	13.6
03AP5200	2.4	<20	.035	.005	30	.0070	190	<20	2.3	14.3
				Apples, Yakima County, Washington						
09AP1100	2.4	<20	.020	<.005	150	.0030	50	<20	1.6	15.2
09AP1200	1.8	<20	.025	.005	150	.0020	70	<20	1.4	14.1
09AP2100	1.8	<20	.020	<.005	70	.0020	70	<20	2.1	15.1
09AP2200	2.4	<20	.020	<.005	70	.0007	35	<20	1.5	16.0
09AP3100	1.8	<20	.020	.005	70	.0015	45	<20	2.6	15.9
09AP3200	2.4	<20	.020	<.005	150	.0030	45	<20	1.6	15.2
09AP4100	3.6	<20	.015	<.005	200	.0015	60	<20	1.5	19.1
09AP4200	2.4	<20	.015	<.005	150	.0015	40	<20	1.2	18.1
09AP5100	1.8	<20	.015	<.005	200	.0020	40	<20	1.9	18.7
09AP5200	1.8	<20	.015	<.005	200	.0007	45	<20	1.8	16.7

Table 4.--Concentrations of elements reported in samples of apples and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
				Apples, Mesa County, Colorado							
11AP1100	39 7 0	108 21 0	417,740	<1	.100	.15	1,500	100	1.30	.2	<1
11AP1200	39 7 0	108 21 0	417,628	<1	.100	<.05	700	100	1.50	.2	<1
11AP2100	39 7 0	108 21 0	417,253	<1	.050	.25	700	50	1.10	.2	1
11AP2200	39 7 0	108 21 0	417,491	<1	.070	.30	500	70	1.40	.6	<1
11AP3100	39 7 0	108 21 0	417,706	<1	.070	<.05	1,000	70	1.20	.2	<1
11AP3200	39 7 0	108 21 0	417,776	<1	.150	<.05	700	70	1.20	.2	<1
11AP4100	39 7 0	108 21 0	417,220	<1	.030	<.05	500	30	1.20	<.2	<1
11AP4200	39 7 0	108 21 0	417,090	<1	.070	.05	500	70	1.60	<.2	<1
11AP5100	39 7 0	108 21 0	417,364	<1	.020	<.05	700	100	1.10	<.2	<1
11AP5200	39 7 0	108 21 0	417,314	<1	.030	<.05	500	70	1.00	.6	<1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
					Apples, Mesa County, Colorado						
11AP1100	2.0	100	.03	.01	39	<4	1.5	50	15	.060	<10
11AP1200	2.0	70	.03	<.01	42	<4	1.5	30	<7	.095	<10
11AP2100	7.0	50	.02	<.01	37	4	1.5	30	10	.060	<10
11AP2200	<1.5	50	.03	<.01	38	<4	1.5	30	10	.160	<10
11AP3100	<1.5	100	.03	<.01	35	<4	1.5	30	<7	.085	<10
11AP3200	<1.5	70	.03	<.01	43	<4	1.5	30	7	.170	<10
11AP4100	<1.5	30	.02	<.01	40	<4	1.5	30	7	.045	<10
11AP4200	1.5	50	.03	.01	39	<4	1.0	20	7	.130	<10
11AP5100	3.0	70	.02	<.01	38	<4	1.5	20	15	.070	<10
11AP5200	<1.5	70	.02	<.01	32	<4	1.0	30	10	.100	<10

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
					Apples, Mesa County, Colorado					
11AP1100	2.4	30	.020	.020	150	.0020	100	<20	2.0	14.8
11AP1200	2.4	<20	.015	.010	300	.0005	50	<20	1.5	16.8
11AP2100	1.8	50	.030	.040	300	.0015	50	<20	1.8	15.6
11AP2200	2.4	30	.020	.020	200	.0020	40	<20	1.9	15.9
11AP3100	2.4	<20	.025	.010	300	.0007	40	<20	2.3	14.7
11AP3200	2.4	<20	.025	.010	150	<.0005	60	<20	1.6	16.2
11AP4100	1.2	<20	.035	.020	150	<.0005	35	<20	3.5	14.4
11AP4200	2.4	<20	.025	.010	200	.0005	60	<20	2.1	13.0
11AP5100	2.4	<20	.020	.010	200	<.0005	65	<20	2.1	14.9
11AP5200	2.4	<20	.020	.010	200	.0005	70	<20	1.9	14.9

Table 4.--Concentrations of elements reported in samples of apples and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting apples, Berrien County, Michigan											
01AP110S	42 3 0	86 22 0	172,865	3.44	90.0	50	500	<1	1.54	.36	5
01AP210S	42 3 0	86 22 0	173,102	2.79	13.2	20	500	<1	1.05	.43	5
01AP310S	42 3 0	86 22 0	173,131	2.85	6.8	30	500	<1	1.07	.42	3
01AP410S	42 3 0	86 22 0	172,883	2.64	5.6	20	300	<1	1.45	.70	5
01AP510S	42 3 0	86 22 0	173,147	2.57	26.7	20	300	<1	1.44	.58	3
Soils supporting apples, Wayne County, New York											
02AP110S	43 15 0	77 16 0	173,075	3.60	19.5	20	300	<1	3.50	.92	5
02AP210S	43 15 0	77 16 0	172,807	3.47	84.2	<10	300	<1	.34	.70	5
02AP310S	43 15 0	77 16 0	172,817	3.77	91.8	<10	300	<1	2.90	.64	5
02AP410S	43 15 0	77 16 0	173,010	3.18	99.9	20	300	<1	3.00	.68	3
02AP510S	43 14 0	76 52 0	172,927	4.21	13.5	30	500	1	1.28	.45	7
Soils supporting apples, Gloucester County, New Jersey											
03AP110S	39 44 0	75 10 0	173,137	1.23	48.9	70	150	<1	1.43	.14	<3
03AP210S	39 44 0	75 10 0	172,931	.98	45.8	20	150	<1	1.07	.19	<3
03AP310S	39 44 0	75 10 0	172,968	1.29	23.4	20	150	<1	2.07	.23	<3
03AP410S	39 44 0	75 10 0	173,119	1.17	28.0	30	200	<1	.82	.13	<3
03AP510S	39 44 0	75 10 0	172,928	.67	35.3	20	150	<1	1.05	.17	<3
Soils supporting apples, Yakima County, Washington											
09AP110S	46 28 0	120 23 0	172,897	6.66	11.1	20	500	1	1.54	2.75	15
09AP210S	46 28 0	120 23 0	173,113	7.03	11.1	<10	500	1	2.03	2.77	15
09AP310S	46 28 0	120 23 0	172,844	7.38	18.2	<10	500	1	1.30	2.53	15
09AP410S	46 44 0	120 42 0	172,989	8.05	113.9	<10	500	1	2.22	2.89	15
09AP510S	46 44 0	120 42 0	172,997	7.68	134.9	<10	1,000	<1	3.07	3.03	20
Soils supporting apples, Mesa County, Colorado											
11AP110S	39 7 0	108 21 0	173,108	4.73	22.3	70	500	1	2.91	2.72	7
11AP210S	39 7 0	108 21 0	172,878	5.12	27.0	70	300	1	2.87	2.37	5
11AP310S	39 7 0	108 21 0	173,093	4.75	12.6	70	500	1	3.06	2.39	5
11AP410S	39 7 0	108 21 0	172,864	5.33	13.4	50	500	1	3.00	2.44	5
11AP510S	39 7 0	108 21 0	172,933	4.75	13.7	50	500	<1	2.81	2.42	7

Table 4.--Concentrations of elements reported in samples of apples and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting apples, Berrien County, Michigan											
01AP110S	30	10	<400	1.18	15	.99	.466	1.91	<30	21	.27
01AP210S	30	30	<400	1.14	7	1.13	.224	1.30	<30	12	.19
01AP310S	20	15	<400	.96	7	1.34	.160	1.39	<30	12	.17
01AP410S	20	20	<400	.99	5	1.18	.059	1.63	<30	9	.17
01AP510S	15	20	<400	.83	5	1.04	.680	1.15	<30	9	.16
Soils supporting apples, Wayne County, New York											
02AP110S	20	15	<400	1.69	10	.96	.175	1.27	<30	19	.46
02AP210S	20	30	<400	1.81	15	.76	.320	1.41	100	17	.36
02AP310S	20	20	400	1.74	15	.39	.150	1.34	<30	17	.34
02AP410S	15	15	<400	1.62	15	.49	.310	1.24	<30	15	.31
02AP510S	30	20	400	2.21	15	1.21	.135	1.56	<30	29	.54
Soils supporting apples, Gloucester County, New Jersey											
03AP110S	70	30	<400	1.35	5	1.00	.097	.61	<30	11	.13
03AP210S	50	15	<400	1.16	<5	1.12	.132	.57	<30	9	.11
03AP310S	20	20	<400	1.32	<5	.71	.010	.63	<30	9	.17
03AP410S	20	20	400	1.33	<5	.77	.101	.60	<30	9	.13
03AP510S	15	20	<400	1.00	<5	1.03	.131	.59	<30	7	.11
Soils supporting apples, Yakima County, Washington											
09AP110S	70	20	400	4.01	20	1.13	.057	1.49	<30	21	1.15
09AP210S	50	50	500	3.91	15	1.41	.018	1.41	<30	21	1.15
09AP310S	50	30	800	4.16	20	1.58	.031	1.66	<30	23	1.12
09AP410S	50	30	600	4.35	20	<.10	.050	1.28	<30	22	.95
09AP510S	70	70	400	4.71	20	.77	.105	1.25	<30	20	1.00
Soils supporting apples, Mesa County, Colorado											
11AP110S	50	50	800	2.26	15	1.45	.028	1.82	30	33	1.22
11AP210S	50	20	900	2.35	15	1.47	.065	1.99	<30	37	1.30
11AP310S	50	50	800	2.29	15	1.00	.023	1.95	30	37	1.28
11AP410S	50	30	500	2.30	20	1.32	.056	1.97	<30	34	1.28
11AP510S	50	20	700	2.22	15	1.32	.050	1.88	30	35	1.27

Table 4.--Concentrations of elements reported in samples of apples and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting apples, Berrien County, Michigan											
01AP110S	200	.57	10	10	200	75	.10	5	--	35	.23
01AP210S	1,500	.56	10	10	70	50	<.08	3	.15	39	<.10
01AP310S	700	.60	<10	5	200	50	<.08	<3	.61	37	.90
01AP410S	500	.60	10	7	20	55	<.08	3	<.10	39	.52
01AP510S	700	.53	<10	5	200	40	<.08	<3	<.10	39	.41
Soils supporting apples, Wayne County, New York											
02AP110S	200	.91	10	5	70	30	.17	5	<.10	33	<.10
02AP210S	200	.95	10	7	200	45	.08	5	<.10	35	.78
02AP310S	200	1.08	<10	5	150	45	<.08	5	<.10	33	.79
02AP410S	300	.96	<10	7	300	30	<.08	3	<.10	36	.12
02AP510S	500	.99	10	15	50	70	<.08	7	<.10	33	1.13
Soils supporting apples, Gloucester County, New Jersey											
03AP110S	150	.10	10	5	150	25	.11	<3	<.10	40	1.43
03AP210S	100	.07	10	<2	200	25	<.08	<3	<.10	39	1.78
03AP310S	150	.09	10	<2	200	35	<.08	<3	<.10	37	1.06
03AP410S	150	.11	10	2	100	25	<.08	<3	<.10	37	6.91
03AP510S	100	<.07	<10	<2	200	20	<.08	<3	<.10	41	1.83
Soils supporting apples, Yakima County, Washington											
09AP110S	500	1.87	10	20	70	50	.08	15	<.10	28	1.19
09AP210S	700	1.92	10	30	70	50	<.08	20	.13	27	1.91
09AP310S	500	1.93	10	30	70	60	.10	15	.34	28	.84
09AP410S	500	2.16	<10	15	700	50	.10	15	<.10	26	.87
09AP510S	1,500	2.20	<10	20	1,000	45	<.08	20	.10	26	.93
Soils supporting apples, Mesa County, Colorado											
11AP110S	200	.71	10	20	100	90	<.08	7	.17	30	.70
11AP210S	150	.68	<10	15	100	100	.09	7	<.10	30	1.05
11AP310S	200	.65	10	20	70	100	<.08	7	.16	29	.71
11AP410S	150	.66	10	20	50	95	<.08	7	.40	30	.36
11AP510S	150	.69	10	15	50	95	<.08	7	<.10	29	1.59

Table 4.--Concentrations of elements reported in samples of apples and in samples of their supporting soils--continued

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting apples, Berrien County, Michigan										
01AP110S	150	7.0	.31	1.7	50	10	1.5	63	200	5.6
01AP210S	100	4.1	.22	1.4	30	10	1.0	63	150	6.4
01AP310S	70	--	.21	1.5	20	10	1.5	49	300	6.3
01AP410S	70	4.4	.24	1.5	20	10	1.0	97	150	7.9
01AP510S	50	3.8	.17	2.7	15	<10	1.0	68	100	6.6
Soils supporting apples, Wayne County, New York										
02AP110S	100	4.3	.36	1.8	30	10	1.5	66	500	6.2
02AP210S	150	5.3	.37	1.6	50	15	1.5	58	150	5.5
02AP310S	150	--	.37	1.9	30	10	1.0	49	100	4.6
02AP410S	150	3.2	.31	1.0	30	10	1.5	44	100	4.8
02AP510S	150	10.3	.47	2.3	70	20	2.0	69	200	6.2
Soils supporting apples, Gloucester County, New Jersey										
03AP110S	15	9.8	.68	2.7	30	15	2.0	42	700	5.2
03AP210S	10	10.3	.72	2.4	20	15	2.0	82	700	6.0
03AP310S	15	8.6	.68	3.1	30	10	1.0	55	200	5.2
03AP410S	15	6.1	.66	2.6	20	15	2.0	45	700	5.5
03AP510S	10	--	.29	1.9	10	10	<1.0	57	200	5.7
Soils supporting apples, Yakima County, Washington										
09AP110S	500	6.6	.58	2.0	100	15	2.0	122	150	7.4
09AP210S	500	7.5	.54	2.0	150	15	2.0	125	150	7.0
09AP310S	500	8.8	.59	1.8	150	15	1.5	106	150	6.2
09AP410S	500	8.6	.62	1.6	150	20	2.0	126	100	6.1
09AP510S	500	3.6	.61	1.9	200	20	--	200	150	6.1
Soils supporting apples, Mesa County, Colorado										
11AP110S	200	11.6	.31	3.9	100	20	2.0	141	200	7.7
11AP210S	150	7.2	.32	4.0	70	15	1.5	123	100	7.9
11AP310S	150	8.6	.30	3.8	100	20	2.0	124	200	7.9
11AP410S	200	10.9	.30	3.7	100	15	1.5	129	150	7.8
11AP510S	150	11.4	.29	4.0	100	15	1.5	125	100	7.7

Table 5.--Concentrations of elements reported in samples of European grapes and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
			European grapes, Yakima County, Washington								
09GE1100	46 20 0	120 3 0	417,150	<1	.030	--	300	30	.88	.2	<1
09GE1200	46 20 0	120 3 0	417,322	<1	.030	<.05	300	30	.80	1.0	<1
09GE2100	46 20 0	120 3 0	417,429	<1	.150	<.05	300	30	.60	.2	<1
09GE2200	46 20 0	120 3 0	417,426	<1	.070	<.05	300	30	.40	<.2	<1
09GE3100	46 20 0	120 3 0	417,769	<1	.020	<.05	300	30	1.40	.2	<1
09GE3200	46 20 0	120 3 0	417,268	<1	.150	<.05	500	100	3.00	.2	<1
09GE4100	46 20 0	120 3 0	417,414	<1	.030	<.05	300	50	3.20	<.2	<1
09GE4200	46 20 0	120 3 0	417,416	<1	.050	<.05	200	70	3.40	<.2	<1
09GE5100	46 20 0	120 3 0	417,267	<1	.030	<.05	500	70	.88	<.2	<1
09GE5200	46 20 0	120 3 0	417,811	<1	.030	<.05	200	7	.12	<.2	<1
			European grapes, San Joaquin County, California								
10GE1100	38 10 0	121 12 0	417,545	<1	<.015	<.05	300	70	1.50	.2	<1
10GE1200	38 10 0	121 12 0	417,651	<1	.050	<.05	500	100	3.20	.2	<1
10GE2100	38 10 0	121 12 0	417,744	<1	.150	<.05	500	70	2.00	.4	<1
10GE2200	38 10 0	121 12 0	417,229	<1	.200	<.05	700	150	4.40	.2	<1
10GE3100	38 10 0	121 12 0	417,490	<1	.050	<.05	300	100	2.40	.2	<1
10GE3200	38 10 0	121 12 0	417,407	<1	.050	<.05	300	70	1.70	<.2	<1
10GE4100	38 10 0	121 12 0	417,260	<1	.070	<.05	500	150	3.60	<.2	<1
10GE4200	38 10 0	121 12 0	417,709	<1	.150	<.05	700	200	4.80	.2	<1
10GE5100	38 10 0	121 12 0	417,569	<1	.030	<.05	700	100	2.20	.4	1
10GE5200	38 10 0	121 12 0	417,332	<1	.050	<.05	300	100	1.50	<.2	<1

Table 5.--Concentrations of elements reported in samples of European grapes and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
European grapes, Yakima County, Washington											
09GE1100	2.0	50	.03	<.01	15.0	<4	1.0	50	<7	.070	<10
09GE1200	<1.5	30	.03	<.01	9.8	<4	1.5	70	<7	.040	<10
09GE2100	<1.5	100	.07	<.01	13.0	<4	1.5	50	<7	.050	<10
09GE2200	<1.5	70	.03	<.01	12.0	<4	.7	30	<7	.055	<10
09GE3100	<1.5	30	.03	<.01	15.0	<4	.7	30	<7	.055	<10
09GE3200	2.0	50	.07	<.01	34.0	4	1.5	70	<7	.120	<10
09GE4100	<1.5	30	.03	<.01	18.0	<4	1.5	70	<7	.045	<10
09GE4200	<1.5	30	.05	<.01	22.0	<4	1.5	50	<7	.075	<10
09GE5100	<1.5	30	.03	<.01	8.8	<4	1.0	50	<7	.040	<10
09GE5200	<1.5	50	.02	<.01	5.2	<4	.5	7	<7	.025	<10
European grapes, San Joaquin County, California											
10GE1100	<1.5	70	.03	<.01	17.0	<4	1.5	70	<7	.040	<10
10GE1200	<1.5	70	.07	<.01	34.0	<4	2.0	100	7	.130	<10
10GE2100	3.0	150	.07	<.01	38.0	<4	1.5	70	<7	.070	<10
10GE2200	7.0	100	.15	<.01	36.0	<4	2.0	100	10	.400	<10
10GE3100	<1.5	100	.07	.01	28.0	<4	2.0	100	<7	.130	<10
10GE3200	2.0	100	.07	<.01	28.0	<4	1.5	70	<7	.085	<10
10GE4100	<1.5	70	.05	<.01	29.0	<4	1.0	100	7	.130	<10
10GE4200	10.0	200	.15	<.01	39.0	<4	3.0	200	7	.110	<10
10GE5100	<1.5	70	.05	<.01	26.0	<4	1.5	70	7	.170	<10
10GE5200	2.0	70	.05	.01	22.0	<4	1.5	100	<7	.080	<10

Table 5.--Concentrations of elements reported in samples of European grapes and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
European grapes, Yakima County, Washington										
09GE1100	.6	<20	.025	.005	150	.0007	30	30	3.8	23.9
09GE1200	1.2	<20	.020	<.005	100	.0030	45	<20	4.8	25.0
09GE2100	2.4	<20	.025	.010	150	.0070	100	30	2.6	21.3
09GE2200	1.8	<20	.040	.020	70	.0050	55	<20	4.1	18.7
09GE3100	1.8	<20	.025	.005	150	.0030	35	<20	2.7	22.1
09GE3200	2.4	<20	.015	<.005	500	.0070	120	70	1.5	22.3
09GE4100	1.5	<20	.025	.005	200	<.0005	55	<20	3.5	22.6
09GE4200	1.8	<20	.020	.010	200	.0050	70	<20	2.6	21.2
09GE5100	1.8	<20	.020	<.005	150	.0030	40	<20	3.6	24.8
09GE5200	.6	<20	.020	.005	15	<.0005	20	<20	3.7	26.6
European grapes, San Joaquin County, California										
10GE1100	2.4	<20	.050	<.005	300	<.0005	40	<20	3.4	23.8
10GE1200	3.6	20	.050	<.005	1,000	.0010	80	<20	1.9	22.2
10GE2100	3.6	30	.055	<.005	200	.0020	130	20	2.0	24.3
10GE2200	4.8	<20	.065	<.005	700	.0070	80	<20	1.3	23.7
10GE3100	3.6	<20	.095	<.005	500	.0010	100	<20	3.9	10.7
10GE3200	3.6	<20	.050	<.005	500	.0015	100	<20	2.3	24.0
10GE4100	3.6	<20	.060	<.005	500	.0050	100	<20	2.3	18.8
10GE4200	6.0	70	.060	<.005	700	.0070	140	<20	1.7	23.3
10GE5100	2.4	30	.080	<.005	500	.0020	65	<20	3.3	15.1
10GE5200	3.6	<20	.070	<.005	300	<.0005	80	<20	3.0	17.5

Table 5.--Concentrations of elements reported in samples of European grapes and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting European grapes, Yakima County, Washington											
09GE110S	46 20 0	120 3 0	172,833	6.2	5.3	30	700	1.0	1.27	2.8	15
09GE210S	46 20 0	120 3 0	172,962	6.7	4.8	20	500	1.0	1.06	2.9	15
09GE310S	46 20 0	120 3 0	173,125	6.7	5.6	<10	700	1.0	.93	3.0	15
09GE410S	46 20 0	120 3 0	172,958	6.5	4.4	<10	500	1.0	.84	3.0	15
09GE510S	46 20 0	120 3 0	172,885	6.9	3.6	20	500	1.0	.73	2.8	15
Soils supporting European grapes, San Joaquin County, California											
10GE110S	38 10 0	121 12 0	173,021	6.9	10.9	<10	1,000	<1.0	1.21	2.5	7
10GE210S	38 10 0	121 12 0	173,111	7.2	9.7	<10	1,000	1.0	1.02	2.4	7
10GE310S	38 10 0	121 12 0	172,994	7.4	10.0	<10	1,000	1.0	.71	2.5	7
10GE410S	38 10 0	121 12 0	172,882	7.2	9.4	<10	700	1.0	1.04	2.5	7
10GE510S	38 10 0	121 12 0	173,032	6.6	12.2	<10	1,000	1.0	.96	2.6	7

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting European grapes, Yakima County, Washington											
09GE110S	50	30	500	4.7	15	1.43	.010	1.5	<30	23	1.38
09GE210S	30	20	600	4.7	20	1.42	.031	1.7	70	22	1.33
09GE310S	70	20	500	4.7	15	1.39	.013	1.5	30	22	1.36
09GE410S	30	20	700	5.0	20	1.16	.160	1.6	<30	21	1.36
09GE510S	30	20	500	4.9	20	1.54	.036	1.7	50	20	1.28
Soils supporting European grapes, San Joaquin County, California											
10GE110S	30	30	<400	2.6	20	.94	.026	2.1	30	13	.60
10GE210S	30	30	<400	2.6	15	1.28	<.010	2.0	<30	12	.60
10GE310S	20	15	400	2.3	15	.99	.027	2.1	<30	11	.59
10GE410S	20	20	500	2.7	15	1.27	.039	2.1	<30	11	.63
10GE510S	30	50	<400	2.7	20	1.49	.018	2.0	<30	12	.61

Table 5.--Concentrations of elements reported in samples of European grapes and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting European grapes, Yakima County, Washington											
09GE110S	300	1.8	10	20	15	60	.11	15	<.10	28	.84
09GE210S	500	1.8	<10	15	15	70	<.08	15	<.10	28	1.01
09GE310S	700	1.9	10	20	15	55	<.08	20	.10	28	2.09
09GE410S	500	1.8	10	20	15	60	<.08	20	.18	28	.67
09GE510S	500	1.8	10	20	30	60	<.08	15	.29	29	2.46
Soils supporting European grapes, San Joaquin County, California											
10GE110S	500	2.3	<10	10	20	70	<.08	10	<.10	28	1.09
10GE210S	500	2.5	10	10	20	70	<.08	10	<.10	29	.85
10GE310S	300	2.2	10	5	15	75	<.08	7	<.10	31	.78
10GE410S	300	2.2	10	10	30	75	<.08	7	<.10	30	1.58
10GE510S	500	2.4	<10	10	30	70	<.08	10	<.10	30	1.47

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting European grapes, Yakima County, Washington										
09GE110S	300	10.6	.79	2.0	150	20	2.0	94	150	7.8
09GE210S	500	12.0	.74	1.9	150	20	2.0	88	100	7.5
09GE310S	300	8.6	.71	2.0	200	20	3.0	91	200	8.3
09GE410S	500	10.7	.78	2.2	150	20	2.0	87	150	8.0
09GE510S	300	8.7	.76	2.0	150	20	2.0	122	150	8.0
Soils supporting European grapes, San Joaquin County, California										
10GE110S	500	10.2	.31	3.3	100	15	2.0	55	200	5.7
10GE210S	500	11.2	.30	2.7	100	15	1.5	55	150	6.9
10GE310S	500	15.8	.29	2.4	70	10	1.0	47	150	5.7
10GE410S	500	10.8	.36	3.3	70	20	3.0	65	200	7.5
10GE510S	700	8.9	.33	3.1	150	15	2.0	52	200	6.3

Table 6.--Concentrations of elements reported in samples of grapefruit and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Grapefruit, Palm Beach County, Florida											
04GF1100	26 42 0	80 20 0	417,646	<1	.020	.10	150	50	5.0	.2	<1
04GF1200	26 42 0	80 20 0	417,315	<1	<.015	.05	150	20	4.2	.2	<1
04GF2100	26 42 0	80 20 0	417,072	<1	.020	.05	100	30	4.6	.2	<1
04GF2200	26 42 0	80 20 0	417,606	<1	.020	.10	150	50	7.0	.2	<1
04GF3100	26 42 0	80 20 0	417,705	<1	.020	.40	150	70	4.2	.2	<1
04GF3200	26 42 0	80 20 0	417,674	<1	.100	.15	150	70	6.4	<.2	<1
04GF4100	26 42 0	80 20 0	417,765	<1	<.015	.10	100	30	5.4	.2	<1
04GF4200	26 42 0	80 20 0	417,085	<1	<.015	--	200	50	7.4	.6	1
04GF5100	26 42 0	80 20 0	417,210	<1	.030	.10	150	70	7.4	<.2	<1
04GF5200	26 42 0	80 20 0	417,808	<1	<.015	.15	100	50	6.0	<.2	<1
Grapefruit, Hidalgo County, Texas											
05GF1100	26 18 0	98 17 0	417,482	<1	.030	<.05	200	70	7.0	.2	<1
05GF1200	26 18 0	98 17 0	417,762	<1	.150	.05	300	200	9.0	<.2	<1
05GF2100	26 18 0	98 17 0	417,170	<1	.100	--	300	150	9.4	.4	<1
05GF2200	26 18 0	98 17 0	417,644	<1	.200	<.05	300	200	10.0	.2	<1
05GF3100	26 18 0	98 17 0	417,506	<1	.070	<.05	300	150	6.8	.2	<1
05GF3200	26 18 0	98 17 0	417,805	<1	.030	<.05	200	200	9.2	<.2	<1
05GF4100	26 18 0	98 17 0	417,379	<1	.030	<.05	300	200	9.4	<.2	<1
05GF4200	26 18 0	98 17 0	417,255	<1	<.015	<.05	150	150	6.8	<.2	<1
05GF5100	26 18 0	98 17 0	417,108	<1	<.015	<.05	200	200	8.2	.2	2
05GF5200	26 18 0	98 17 0	417,790	<1	.150	<.05	200	150	8.6	<.2	<1
Grapefruit, Riverside County, California											
06GF1100	33 41 0	116 10 0	417,766	<1	.300	<.05	150	150	7.4	.2	<1
06GF1200	33 41 0	116 10 0	417,205	<1	.050	.05	150	50	6.0	.2	1
06GF2100	33 41 0	116 10 0	417,554	<1	.070	<.05	150	150	6.4	.2	<1
06GF2200	33 41 0	116 10 0	417,489	<1	.200	<.05	200	100	6.8	.2	<1
06GF3100	33 41 0	116 10 0	417,703	<1	.200	<.05	200	150	7.6	.4	<1
06GF3200	33 41 0	116 10 0	417,111	<1	.100	<.05	150	30	7.6	.4	<1
06GF4100	33 41 0	116 10 0	417,556	<1	.030	<.05	100	70	6.2	.2	<1
06GF4200	33 41 0	116 10 0	417,193	<1	.020	<.05	150	30	6.2	<.2	<1
06GF5100	33 41 0	116 10 0	417,122	<1	.070	--	150	100	7.0	<.2	<1
06GF5200	33 41 0	116 10 0	417,164	<1	.070	--	150	30	8.2	.4	1
Grapefruit, Yuma County, Arizona											
07GF1100	33 0 0	113 24 0	417,460	<1	.030	.10	150	70	5.2	<.2	<1
07GF1200	33 0 0	113 24 0	417,349	<1	.030	.05	150	30	1.2	<.2	<1
07GF2100	33 0 0	113 24 0	417,249	<1	.030	.05	150	150	7.2	<.2	<1
07GF2200	33 0 0	113 24 0	417,353	<1	.020	.05	150	70	4.4	<.2	<1
07GF3100	33 0 0	113 24 0	417,526	<1	.200	<.05	200	150	5.0	.2	<1
07GF3200	33 0 0	113 24 0	417,219	<1	<.015	.10	200	30	3.0	<.2	<1
07GF4100	33 0 0	113 24 0	417,581	<1	.050	.10	200	70	3.2	.2	<1
07GF4200	33 0 0	113 24 0	417,696	<1	.070	<.05	150	20	1.2	.2	<1
07GF5100	33 0 0	113 24 0	417,558	<1	.030	<.05	150	100	5.2	<.2	<1
07GF5200	33 0 0	113 24 0	417,514	<1	.030	<.05	300	150	6.2	<.2	<1

Table 6.--Concentrations of elements reported in samples of grapefruit and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Grapefruit, Palm Beach County, Florida											
04GF1100	<1.5	30	.020	<.01	39	<4	3.0	20	<7	.170	<10
04GF1200	<1.5	30	.015	<.01	30	<4	1.5	30	7	.150	<10
04GF2100	<1.5	30	.015	<.01	40	<4	1.5	15	<7	.200	<10
04GF2200	<1.5	50	.020	<.01	42	<4	2.0	30	<7	.220	<10
04GF3100	<1.5	70	.050	<.01	40	<4	3.0	50	<7	.190	<10
04GF3200	<1.5	70	.030	<.01	42	<4	2.0	30	<7	.160	<10
04GF4100	<1.5	70	.020	<.01	41	<4	2.0	30	<7	.130	<10
04GF4200	<1.5	50	.020	<.01	38	<4	2.0	15	<7	.180	<10
04GF5100	<1.5	50	.020	<.01	40	<4	2.0	20	<7	.290	<10
04GF5200	<1.5	70	.015	<.01	40	<4	2.0	20	<7	.200	<10
Grapefruit, Hidalgo County, Texas											
05GF1100	<1.5	50	.020	<.01	39	<4	3.0	30	<7	.170	<10
05GF1200	5.0	70	.070	<.01	40	<4	3.0	50	<7	.310	<10
05GF2100	1.5	30	.030	<.01	37	7	3.0	70	<7	.280	<10
05GF2200	3.0	30	.050	<.01	39	<4	3.0	70	<7	.210	<10
05GF3100	<1.5	70	.050	<.01	39	4	2.0	70	<7	.310	<10
05GF3200	<1.5	70	.030	<.01	40	4	2.0	50	<7	.270	<10
05GF4100	<1.5	50	.030	<.01	39	6	3.0	50	<7	.270	<10
05GF4200	<1.5	30	.020	<.01	41	<4	.7	30	<7	.120	<10
05GF5100	<1.5	50	.020	<.01	35	4	2.0	30	<7	.094	<10
05GF5200	<1.5	50	.030	<.01	37	<4	2.0	50	<7	.230	<10
Grapefruit, Riverside County, California											
06GF1100	<1.5	70	.070	<.01	40	11	2.0	30	<7	.300	15
06GF1200	2.0	50	.050	<.01	35	5	1.5	20	<7	.180	10
06GF2100	2.0	70	.070	<.01	34	<4	2.0	50	<7	.180	15
06GF2200	3.0	70	.100	<.01	35	<4	2.0	50	<7	.130	10
06GF3100	3.0	70	.200	<.01	37	5	3.0	30	<7	.120	70
06GF3200	1.5	50	.050	<.01	35	8	2.0	30	<7	.290	<10
06GF4100	<1.5	70	.030	<.01	39	4	3.0	30	<7	.140	<10
06GF4200	<1.5	50	.030	<.01	33	7	1.5	30	7	.200	<10
06GF5100	<1.5	50	.030	<.01	38	<4	1.5	15	<7	.140	<10
06GF5200	<1.5	70	.050	<.01	38	9	1.5	30	7	.240	<10
Grapefruit, Yuma County, Arizona											
07GF1100	<1.5	30	.020	<.01	35	15	1.5	20	<7	.060	<10
07GF1200	<1.5	30	.015	<.01	15	5	1.0	30	<7	.220	<10
07GF2100	<1.5	50	.020	<.01	39	12	1.5	30	<7	.075	<10
07GF2200	<1.5	50	.030	<.01	34	16	1.5	20	<7	.050	<10
07GF3100	<1.5	50	.030	<.01	35	18	2.0	50	<7	.090	<10
07GF3200	<1.5	30	.015	<.01	30	11	.7	30	<7	.120	<10
07GF4100	<1.5	30	.020	<.01	26	10	1.5	50	<7	.110	<10
07GF4200	<1.5	50	.015	<.01	16	9	1.0	50	<7	.095	<10
07GF5100	<1.5	50	.050	<.01	40	10	2.0	50	<7	.210	<10
07GF5200	<1.5	70	.050	<.01	37	21	3.0	70	<7	.120	<10

Table 6.--Concentrations of elements reported in samples of grapefruit and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
Grapefruit, Palm Beach County, Florida										
04GF1100	3.6	<20	.055	<.005	150	<.0005	100	<20	3.0	10.0
04GF1200	2.4	<20	.080	<.005	200	<.0005	90	<20	5.3	7.1
04GF2100	3.6	<20	.070	.010	300	<.0005	110	<20	3.1	10.5
04GF2200	4.8	<20	.055	.005	200	<.0005	140	<20	2.6	10.0
04GF3100	3.6	<20	.060	<.005	300	<.0005	160	<20	2.8	12.3
04GF3200	3.6	<20	.060	<.005	200	<.0005	140	<20	3.4	10.3
04GF4100	4.8	<20	.060	<.005	300	<.0005	130	<20	3.4	10.7
04GF4200	3.6	<20	.060	--	700	<.0005	140	<20	2.8	7.8
04GF5100	3.6	<20	.060	.010	500	.0007	140	<20	2.6	8.8
04GF5200	2.4	<20	.050	.005	150	<.0005	130	<20	3.4	11.3
Grapefruit, Hidalgo County, Texas										
05GF1100	3.6	70	.050	.010	1,000	.0005	160	<20	2.3	12.5
05GF1200	3.6	<20	.050	.020	1,500	.0020	140	<20	2.5	10.6
05GF2100	3.6	<20	.070	.020	1,000	.0020	140	<20	3.1	10.2
05GF2200	3.6	<20	.050	.020	1,500	.0015	150	<20	2.6	12.7
05GF3100	3.6	<20	.055	.010	1,000	.0020	200	<20	2.9	13.3
05GF3200	3.6	<20	.045	.010	1,000	.0015	140	<20	2.4	13.5
05GF4100	2.4	<20	.035	.020	2,000	.0015	130	<20	2.2	15.3
05GF4200	2.4	<20	.070	.020	700	<.0005	130	<20	3.1	12.9
05GF5100	3.6	<20	.060	<.005	1,500	<.0005	140	<20	2.9	13.0
05GF5200	3.6	<20	.055	.005	700	<.0005	200	<20	2.5	12.2
Grapefruit, Riverside County, California										
06GF1100	3.6	<20	.085	.060	1,000	.0007	160	<20	3.9	10.6
06GF1200	2.4	<20	.080	.020	1,000	.0010	110	<20	4.7	10.2
06GF2100	3.6	<20	.070	.040	1,500	.0030	140	<20	5.1	9.6
06GF2200	4.8	<20	.095	.040	2,000	.0030	180	<20	3.9	9.8
06GF3100	3.6	<20	.090	.040	2,000	.0070	200	<20	4.1	11.2
06GF3200	3.6	<20	.080	.020	1,000	.0030	150	<20	4.3	9.7
06GF4100	3.6	<20	.080	.020	2,000	.0015	150	<20	4.9	9.7
06GF4200	2.4	<20	.085	.020	700	.0007	150	<20	5.1	9.1
06GF5100	3.6	<20	.090	<.005	1,000	.0030	120	<20	4.1	10.0
06GF5200	2.4	<20	.080	.020	1,500	.0015	150	<20	3.9	9.6
Grapefruit, Yuma County, Arizona										
07GF1100	1.8	<20	.080	.010	500	<.0005	80	<20	7.2	8.1
07GF1200	1.2	<20	.065	.010	300	<.0005	60	<20	11.0	7.0
07GF2100	2.4	<20	.075	.010	500	.0030	140	<20	4.3	9.3
07GF2200	2.4	<20	.055	.010	500	<.0005	120	<20	5.4	7.5
07GF3100	2.4	<20	.075	.010	1,500	.0010	130	<20	3.5	8.1
07GF3200	1.8	<20	.065	.020	300	<.0005	70	<20	6.1	9.1
07GF4100	1.8	<20	.065	.010	300	<.0005	90	<20	5.5	9.7
07GF4200	1.2	<20	.070	.020	200	<.0005	60	<20	7.1	8.1
07GF5100	2.4	<20	.065	.010	500	.0015	110	<20	4.2	8.9
07GF5200	3.6	<20	.080	.010	1,000	.0015	170	<20	4.6	10.3

Table 6.--Concentrations of elements reported in samples of grapefruit and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting grapefruit, Palm Beach County, Florida											
04GF110S	26 42 0	80 20 0	173,068	<.3	1.03	<10	20	<1.0	1.19	1.79	<3
04GF210S	26 42 0	80 20 0	172,795	<.3	.55	<10	15	<1.0	1.32	.18	<3
04GF310S	26 42 0	80 20 0	173,092	<.3	<.10	50	15	<1.0	1.60	<.07	<3
04GF410S	26 42 0	80 20 0	173,121	<.3	1.27	70	15	<1.0	.96	1.55	<3
04GF510S	26 42 0	80 20 0	172,860	.4	.14	<10	20	<1.0	2.33	7.43	<3
Soils supporting grapefruit, Hidalgo County, Texas											
05GF110S	26 18 0	98 17 0	172,991	3.1	4.29	15	300	<1.0	.55	.43	5
05GF210S	26 18 0	98 17 0	172,841	2.7	2.81	20	500	<1.0	.57	.49	5
05GF310S	26 18 0	98 17 0	173,000	2.6	3.31	20	500	<1.0	.67	.64	5
05GF410S	26 18 0	98 17 0	172,942	3.1	4.25	20	500	<1.0	.98	.56	<3
05GF510S	26 18 0	98 17 0	172,812	2.8	3.08	<10	500	<1.0	1.39	.55	<3
Soils supporting grapefruit, Riverside County, California											
06GF110S	33 41 0	116 10 0	173,122	7.2	4.17	<10	1,000	1.5	.59	2.91	7
06GF210S	33 41 0	116 10 0	173,024	6.4	2.75	<10	1,000	1.0	.71	3.21	10
06GF310S	33 41 0	116 10 0	173,090	6.9	2.56	<10	1,500	1.5	.84	3.02	7
06GF410S	33 41 0	116 10 0	173,025	6.5	3.33	<10	1,000	1.0	.54	3.10	10
06GF510S	33 41 0	116 10 0	172,818	6.9	3.47	<10	1,000	1.0	.48	2.75	7
Soils supporting grapefruit, Yuma County, Arizona											
07GF110S	33 0 0	113 24 0	172,977	5.7	5.25	15	1,000	1.0	.85	3.40	7
07GF210S	33 0 0	113 24 0	172,877	6.2	7.19	15	1,000	1.0	.93	2.93	7
07GF310S	33 0 0	113 24 0	173,013	5.4	5.37	20	1,500	1.0	1.31	3.81	10
07GF410S	33 0 0	113 24 0	173,035	6.7	4.30	<10	1,500	<1.0	.63	3.40	7
07GF510S	33 0 0	113 24 0	173,027	5.6	5.26	20	1,500	1.0	.57	3.03	10

Table 6.--Concentrations of elements reported in samples of grapefruit and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting grapefruit, Palm Beach County, Florida											
04GF110S	3.0	15	<400	.06	<5	.96	.031	.12	<30	7	.07
04GF210S	1.5	10	900	<.03	<5	.89	.020	.08	<30	<5	<.06
04GF310S	1.0	5	400	<.03	<5	.81	.010	.10	<30	<5	<.06
04GF410S	3.0	5	<400	<.03	<5	.64	<.010	.05	<30	5	<.06
04GF510S	7.0	10	<400	.17	<5	.82	.026	.11	<30	11	.07
Soils supporting grapefruit, Hidalgo County, Texas											
05GF110S	15.0	7	<400	.87	7	.87	.023	1.56	<30	14	.27
05GF210S	15.0	10	700	.87	10	1.30	.031	1.58	<30	12	.22
05GF310S	15.0	10	<400	.85	10	1.11	.023	1.61	<30	14	.28
05GF410S	15.0	10	<400	1.18	10	1.30	.028	1.79	<30	16	.32
05GF510S	15.0	7	1,400	.97	10	1.15	.020	1.62	<30	14	.27
Soils supporting grapefruit, Riverside County, California											
06GF110S	20.0	15	800	2.43	20	1.11	.015	2.42	50	25	1.00
06GF210S	30.0	15	900	2.54	20	1.20	.030	2.43	50	29	1.10
06GF310S	20.0	15	1,000	2.49	15	1.45	.016	2.43	50	26	1.04
06GF410S	50.0	20	1,000	2.95	30	1.47	.024	2.42	100	31	1.21
06GF510S	20.0	10	700	2.66	20	1.33	.010	2.37	50	27	1.00
Soils supporting grapefruit, Yuma County, Arizona											
07GF110S	70.0	15	900	2.63	15	1.26	.027	2.33	30	29	1.12
07GF210S	50.0	15	500	2.44	15	1.58	.036	2.60	30	25	.98
07GF310S	70.0	30	800	2.71	15	1.23	.024	2.36	30	29	1.12
07GF410S	70.0	20	400	2.36	20	1.09	.026	2.67	100	26	.92
07GF510S	100.0	20	600	2.53	15	1.25	.034	2.47	30	27	1.05

Table 6.--Concentrations of elements reported in samples of grapefruit and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting grapefruit, Palm Beach County, Florida											
04GF110S	10	.01	<10	<2	<10	<20	<.08	<3	<.10	41	.47
04GF210S	30	<.07	<10	<2	<10	<20	<.08	<3	<.10	44	<.10
04GF310S	5	<.07	<10	<2	<10	<20	<.08	<3	<.10	41	<.10
04GF410S	7	<.07	<10	<2	<10	<20	<.08	<3	<.10	41	.25
04GF510S	30	<.07	<10	<2	<10	<20	<.08	<3	.27	31	<.10
Soils supporting grapefruit, Hidalgo County, Texas											
05GF110S	150	.59	10	5	10	65	<.08	<3	.34	37	.34
05GF210S	150	.61	10	5	10	60	<.08	3	.15	38	.25
05GF310S	200	.67	10	7	10	60	<.08	--	<.10	39	.47
05GF410S	200	.65	10	<2	10	65	.09	3	<.10	35	.98
05GF510S	200	.63	<10	7	10	65	<.08	3	<.10	38	.46
Soils supporting grapefruit, Riverside County, California											
06GF110S	500	2.66	10	15	15	90	<.08	7	<.10	29	9.59
06GF210S	700	2.65	10	15	15	110	<.08	10	<.10	27	1.24
06GF310S	500	2.63	10	10	15	110	.13	10	<.10	29	.79
06GF410S	500	2.62	10	15	20	115	.15	15	<.10	27	.95
06GF510S	300	2.54	10	10	15	105	<.08	7	<.10	28	1.11
Soils supporting grapefruit, Yuma County, Arizona											
07GF110S	300	1.54	10	15	15	95	<.08	10	<.10	30	1.23
07GF210S	300	1.69	<10	15	15	100	<.08	7	<.10	30	1.05
07GF310S	700	1.48	10	20	20	100	<.08	10	.14	30	1.11
07GF410S	500	1.91	<10	20	20	90	<.08	10	.16	29	.46
07GF510S	500	1.71	10	30	20	90	<.08	10	.23	28	.57

Table 6.--Concentrations of elements reported in samples of grapefruit and in samples of their supporting soils--continued

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting grapefruit, Palm Beach County, Florida										
04GF110S	10	--	.07	.68	<7	<10	<1.0	<10	50	8.9
04GF210S	<5	--	.09	.69	<7	<10	<1.0	10	150	6.8
04GF310S	<5	--	.06	.37	<7	<10	<1.0	<10	200	5.0
04GF410S	10	--	.06	.50	<7	<10	<1.0	<10	50	8.8
04GF510S	100	--	.05	1.07	<7	<10	<1.0	<10	150	8.6
Soils supporting grapefruit, Hidalgo County, Texas										
05GF110S	100	8.0	.24	1.66	30	10	1.5	35	150	7.6
05GF210S	100	4.1	.21	1.57	30	10	1.5	30	150	8.1
05GF310S	100	5.6	.22	1.91	30	10	1.5	32	300	8.1
05GF410S	100	7.8	.27	1.77	30	10	1.5	42	200	7.8
05GF510S	100	7.1	.23	1.86	20	10	1.5	60	200	7.1
Soils supporting grapefruit, Riverside County, California										
06GF110S	500	14.9	.38	2.33	70	20	2.0	66	150	8.4
06GF210S	1,000	11.4	.38	2.76	100	30	3.0	76	200	8.7
06GF310S	500	16.2	.36	2.51	70	30	3.0	75	300	8.6
06GF410S	1,000	13.4	.44	3.19	150	30	3.0	88	200	8.5
06GF510S	500	20.9	.44	2.47	70	30	3.0	75	100	8.9
Soils supporting grapefruit, Yuma County, Arizona										
07GF110S	700	13.7	.39	2.49	100	15	1.5	73	150	8.5
07GF210S	500	8.3	.38	2.60	70	15	1.5	64	200	8.6
07GF310S	500	10.4	.39	2.90	100	30	3.0	69	300	8.5
07GF410S	1,000	8.3	.35	2.36	100	20	1.5	60	150	9.3
07GF510S	1,000	6.8	.37	2.74	100	20	3.0	68	500	9.0

Table 7.--Concentrations of elements reported in samples of oranges and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Oranges, Palm Beach County, Florida											
040R1100	26 42 0	80 20 0	417,810	<1	<.015	<.05	200	30	5.2	<.2	<1
040R1200	26 42 0	80 20 0	417,733	<1	<.015	<.05	200	70	7.4	<.2	1
040R2100	26 42 0	80 20 0	417,515	<1	.020	<.05	200	50	4.8	2.5	1
040R2200	26 42 0	80 20 0	417,695	<1	.030	<.05	300	50	4.7	.2	<1
040R3100	26 42 0	80 20 0	417,096	<1	.020	<.05	100	30	6.0	<.2	<1
040R3200	26 42 0	80 20 0	417,570	<1	.300	<.05	70	20	6.8	.4	<1
040R4100	26 42 0	80 20 0	417,739	<1	<.015	<.05	300	70	6.2	.4	<1
040R4200	26 42 0	80 20 0	417,310	<1	.030	<.05	150	50	6.2	.2	<1
040R5100	26 42 0	80 20 0	417,081	<1	<.015	<.05	200	30	6.0	<.2	1
040R5200	26 42 0	80 20 0	417,289	<1	<.015	<.05	200	30	5.2	.2	<1
Oranges, Hidalgo County, Texas											
050R1100	26 18 0	98 17 0	417,472	<1	.300	<.05	300	200	11.0	.2	1
050R1200	26 18 0	98 17 0	417,531	<1	.050	<.05	300	300	12.0	.2	<1
050R2100	26 18 0	98 17 0	417,586	<1	.150	<.05	300	200	7.6	.2	<1
050R2200	26 18 0	98 17 0	417,329	<1	.020	<.05	200	150	7.4	<.2	<1
050R3100	26 18 0	98 17 0	417,707	<1	.150	<.05	300	500	9.0	<.2	<1
050R3200	26 18 0	98 17 0	417,392	<1	.050	<.05	200	200	7.2	<.2	1
050R4100	26 18 0	98 17 0	417,208	<1	.020	<.05	300	200	8.6	<.2	<1
050R4200	26 18 0	98 17 0	417,080	<1	.030	<.05	300	200	7.2	.2	<1
050R5100	26 18 0	98 17 0	417,704	<1	.150	<.05	500	300	9.4	<.2	<1
050R5200	26 18 0	98 17 0	417,126	<1	.030	--	200	150	8.2	<.2	<1
Oranges, Riverside County, California											
060R1100	33 35 0	116 3 0	417,525	<1	.150	<.05	300	50	7.9	.8	1
060R1200	33 35 0	116 3 0	417,380	<1	.100	<.05	300	50	9.4	.4	<1
060R2100	33 35 0	116 3 0	417,282	<1	.200	<.05	300	30	6.8	.4	<1
060R2200	33 35 0	116 3 0	417,318	<1	.070	<.05	300	30	9.3	.4	<1
060R3100	33 35 0	116 3 0	417,478	<1	.100	<.05	300	50	7.2	.4	<1
060R3200	33 35 0	116 3 0	417,690	<1	.100	<.05	500	30	11.0	.2	<1
060R4100	33 35 0	116 3 0	417,643	<1	.070	<.05	300	50	6.2	<.2	<1
060R4200	33 35 0	116 3 0	417,772	<1	.070	<.05	300	30	8.2	<.2	<1
060R5100	33 35 0	116 3 0	417,299	<1	.100	<.05	300	50	6.2	.2	<1
060R5200	33 35 0	116 3 0	417,650	<1	.070	<.05	300	70	9.0	<.2	<1
Oranges, Yuma County, Arizona											
070R1100	33 0 0	113 24 0	417,605	<1	.030	<.05	300	150	10.0	<.2	<1
070R1200	33 0 0	113 24 0	417,120	<1	.050	--	300	150	9.4	.2	<1
070R2100	33 0 0	113 24 0	417,337	<1	.070	<.05	300	200	9.4	<.2	1
070R2200	33 0 0	113 24 0	417,351	<1	.300	<.05	300	150	6.0	.4	<1
070R3100	33 0 0	113 24 0	417,214	<1	.020	.05	300	150	10.0	<.2	1
070R3200	33 0 0	113 24 0	417,793	<1	.070	<.05	300	150	9.4	<.2	<1
070R4100	33 0 0	113 24 0	417,444	<1	<.015	<.05	300	150	11.0	.2	1
070R4200	33 0 0	113 24 0	417,493	<1	.050	.05	300	150	10.0	<.2	<1
070R5100	33 0 0	113 24 0	417,411	<1	.020	<.05	300	150	13.0	<.2	<1
070R5200	33 0 0	113 24 0	417,408	<1	<.015	<.05	300	100	8.0	<.2	1

Table 7.--Concentrations of elements reported in samples of oranges and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Oranges, Palm Beach County, Florida											
040R1100	<1.5	70	.03	<.01	38	<4	2.0	30	<7	.150	<10
040R1200	<1.5	70	.03	<.01	40	<4	3.0	70	<7	.210	<10
040R2100	7.0	50	.03	<.01	37	<4	2.0	30	<7	.220	<10
040R2200	<1.5	70	.03	<.01	37	<4	3.0	50	<7	.070	<10
040R3100	1.5	20	.03	<.01	37	<4	2.0	50	<7	.160	<10
040R3200	<1.5	70	.10	<.01	40	<4	5.0	150	<7	.085	<10
040R4100	<1.5	70	.03	<.01	40	<4	2.0	70	<7	.140	<10
040R4200	<1.5	70	.03	<.01	40	<4	1.5	30	<7	.170	<10
040R5100	<1.5	30	.03	<.01	42	<4	3.0	50	<7	.095	<10
040R5200	2.0	30	.03	<.01	40	<4	3.0	50	<7	.075	<10
Oranges, Hidalgo County, Texas											
050R1100	3.0	70	.10	<.01	35	5	3.0	70	<7	.140	<10
050R1200	<1.5	30	.03	<.01	35	<4	3.0	50	<7	.120	<10
050R2100	<1.5	30	.05	<.01	40	<4	3.0	70	7	.120	<10
050R2200	<1.5	30	.03	<.01	39	5	2.0	50	<7	.150	<10
050R3100	<1.5	70	.03	<.01	40	5	2.0	50	<7	.130	<10
050R3200	<1.5	50	.03	<.01	39	<4	1.5	30	<7	.070	<10
050R4100	<1.5	50	.03	<.01	37	6	2.0	50	<7	.260	<10
050R4200	<1.5	50	.03	<.01	38	<4	2.0	50	<7	.120	<10
050R5100	<1.5	70	.03	<.01	39	<4	3.0	70	<7	.120	<10
050R5200	<1.5	50	.03	<.01	42	<4	1.5	30	<7	.130	<10
Oranges, Riverside County, California											
060R1100	7.0	50	.10	<.01	37	14	3.0	50	<7	.800	<10
060R1200	7.0	70	.10	.01	40	12	2.0	30	<7	.410	<10
060R2100	3.0	70	.07	<.01	38	17	2.0	30	<7	.720	<10
060R2200	<1.5	50	.05	<.01	38	17	3.0	30	7	1.200	<10
060R3100	3.0	50	.07	<.01	33	21	2.0	30	<7	.650	<10
060R3200	3.0	100	.05	<.01	38	17	1.5	30	7	.300	<10
060R4100	<1.5	50	.03	<.01	34	9	1.5	30	<7	.280	<10
060R4200	<1.5	70	.05	<.01	38	15	1.0	30	<7	.340	<10
060R5100	2.0	70	.03	<.01	35	11	1.5	30	<7	1.100	<10
060R5200	<1.5	70	.07	<.01	33	11	2.0	50	<7	.380	10
Oranges, Yuma County, Arizona											
070R1100	3.0	30	.05	<.01	38	19	2.0	50	<7	.200	<10
070R1200	2.0	70	.07	<.01	34	17	2.0	70	<7	.110	30
070R2100	2.0	50	.05	<.01	37	28	2.0	50	<7	.055	20
070R2200	3.0	70	.15	<.01	37	11	1.5	30	<7	.090	30
070R3100	<1.5	50	.07	.01	37	25	1.5	50	<7	.130	20
070R3200	<1.5	70	.10	<.01	35	21	1.5	70	<7	.130	30
070R4100	<1.5	30	.02	<.01	31	20	1.5	30	<7	.040	<10
070R4200	<1.5	50	.03	<.01	34	21	2.0	30	<7	.025	<10
070R5100	<1.5	50	.02	<.01	35	24	2.0	50	<7	.025	<10
070R5200	<1.5	50	.03	.01	33	17	1.5	20	<7	.030	<10

Table 7.--Concentrations of elements reported in samples of oranges and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
Oranges, Palm Beach County, Florida										
040R1100	3.6	<20	.060	<.005	150	<.0005	160	<20	3.6	11.0
040R1200	3.6	<20	.050	<.005	200	<.0005	240	<20	2.8	14.1
040R2100	3.6	<20	.055	.005	150	<.0005	110	<20	3.5	12.1
040R2200	3.6	<20	.060	<.005	200	<.0005	140	<20	3.4	12.2
040R3100	3.6	<20	.055	<.005	500	<.0005	140	<20	3.0	10.9
040R3200	3.6	<20	.075	<.005	20	<.0005	150	<20	3.4	11.2
040R4100	3.6	<20	.065	<.005	200	<.0005	210	<20	3.2	14.7
040R4200	2.4	<20	.060	<.005	500	<.0005	140	<20	3.4	10.9
040R5100	3.6	<20	.065	--	300	<.0005	140	<20	3.6	10.2
040R5200	2.4	<20	.060	<.005	300	<.0005	130	<20	3.6	11.5
Oranges, Hidalgo County, Texas										
050R1100	3.6	20	.075	.010	1,500	.0030	200	<20	2.8	13.2
050R1200	2.4	<20	.070	.010	2,000	<.0005	130	<20	2.8	14.2
050R2100	3.6	<20	.065	.010	1,000	.0015	120	<20	3.2	13.3
050R2200	1.8	<20	.065	.010	1,000	<.0005	120	20	3.3	13.3
050R3100	2.4	<20	.055	.010	1,500	.0020	120	<20	2.9	15.0
050R3200	2.4	<20	.055	.010	700	.0005	160	<20	4.4	11.5
050R4100	2.4	<20	.070	.010	1,000	<.0005	150	<20	2.7	15.8
050R4200	3.6	<20	.065	.010	700	.0007	180	<20	3.2	14.1
050R5100	3.6	<20	.055	.010	1,500	.0007	120	<20	3.0	14.9
050R5200	3.6	<20	.065	<.005	700	<.0005	180	<20	2.9	14.6
Oranges, Riverside County, California										
060R1100	2.4	<20	.080	.020	2,000	.0020	170	<20	3.9	12.6
060R1200	2.4	<20	.060	.040	2,000	.0070	100	<20	3.9	14.2
060R2100	2.4	<20	.065	.020	1,000	.0030	140	<20	3.7	15.0
060R2200	3.6	<20	.120	.020	1,500	.0030	220	<20	4.2	10.8
060R3100	2.4	<20	.075	.020	1,500	.0015	160	<20	4.0	14.8
060R3200	2.4	<20	.075	.020	1,500	<.0005	180	<20	3.8	13.0
060R4100	1.8	<20	.075	.020	1,000	.0030	100	<20	5.1	13.8
060R4200	2.4	<20	.075	.020	1,000	.0015	150	<20	3.5	15.0
060R5100	1.8	<20	.060	.010	1,000	.0015	140	<20	4.0	16.1
060R5200	2.4	<20	.075	.020	1,500	.0010	140	<20	4.0	14.1
Oranges, Yuma County, Arizona										
070R1100	2.4	<20	.070	.010	1,000	.0015	140	<20	3.9	13.0
070R1200	3.6	<20	.075	.010	1,000	.0005	180	<20	3.8	13.4
070R2100	2.4	<20	.070	.010	1,000	<.0005	120	<20	3.6	14.9
070R2200	3.6	<20	.070	.010	1,000	.0050	140	<20	3.5	14.4
070R3100	2.4	<20	.070	.010	1,000	.0005	160	<20	4.3	12.3
070R3200	2.4	<20	.085	.010	700	<.0005	130	<20	5.5	12.5
070R4100	2.4	<20	.065	.005	1,000	<.0005	120	<20	4.8	13.1
070R4200	3.6	<20	.070	.005	1,000	<.0005	120	<20	4.1	13.1
070R5100	2.4	<20	.060	.005	1,000	<.0005	140	<20	3.7	13.2
070R5200	1.2	<20	.080	.005	500	.0015	100	<20	4.7	13.4

Table 7.--Concentrations of elements reported in samples of oranges and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting oranges, Palm Beach County, Florida											
040R110S	26 42 0	80 20 0	173,146	<.3	.63	<10	15	<1.0	.49	.56	<3
040R210S	26 42 0	80 20 0	173,006	<.3	.74	<10	20	<1.0	.48	.87	<3
040R310S	26 42 0	80 20 0	172,806	<.3	<.10	20	20	<1.0	2.55	<.07	<3
040R410S	26 42 0	80 20 0	173,107	<.3	<.10	<10	15	<1.0	.95	<.07	<3
040R510S	26 42 0	80 20 0	172,800	<.3	<.10	<10	20	1.0	.49	.10	<3
Soils supporting oranges, Hidalgo County, Texas											
050R110S	26 18 0	98 17 0	172,984	3.2	2.84	20	500	<1.0	.62	.43	5
050R210S	26 18 0	98 17 0	173,037	3.2	3.90	50	500	<1.0	.66	.34	<3
050R310S	26 18 0	98 17 0	173,094	3.5	4.79	30	500	1.0	.48	.36	3
050R410S	26 18 0	98 17 0	172,858	3.4	4.08	20	500	<1.0	.41	.29	<3
050R510S	26 18 0	98 17 0	173,091	3.4	5.04	20	500	1.0	.35	.38	3
Soils supporting oranges, Riverside County, California											
060R110S	33 35 0	116 3 0	173,012	6.5	2.18	<10	1,500	1.0	.50	2.85	7
060R210S	33 35 0	116 3 0	172,893	7.2	3.16	<10	1,000	1.0	.39	2.74	7
060R310S	33 35 0	116 3 0	172,988	6.9	1.10	<10	1,000	1.5	.32	2.50	7
060R410S	33 35 0	116 3 0	173,066	6.6	2.31	<10	1,500	1.0	.56	2.72	7
060R510S	33 35 0	116 3 0	172,901	6.0	4.61	<10	1,500	1.0	.70	2.58	7
Soils supporting oranges, Yuma County, Arizona											
070R110S	33 0 0	113 24 0	173,050	<.3	2.01	20	1,000	1.0	.83	.08	10
070R210S	33 0 0	113 24 0	172,919	5.3	4.89	20	1,000	1.0	.81	3.35	7
070R310S	33 0 0	113 24 0	172,862	5.9	4.46	<10	1,000	1.0	1.00	3.69	10
070R410S	33 0 0	113 24 0	172,971	6.0	1.20	20	1,000	1.0	.70	3.14	7
070R510S	33 0 0	113 24 0	172,957	6.1	4.68	15	1,500	1.0	.57	2.90	7

Table 7.--Concentrations of elements reported in samples of oranges and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting oranges, Palm Beach County, Florida											
040R110S	7	300	<400	<.03	<5	.90	.020	.07	<30	5	<.06
040R210S	7	100	400	.13	<5	.92	.034	.16	<30	10	<.06
040R310S	1	7	<400	<.03	<5	.75	.010	.08	<30	5	<.06
040R410S	<1	7	<400	<.03	<5	.90	.011	.06	<30	<5	<.06
040R510S	1	7	<400	<.03	<5	.79	.010	.04	<30	<5	<.06
Soils supporting oranges, Hidalgo County, Texas											
050R110S	20	7	500	1.05	7	.86	.025	1.65	<30	14	.27
050R210S	15	10	<400	.97	10	1.08	.031	1.64	<30	14	.21
050R310S	15	15	400	1.20	7	1.12	.019	1.73	<30	17	.34
050R410S	15	7	<400	1.04	7	1.24	.031	1.67	<30	13	.24
050R510S	20	10	<400	1.15	10	1.16	.016	1.64	<30	16	.33
Soils supporting oranges, Riverside County, California											
060R110S	50	15	600	2.15	20	1.08	.026	2.47	<30	19	.76
060R210S	30	7	800	2.27	20	1.25	.059	2.45	30	19	.88
060R310S	30	7	900	1.96	20	.94	.019	2.44	70	17	.69
060R410S	30	10	500	2.24	20	1.32	.030	2.51	100	21	.84
060R510S	20	7	700	2.11	15	1.39	.036	2.33	150	21	.82
Soils supporting oranges, Yuma County, Arizona											
070R110S	50	20	500	<.03	15	1.10	.024	.09	30	29	1.09
070R210S	50	10	500	2.52	15	1.05	.035	2.46	30	5	.24
070R310S	100	15	400	2.52	15	1.25	.034	2.50	<30	27	1.09
070R410S	70	15	500	2.61	15	.34	.027	2.47	<30	26	1.01
070R510S	70	10	600	2.58	20	1.21	.026	2.77	30	24	.83

Table 7.--Concentrations of elements reported in samples of oranges and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting oranges, Palm Beach County, Florida											
040R110S	70	<.07	<10	<2	<10	<20	<.08	<3	<.10	43	.47
040R210S	70	<.07	<10	<2	<10	<20	<.08	<3	<.10	45	.40
040R310S	30	<.07	<10	<2	<10	<20	<.08	<3	<.10	45	<.10
040R410S	1	<.07	<10	<2	<10	<20	<.08	<3	<.10	44	<.10
040R510S	15	<.07	<10	<2	<10	<20	.08	<3	<.10	45	<.10
Soils supporting oranges, Hidalgo County, Texas											
050R110S	150	.64	10	5	10	80	<.08	3	<.10	37	.88
050R210S	200	.68	10	5	15	60	<.08	<3	.26	37	.31
050R310S	200	.60	10	7	10	70	<.08	3	<.10	37	.15
050R410S	150	.61	10	3	10	65	<.08	<3	.29	37	.31
050R510S	200	.60	10	7	10	60	<.08	5	<.10	36	.33
Soils supporting oranges, Riverside County, California											
060R110S	700	2.70	10	15	20	105	<.08	7	.25	32	.82
060R210S	300	2.52	10	10	15	100	.10	7	<.10	30	.65
060R310S	300	2.61	10	10	20	100	<.08	7	<.10	30	.75
060R410S	300	2.52	<10	15	15	95	<.08	7	<.10	30	.74
060R510S	200	2.46	10	15	15	105	<.08	7	<.10	27	.53
Soils supporting oranges, Yuma County, Arizona											
070R110S	500	1.55	10	30	20	85	<.08	10	.25	40	.71
070R210S	300	.39	10	30	15	20	<.08	7	<.10	29	1.35
070R310S	300	1.59	<10	20	15	90	<.08	10	.31	30	.50
070R410S	300	1.69	10	15	20	90	<.08	7	<.10	29	.55
070R510S	300	1.87	<10	15	15	100	<.08	7	.12	30	.54

Table 7.--Concentrations of elements reported in samples of oranges and in samples of their supporting soils--continued

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting oranges, Palm Beach County, Florida										
040R110S	<5	--	.09	1.34	<7	<10	<1.0	41	700	8.9
040R210S	7	--	.07	1.37	<7	<10	<1.0	29	150	8.5
040R310S	<5	3.0	.09	.48	<7	<10	<1.0	<10	100	7.1
040R410S	<5	--	.05	.37	<7	<10	<1.0	<10	150	5.0
040R510S	<5	--	.07	.46	<7	<10	1.0	<10	200	7.1
Soils supporting oranges, Hidalgo County, Texas										
050R110S	100	7.9	.27	1.74	30	10	1.5	34	200	7.5
050R210S	70	5.0	.23	1.85	20	10	1.5	31	300	5.7
050R310S	70	6.0	.25	1.69	30	15	1.5	44	300	6.6
050R410S	100	4.1	.23	1.69	20	10	1.0	34	200	5.3
050R510S	100	4.4	.23	1.84	30	15	2.0	38	300	7.9
Soils supporting oranges, Riverside County, California										
060R110S	700	13.3	.32	2.36	70	20	2.0	56	150	8.4
060R210S	500	13.8	.38	2.56	70	15	1.5	55	150	8.4
060R310S	700	18.7	.33	2.04	70	15	1.5	48	150	9.0
060R410S	500	14.5	.33	2.28	70	20	2.0	60	300	9.3
060R510S	700	17.0	.34	2.19	50	15	1.5	80	100	8.0
Soils supporting oranges, Yuma County, Arizona										
070R110S	500	10.0	.06	2.44	100	30	3.0	62	200	8.9
070R210S	1,000	13.0	.35	2.30	100	15	1.5	28	150	8.8
070R310S	700	9.9	.37	2.45	100	15	1.5	67	150	8.6
070R410S	500	10.0	.39	2.51	70	15	1.5	62	150	9.0
070R510S	500	10.5	.35	2.31	100	10	1.5	56	150	8.9

Table 8.--Concentrations of elements reported in samples of peaches and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Peaches, Wayne County, New York											
02PE1100	43 15 0	77 16 0	417,680	<1	.100	<.05	1,000	15	.40	.6	<1
02PE1200	43 15 0	77 16 0	417,666	<1	.030	<.05	500	7	.30	.2	<1
02PE2100	43 15 0	77 16 0	417,645	<1	<.015	.05	300	20	.20	1.5	<1
02PE2200	43 15 0	77 16 0	417,760	<1	.020	<.05	300	30	.28	1.0	<1
02PE3100	43 15 0	77 16 0	417,721	<1	.030	<.05	300	30	.58	3.0	<1
02PE3200	43 15 0	77 16 0	417,654	<1	<.015	<.05	200	20	.16	1.0	<1
02PE4100	43 17 0	77 13 0	417,245	<1	.030	.05	150	15	.20	1.0	1
02PE4200	43 17 0	77 13 0	417,634	<1	.030	.05	300	20	.44	2.0	1
02PE5100	43 17 0	77 13 0	417,235	<1	.200	.10	300	20	.46	1.0	2
02PE5200	43 17 0	77 13 0	417,361	<1	<.015	.10	150	15	.26	.2	<1
Peaches, Yakima County, Washington											
09PE1100	46 22 0	120 2 0	417,459	<1	.070	<.05	300	30	.32	.2	<1
09PE1200	46 22 0	120 2 0	417,800	<1	.070	<.05	500	30	.38	.2	1
09PE2100	46 22 0	120 2 0	417,376	<1	.150	<.05	500	200	1.20	.4	1
09PE2200	46 22 0	120 2 0	417,277	<1	.150	<.05	700	50	.20	.2	<1
09PE3100	46 22 0	120 2 0	417,639	<1	.020	<.05	700	20	.40	<.2	<1
09PE3200	46 22 0	120 2 0	417,365	<1	.150	<.05	500	150	1.20	.6	1
09PE4100	46 22 0	120 2 0	417,339	<1	.300	.10	1,000	150	.44	<.2	1
09PE4200	46 22 0	120 2 0	417,798	<1	.050	<.05	500	15	.30	<.2	<1
09PE5100	46 22 0	120 2 0	417,374	<1	.150	<.05	500	30	.28	<.2	<1
09PE5200	46 22 0	120 2 0	417,281	<1	.700	.05	700	150	1.40	.6	3
Peaches, San Joaquin County, California											
10PE1100	38 3 0	121 6 0	417,532	<1	.050	<.05	300	20	.28	.2	<1
10PE1200	38 3 0	121 6 0	417,369	<1	.070	<.05	300	30	.14	<.2	<1
10PE2100	38 3 0	121 6 0	417,391	<1	.050	<.05	500	20	.29	<.2	<1
10PE2200	38 3 0	121 6 0	417,301	<1	.150	<.05	500	30	.16	.2	<1
10PE3100	38 3 0	121 6 0	417,507	<1	.100	<.05	300	7	.12	<.2	<1
10PE3200	38 3 0	121 6 0	417,653	<1	.030	<.05	300	10	.16	<.2	<1
10PE4100	38 3 0	121 6 0	417,302	<1	.050	<.05	300	30	.24	.2	<1
10PE4200	38 3 0	121 6 0	417,115	1	.030	--	500	10	.20	<.2	<1
10PE5100	38 3 0	121 6 0	417,078	2	<.015	<.05	300	10	.22	<.2	<1
10PE5200	38 3 0	121 6 0	417,317	<1	.150	<.05	300	20	.10	.4	<1
Peaches, Mesa County, Colorado											
11PE1100	39 7 0	108 21 0	417,431	<1	.070	.10	300	7	.70	.4	<1
11PE1200	39 7 0	108 21 0	417,598	<1	<.015	.10	300	<3	.17	<.2	<1
11PE2100	39 7 0	108 21 0	417,786	<1	.070	.20	300	7	.28	.2	<1
11PE2200	39 7 0	108 21 0	417,599	<1	<.015	.10	300	20	.30	.2	<1
11PE3100	39 7 0	108 21 0	417,382	<1	.020	.20	300	10	.38	<.2	<1
11PE3200	39 7 0	108 21 0	417,145	<1	.030	--	700	15	.36	.2	<1
11PE4100	39 7 0	108 21 0	417,152	<1	<.015	--	500	15	.32	<.2	<1
11PE4200	39 7 0	108 21 0	417,640	<1	.020	.35	300	<3	.12	<.2	<1
11PE5100	39 7 0	108 21 0	417,285	<1	.100	.30	300	<3	.28	<.2	<1
11PE5200	39 7 0	108 21 0	417,246	<1	.020	.20	300	7	.12	<.2	<1

Table 8.--Concentrations of elements reported in samples of peaches and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Peaches, Wayne County, New York											
02PE1100	<1.5	100	.030	<.01	12.0	<4	1.5	50	<7	.0100	<10
02PE1200	3.0	50	.015	<.01	12.0	<4	1.0	20	<7	.0050	<10
02PE2100	2.0	50	.015	<.01	15.0	<4	.7	70	<7	.0050	<10
02PE2200	<1.5	100	.020	.02	20.0	<4	.7	70	<7	.0150	<10
02PE3100	<1.5	200	.030	.01	27.0	<4	1.5	150	<7	.0100	15
02PE3200	<1.5	30	.007	<.01	13.0	<4	.7	70	<7	.0100	<10
02PE4100	<1.5	50	.030	<.01	15.0	<4	1.0	70	<7	.0200	<10
02PE4200	2.0	200	.070	.01	31.0	<4	1.0	70	<7	.0250	10
02PE5100	7.0	150	.050	.01	36.0	<4	1.0	100	<7	.0350	15
02PE5200	15.0	70	.020	.01	16.0	<4	1.0	30	<7	.0300	15
Peaches, Yakima County, Washington											
09PE1100	2.0	70	.050	<.01	15.0	<4	1.0	70	<7	.0150	15
09PE1200	10.0	70	.050	.01	20.0	<4	1.5	70	<7	.0100	15
09PE2100	5.0	150	.150	<.01	43.0	<4	1.5	100	<7	.0350	30
09PE2200	3.0	70	.100	<.01	8.5	<4	1.5	100	<7	.0100	15
09PE3100	2.0	30	.030	<.01	13.0	<4	1.0	50	<7	.0100	<10
09PE3200	2.0	70	.070	<.01	36.0	4	2.0	150	<7	.0300	15
09PE4100	7.0	100	.100	<.01	33.0	<4	2.0	100	<7	.0450	70
09PE4200	<1.5	50	.050	<.01	14.0	<4	.7	30	<7	.0100	<10
09PE5100	2.0	50	.070	<.01	13.0	<4	1.5	50	<7	.0200	<10
09PE5200	7.0	100	.200	<.01	36.0	<4	3.0	150	<7	.0450	70
Peaches, San Joaquin County, California											
10PE1100	<1.5	70	.070	<.01	31.0	<4	1.0	30	<7	.0260	15
10PE1200	3.0	70	.020	<.01	11.0	<4	1.0	30	<7	.0150	15
10PE2100	<1.5	100	.050	<.01	28.0	<4	1.0	30	<7	.0150	15
10PE2200	3.0	50	.050	<.01	35.0	<4	1.5	50	<7	.0200	10
10PE3100	<1.5	30	.030	.01	11.0	<4	.7	30	<7	.0200	<10
10PE3200	2.0	30	.015	<.01	16.0	<4	.7	15	<7	.0075	<10
10PE4100	<1.5	70	.030	<.01	22.0	<4	1.5	50	<7	.0250	15
10PE4200	<1.5	70	.030	<.01	20.0	<4	1.0	15	<7	.0200	<10
10PE5100	1.5	30	.015	<.01	18.0	<4	.7	20	<7	.0240	<10
10PE5200	2.0	50	.070	<.01	14.0	<4	1.5	50	<7	.0150	15
Peaches, Mesa County, Colorado											
11PE1100	<1.5	70	.030	<.01	33.0	<4	.7	20	<7	.0300	<10
11PE1200	<1.5	20	.007	<.01	14.0	<4	1.5	30	<7	.0150	<10
11PE2100	<1.5	50	.020	<.01	19.0	<4	.7	30	<7	.0150	<10
11PE2200	<1.5	30	.020	<.01	18.0	<4	2.0	30	<7	.0200	<10
11PE3100	<1.5	30	.020	<.01	19.0	<4	1.0	20	<7	.0100	<10
11PE3200	7.0	50	.020	<.01	23.0	<4	1.0	30	7	.0250	10
11PE4100	<1.5	30	.010	<.01	17.0	<4	1.0	15	<7	.0350	<10
11PE4200	<1.5	20	.007	<.01	12.0	<4	.5	15	<7	.0050	<10
11PE5100	<1.5	30	.015	<.01	17.0	<4	.7	30	<7	.0100	<10
11PE5200	<1.5	30	.007	<.01	11.0	<4	1.0	20	<7	.0150	<10

Table 8.--Concentrations of elements reported in samples of peaches and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
				Peaches, Wayne County, New York						
02PE1100	1.80	<20	.050	<.005	15	<.0005	70	<20	5.0	10.4
02PE1200	1.20	<20	.035	<.005	15	<.0005	60	<20	3.0	12.2
02PE2100	1.20	<20	.060	<.005	30	<.0005	60	<20	9.6	6.7
02PE2200	1.20	<20	.075	<.005	30	<.0005	100	<20	11.0	5.9
02PE3100	1.80	<20	.120	.010	70	<.0005	210	<20	6.7	4.0
02PE3200	.32	<20	.070	.005	20	<.0005	50	<20	14.0	7.5
02PE4100	.90	<20	.055	.005	30	<.0005	150	<20	8.8	8.9
02PE4200	2.40	20	.100	.020	30	.0015	210	<20	5.7	3.6
02PE5100	2.40	<20	.120	.010	30	.0005	250	<20	6.5	4.2
02PE5200	1.80	<20	.045	<.005	30	.0030	160	<20	7.7	11.6
				Peaches, Yakima County, Washington						
09PE1100	2.40	<20	.035	<.005	70	.0070	130	<20	3.8	14.2
09PE1200	2.40	<20	.035	.005	50	.0030	110	<20	5.7	15.6
09PE2100	4.80	20	.035	.010	150	.0100	250	<20	2.0	12.2
09PE2200	2.40	<20	.025	<.005	70	.0100	120	<20	4.4	15.8
09PE3100	1.20	<20	.020	<.005	30	.0015	45	<20	6.4	14.3
09PE3200	2.40	<20	.035	<.005	100	.0070	150	<20	3.6	12.5
09PE4100	3.60	<20	.020	.005	300	.0150	200	<20	1.5	16.5
09PE4200	1.20	<20	.025	.005	30	.0015	50	<20	9.0	15.1
09PE5100	2.40	<20	.025	.010	70	.0070	85	<20	4.4	13.7
09PE5200	3.60	<20	.045	.010	200	.0200	300	<20	3.3	12.2
				Peaches, San Joaquin County, California						
10PE1100	2.40	<20	.070	.005	50	.0030	130	<20	4.7	6.8
10PE1200	.60	<20	.035	<.005	70	.0020	35	<20	5.2	14.8
10PE2100	3.60	<20	.055	.005	70	.0020	120	<20	6.1	6.4
10PE2200	1.80	<20	.065	<.005	70	.0050	120	<20	7.1	9.8
10PE3100	1.20	<20	.050	<.005	15	.0015	40	<20	4.3	10.4
10PE3200	1.20	<20	.035	<.005	20	.0007	55	<20	5.5	15.4
10PE4100	2.40	<20	.050	<.005	100	.0020	110	<20	6.3	12.4
10PE4200	1.20	<20	.060	<.005	30	<.0005	55	<20	8.2	9.9
10PE5100	1.20	<20	.040	<.005	30	<.0005	50	30	7.3	17.1
10PE5200	1.50	<20	.060	<.005	50	.0030	80	<20	6.3	9.1
				Peaches, Mesa County, Colorado						
11PE1100	1.80	<20	.040	.010	100	.0007	140	<20	5.5	9.9
11PE1200	.60	<20	.045	.010	30	<.0005	65	<20	11.0	10.2
11PE2100	1.20	<20	.040	.010	30	<.0005	60	<20	5.5	10.1
11PE2200	1.20	<20	.035	.010	50	<.0005	100	<20	7.2	12.1
11PE3100	1.20	<20	.035	.020	70	<.0005	80	<20	7.0	11.7
11PE3200	1.20	<20	.030	.010	100	.0007	60	30	5.4	13.0
11PE4100	.60	<20	.035	.010	50	<.0005	65	<20	11.0	10.0
11PE4200	.60	<20	.035	.020	20	<.0005	30	<20	15.0	10.6
11PE5100	1.20	<20	.025	.020	30	<.0005	70	<20	7.1	12.6
11PE5200	1.20	<20	.020	.010	70	.0007	90	30	8.4	13.7

Table 8.--Concentrations of elements reported in samples of peaches and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting peaches, Wayne County, New York											
02PE110S	43 15 0	77 16 0	173,080	4.6	2.61	30	700	<1.0	2.1	.73	7
02PE210S	43 15 0	77 16 0	173,067	3.6	22.25	20	300	<1.0	2.7	.60	5
02PE310S	43 15 0	77 16 0	173,097	3.7	21.03	<10	300	<1.0	3.1	.65	5
02PE410S	43 17 0	77 13 0	172,876	4.1	107.70	20	300	<1.0	2.8	.64	5
02PE510S	43 17 0	77 13 0	172,871	4.1	62.28	20	500	<1.0	3.0	.56	5
Soils supporting peaches, Yakima County, Washington											
09PE110S	46 22 0	120 2 0	172,976	7.0	2.35	<10	500	<1.0	1.6	3.18	15
09PE210S	46 22 0	120 2 0	172,940	7.0	3.81	<10	500	1.0	1.5	3.05	15
09PE310S	46 22 0	120 2 0	173,065	6.8	2.35	<10	500	<1.0	1.8	3.01	15
09PE410S	46 22 0	120 2 0	172,920	6.1	2.60	20	700	1.0	1.7	2.73	10
09PE510S	46 22 0	120 2 0	172,939	6.5	3.66	<10	500	1.0	1.5	3.13	15
Soils supporting peaches, San Joaquin County, California											
10PE110S	38 3 0	121 6 0	173,016	6.3	4.26	20	700	<1.0	1.3	1.96	20
10PE210S	38 3 0	121 6 0	172,947	6.5	3.73	20	700	1.0	1.2	1.97	15
10PE310S	38 3 0	121 6 0	173,001	6.4	4.36	20	700	1.0	1.5	2.01	20
10PE410S	38 3 0	121 6 0	172,902	6.6	4.52	20	700	<1.0	1.3	1.90	15
10PE510S	38 3 0	121 6 0	172,798	6.6	6.55	<10	700	1.0	1.5	1.90	15
Soils supporting peaches, Mesa County, Colorado											
11PE110S	39 7 0	108 21 0	172,963	5.3	.26	70	500	1.0	2.7	2.46	7
11PE210S	39 7 0	108 21 0	173,136	5.6	14.70	70	500	1.5	2.8	2.36	5
11PE310S	39 7 0	108 21 0	172,943	5.2	18.78	50	500	1.0	2.8	2.09	7
11PE410S	39 7 0	108 21 0	172,834	5.2	19.87	30	500	1.0	3.0	2.12	5
11PE510S	39 7 0	108 21 0	172,895	4.7	69.06	70	500	1.0	2.8	2.19	5

Table 8.--Concentrations of elements reported in samples of peaches and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting peaches, Wayne County, New York											
02PE110S	30	15	400	2.1	15	1.04	.040	1.5	<30	23	.43
02PE210S	20	15	<400	1.7	10	1.40	.053	1.4	<30	18	.34
02PE310S	20	20	400	1.8	15	1.27	.066	1.5	<30	17	.35
02PE410S	30	20	600	2.2	15	1.34	.061	1.4	30	25	.46
02PE510S	30	30	<400	1.8	15	1.32	.085	1.4	<30	23	.39
Soils supporting peaches, Yakima County, Washington											
09PE110S	50	30	500	4.3	15	1.05	.032	1.2	<30	21	1.25
09PE210S	50	30	500	4.4	20	1.45	.038	1.3	<30	22	1.25
09PE310S	50	70	400	4.4	20	1.06	.052	1.3	70	22	1.30
09PE410S	100	30	500	4.2	20	1.27	.063	1.4	<30	23	1.21
09PE510S	50	30	500	4.3	20	1.51	.038	1.4	<30	22	1.28
Soils supporting peaches, San Joaquin County, California											
10PE110S	200	150	500	4.4	20	1.29	.034	1.6	30	24	1.19
10PE210S	200	50	<400	4.3	20	1.42	.042	1.6	<30	21	1.12
10PE310S	200	150	400	4.4	20	1.48	.034	1.6	<30	20	1.17
10PE410S	70	70	<400	4.3	15	1.53	.035	1.6	<30	21	1.15
10PE510S	100	150	1,100	4.5	15	1.56	.030	1.6	<30	22	1.16
Soils supporting peaches, Mesa County, Colorado											
11PE110S	50	20	1,600	2.4	15	<.10	.054	2.0	<30	36	1.28
11PE210S	70	30	700	2.4	15	1.24	.026	1.9	30	39	1.32
11PE310S	70	20	600	2.3	15	1.47	.058	2.0	30	38	1.24
11PE410S	50	30	700	2.2	15	1.44	.030	2.0	30	40	1.30
11PE510S	50	20	700	2.2	15	.63	.043	1.9	<30	35	1.30

Table 8.--Concentrations of elements reported in samples of peaches and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting peaches, Wayne County, New York											
02PE110S	500	1.08	10	15	20	50	.10	7	<.10	33	.15
02PE210S	300	.98	<10	7	70	40	<.08	5	<.10	33	.77
02PE310S	500	.99	10	7	70	40	<.08	5	<.10	35	.69
02PE410S	150	1.03	10	10	300	55	.10	5	<.10	32	1.22
02PE510S	200	1.13	<10	10	200	65	<.08	5	.16	31	1.56
Soils supporting peaches, Yakima County, Washington											
09PE110S	500	1.88	10	15	10	45	.41	15	<.10	27	1.09
09PE210S	500	1.91	10	20	10	50	.17	15	.15	27	1.49
09PE310S	500	1.87	<10	30	10	50	.13	15	.11	28	<.10
09PE410S	500	1.87	10	50	10	55	.09	15	<.10	27	1.40
09PE510S	500	1.91	10	20	15	50	.28	15	.22	26	1.43
Soils supporting peaches, San Joaquin County, California											
10PE110S	700	1.03	10	70	15	85	<.08	20	<.10	28	.79
10PE210S	300	.98	10	30	10	70	<.08	15	<.10	27	.93
10PE310S	1,000	1.02	<10	100	15	80	<.08	20	<.10	30	1.17
10PE410S	500	1.05	10	30	10	80	<.08	15	<.10	30	.64
10PE510S	500	.96	10	30	30	80	.09	15	<.10	29	.83
Soils supporting peaches, Mesa County, Colorado											
11PE110S	150	.69	10	15	70	105	.15	7	.43	30	.45
11PE210S	150	.63	<10	20	50	85	.09	7	<.10	31	.95
11PE310S	150	.66	10	20	70	95	.09	7	.20	29	1.67
11PE410S	150	.67	<10	15	50	95	.10	7	.14	30	.94
11PE510S	150	.68	10	15	300	105	<.08	7	<.10	30	.57

Table 8.--Concentrations of elements reported in samples of peaches and in samples of their supporting soils--continued

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting peaches, Wayne County, New York										
02PE110S	200	5.5	.42	2.1	50	20	3.0	60	500	6.0
02PE210S	100	3.3	.34	1.9	30	10	1.5	53	300	5.0
02PE310S	150	4.6	.36	1.9	50	15	1.5	55	200	4.9
02PE410S	150	6.8	.46	2.0	50	15	1.5	70	200	6.0
02PE510S	150	9.5	.41	2.0	50	20	3.0	78	200	5.4
Soils supporting peaches, Yakima County, Washington										
09PE110S	500	9.7	.65	2.2	150	15	1.5	86	100	4.3
09PE210S	500	9.7	.63	2.2	150	15	2.0	82	150	5.8
09PE310S	300	7.4	.63	1.9	150	20	2.0	85	200	6.4
09PE410S	500	9.9	.61	2.2	150	20	2.0	82	150	5.6
09PE510S	500	8.2	.62	2.3	150	15	2.0	77	150	6.4
Soils supporting peaches, San Joaquin County, California										
10PE110S	300	7.3	.57	2.6	200	20	--	97	100	6.8
10PE210S	200	11.0	.57	2.2	150	15	1.5	78	100	7.0
10PE310S	200	6.0	.56	3.6	150	15	--	95	150	6.8
10PE410S	200	7.3	.61	2.4	150	15	1.5	89	100	6.8
10PE510S	200	12.0	.61	2.2	150	15	1.5	95	70	6.8
Soils supporting peaches, Mesa County, Colorado										
11PE110S	100	18.9	.31	3.4	70	15	1.5	140	100	7.3
11PE210S	150	8.9	.33	4.0	150	30	2.0	135	150	8.0
11PE310S	150	14.5	.30	3.9	100	15	2.0	130	100	7.5
11PE410S	200	13.0	.33	3.6	100	15	1.5	122	100	7.7
11PE510S	100	12.4	.29	3.6	70	15	1.5	110	150	7.8

Table 9.--Concentrations of elements reported in samples of pears and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Pears, Berrien County, Michigan											
01PA1100	42 3 0	86 22 0	417,636	<1	.020	<.05	500	200	1.80	.4	<1
01PA1200	42 3 0	86 22 0	417,649	<1	.700	.05	700	300	2.60	1.5	1
01PA2100	42 3 0	86 22 0	417,718	<1	.030	<.05	500	150	1.20	.2	<1
01PA2200	42 3 0	86 22 0	417,583	<1	.030	<.05	300	150	.92	.4	<1
01PA3100	41 57 0	86 21 0	417,366	<1	<.015	<.05	300	200	2.60	.2	<1
01PA3200	41 57 0	86 21 0	417,290	<1	.020	<.05	500	200	3.20	.4	<1
01PA4100	41 58 0	86 18 0	417,806	<1	.050	<.05	1,000	500	4.80	.4	2
01PA4200	41 58 0	86 18 0	417,498	<1	.020	<.05	300	200	2.60	.2	<1
01PA5100	41 58 0	86 18 0	417,458	<1	.020	<.05	300	700	1.90	1.0	<1
01PA5200	41 58 0	86 18 0	417,239	<1	.300	<.05	300	300	1.20	.4	<1
Pears, Wayne County, New York											
02PA1100	43 15 0	77 16 0	417,629	<1	<.015	<.05	300	150	1.40	.2	<1
02PA1200	43 15 0	77 16 0	417,211	<1	.050	.05	500	150	2.40	.8	<1
02PA2100	43 14 0	76 52 0	417,758	<1	.070	.20	500	200	3.30	.6	1
02PA2200	43 14 0	76 52 0	417,659	<1	.030	.55	300	200	2.60	.4	<1
02PA3100	43 14 0	76 52 0	417,347	<1	.030	.25	300	150	2.00	.4	<1
02PA3200	43 14 0	76 52 0	417,238	<1	.050	.15	300	200	4.00	3.0	1
02PA4100	43 17 0	77 13 0	417,129	<1	.020	--	150	100	2.20	1.5	<1
02PA4200	43 17 0	77 13 0	417,248	<1	.020	<.05	300	150	1.80	1.0	<1
02PA5100	43 17 0	77 13 0	417,295	<1	.200	<.05	700	300	3.60	.4	1
02PA5200	43 17 0	77 13 0	417,218	<1	.200	<.05	500	300	5.40	.8	3
Pears, Yakima County, Washington											
09PA1100	46 28 0	120 23 0	417,107	<1	.070	<.05	500	70	.74	.6	<1
09PA1200	46 28 0	120 23 0	417,625	<1	<.015	<.05	500	150	1.40	<.2	<1
09PA2100	46 28 0	120 23 0	417,477	<1	.030	.05	1,000	100	1.40	.4	1
09PA2200	46 28 0	120 23 0	417,447	<1	.070	.05	700	200	1.50	.4	<1
09PA3100	46 28 0	120 23 0	417,176	<1	.030	--	700	200	3.00	<.2	2
09PA3200	46 28 0	120 23 0	417,121	<1	.150	--	700	150	1.80	<.2	1
09PA4100	46 28 0	120 23 0	417,821	<1	.020	<.05	500	70	.76	.2	1
09PA4200	46 28 0	120 23 0	417,749	<1	.020	<.05	500	100	2.40	.2	1
09PA5100	46 28 0	120 23 0	417,463	<1	<.015	.05	700	100	1.10	.4	3
09PA5200	46 28 0	120 23 0	417,419	<1	.100	<.05	300	100	.94	.2	2
Pears, San Joaquin County, California											
10PA1100	38 3 0	121 2 0	417,436	<1	.020	<.05	300	150	2.40	.2	1
10PA1200	38 3 0	121 2 0	417,737	<1	.030	<.05	300	50	.98	<.2	<1
10PA2100	38 3 0	121 2 0	417,600	<1	.050	<.05	500	200	4.00	.2	1
10PA2200	38 3 0	121 2 0	417,736	<1	.020	<.05	150	30	.52	<.2	<1
10PA3100	38 3 0	121 2 0	417,509	<1	.020	<.05	300	100	1.10	<.2	<1
10PA3200	38 3 0	121 2 0	417,814	<1	.020	<.05	300	70	.88	.2	1
10PA4100	38 3 0	121 2 0	417,321	<1	.050	<.05	300	150	2.20	<.2	1
10PA4200	38 3 0	121 2 0	417,537	<1	<.015	<.05	300	70	1.50	<.2	1
10PA5100	38 3 0	121 2 0	417,114	<1	.070	--	500	150	3.40	<.2	1
10PA5200	38 3 0	121 2 0	417,587	<1	<.015	<.05	700	150	2.80	.2	1

Table 9.--Concentrations of elements reported in samples of pears and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Pears, Berrien County, Michigan											
01PA1100	<1.5	70	.050	<.01	19	<4	1.5	100	<7	.045	15
01PA1200	15.0	150	.100	.01	33	<4	2.0	150	<7	.140	30
01PA2100	<1.5	100	.015	<.01	17	<4	2.0	50	<7	.015	10
01PA2200	<1.5	70	.015	<.01	16	<4	1.5	30	<7	.015	10
01PA3100	<1.5	150	.020	<.01	34	<4	1.5	100	<7	.060	<10
01PA3200	2.0	300	.050	<.01	30	<4	2.0	150	<7	.060	<10
01PA4100	2.0	300	.100	.01	42	<4	3.0	150	<7	.040	15
01PA4200	<1.5	70	.030	<.01	25	<4	1.5	100	<7	.030	<10
01PA5100	2.0	150	.050	.01	21	<4	1.5	150	<7	.030	15
01PA5200	3.0	150	.050	<.01	22	<4	1.0	150	<7	.035	15
Pears, Wayne County, New York											
02PA1100	<1.5	50	.010	<.01	18	<4	1.5	20	<7	.020	<10
02PA1200	<1.5	70	.015	.01	24	<4	2.0	50	<7	.020	<10
02PA2100	<1.5	200	.030	<.01	31	<4	2.0	150	<7	.020	10
02PA2200	<1.5	100	.020	<.01	26	<4	1.5	150	<7	.030	<10
02PA3100	<1.5	200	.030	<.01	25	<4	1.5	100	<7	.030	<10
02PA3200	<1.5	200	.050	<.01	33	<4	1.5	150	<7	.035	15
02PA4100	1.5	30	.030	<.01	36	<4	1.5	100	<7	.260	<10
02PA4200	2.0	200	.030	<.01	28	<4	2.0	100	<7	.040	<10
02PA5100	7.0	200	.050	<.01	26	<4	2.0	100	<7	.060	10
02PA5200	5.0	70	.070	<.01	35	<4	2.0	100	<7	.050	<10
Pears, Yakima County, Washington											
09PA1100	1.5	50	.020	<.01	21	<4	1.0	50	<7	.048	<10
09PA1200	<1.5	50	.020	<.01	16	<4	1.5	100	<7	.035	<10
09PA2100	<1.5	100	.030	<.01	24	<4	1.5	50	<7	.035	<10
09PA2200	3.0	150	.070	.01	19	<4	1.5	70	<7	.035	15
09PA3100	5.0	200	.030	<.01	30	5	2.0	150	<7	.240	10
09PA3200	<1.5	100	.030	<.01	23	<4	2.0	100	<7	.040	10
09PA4100	<1.5	100	.030	<.01	15	<4	1.5	50	<7	.025	<10
09PA4200	2.0	100	.050	.01	28	<4	1.5	100	<7	.035	<10
09PA5100	<1.5	200	.050	<.01	27	<4	1.5	70	<7	.035	15
09PA5200	<1.5	150	.030	<.01	17	<4	1.5	100	<7	.030	<10
Pears, San Joaquin County, California											
10PA1100	<1.5	300	.030	<.01	22	<4	2.0	100	<7	.050	<10
10PA1200	<1.5	100	.015	<.01	15	<4	.7	100	<7	.035	<10
10PA2100	<1.5	150	.030	<.01	34	<4	2.0	100	<7	.085	<10
10PA2200	<1.5	100	.015	.01	12	<4	1.0	50	<7	.020	<10
10PA3100	<1.5	70	.020	<.01	14	<4	1.5	50	<7	.035	<10
10PA3200	<1.5	150	.020	<.01	19	<4	1.0	50	<7	.025	<10
10PA4100	2.0	150	.050	<.01	27	<4	2.0	150	7	.660	10
10PA4200	<1.5	70	.015	<.01	18	<4	1.5	70	<7	.270	<10
10PA5100	1.5	150	.030	<.01	35	<4	1.5	100	<7	1.100	<10
10PA5200	<1.5	100	.030	<.01	22	<4	1.5	70	7	.150	<10

Table 9.--Concentrations of elements reported in samples of pears and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
Pears, Berrien County, Michigan										
01PA1100	1.8	<20	.030	.010	70	.0015	400	<20	2.5	14.4
01PA1200	3.6	20	.030	.010	100	.0200	720	20	1.7	17.2
01PA2100	.6	<20	.030	.010	50	<.0005	10	<20	3.2	11.3
01PA2200	1.2	<20	.035	.010	30	<.0005	120	<20	3.6	12.6
01PA3100	1.8	<20	.020	<.005	200	<.0005	140	<20	2.3	14.5
01PA3200	2.4	<20	.035	<.005	150	.0007	200	<20	1.9	14.6
01PA4100	2.4	30	.035	.005	150	.0010	300	<20	1.5	13.2
01PA4200	1.2	<20	.030	<.005	300	<.0005	100	<20	2.7	15.5
01PA5100	1.8	20	.050	.005	200	.0007	350	<20	2.6	12.1
01PA5200	1.8	20	.020	<.005	150	.0020	260	<20	2.2	14.6
Pears, Wayne County, New York										
02PA1100	1.8	<20	.030	.010	50	<.0005	130	<20	2.1	12.9
02PA1200	3.6	<20	.045	.005	150	<.0005	290	<20	2.6	12.0
02PA2100	2.4	<20	.030	.005	300	.0007	240	30	2.3	10.9
02PA2200	1.8	30	.040	.005	300	<.0005	160	<20	3.5	11.1
02PA3100	2.4	30	.025	<.005	200	<.0005	210	<20	2.0	13.7
02PA3200	2.4	20	.030	<.005	500	.0050	290	<20	1.9	12.8
02PA4100	1.8	<20	.050	.020	70	<.0005	190	<20	2.3	12.2
02PA4200	2.4	<20	.040	.005	150	.0005	180	<20	1.7	15.6
02PA5100	2.1	<20	.030	<.005	300	.0070	220	<20	2.1	11.4
02PA5200	2.4	<20	.050	.005	300	.0070	270	<20	2.2	13.4
Pears, Yakima County, Washington										
09PA1100	1.2	<20	.030	<.005	70	.0007	100	<20	2.2	13.4
09PA1200	1.2	<20	.025	<.005	150	<.0005	70	20	1.9	14.8
09PA2100	1.8	<20	.020	<.005	100	<.0005	180	<20	1.8	13.9
09PA2200	2.4	<20	.030	.005	200	.0030	260	<20	1.9	13.7
09PA3100	1.8	<20	.030	.010	300	.0030	150	<20	1.8	14.3
09PA3200	1.2	<20	.030	.020	300	<.0005	85	<20	1.7	14.8
09PA4100	1.2	<20	.030	.010	70	<.0005	70	<20	2.3	13.5
09PA4200	1.2	<20	.020	.020	200	.0070	120	<20	1.7	15.9
09PA5100	2.4	<20	.020	.020	200	<.0005	230	<20	1.9	15.3
09PA5200	1.2	<20	.030	.010	150	.0070	100	<20	2.1	14.0
Pears, San Joaquin County, California										
10PA1100	2.4	<20	.020	<.005	300	.0010	220	<20	2.1	16.7
10PA1200	.6	<20	.030	<.005	70	<.0005	150	<20	3.4	17.2
10PA2100	2.4	<20	.045	.005	500	.0010	210	<20	3.2	12.7
10PA2200	.6	<20	.030	<.005	70	<.0005	100	<20	3.7	16.3
10PA3100	1.2	<20	.030	.010	150	<.0005	40	<20	2.0	15.0
10PA3200	1.2	<20	.025	.005	70	<.0005	65	<20	3.3	17.6
10PA4100	2.4	<20	.030	.005	500	.0020	120	<20	1.9	17.0
10PA4200	1.2	<20	.035	<.005	150	<.0005	60	<20	3.2	16.5
10PA5100	2.4	<20	.035	<.005	500	<.0005	140	<20	1.8	18.3
10PA5200	1.8	<20	.040	.005	300	<.0005	65	<20	3.2	13.9

Table 9.--Concentrations of elements reported in samples of pears and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
				Pears, Mesa County, Colorado							
11PA1100	39 4 0	108 27 0	417,125	<1	.050	--	500	150	1.80	<.2	2
11PA1200	39 4 0	108 27 0	417,579	<1	<.015	<.05	300	30	.82	.2	1
11PA2100	39 4 0	108 27 0	417,421	<1	.100	<.05	700	200	1.10	.2	3
11PA2200	39 4 0	108 27 0	417,661	<1	<.015	<.05	500	150	.90	<.2	3
11PA3100	39 4 0	108 27 0	417,456	<1	.030	<.05	700	150	1.30	.2	4
11PA3200	39 4 0	108 27 0	417,484	<1	.030	<.05	500	100	1.10	.2	3
11PA4100	39 4 0	108 27 0	417,519	<1	.030	<.05	500	150	2.00	<.2	3
11PA4200	39 4 0	108 27 0	417,516	<1	.150	<.05	700	300	3.80	.4	3
11PA5100	39 4 0	108 27 0	417,437	<1	.070	<.05	500	300	4.00	.6	10
11PA5200	39 4 0	108 27 0	417,396	<1	.070	<.05	700	500	4.00	.6	4

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
				Pears, Mesa County, Colorado							
11PA1100	<1.5	50	.020	<.01	28	7	1.5	70	7	.110	<10
11PA1200	5.0	100	.007	<.01	10	5	.7	30	<7	.040	70
11PA2100	100.0	70	.050	<.01	16	9	1.5	100	15	.090	<10
11PA2200	<1.5	50	.010	<.01	13	5	1.0	50	<7	.055	<10
11PA3100	7.0	100	.030	<.01	19	7	1.0	30	10	.110	10
11PA3200	<1.5	70	.030	<.01	15	5	1.0	70	<7	.090	<10
11PA4100	<1.5	70	.030	<.01	19	6	1.5	100	<7	.080	<10
11PA4200	<1.5	100	.030	<.01	38	10	1.5	100	15	.110	<10
11PA5100	3.0	100	.030	<.01	35	8	2.0	100	10	.120	<10
11PA5200	<1.5	100	.050	<.01	40	17	3.0	150	20	.160	<10

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
				Pears, Mesa County, Colorado						
11PA1100	1.2	<20	.030	.020	300	.0030	100	<20	2.6	16.3
11PA1200	.6	<20	.025	.020	150	<.0005	85	<20	2.5	16.6
11PA2100	.6	<20	.015	.005	500	.0020	80	<20	1.0	18.9
11PA2200	.6	<20	.025	.010	150	<.0005	100	<20	1.8	16.6
11PA3100	1.2	<20	.015	.010	200	.0010	180	<20	1.2	20.0
11PA3200	1.2	<20	.020	.010	200	<.0005	120	<20	1.4	19.8
11PA4100	1.8	<20	.035	.020	150	.0015	130	<20	1.7	17.4
11PA4200	3.6	<20	.025	.010	700	.0007	280	<20	1.8	19.1
11PA5100	3.0	<20	.025	.020	300	.0015	350	<20	1.5	18.5
11PA5200	2.4	<20	.025	.010	500	.0050	280	<20	1.8	17.6

Table 9.--Concentrations of elements reported in samples of pears and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting pears, Berrien County, Michigan											
01PA110S	42 3 0	86 22 0	173,063	3.0	7.6	50	500	<1.0	1.24	.35	7
01PA210S	42 3 0	86 22 0	173,096	3.9	7.9	50	500	1.0	1.74	.34	7
01PA310S	41 57 0	86 21 0	172,934	3.9	9.2	30	500	<1.0	.84	.30	7
01PA410S	41 58 0	86 18 0	173,144	2.9	4.0	50	500	<1.0	1.29	.38	5
01PA510S	41 58 0	86 18 0	172,975	2.2	2.8	20	300	<1.0	1.22	.29	<3
Soils supporting pears, Wayne County, New York											
02PA110S	43 15 0	77 16 0	173,060	3.6	1.1	20	300	<1.0	2.02	1.20	3
02PA210S	43 14 0	76 52 0	173,118	4.9	23.9	50	300	<1.0	1.81	.49	7
02PA310S	43 14 0	76 52 0	172,926	4.9	10.5	30	500	1.0	2.22	.58	10
02PA410S	43 17 0	77 13 0	172,824	3.8	5.0	20	200	<1.0	2.66	.36	5
02PA510S	43 17 0	77 13 0	172,899	4.5	11.5	30	500	<1.0	1.35	1.17	7
Soils supporting pears, Yakima County, Washington											
09PA110S	46 28 0	120 23 0	172,811	7.0	13.7	<10	500	1.0	2.81	2.66	10
09PA210S	46 28 0	120 23 0	172,987	7.1	26.0	<10	700	1.0	2.36	2.80	15
09PA310S	46 28 0	120 23 0	172,843	7.2	28.7	<10	500	1.5	2.35	2.66	10
09PA410S	46 28 0	120 23 0	173,154	3.7	26.0	<10	500	1.0	1.84	.47	10
09PA510S	46 28 0	120 23 0	172,980	7.4	24.6	15	700	1.0	2.50	2.59	15
Soils supporting pears, San Joaquin County, California											
10PA110S	38 3 0	121 2 0	172,966	7.9	16.0	30	700	1.0	2.17	1.70	15
10PA210S	38 3 0	121 2 0	173,045	8.0	15.4	20	1,000	1.0	2.58	1.84	20
10PA310S	38 3 0	121 2 0	173,002	7.2	11.8	<10	1,000	1.0	3.29	2.16	20
10PA410S	38 3 0	121 2 0	172,911	6.7	14.9	30	1,000	1.0	2.32	1.75	15
10PA510S	38 3 0	121 2 0	172,815	7.7	12.2	20	700	1.0	2.62	1.82	15
Soils supporting pears, Mesa County, Colorado											
11PA110S	39 4 0	108 27 0	172,821	4.0	8.6	30	1,000	1.0	3.79	6.48	5
11PA210S	39 4 0	108 27 0	172,960	5.0	10.3	30	500	1.0	2.85	4.05	5
11PA310S	39 4 0	108 27 0	172,974	5.4	11.2	30	500	1.0	2.77	4.33	7
11PA410S	39 4 0	108 27 0	173,007	4.2	8.4	20	700	3.0	3.01	4.79	7
11PA510S	39 4 0	108 27 0	172,967	4.5	7.4	30	500	1.0	2.31	3.55	7

Table 9.--Concentrations of elements reported in samples of pears and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting pears, Berrien County, Michigan											
01PA110S	30	50	<400	1.50	10	1.47	.077	1.6	<30	20	.27
01PA210S	30	30	<400	1.68	10	1.59	.031	1.9	<30	23	.33
01PA310S	30	15	<400	1.88	15	1.39	.057	2.0	<30	26	.37
01PA410S	20	30	<400	1.07	7	1.13	.031	1.6	<30	11	.17
01PA510S	15	15	<400	.96	5	1.05	.038	1.4	<30	10	.16
Soils supporting pears, Wayne County, New York											
02PA110S	15	7	<400	1.33	10	.87	.049	1.3	<30	21	.42
02PA210S	30	20	500	2.26	10	1.17	.047	1.6	<30	28	.50
02PA310S	50	20	400	2.52	15	1.32	.096	1.7	30	34	.59
02PA410S	20	15	<400	1.80	10	1.39	.060	1.2	<30	28	.36
02PA510S	30	10	600	2.31	15	1.52	.061	1.5	<30	34	.63
Soils supporting pears, Yakima County, Washington											
09PA110S	50	30	900	3.82	15	1.23	.040	1.5	30	20	1.11
09PA210S	70	50	600	3.86	20	.93	.038	1.5	<30	22	1.17
09PA310S	50	50	1,200	4.01	20	1.21	.028	1.6	30	22	1.19
09PA410S	70	70	400	1.24	20	1.10	.019	1.7	<30	28	1.14
09PA510S	50	30	600	3.85	20	.71	.028	1.6	30	25	1.09
Soils supporting pears, San Joaquin County, California											
10PA110S	100	150	500	5.04	20	1.45	.068	1.8	<30	30	1.39
10PA210S	100	300	500	5.10	20	1.70	.057	1.8	<30	27	1.36
10PA310S	200	300	700	5.04	20	1.32	.057	1.8	<30	27	1.34
10PA410S	100	300	700	4.71	20	1.59	.101	1.8	<30	25	1.36
10PA510S	100	200	500	4.80	20	1.16	.090	1.7	30	28	1.36
Soils supporting pears, Mesa County, Colorado											
11PA110S	50	15	700	2.39	15	.80	.040	1.6	30	25	1.07
11PA210S	30	30	600	2.72	15	1.22	.196	2.0	<30	29	1.06
11PA310S	50	20	600	2.66	15	1.27	.033	2.0	<30	33	1.16
11PA410S	70	100	500	2.36	15	1.09	.026	1.9	<30	25	.94
11PA510S	50	20	1,000	2.43	15	1.21	.019	1.9	30	27	1.01

Table 9.--Concentrations of elements reported in samples of pears and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting pears, Berrien County, Michigan											
01PA110S	1,000	1.29	10	15	20	65	<.08	5	.22	36	.54
01PA210S	700	.58	10	15	30	80	<.08	7	.12	36	.52
01PA310S	200	.57	10	15	20	85	<.08	5	<.10	36	1.25
01PA410S	500	.53	<10	7	20	50	<.08	3	.18	37	.58
01PA510S	300	.53	10	5	15	55	<.08	<3	<.10	33	.35
Soils supporting pears, Wayne County, New York											
02PA110S	200	1.16	10	7	10	30	<.08	5	<.10	36	<.10
02PA210S	1,000	1.02	10	15	70	70	<.08	5	<.10	33	1.35
02PA310S	700	.97	10	20	30	85	<.08	10	<.10	33	1.22
02PA410S	150	.87	10	7	20	45	<.08	3	<.10	34	.73
02PA510S	300	1.22	10	15	15	60	<.08	7	.21	33	.75
Soils supporting pears, Yakima County, Washington											
09PA110S	300	1.79	<10	15	100	55	<.08	15	<.10	27	.83
09PA210S	500	1.75	<10	20	200	55	.10	15	.31	27	1.19
09PA310S	300	1.81	10	20	150	55	.10	15	.18	27	.76
09PA410S	500	1.65	<10	20	150	60	<.08	15	<.10	36	.83
09PA510S	300	1.71	<10	20	200	65	<.08	15	<.10	27	.68
Soils supporting pears, San Joaquin County, California											
10PA110S	300	.97	10	30	50	110	<.08	20	<.10	25	1.17
10PA210S	1,000	1.01	10	100	70	95	<.08	20	.33	24	1.51
10PA310S	1,000	.95	<10	150	70	110	<.08	20	<.10	26	.91
10PA410S	500	.99	10	50	70	70	.09	15	.35	26	1.10
10PA510S	500	1.01	10	50	50	85	<.08	20	.35	26	.90
Soils supporting pears, Mesa County, Colorado											
11PA110S	150	.70	<10	15	30	65	<.08	7	<.10	28	1.12
11PA210S	200	.75	<10	10	30	95	<.08	7	<.10	28	1.04
11PA310S	200	.70	10	15	30	90	<.08	7	.63	27	1.29
11PA410S	500	.76	<10	15	30	80	<.08	7	.26	30	.70
11PA510S	200	.77	<10	15	20	95	<.08	7	<.10	28	.95

Table 9.--Concentrations of elements reported in samples of pears and in samples of their supporting soils--continued

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting pears, Berrien County, Michigan										
01PA110S	70	5.6	.30	1.7	50	15	2.0	55	200	5.7
01PA210S	70	8.1	.39	2.1	50	15	2.0	60	200	5.8
01PA310S	100	11.0	.31	1.6	70	10	1.0	58	150	4.7
01PA410S	70	--	.24	2.0	30	10	1.5	53	300	6.2
01PA510S	70	5.2	.19	1.5	20	10	1.0	40	150	4.5
Soils supporting pears, Wayne County, New York										
02PA110S	150	--	.37	1.8	30	20	2.0	31	500	7.2
02PA210S	100	7.6	.50	2.4	50	15	2.0	71	300	5.7
02PA310S	150	9.3	.50	2.6	70	30	2.0	90	150	6.1
02PA410S	100	6.0	.42	2.1	30	10	1.0	59	100	6.2
02PA510S	200	8.1	.45	2.4	50	20	3.0	65	200	7.8
Soils supporting pears, Yakima County, Washington										
09PA110S	500	10.5	.54	1.9	100	20	1.5	212	100	6.0
09PA210S	500	7.0	.56	2.1	150	15	2.0	153	100	6.7
09PA310S	500	7.3	.54	1.8	150	20	2.0	143	100	6.6
09PA410S	300	8.5	.31	2.0	150	30	3.0	167	150	6.1
09PA510S	500	8.0	.54	2.1	100	20	2.0	151	100	6.3
Soils supporting pears, San Joaquin County, California										
10PA110S	200	13.4	.53	2.6	150	20	1.5	117	70	6.5
10PA210S	200	9.5	.55	2.7	200	30	3.0	115	150	8.0
10PA310S	300	7.9	.54	3.1	200	20	--	133	150	7.0
10PA410S	300	6.3	.52	2.8	150	15	2.0	119	70	6.6
10PA510S	200	15.0	.56	2.5	150	20	2.0	121	70	6.9
Soils supporting pears, Mesa County, Colorado										
11PA110S	300	10.0	.31	3.4	70	15	1.0	89	100	8.1
11PA210S	200	17.7	.32	3.6	70	15	1.5	90	100	7.9
11PA310S	200	13.2	.31	3.4	70	15	1.5	94	150	7.8
11PA410S	300	11.4	.27	3.3	100	15	1.5	76	200	8.1
11PA510S	200	14.5	.29	3.2	70	15	1.5	80	150	8.0

Table 10.--Concentrations of elements reported in samples of plums and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Plums, Berrien County, Michigan											
01PD1100	42 3 0	86 22 0	417,742	<1.0	.030	3.00	300	30	.56	<.2	<1
01PD1200	42 3 0	86 22 0	417,280	<1.0	.100	2.00	300	70	.38	.2	<1
01PD2100	42 3 0	86 22 0	417,298	<1.0	.030	<.05	200	50	.44	.4	<1
01PD2200	42 3 0	86 22 0	417,465	<1.0	.050	<.05	300	100	.66	.2	<1
01PD3100	41 57 0	86 21 0	417,584	<1.0	<.015	<.05	300	10	.44	.2	<1
01PD3200	41 57 0	86 21 0	417,564	<1.0	.030	<.05	500	15	.40	.2	<1
01PD4100	41 58 0	86 18 0	417,182	<1.0	.050	--	300	100	.41	.4	<1
01PD4200	41 58 0	86 18 0	417,073	3.0	.050	.10	300	70	.52	<.2	<1
01PD5100	41 58 0	86 18 0	417,559	<1.0	.020	<.05	300	200	.42	<.2	<1
01PD5200	41 58 0	86 18 0	417,439	<1.0	<.015	.20	150	100	.35	.2	<1
Plums, Wayne County, New York											
02PD1100	43 14 0	76 52 0	417,160	<1.0	.020	--	300	30	.36	<.2	<1
02PD1200	43 14 0	76 52 0	417,590	<1.0	<.015	.10	150	30	.32	<.2	<1
02PD2100	43 17 0	77 13 0	417,473	<1.0	<.015	<.05	300	20	.66	.2	1
02PD2200	43 17 0	77 13 0	417,430	<1.0	<.015	<.05	300	30	.88	.2	<1
02PD3100	43 17 0	77 13 0	417,544	<1.0	<.015	<.05	300	7	.46	.2	<1
02PD3200	43 17 0	77 13 0	417,388	<1.0	.030	<.05	500	30	.76	<.2	<1
02PD4100	43 17 0	77 13 0	417,291	<1.0	.020	<.05	700	150	.86	.2	<1
02PD4200	43 17 0	77 13 0	417,075	1.5	.020	<.05	300	10	.96	<.2	<1
02PD5100	43 16 0	77 20 0	417,123	<1.0	.070	--	200	30	1.20	<.2	<1
02PD5200	43 16 0	77 20 0	417,381	<1.0	.020	<.05	500	20	.62	.4	<1
Plums, Yakima County, Washington											
09PD1100	46 28 0	120 30 0	417,480	<1.0	.050	<.05	1,500	50	1.20	.2	<1
09PD1200	46 28 0	120 30 0	417,435	<1.0	.020	<.05	700	1,500	.76	<.2	<1
09PD2100	46 28 0	120 30 0	417,224	<1.0	.050	<.05	700	70	.67	<.2	<1
09PD2200	46 28 0	120 30 0	417,425	<1.0	.150	<.05	700	150	.90	<.2	<1
09PD3100	46 28 0	120 30 0	417,139	3.0	.020	--	500	50	.64	<.2	2
09PD3200	46 28 0	120 30 0	417,492	<1.0	.030	<.05	700	30	.50	<.2	<1
09PD4100	46 28 0	120 30 0	417,166	<1.0	.050	--	500	30	.46	.2	<1
09PD4200	46 28 0	120 30 0	417,305	<1.0	<.015	<.05	500	30	.42	.2	<1
09PD5100	46 28 0	120 30 0	417,510	<1.0	.030	<.05	500	30	.60	<.2	<1
09PD5200	46 28 0	120 30 0	417,575	<1.0	<.015	<.05	300	20	.41	<.2	<1
Plums, Mesa County, Colorado											
11PD1100	39 7 0	108 21 0	417,133	<1.0	.020	--	300	10	.64	<.2	<1
11PD1200	39 7 0	108 21 0	417,076	<1.0	.020	.55	500	10	.80	.2	<1
11PD2100	39 7 0	108 21 0	417,354	<1.0	<.015	.40	300	15	.50	<.2	<1
11PD2200	39 7 0	108 21 0	417,688	<1.0	.050	.90	700	20	.62	<.2	<1
11PD3100	39 7 0	108 21 0	417,134	1.5	.050	--	300	15	.86	<.2	<1
11PD3200	39 7 0	108 21 0	417,612	<1.0	<.015	.50	300	15	.44	<.2	<1
11PD4100	39 7 0	108 21 0	417,243	<1.0	<.015	.80	300	7	.30	<.2	<1
11PD4200	39 7 0	108 21 0	417,759	<1.0	.030	.60	300	15	.36	<.2	<1
11PD5100	39 7 0	108 21 0	417,130	<1.0	<.015	--	300	10	.74	<.2	<1
11PD5200	39 7 0	108 21 0	417,476	<1.0	.020	.55	300	15	.63	<.2	<1

Table 10.--Concentrations of elements reported in samples of plums and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Plums, Berrien County, Michigan											
01PD1100	<1.5	100	.030	.01	15	<4	1.0	150	<7	.0050	<10
01PD1200	3.0	70	.030	<.01	11	<4	1.5	100	<7	.0150	<10
01PD2100	3.0	100	.030	<.01	17	<4	1.0	70	<7	.0100	<10
01PD2200	<1.5	200	.020	<.01	20	<4	1.0	100	<7	.0100	10
01PD3100	<1.5	50	.015	<.01	10	<4	1.0	100	<7	.0075	<10
01PD3200	<1.5	70	.020	<.01	12	<4	1.0	150	<7	.0100	<10
01PD4100	2.0	100	.020	.01	15	<4	1.0	100	<7	.0200	10
01PD4200	1.5	70	.015	.01	18	<4	.7	150	<7	.0140	<10
01PD5100	<1.5	70	.030	.01	17	<4	.7	100	<7	.0050	<10
01PD5200	<1.5	30	.015	<.01	14	<4	.5	50	<7	.0075	<10
Plums, Wayne County, New York											
02PD1100	3.0	100	.020	.01	14	<4	.7	50	<7	.0250	<10
02PD1200	<1.5	30	.015	<.01	9	<4	.7	50	<7	.0100	<10
02PD2100	<1.5	70	.030	<.01	22	<4	1.5	50	<7	.0150	<10
02PD2200	<1.5	200	.030	<.01	19	<4	1.5	100	<7	.0250	<10
02PD3100	<1.5	70	.020	<.01	14	<4	1.0	30	<7	.0150	<10
02PD3200	2.0	200	.050	<.01	15	<4	1.0	100	<7	.0100	<10
02PD4100	7.0	100	.050	<.01	12	<4	2.0	100	<7	.0300	<10
02PD4200	1.5	50	.020	<.01	15	<4	1.0	30	<7	.0320	<10
02PD5100	<1.5	70	.020	<.01	16	<4	1.0	70	<7	.0100	<10
02PD5200	<1.5	200	.050	<.01	16	<4	1.5	100	<7	.0100	<10
Plums, Yakima County, Washington											
09PD1100	3.0	50	.050	<.01	26	<4	1.5	70	<7	.0150	<10
09PD1200	<1.5	30	.020	<.01	16	<4	1.0	30	<7	.0100	<10
09PD2100	<1.5	30	.050	<.01	16	<4	1.5	70	<7	.0150	<10
09PD2200	<1.5	70	.050	<.01	18	<4	1.0	70	<7	.0150	10
09PD3100	<1.5	30	.020	<.01	18	<4	1.0	50	<7	.0150	<10
09PD3200	<1.5	30	.030	<.01	16	<4	1.5	30	<7	.0250	<10
09PD4100	1.5	50	.030	<.01	15	<4	1.5	50	<7	.0200	<10
09PD4200	<1.5	30	.020	<.01	12	<4	1.0	50	<7	.0100	<10
09PD5100	<1.5	20	.015	<.01	13	<4	1.5	30	<7	.0075	<10
09PD5200	<1.5	20	.015	<.01	10	<4	1.0	30	<7	.0050	<10
Plums, Mesa County, Colorado											
11PD1100	<1.5	30	.010	<.01	21	<4	1.0	30	7	.0050	<10
11PD1200	<1.5	30	.015	<.01	25	<4	1.5	30	10	.0170	<10
11PD2100	<1.5	20	.010	<.01	15	<4	1.0	30	7	.0150	<10
11PD2200	<1.5	30	.015	<.01	16	<4	1.0	30	10	.0075	<10
11PD3100	<1.5	30	.020	<.01	27	<4	1.0	30	7	.0250	<10
11PD3200	<1.5	20	.005	<.01	13	<4	1.0	20	7	.0150	<10
11PD4100	<1.5	50	.020	<.01	12	<4	.7	30	<7	.0100	<10
11PD4200	<1.5	15	.007	<.01	14	<4	.7	10	<7	.0050	<10
11PD5100	1.5	50	.015	<.01	26	<4	1.0	50	7	.0150	<10
11PD5200	<1.5	30	.010	<.01	18	<4	1.5	30	7	.0100	<10

Table 10.--Concentrations of elements reported in samples of plums and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
Plums, Berrien County, Michigan										
01PD1100	1.20	70	.035	.005	30	<.0005	180	<20	4.9	14.7
01PD1200	1.20	70	.030	.005	70	<.0005	180	<20	5.8	12.5
01PD2100	1.80	<20	.025	<.005	70	.0007	100	<20	4.2	16.0
01PD2200	2.40	<20	.025	<.005	150	.0020	200	<20	2.6	13.8
01PD3100	.60	<20	.030	.005	15	<.0005	65	<20	5.9	15.0
01PD3200	.60	<20	.030	.005	15	.0007	100	<20	5.5	14.2
01PD4100	1.20	<20	.050	.010	150	.0015	280	<20	6.1	10.3
01PD4200	.60	<20	.050	.005	100	.0010	140	<20	7.1	11.5
01PD5100	.32	<20	.045	.010	100	<.0005	80	<20	11.0	8.1
01PD5200	.32	<20	.055	.005	70	<.0005	75	<20	17.0	8.0
Plums, Wayne County, New York										
02PD1100	2.40	<20	.045	.010	70	<.0005	170	<20	4.7	6.7
02PD1200	.60	<20	.025	.005	30	<.0005	30	<20	6.6	10.7
02PD2100	1.80	<20	.030	.005	70	<.0005	460	<20	4.6	15.6
02PD2200	2.40	<20	.045	.005	100	<.0005	770	<20	3.8	12.9
02PD3100	1.20	<20	.030	<.005	30	<.0005	260	<20	3.4	16.0
02PD3200	2.40	<20	.025	<.005	150	.0005	560	<20	2.6	16.5
02PD4100	2.40	<20	.035	.005	300	.0015	210	<20	2.2	13.4
02PD4200	.60	<20	.050	<.005	70	<.0005	290	<20	4.5	12.0
02PD5100	.60	<20	.050	<.005	70	<.0005	80	<20	5.5	10.8
02PD5200	1.20	<20	.045	.010	150	.0020	120	<20	3.1	11.6
Plums, Yakima County, Washington										
09PD1100	2.40	<20	.035	<.005	150	.0030	160	<20	3.5	16.8
09PD1200	1.20	70	.025	<.005	150	.0150	260	<20	4.2	18.8
09PD2100	1.80	<20	.040	.005	200	.0030	140	<20	4.4	15.3
09PD2200	2.40	<20	.030	<.005	300	.0030	200	20	3.4	12.5
09PD3100	.60	<20	.025	<.005	70	.0015	90	<20	5.9	18.4
09PD3200	1.20	<20	.030	<.005	70	.0015	70	<20	3.5	18.5
09PD4100	1.80	<20	.025	.020	150	.0020	110	<20	4.3	16.6
09PD4200	1.20	<20	.025	.005	100	<.0005	60	<20	5.5	17.5
09PD5100	1.20	<20	.025	.010	70	<.0005	60	<20	3.8	17.4
09PD5200	.60	<20	.030	.010	70	<.0005	40	<20	4.8	15.7
Plums, Mesa County, Colorado										
11PD1100	.60	30	.030	.010	100	<.0005	50	<20	5.6	19.0
11PD1200	1.20	30	.040	.010	150	<.0005	110	<20	4.4	16.6
11PD2100	1.20	<20	.020	.010	100	<.0005	75	<20	5.3	17.4
11PD2200	1.20	30	.030	.010	100	<.0005	80	<20	5.7	16.8
11PD3100	.60	30	.030	.010	150	.0005	40	<20	4.3	18.8
11PD3200	.60	<20	.025	.010	70	<.0005	50	<20	5.3	16.8
11PD4100	1.20	30	.025	.020	100	<.0005	110	<20	6.0	17.8
11PD4200	.60	<20	.020	.020	70	<.0005	45	<20	5.4	17.6
11PD5100	.60	30	.030	.020	150	<.0005	65	<20	5.1	19.9
11PD5200	1.20	20	.025	.005	150	<.0005	60	<20	4.3	17.5

Table 10.--Concentrations of elements reported in samples of plums and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting plums, Berrien County, Michigan											
01PD110S	42 3 0	86 22 0	173,109	2.8	16.6	30	500	<1.0	1.11	.44	5
01PD210S	42 3 0	86 22 0	172,900	3.9	5.0	50	500	<1.0	1.83	.32	5
01PD310S	41 57 0	86 21 0	173,036	4.9	18.2	50	700	<1.0	2.22	.57	7
01PD410S	41 58 0	86 18 0	172,846	2.3	2.4	<10	300	<1.0	.84	.33	5
01PD510S	41 58 0	86 18 0	173,028	2.5	2.9	20	500	<1.0	.81	.33	5
Soils supporting plums, Wayne County, New York											
02PD110S	43 14 0	76 52 0	172,838	4.7	40.9	30	500	1.0	2.92	.58	7
02PD210S	43 17 0	77 13 0	172,985	4.7	11.1	20	500	<1.0	2.16	.78	7
02PD310S	43 17 0	77 13 0	173,020	3.9	9.9	30	500	<1.0	2.14	.77	7
02PD410S	43 17 0	77 13 0	172,896	4.5	16.2	30	500	1.0	2.60	1.12	7
02PD510S	43 16 0	77 20 0	172,819	4.0	25.7	<10	300	<1.0	6.08	.80	5
Soils supporting plums, Yakima County, Washington											
09PD110S	46 28 0	120 30 0	172,990	7.2	4.8	<10	500	1.0	1.51	2.84	15
09PD210S	46 28 0	120 30 0	172,867	7.3	7.9	20	700	1.0	1.84	2.83	15
09PD310S	46 28 0	120 30 0	172,829	6.9	8.3	<10	700	1.0	1.91	2.63	15
09PD410S	46 28 0	120 30 0	172,839	6.2	5.9	20	700	1.0	1.93	3.45	15
09PD510S	46 28 0	120 30 0	173,003	6.1	5.5	20	700	1.0	1.46	3.50	20
Soils supporting plums, Mesa County, Colorado											
11PD110S	39 7 0	108 21 0	172,826	5.3	42.7	50	300	1.0	2.72	2.16	5
11PD210S	39 7 0	108 21 0	172,929	5.0	26.0	50	500	1.0	2.83	2.30	5
11PD310S	39 7 0	108 21 0	173,155	6.6	16.5	50	300	1.0	2.51	1.81	5
11PD410S	39 7 0	108 21 0	172,875	5.4	90.6	70	500	1.0	2.88	2.27	5
11PD510S	39 7 0	108 21 0	172,825	5.1	41.6	50	500	1.0	2.81	2.36	7

Table 10.--Concentrations of elements reported in samples of plums and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting plums, Berrien County, Michigan											
01PD110S	30	20	<400	1.04	7	1.30	.047	1.58	<30	13	.20
01PD210S	50	20	400	1.48	10	1.29	.053	2.20	30	24	.35
01PD310S	50	30	<400	1.89	15	1.43	.085	1.96	30	25	.36
01PD410S	15	10	700	.82	5	1.23	.079	1.49	<30	8	.13
01PD510S	20	15	<400	.87	7	.99	.049	1.59	<30	10	.14
Soils supporting plums, Wayne County, New York											
02PD110S	50	15	500	2.34	15	1.28	.118	1.61	30	30	.51
02PD210S	30	10	400	2.07	10	1.26	.041	1.45	<30	23	.54
02PD310S	70	20	400	2.05	15	1.42	.053	1.46	<30	26	.53
02PD410S	50	20	400	2.44	15	1.49	.114	1.61	<30	37	.62
02PD510S	100	150	400	1.83	15	.65	2.600	1.24	30	20	.41
Soils supporting plums, Yakima County, Washington											
09PD110S	50	30	600	4.98	20	1.49	.026	1.51	<30	25	1.36
09PD210S	50	30	500	4.93	20	1.36	.028	1.60	30	22	1.25
09PD310S	30	30	500	4.38	20	1.17	.010	1.54	30	23	1.16
09PD410S	50	30	500	4.78	20	1.28	.037	1.62	30	22	1.36
09PD510S	50	70	800	5.18	20	1.33	.034	1.56	30	25	1.41
Soils supporting plums, Mesa County, Colorado											
11PD110S	50	30	800	2.19	15	.93	.040	1.91	30	35	1.24
11PD210S	50	20	800	2.27	20	1.35	.055	1.94	<30	36	1.25
11PD310S	50	50	700	4.45	15	.83	.027	1.58	<30	37	1.24
11PD410S	50	30	900	2.31	20	1.34	.061	1.97	30	35	1.27
11PD510S	50	30	700	2.29	15	1.05	.030	1.89	30	36	1.24

Table 10.--Concentrations of elements reported in samples of plums and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting plums, Berrien County, Michigan											
01PD110S	1,000	.65	10	15	50	60	<.08	5	<.10	38	.11
01PD210S	500	.65	10	10	20	90	<.08	7	.20	35	.63
01PD310S	1,500	.75	10	30	70	80	<.08	10	<.10	33	1.09
01PD410S	300	.54	<10	5	15	50	<.08	<3	.22	38	<.10
01PD510S	700	.49	<10	5	15	45	<.08	3	.46	37	<.10
Soils supporting plums, Wayne County, New York											
02PD110S	700	1.05	10	15	100	85	.09	7	.10	32	.74
02PD210S	200	1.04	10	10	30	60	.09	5	<.10	34	1.32
02PD310S	500	1.14	10	15	30	60	<.08	7	.25	30	1.31
02PD410S	300	1.15	10	15	50	70	<.08	7	.14	30	.88
02PD510S	200	.96	10	15	200	45	<.08	5	<.10	31	24.01
Soils supporting plums, Yakima County, Washington											
09PD110S	500	1.75	10	20	20	65	.10	15	<.10	26	1.42
09PD210S	500	1.88	10	20	30	65	<.08	15	<.10	26	.48
09PD310S	500	1.84	10	15	30	60	.09	15	<.10	27	1.00
09PD410S	500	1.68	10	20	10	65	<.08	20	.59	26	.89
09PD510S	1,500	1.64	10	30	15	55	<.08	20	<.10	27	1.16
Soils supporting plums, Mesa County, Colorado											
11PD110S	150	.69	10	15	150	90	<.08	7	<.10	30	1.36
11PD210S	150	.68	<10	20	150	95	<.08	7	<.10	31	1.64
11PD310S	200	.65	<10	15	100	90	<.08	7	<.10	27	.74
11PD410S	150	.70	10	20	500	105	.14	7	.31	29	1.10
11PD510S	150	.68	10	15	200	95	.10	7	.18	30	1.36

Table 10.--Concentrations of elements reported in samples of plums and in samples of their supporting soils--continued

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting plums, Berrien County, Michigan										
01PD110S	100	3.4	.23	1.4	30	10	1.0	64	200	6.4
01PD210S	100	8.1	.48	2.8	50	15	2.0	69	150	6.0
01PD310S	150	8.9	.41	2.2	70	30	3.0	80	300	6.4
01PD410S	70	3.6	.18	1.1	15	<10	1.0	38	150	5.2
01PD510S	70	3.0	.22	1.7	30	10	1.5	43	500	5.4
Soils supporting plums, Wayne County, New York										
02PD110S	150	12.0	.46	2.3	70	20	2.0	126	150	6.1
02PD210S	150	5.9	.45	2.3	50	10	1.5	93	150	7.0
02PD310S	200	4.8	.41	2.4	70	20	3.0	92	500	7.0
02PD410S	150	12.4	.42	4.1	70	20	2.0	134	150	7.4
02PD510S	150	8.1	.42	3.0	50	15	1.5	310	200	5.7
Soils supporting plums, Yakima County, Washington										
09PD110S	500	10.4	.79	2.1	150	30	3.0	112	100	6.2
09PD210S	500	8.9	.73	2.1	200	20	2.0	136	150	6.4
09PD310S	500	7.9	.70	2.0	150	20	3.0	119	100	6.5
09PD410S	300	12.0	.73	2.0	150	20	2.0	104	150	7.3
09PD510S	500	9.9	.74	2.2	200	30	--	101	200	7.4
Soils supporting plums, Mesa County, Colorado										
11PD110S	150	11.9	.31	3.1	70	15	1.5	116	150	7.7
11PD210S	150	17.3	.31	3.7	100	15	1.5	122	150	7.6
11PD310S	150	9.8	.57	4.5	100	15	2.0	135	150	7.0
11PD410S	150	11.1	.31	3.9	100	20	1.5	124	150	7.8
11PD510S	150	12.8	.34	3.8	100	15	1.5	131	100	7.9

Table 11.--Concentrations of elements reported in samples of asparagus and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
			Asparagus, Imperial County, California								
06AS1100	33 35 0	116 2 0	417,394	<1	.100	<.05	70	50	2.6	.2	<1
06AS1200	33 35 0	116 2 0	417,232	<1	.030	<.05	100	50	2.8	.4	<1
06AS2100	33 35 0	116 2 0	417,520	<1	.030	<.05	100	30	3.2	.4	1
06AS2200	33 35 0	116 2 0	417,658	<1	<.015	<.05	150	30	2.8	.2	<1
06AS3100	33 35 0	116 2 0	417,417	<1	.070	<.05	150	30	2.9	.2	1
06AS3200	33 35 0	116 2 0	417,528	<1	<.015	<.05	150	30	2.4	.4	<1
06AS4100	33 35 0	116 2 0	417,657	<1	.020	<.05	150	20	3.0	.4	<1
06AS4200	33 35 0	116 2 0	417,684	<1	.100	<.05	150	30	2.4	.2	1
06AS5100	33 35 0	116 2 0	417,204	<1	<.015	.05	150	20	2.8	.4	<1
06AS5200	33 35 0	116 2 0	417,174	<1	.300	--	150	20	2.6	.6	<1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
				Asparagus, Imperial County, California							
06AS1100	<1.5	100	.20	.01	42	<4	1.5	200	15	.42	<10
06AS1200	<1.5	150	.07	<.01	42	<4	1.5	150	7	.22	10
06AS2100	<1.5	100	.05	<.01	41	<4	1.5	150	<7	.29	<10
06AS2200	<1.5	150	.05	<.01	44	5	2.0	150	7	.25	10
06AS3100	<1.5	100	.05	<.01	39	4	2.0	150	<7	.27	<10
06AS3200	<1.5	100	.05	<.01	43	<4	2.0	150	<7	.29	<10
06AS4100	3.0	100	.05	<.01	42	4	2.0	150	7	.24	15
06AS4200	<1.5	200	.10	<.01	46	<4	2.0	150	10	.23	15
06AS5100	<1.5	100	.05	.01	42	4	1.5	70	7	.32	<10
06AS5200	<1.5	150	.03	<.01	43	<4	2.0	150	7	.43	15

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
				Asparagus, Imperial County, California						
06AS1100	4.8	<20	.72	.65	500	.1500	940	<20	10.0	8.4
06AS1200	6.0	<20	.66	.60	500	.0010	960	<20	11.0	7.7
06AS2100	6.0	<20	.68	.55	700	.0015	820	<20	9.6	8.3
06AS2200	4.8	<20	.58	.65	700	<.0005	860	<20	9.0	8.3
06AS3100	6.0	<20	.64	.55	500	.0050	1,030	<20	9.9	6.3
06AS3200	6.0	<20	.70	.55	300	.0007	960	<20	9.7	8.3
06AS4100	4.8	<20	.60	.60	500	.0007	860	<20	9.8	8.3
06AS4200	6.0	<20	.70	.60	700	.0010	1,020	<20	9.4	8.6
06AS5100	6.0	<20	.62	.45	500	<.0005	930	<20	9.8	8.2
06AS5200	4.8	<20	.65	.50	300	.0007	810	<20	12.0	7.1

Table 11.--Concentrations of elements reported in samples of asparagus and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting asparagus, Imperial County, California											
06AS110S	33 35 0	116 2 0	172,949	6.8	3.8	<10	1,000	1	.43	2.7	5
06AS210S	33 35 0	116 2 0	173,008	6.2	1.7	<10	1,500	1	.41	2.6	5
06AS310S	33 35 0	116 2 0	172,959	6.1	1.7	<10	1,000	1	.55	2.7	7
06AS410S	33 35 0	116 2 0	173,072	6.9	3.0	<10	1,500	1	.74	3.5	7
06AS510S	33 35 0	116 2 0	172,856	6.5	1.5	<10	1,000	1	.89	3.7	7

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting asparagus, Imperial County, California											
06AS110S	20	10	500	2.1	20	1.1	.034	2.7	150	16	.68
06AS210S	20	15	500	1.9	30	1.5	<.010	2.5	70	15	.61
06AS310S	20	7	600	2.4	20	1.1	.022	2.3	30	17	.83
06AS410S	50	20	700	2.7	20	1.2	.026	2.5	100	23	1.04
06AS510S	30	10	500	2.4	15	1.2	.020	2.5	<30	18	.95

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting asparagus, Imperial County, California											
06AS110S	300	2.4	10	7	15	85	<.08	7	.38	29	1.10
06AS210S	500	2.6	10	10	20	100	<.08	7	<.10	32	1.04
06AS310S	300	2.4	<10	7	15	100	<.08	7	<.10	26	.54
06AS410S	500	2.2	10	20	20	100	<.08	10	.11	29	.64
06AS510S	300	2.3	<10	15	15	95	<.08	7	.34	28	.65

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting asparagus, Imperial County, California										
06AS110S	500	19	.30	1.9	70	15	1.5	48	100	8.8
06AS210S	700	11	.28	2.3	70	20	2.0	51	150	8.9
06AS310S	500	23	.33	2.0	70	20	2.0	61	100	8.2
06AS410S	700	15	.36	2.5	100	20	2.0	71	150	6.5
06AS510S	700	14	.33	2.2	70	20	2.0	72	100	8.7

Table 12.--Concentrations of elements reported in samples of cabbage and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Cabbage, Berrien County, Michigan											
01CA1100	42 3 0	86 22 0	417,358	<1	<.015	<.05	150	150	7.0	.8	<1
01CA1200	42 3 0	86 22 0	417,428	<1	<.015	<.05	100	150	6.2	.8	<1
Cabbage, Cumberland County, New Jersey											
03CA1100	39 30 0	75 12 0	417,367	<1	.020	.05	150	200	7.6	2.0	<1
03CA1200	39 30 0	75 12 0	417,445	<1	.020	.05	100	200	7.8	1.5	1
Cabbage, Hidalgo County, Texas											
05CA1100	26 10 0	98 18 0	417,670	<1	.030	<.05	300	200	11.0	1.0	1
05CA1200	26 10 0	98 18 0	417,338	<1	.050	<.05	200	100	9.0	2.0	4
05CA2100	26 10 0	98 18 0	417,199	<1	<.015	<.05	200	100	9.3	.6	1
05CA2200	26 10 0	98 18 0	417,131	<1	<.015	--	100	70	6.8	.4	2
05CA3100	26 10 0	98 18 0	417,618	<1	<.015	<.05	150	70	7.2	.6	1
05CA3200	26 10 0	98 18 0	417,228	<1	.030	<.05	150	70	6.6	.2	1
05CA4100	26 10 0	98 18 0	417,113	<1	.015	--	200	50	6.2	.2	1
05CA4200	26 10 0	98 18 0	417,144	<1	<.015	--	150	100	8.0	.6	1
05CA5100	26 10 0	98 18 0	417,202	<1	<.015	<.05	150	50	7.2	.8	4
05CA5200	26 10 0	98 18 0	417,453	<1	<.015	<.05	100	50	7.2	1.0	2
Cabbage, Imperial County, California											
06CA1100	32 48 0	115 24 0	417,206	<1	.150	<.05	150	30	6.4	2.0	1
06CA1200	32 48 0	115 24 0	417,247	<1	<.015	<.05	150	15	5.2	3.0	<1
06CA2100	32 48 0	115 24 0	417,074	1	<.015	<.05	100	15	5.0	2.0	1
06CA2200	32 48 0	115 24 0	417,258	<1	<.015	<.05	100	30	5.8	1.5	1
06CA3100	32 48 0	115 24 0	417,732	<1	.020	<.05	100	20	5.8	1.0	1
06CA3200	32 48 0	115 24 0	417,266	<1	.020	<.05	150	30	5.8	2.0	1
06CA4100	32 48 0	115 24 0	417,724	<1	<.015	<.05	150	30	5.4	1.5	1
06CA4200	32 48 0	115 24 0	417,585	<1	<.015	<.05	100	15	5.4	1.5	1
06CA5100	32 48 0	115 24 0	417,384	<1	<.015	<.05	150	15	4.8	1.0	<1
06CA5200	32 48 0	115 24 0	417,297	<1	.030	<.05	100	30	5.8	3.0	2

Table 12.--Concentrations of elements reported in samples of cabbage and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Cabbage, Berrien County, Michigan											
01CA1100	<1.5	30	.03	<.01	40	<4	2.0	150	15	.54	<10
01CA1200	<1.5	50	.05	<.01	40	<4	1.5	150	15	.38	<10
Cabbage, Cumberland County, New Jersey											
03CA1100	<1.5	30	.05	<.01	38	<4	5.0	150	15	.51	<10
03CA1200	<1.5	20	.05	<.01	39	<4	2.0	100	15	.43	<10
Cabbage, Hidalgo County, Texas											
05CA1100	<1.5	30	.05	<.01	29	5	2.0	300	30	4.90	15
05CA1200	<1.5	30	.05	<.01	32	4	3.0	300	15	4.60	15
05CA2100	<1.5	30	.03	.01	31	7	2.0	150	15	6.40	10
05CA2200	<1.5	30	.03	<.01	36	4	1.5	150	15	4.10	10
05CA3100	<1.5	30	.03	<.01	36	4	2.0	150	15	4.60	<10
05CA3200	<1.5	20	.05	<.01	34	<4	2.0	150	10	4.80	<10
05CA4100	<1.5	30	.03	<.01	37	5	2.0	200	15	4.80	10
05CA4200	<1.5	30	.05	<.01	32	6	2.0	200	10	5.00	10
05CA5100	<1.5	30	.05	.01	33	6	1.5	200	7	3.70	15
05CA5200	<1.5	30	.02	<.01	36	5	1.5	150	<7	3.60	15
Cabbage, Imperial County, California											
06CA1100	<1.5	30	.07	.02	38	11	2.0	100	7	4.00	<10
06CA1200	<1.5	30	.05	.01	38	5	2.0	150	<7	4.10	<10
06CA2100	<1.5	30	.05	.01	33	4	2.0	150	7	4.00	<10
06CA2200	<1.5	30	.03	<.01	37	8	1.0	100	7	3.00	<10
06CA3100	<1.5	50	.07	.01	37	8	3.0	150	<7	4.40	<10
06CA3200	<1.5	20	.05	.01	38	11	1.5	150	7	3.60	<10
06CA4100	<1.5	50	.07	.01	38	8	2.0	150	<7	4.10	<10
06CA4200	<1.5	30	.05	<.01	37	4	3.0	150	7	4.40	<10
06CA5100	<1.5	30	.05	.01	37	8	1.5	100	<7	3.30	<10
06CA5200	<1.5	50	.07	.01	37	8	3.0	150	7	4.80	<10

Table 12.--Concentrations of elements reported in samples of cabbage and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
					Cabbage, Berrien County, Michigan					
01CA1100	3.6	<20	.55	.30	200	<.0005	220	<20	10.0	7.2
01CA1200	3.6	<20	.62	.04	200	<.0005	340	<20	8.7	7.4
					Cabbage, Cumberland County, New Jersey					
03CA1100	3.6	<20	.82	.04	300	<.0005	290	<20	11.0	6.0
03CA1200	3.6	<20	.82	.08	300	.0010	300	<20	13.0	5.0
					Cabbage, Hidalgo County, Texas					
05CA1100	1.2	<20	.75	.10	1,500	<.0005	140	<20	9.2	10.9
05CA1200	2.4	<20	.60	.08	1,000	<.0005	160	<20	7.0	8.2
05CA2100	2.4	<20	.60	.08	1,000	<.0005	200	<20	7.8	8.7
05CA2200	2.4	<20	.72	.10	700	<.0005	220	<20	7.5	9.3
05CA3100	3.6	<20	.60	.10	500	<.0005	200	<20	7.3	9.3
05CA3200	2.4	<20	.57	.08	1,000	.0007	170	<20	7.3	9.7
05CA4100	3.6	<20	.60	.08	1,000	<.0005	240	<20	7.2	8.1
05CA4200	3.6	<20	.70	.10	1,000	<.0005	200	<20	8.7	8.2
05CA5100	3.6	<20	.72	.20	500	<.0005	270	<20	8.0	8.4
05CA5200	2.4	<20	.75	.15	700	<.0005	260	<20	7.6	8.1
					Cabbage, Imperial County, California					
06CA1100	3.6	<20	.88	.30	1,000	.0030	380	<20	11.0	6.7
06CA1200	3.6	<20	.77	.30	500	<.0005	340	<20	13.0	5.9
06CA2100	4.8	<20	.95	.15	700	<.0005	330	<20	12.0	7.5
06CA2200	3.6	<20	.55	.45	1,000	<.0005	320	<20	12.0	7.2
06CA3100	3.6	<20	.80	.25	1,000	<.0005	360	<20	8.8	9.2
06CA3200	3.6	<20	.80	.45	1,500	<.0005	320	<20	10.0	7.5
06CA4100	3.6	<20	.76	.20	700	<.0005	350	<20	12.0	6.7
06CA4200	4.5	<20	.80	.30	1,000	<.0005	320	<20	10.0	8.0
06CA5100	3.6	<20	.84	.45	700	<.0005	350	<20	9.3	8.4
06CA5200	3.6	<20	.95	.40	700	<.0005	320	<20	10.0	7.6

Table 12.--Concentrations of elements reported in samples of cabbage and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting cabbage, Hidalgo County, Texas											
05CA110S	26 10 0	98 18 0	173,077	4.7	6.6	20	500	1	4.29	12.5	5
05CA210S	26 10 0	98 18 0	172,854	5.0	7.2	20	300	<1	4.67	12.5	5
05CA310S	26 10 0	98 18 0	173,057	4.9	8.3	30	500	<1	4.50	12.1	7
05CA410S	26 10 0	98 18 0	172,814	4.8	5.0	20	300	1	4.41	12.4	5
05CA510S	26 10 0	98 18 0	172,855	5.3	7.1	20	300	1	4.41	12.9	5
Soils supporting cabbage, Imperial County, California											
06CA110S	32 48 0	115 24 0	172,857	5.6	4.9	50	500	1	2.12	5.0	5
06CA210S	32 48 0	115 24 0	172,796	5.4	8.9	50	500	1	2.12	4.8	5
06CA310S	32 48 0	115 24 0	173,104	5.3	8.0	30	700	1	2.18	4.6	7
06CA410S	32 48 0	115 24 0	173,099	5.4	7.2	50	500	1	.48	4.7	7
06CA510S	32 48 0	115 24 0	172,945	4.4	5.4	30	500	<1	1.85	4.1	5

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting cabbage, Hidalgo County, Texas											
05CA110S	30	20	600	2.7	15	.88	.023	1.7	<30	29	.89
05CA210S	30	15	600	2.7	15	1.13	.031	1.7	30	28	.91
05CA310S	50	30	600	2.7	20	1.25	.037	1.8	30	31	.39
05CA410S	50	15	800	2.7	15	1.01	.030	1.8	30	31	.93
05CA510S	50	15	500	2.7	15	1.02	.038	1.7	<30	28	.89
Soils supporting cabbage, Imperial County, California											
06CA110S	50	20	600	2.4	15	1.30	.042	2.0	<30	34	1.49
06CA210S	50	20	1,000	2.6	15	1.44	.030	2.0	30	36	1.57
06CA310S	50	30	900	2.3	15	1.52	.023	1.8	30	34	1.48
06CA410S	70	50	800	2.4	15	1.33	.027	1.9	<30	37	1.60
06CA510S	30	15	600	1.8	15	1.22	.038	1.9	<30	29	1.12

Table 12.--Concentrations of elements reported in samples of cabbage and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting cabbage, Hidalgo County, Texas											
05CA110S	300	.65	<10	10	15	80	<.08	7	<.10	21	.63
05CA210S	200	.65	<10	10	15	80	<.08	7	.18	20	.96
05CA310S	300	.69	<10	15	15	75	<.08	10	.15	21	1.20
05CA410S	300	.68	10	7	15	80	<.08	7	<.10	21	1.00
05CA510S	200	.68	10	15	10	80	<.08	7	.17	20	.78
Soils supporting cabbage, Imperial County, California											
06CA110S	300	.62	10	15	15	90	<.08	7	.34	28	.72
06CA210S	200	.56	<10	15	20	90	.11	7	.17	27	1.17
06CA310S	300	.60	10	20	15	90	<.08	10	.31	28	1.03
06CA410S	300	.56	10	15	15	90	<.08	10	<.10	26	.80
06CA510S	200	.64	10	15	15	85	<.08	5	<.10	30	1.10

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting cabbage, Hidalgo County, Texas										
05CA110S	500	9.1	.31	3.1	70	15	1.5	81	100	7.9
05CA210S	500	8.2	.31	3.1	70	15	1.5	84	70	8.0
05CA310S	500	8.4	.31	2.9	100	20	2.0	82	100	8.2
05CA410S	700	13.0	.32	2.7	70	15	1.5	85	70	8.1
05CA510S	500	11.2	.31	3.0	70	15	1.5	82	70	8.2
Soils supporting cabbage, Imperial County, California										
06CA110S	300	12.0	.30	3.0	70	15	1.5	77	150	8.1
06CA210S	300	13.3	.32	3.0	70	15	1.5	76	100	7.9
06CA310S	300	10.5	.31	3.1	100	15	1.5	78	150	8.0
06CA410S	300	8.9	.31	3.4	100	15	1.5	78	150	8.0
06CA510S	200	9.6	.27	2.5	70	15	1.5	60	150	8.3

Table 13.--Concentrations of elements reported in samples of carrots and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Carrots, Hidalgo County, Texas											
05CR1100	26 18 0	98 4 0	417,142	<1	.020	--	150	200	3.8	1.0	<1
05CR1200	26 18 0	98 4 0	417,244	<1	<.015	.05	100	300	5.0	2.5	1
05CR2100	26 18 0	98 4 0	417,588	<1	.020	.10	100	500	3.8	4.0	<1
05CR2200	26 18 0	98 4 0	417,710	<1	.070	.05	150	500	3.4	1.0	<1
05CR3100	26 18 0	98 4 0	417,796	<1	<.015	.05	100	200	3.4	1.0	1
05CR3200	26 18 0	98 4 0	417,140	<1	<.015	--	150	200	3.6	.4	<1
05CR4100	26 18 0	98 4 0	417,410	<1	.020	.10	150	200	3.8	.2	<1
05CR4200	26 18 0	98 4 0	417,172	<1	.020	--	150	200	3.6	2.5	<1
05CR5100	26 18 0	98 4 0	417,284	<1	.020	.10	100	200	3.0	3.5	<1
05CR5200	26 18 0	98 4 0	417,801	<1	.030	.05	150	500	3.4	1.5	<1
Carrots, Imperial County, California											
06CR1100	32 50 0	115 20 0	417,604	<1	<.015	<.05	150	70	3.4	3.0	<1
06CR1200	32 50 0	115 20 0	417,263	<1	<.015	<.05	150	100	3.6	2.5	1
06CR2100	32 50 0	115 20 0	417,656	<1	.020	<.05	200	100	3.8	3.0	<1
06CR2200	32 50 0	115 20 0	417,433	<1	<.015	<.05	150	70	3.8	3.0	<1
06CR3100	32 50 0	115 20 0	417,592	<1	<.015	<.05	100	30	3.2	4.0	1
06CR3200	32 50 0	115 20 0	417,165	<1	<.015	--	200	30	3.4	5.5	<1
06CR4100	32 50 0	115 20 0	417,745	<1	<.015	.05	150	50	3.0	4.0	<1
06CR4200	32 50 0	115 20 0	417,092	<1	<.015	<.05	200	30	4.4	5.5	<1
06CR5100	32 50 0	115 20 0	417,523	<1	<.015	<.05	150	30	3.2	6.0	<1
06CR5200	32 50 0	115 20 0	417,412	<1	.020	.05	150	50	3.2	1.0	1

Table 13.--Concentrations of elements reported in samples of carrots and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Carrots, Hidalgo County, Texas											
05CR1100	<1.5	50	.015	.01	39	<4	1.5	150	<7	3.0	<10
05CR1200	<1.5	50	.020	<.01	39	<4	1.5	150	<7	2.6	<10
05CR2100	<1.5	70	.030	<.01	39	<4	1.5	200	<7	3.6	<10
05CR2200	<1.5	70	.020	<.01	42	<4	1.5	300	<7	3.2	<10
05CR3100	<1.5	100	.030	.01	41	<4	.5	100	<7	4.0	15
05CR3200	<1.5	50	.015	.01	42	<4	1.0	150	<7	2.9	<10
05CR4100	<1.5	50	.020	<.01	38	<4	1.5	150	<7	4.6	<10
05CR4200	<1.5	70	.020	<.01	39	<4	.7	150	<7	3.5	<10
05CR5100	<1.5	50	.020	.01	36	<4	1.0	150	<7	4.5	<10
05CR5200	<1.5	150	.030	<.01	42	<4	2.0	200	<7	3.8	15
Carrots, Imperial County, California											
06CR1100	<1.5	50	.020	<.01	39	<4	1.5	70	<7	7.0	<10
06CR1200	<1.5	70	.020	<.01	40	<4	.7	100	<7	5.4	<10
06CR2100	<1.5	70	.030	<.01	38	5	1.5	150	<7	6.6	10
06CR2200	<1.5	50	.020	.01	39	5	1.5	70	<7	6.9	<10
06CR3100	<1.5	70	.020	<.01	40	6	1.0	100	<7	8.0	<10
06CR3200	<1.5	70	.030	<.01	38	4	1.5	100	<7	5.6	<10
06CR4100	<1.5	100	.030	<.01	40	<4	1.5	150	<7	4.9	<10
06CR4200	<1.5	50	.020	.01	40	4	1.5	70	<7	6.5	<10
06CR5100	<1.5	70	.020	<.01	34	4	2.0	100	<7	9.6	<10
06CR5200	<1.5	50	.020	<.01	40	<4	1.5	70	<7	7.2	<10

Table 13.--Concentrations of elements reported in samples of carrots and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
Carrots, Hidalgo County, Texas										
05CR1100	2.4	<20	.10	.02	700	<.0005	240	<20	6.9	11.8
05CR1200	1.8	<20	.10	.02	700	<.0005	200	<20	7.2	11.5
05CR2100	2.4	<20	.14	.04	1,000	.0015	210	<20	9.9	9.3
05CR2200	2.4	<20	.09	.04	1,000	<.0005	220	<20	6.2	12.3
05CR3100	2.4	<20	.10	.04	1,000	<.0005	250	<20	8.1	10.8
05CR3200	.6	<20	.15	.04	500	<.0005	75	<20	8.6	10.8
05CR4100	2.4	<20	.12	.04	700	<.0005	280	<20	6.7	11.6
05CR4200	1.8	<20	.10	.04	700	.0015	200	<20	7.8	10.9
05CR5100	1.8	<20	.11	.04	700	<.0005	190	<20	8.9	9.9
05CR5200	2.4	<20	.12	.02	700	<.0005	290	<20	6.7	11.8
Carrots, Imperial County, California										
06CR1100	3.6	<20	.16	.25	1,500	<.0005	460	<20	6.9	11.8
06CR1200	2.4	<20	.14	.15	1,000	<.0005	400	<20	6.9	11.4
06CR2100	3.6	<20	.13	.25	1,000	<.0005	410	<20	6.4	12.2
06CR2200	2.4	<20	.12	.15	500	<.0005	330	<20	5.8	13.1
06CR3100	2.4	<20	.18	.10	1,000	<.0005	800	<20	7.0	14.2
06CR3200	3.6	<20	.19	.08	700	<.0005	440	<20	7.3	12.2
06CR4100	2.4	<20	.14	.10	700	<.0005	380	<20	7.8	11.8
06CR4200	2.4	<20	.14	.10	700	<.0005	370	<20	6.1	13.4
06CR5100	3.6	<20	.18	.10	1,000	<.0005	420	<20	6.8	13.5
06CR5200	2.4	<20	.13	.10	500	<.0005	310	<20	5.9	13.4

Table 13.--Concentrations of elements reported in samples of carrots and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting carrots, Hidalgo County, Texas											
05CR110S	26 18 0	98 4 0	172,830	3.9	7.1	20	500	1	1.4	2.2	5
05CR210S	26 18 0	98 4 0	173,038	5.0	6.8	20	500	<1	1.2	2.2	5
05CR310S	26 18 0	98 4 0	173,142	4.4	8.5	30	500	1	1.4	2.3	5
05CR410S	26 18 0	98 4 0	172,956	4.4	9.2	30	500	1	1.5	3.0	5
05CR510S	26 18 0	98 4 0	172,894	4.2	8.8	50	500	1	1.5	2.7	5
Soils supporting carrots, Imperial County, California											
06CR110S	32 50 0	115 20 0	173,049	6.2	5.7	50	500	<1	2.0	3.1	7
06CR210S	32 50 0	115 20 0	173,071	5.1	5.8	50	700	<1	1.9	5.0	7
06CR310S	32 50 0	115 20 0	173,040	5.1	5.3	50	500	<1	1.8	5.0	7
06CR410S	32 50 0	115 20 0	173,112	5.6	7.0	50	700	1	1.8	4.9	7
06CR510S	32 50 0	115 20 0	173,011	4.3	6.0	50	500	1	1.7	4.3	7

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting carrots, Hidalgo County, Texas											
05CR110S	20	15	<400	1.6	15	1.2	.010	1.9	<30	20	.63
05CR210S	20	15	400	1.7	15	1.3	.022	2.0	<30	25	.65
05CR310S	30	15	<400	1.7	10	1.4	.015	1.9	<30	20	.62
05CR410S	30	15	<400	1.7	15	1.1	.028	2.0	<30	20	.67
05CR510S	30	15	<400	1.7	10	1.1	.040	2.0	<30	18	.60
Soils supporting carrots, Imperial County, California											
06CR110S	30	30	700	2.6	15	1.2	.029	2.4	30	37	1.45
06CR210S	70	30	700	2.3	15	1.2	.031	1.9	<30	37	1.50
06CR310S	30	30	700	2.4	15	1.3	<.010	2.0	30	38	1.41
06CR410S	50	30	700	2.3	15	1.2	.011	1.9	30	36	1.45
06CR510S	50	30	600	2.0	15	1.4	.034	1.9	<30	33	1.25

Table 13.--Concentrations of elements reported in samples of carrots and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting carrots, Hidalgo County, Texas											
05CR110S	200	.68	10	10	10	80	<.08	5	<.10	32	.68
05CR210S	300	.72	10	15	15	75	<.08	7	.26	32	.89
05CR310S	300	.65	<10	10	10	75	<.08	7	<.10	34	1.33
05CR410S	200	.63	10	7	15	80	<.08	5	<.10	32	1.08
05CR510S	200	.68	10	10	10	95	.09	5	<.10	32	.16
Soils supporting carrots, Imperial County, California											
06CR110S	300	.73	10	20	15	80	<.08	10	.20	29	1.08
06CR210S	300	1.41	<10	20	15	90	.08	10	<.10	28	.69
06CR310S	500	.77	<10	20	15	85	.18	7	.27	27	.89
06CR410S	300	.68	10	15	10	90	<.08	10	<.10	29	.39
06CR510S	500	.69	<10	15	20	90	<.08	7	.28	30	1.20

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting carrots, Hidalgo County, Texas										
05CR110S	150	9.1	.29	2.2	50	10	1.5	57	150	8.0
05CR210S	150	5.8	.29	2.3	50	20	3.0	49	300	8.1
05CR310S	150	8.3	.30	2.1	50	15	2.0	53	200	8.3
05CR410S	150	9.8	.29	2.0	30	15	1.5	49	150	7.7
05CR510S	150	7.2	.31	2.2	30	10	1.5	52	150	8.2
Soils supporting carrots, Imperial County, California										
06CR110S	200	11.0	.40	3.0	100	20	2.0	65	150	8.4
06CR210S	300	9.1	.32	3.2	100	20	2.0	67	150	8.3
06CR310S	300	10.4	.32	3.1	100	20	2.0	66	100	8.0
06CR410S	300	11.3	.33	2.9	70	15	1.5	72	150	8.2
06CR510S	300	7.7	.26	3.0	70	20	1.5	67	100	8.0

Table 14.--Concentrations of elements reported in samples of cucumbers and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Cucumbers, Berrien County, Michigan											
01CS1100	42 3 0	86 22 0	417,727	<1	.030	.10	100	70	2.4	1.0	<1
01CS1200	42 3 0	86 22 0	417,633	<1	.020	.15	150	150	3.6	1.0	<1
01CS2100	42 3 0	86 22 0	417,546	<1	<.015	1.50	70	150	2.2	.6	<1
01CS2200	42 3 0	86 22 0	417,726	<1	.200	.90	150	150	4.8	1.0	1
01CS3100	42 3 0	86 22 0	417,079	<1	<.015	.25	150	100	4.0	2.0	<1
01CS3200	42 3 0	86 22 0	417,443	<1	.150	.25	100	70	3.2	1.5	1
01CS4100	41 58 0	86 18 0	417,818	<1	.050	<.05	70	200	2.4	2.0	1
01CS4200	41 58 0	86 18 0	417,697	<1	.200	<.05	150	500	4.2	2.5	1
01CS5100	41 58 0	86 18 0	417,420	<1	1.500	<.05	150	200	4.6	2.0	1
01CS5200	41 58 0	86 18 0	417,672	<1	.300	.05	200	500	5.4	4.0	<1
Cucumbers, Cumberland County, New Jersey											
03CS1100	39 30 0	75 12 0	417,481	<1	.100	.80	100	30	2.0	.6	<1
03CS1200	39 30 0	75 12 0	417,791	<1	.050	.50	70	30	4.2	1.0	1
Cucumbers, San Joaquin County, California											
10CS1100	38 2 0	121 3 0	417,401	<1	.030	.90	70	150	3.6	.4	1
10CS1200	38 2 0	121 3 0	417,624	<1	.300	.80	100	150	4.4	.6	1
10CS2100	38 2 0	121 3 0	417,307	<1	.100	.40	100	150	2.8	.6	1
10CS2200	38 2 0	121 3 0	417,324	<1	.300	.80	150	200	4.4	.8	1
10CS3100	38 2 0	121 3 0	417,595	<1	<.015	.35	70	100	3.2	.6	1
10CS3200	38 2 0	121 3 0	417,251	<1	.030	.50	100	100	3.4	.4	1
10CS4100	38 2 0	121 3 0	417,756	<1	.300	.40	70	70	3.2	.6	1
10CS4200	38 2 0	121 3 0	417,109	<1	<.015	.60	100	100	3.2	1.5	1
10CS5100	38 2 0	121 3 0	417,792	<1	.030	.60	100	150	4.0	.4	1
10CS5200	38 2 0	121 3 0	417,799	<1	.030	.40	100	150	4.2	.6	1

Table 14.--Concentrations of elements reported in samples of cucumbers and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Cucumbers, Berrien County, Michigan											
01CS1100	<1.5	200	.10	<.01	40	<4	2	150	<7	.210	<10
01CS1200	<1.5	300	.15	<.01	40	<4	3	200	<7	.180	<10
01CS2100	<1.5	70	.05	<.01	40	<4	3	200	<7	.120	<10
01CS2200	<1.5	150	.30	<.01	40	<4	5	700	<7	.130	10
01CS3100	<1.5	50	.05	<.01	40	<4	3	100	7	.079	<10
01CS3200	<1.5	70	.05	<.01	39	<4	2	150	<7	.150	<10
01CS4100	2.0	70	.05	<.01	40	<4	3	500	<7	.160	30
01CS4200	<1.5	150	.15	<.01	39	<4	5	700	<7	.180	50
01CS5100	7.0	70	.10	<.01	27	<4	5	300	<7	.220	20
01CS5200	3.0	200	.30	<.01	34	<4	5	500	7	.160	30
Cucumbers, Cumberland County, New Jersey											
03CS1100	3.0	50	.05	<.01	40	<4	3	50	15	.180	<10
03CS1200	<1.5	100	.05	<.01	40	<4	2	70	10	.180	<10
Cucumbers, San Joaquin County, California											
10CS1100	<1.5	50	.05	.01	39	<4	3	70	20	.340	15
10CS1200	<1.5	70	.07	.01	40	<4	3	70	10	.360	30
10CS2100	2.0	70	.05	.01	40	<4	2	70	20	.510	20
10CS2200	<1.5	70	.05	.01	38	<4	3	100	20	.290	20
10CS3100	<1.5	50	.03	<.01	38	<4	2	50	15	.230	15
10CS3200	<1.5	50	.03	.01	40	<4	3	70	15	.180	15
10CS4100	<1.5	70	.05	<.01	40	<4	3	70	15	.230	15
10CS4200	<1.5	50	.03	.02	39	<4	3	70	15	.240	20
10CS5100	<1.5	100	.07	<.01	40	<4	2	70	15	.190	20
10CS5200	<1.5	100	.07	<.01	38	<4	3	100	20	.220	30

Table 14.--Concentrations of elements reported in samples of cucumbers and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
					Cucumbers, Berrien County, Michigan					
01CS1100	2.4	<20	.30	.04	100	.0100	450	<20	9.2	5.0
01CS1200	4.8	<20	.31	.08	150	<.0005	730	<20	7.3	3.0
01CS2100	3.6	<20	.35	.02	100	.0010	540	<20	10.0	4.6
01CS2200	3.6	<20	.26	.02	150	.0070	720	<20	7.1	4.1
01CS3100	3.6	<20	.25	.06	150	<.0005	470	<20	10.0	4.2
01CS3200	3.6	<20	.29	.04	70	<.0005	590	<20	10.0	4.3
01CS4100	2.4	<20	.35	.04	500	<.0005	520	<20	12.0	5.3
01CS4200	3.6	<20	.33	.04	300	.0030	720	<20	8.5	3.6
01CS5100	3.6	<20	.28	.02	300	.0070	680	<20	8.8	4.2
01CS5200	9.0	<20	.27	.02	150	.0070	1,120	<20	5.9	3.2
					Cucumbers, Cumberland County, New Jersey					
03CS1100	6.0	<20	.33	.08	70	.0030	320	<20	14.0	3.6
03CS1200	4.8	<20	.26	.06	100	.0015	400	<20	10.0	3.8
					Cucumbers, San Joaquin County, California					
10CS1100	3.6	<20	.33	.06	500	.0070	370	<20	12.0	3.7
10CS1200	4.8	<20	.35	.08	700	<.0005	450	<20	10.0	3.0
10CS2100	3.6	<20	.30	.20	300	.0100	420	<20	9.6	5.6
10CS2200	4.8	<20	.29	.06	300	<.0005	430	<20	9.3	2.9
10CS3100	4.8	<20	.33	.15	500	<.0005	460	<20	11.0	4.2
10CS3200	4.8	<20	.25	.15	200	<.0005	410	<20	11.0	3.6
10CS4100	4.8	<20	.38	.10	300	<.0005	360	<20	14.0	3.9
10CS4200	4.8	<20	.42	.08	500	<.0005	360	<20	13.0	4.0
10CS5100	6.0	<20	.31	.10	500	<.0005	470	<20	10.0	3.0
10CS5200	6.0	<20	.33	.08	700	<.0005	470	<20	10.0	3.7

Table 14.--Concentrations of elements reported in samples of cucumbers and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting cucumbers, Berrien County, Michigan											
01CS110S	42 3 0	86 22 0	173,100	2.4	3.6	<10	300	<1	2.02	.39	3
01CS210S	42 3 0	86 22 0	173,022	2.3	66.9	<10	500	<1	1.37	.54	5
01CS310S	42 3 0	86 22 0	172,799	2.4	2.6	<10	300	<1	.58	.41	5
01CS410S	41 58 0	86 18 0	173,087	3.5	.9	30	700	<1	1.61	.38	7
01CS510S	41 58 0	86 18 0	173,151	7.5	4.3	30	500	<1	1.25	2.55	5
Soils supporting cucumbers, San Joaquin County, California											
10CS110S	38 2 0	121 3 0	172,952	7.4	13.2	20	1,000	1	1.76	1.91	15
10CS210S	38 2 0	121 3 0	172,905	6.9	7.5	30	700	1	1.74	1.95	15
10CS310S	38 2 0	121 3 0	173,042	7.9	8.8	20	700	<1	1.46	2.03	20
10CS410S	38 2 0	121 3 0	173,116	7.9	4.2	20	1,000	1	2.16	1.97	20
10CS510S	38 2 0	121 3 0	173,140	8.4	6.3	20	1,000	1	2.06	2.02	20

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting cucumbers, Berrien County, Michigan											
01CS110S	15	20	400	1.23	5	1.21	.031	1.2	<30	11	.19
01CS210S	20	20	<400	1.10	7	.69	.346	1.3	<30	12	.24
01CS310S	15	7	500	.91	7	1.10	.030	1.5	<30	10	.17
01CS410S	30	30	<400	1.41	10	<.10	.063	1.8	30	19	.26
01CS510S	30	15	<400	4.19	7	1.33	.043	1.6	<30	17	.25
Soils supporting cucumbers, San Joaquin County, California											
10CS110S	100	150	500	4.95	20	1.52	.126	1.7	<30	28	1.43
10CS210S	100	100	<400	4.86	15	1.05	.114	1.6	<30	27	1.45
10CS310S	100	150	400	5.02	20	1.80	.125	1.6	30	29	1.41
10CS410S	150	150	600	5.33	20	.82	.047	1.7	<30	30	1.47
10CS510S	150	100	400	5.31	20	1.49	.043	1.6	30	30	1.45

Table 14.--Concentrations of elements reported in samples of cucumbers and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting cucumbers, Berrien County, Michigan											
01CS110S	1,000	.56	<10	10	10	40	<.08	<3	<.10	36	<.10
01CS210S	1,000	.58	<10	5	150	45	<.08	<3	<.10	35	.83
01CS310S	500	.62	<10	5	15	50	.08	<3	<.10	39	.22
01CS410S	1,500	.66	10	15	20	70	<.08	7	1.86	36	<.10
01CS510S	700	.62	<10	10	15	60	<.08	5	<.10	27	.89
Soils supporting cucumbers, San Joaquin County, California											
10CS110S	500	.95	10	50	50	75	<.08	20	.12	25	1.09
10CS210S	500	1.03	10	50	20	75	<.08	20	.12	27	.21
10CS310S	1,500	1.03	10	70	15	75	<.08	100	.38	26	1.06
10CS410S	700	.98	<10	70	20	70	<.08	20	.17	25	4.29
10CS510S	700	.99	<10	70	15	80	<.08	30	<.10	26	1.02

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting cucumbers, Berrien County, Michigan										
01CS110S	50	2.6	.17	1.3	20	<10	<1.0	43	100	6.6
01CS210S	70	--	.22	2.2	20	10	1.5	51	150	6.1
01CS310S	70	--	.21	1.4	20	10	1.0	36	100	7.3
01CS410S	100	6.0	.33	2.0	70	20	2.0	63	300	5.5
01CS510S	100	5.0	.57	2.0	50	15	1.5	63	150	5.8
Soils supporting cucumbers, San Joaquin County, California										
10CS110S	300	12.0	.54	2.6	150	15	2.0	99	100	7.3
10CS210S	300	8.5	.55	2.6	150	20	2.0	102	100	7.5
10CS310S	200	8.4	.56	2.6	200	30	3.0	101	100	7.6
10CS410S	200	8.4	.57	2.9	200	20	2.0	109	100	7.6
10CS510S	200	10.5	.57	2.8	200	20	3.0	114	150	7.7

Table 15.--Concentrations of elements reported in samples of dry beans and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Dry beans, Wayne County, New York											
02BD1100	43 13 0	76 48 0	417,647	<1	<.015	<.05	300	50	1.7	.2	3
02BD1200	43 13 0	76 48 0	417,261	<1	<.015	<.05	200	100	2.4	<.2	<1
02BD2100	43 13 0	76 48 0	417,116	<1	<.015	--	200	20	1.6	<.2	6
02BD2200	43 13 0	76 48 0	417,751	<1	<.015	<.05	200	70	2.2	.2	6
02BD3100	43 13 0	76 48 0	417,083	<1	<.015	<.05	150	150	3.2	.6	8
02BD3200	43 13 0	76 48 0	417,163	<1	.020	--	150	30	2.4	.2	1
02BD4100	43 13 0	76 48 0	417,692	<1	.050	<.05	300	150	3.0	.6	1
02BD4200	43 13 0	76 48 0	417,226	<1	.020	<.05	100	70	2.6	.2	2
02BD5100	43 13 0	76 48 0	417,494	<1	<.015	<.05	150	50	1.5	.2	1
02BD5200	43 13 0	76 48 0	417,086	<1	<.015	<.05	300	30	1.5	.2	1
Dry beans, Twin Falls County, Idaho											
08BD1100	42 33 0	114 29 0	417,095	<1	<.015	<.05	100	50	2.6	.2	<1
08BD1200	42 33 0	114 29 0	417,517	<1	<.015	<.05	200	50	2.4	<.2	4
08BD2100	42 33 0	114 29 0	417,461	<1	<.015	<.05	150	20	2.2	.4	2
08BD2200	42 33 0	114 29 0	417,457	<1	<.015	<.05	150	30	2.2	.2	3
08BD3100	42 33 0	114 29 0	417,303	<1	<.015	<.05	150	70	2.4	.2	10
08BD3200	42 33 0	114 29 0	417,110	<1	.020	<.05	150	70	3.0	.2	7
08BD4100	42 33 0	114 29 0	417,782	<1	.050	<.05	150	70	2.8	.2	6
08BD4200	42 33 0	114 29 0	417,761	<1	<.015	<.05	100	50	3.6	.2	6
08BD5100	42 33 0	114 29 0	417,222	<1	.030	<.05	150	30	2.0	.4	2
08BD5200	42 33 0	114 29 0	417,572	<1	<.015	<.05	150	70	2.6	.2	3
Dry beans, San Joaquin County, California											
10BD1100	38 1 0	121 7 0	417,138	<1	<.015	--	150	70	1.8	.2	12
10BD1200	38 1 0	121 7 0	417,467	<1	<.015	<.05	70	70	2.0	.4	10
10BD2100	38 1 0	121 7 0	417,215	<1	<.015	<.05	150	70	1.9	.2	5
10BD2200	38 1 0	121 7 0	417,560	2	<.015	<.05	150	150	2.2	.2	7
10BD3100	38 1 0	121 7 0	417,802	<1	.050	<.05	200	100	2.2	.2	8
10BD3200	38 1 0	121 7 0	417,180	<1	.070	--	200	150	2.0	<.2	8
10BD4100	38 1 0	121 7 0	417,212	<1	<.015	<.05	150	100	2.2	.2	6
10BD4200	38 1 0	121 7 0	417,539	3	.020	<.05	150	150	2.6	.4	11
10BD5100	38 1 0	121 7 0	417,728	<1	.150	<.05	150	150	2.4	.2	7
10BD5200	38 1 0	121 7 0	417,390	<1	.070	<.05	150	150	2.4	<.2	6
Dry beans, Mesa County, Colorado											
11BD1100	39 6 0	108 32 0	417,611	<1	<.015	<.05	150	70	5.0	.4	6
11BD1200	39 6 0	108 32 0	417,508	<1	<.015	<.05	150	<3	3.8	.8	20
11BD2100	39 6 0	108 32 0	417,312	<1	.020	<.05	100	30	4.8	.6	13
11BD2200	39 6 0	108 32 0	417,466	<1	<.015	<.05	100	100	4.4	.8	10
11BD3100	39 6 0	108 32 0	417,103	<1	<.015	<.05	150	10	3.8	.4	10
11BD3200	39 6 0	108 32 0	417,191	<1	.020	--	150	30	4.4	.2	10
11BD4100	39 6 0	108 32 0	417,820	<1	<.015	<.05	150	50	5.1	.4	10
11BD4200	39 6 0	108 32 0	417,741	<1	.020	<.05	150	30	6.0	.4	14
11BD5100	39 6 0	108 32 0	417,393	<1	<.015	<.05	100	30	4.2	.4	8
11BD5200	39 6 0	108 32 0	417,673	<1	.030	<.05	200	100	4.2	.4	8

Table 15.--Concentrations of elements reported in samples of dry beans and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Dry beans, Wayne County, New York											
02BD1100	<1.5	150	.15	<.01	39	<4	5.0	300	50	.0025	50
02BD1200	<1.5	100	.10	<.01	39	<4	1.5	200	20	.0150	30
02BD2100	3.0	100	.10	<.01	43	<4	3.0	200	15	.0075	50
02BD2200	2.0	200	.20	<.01	40	<4	3.0	200	30	.0050	150
02BD3100	1.5	200	.15	.01	37	<4	3.0	300	15	.0110	70
02BD3200	<1.5	150	.15	<.01	39	<4	3.0	200	70	.0075	15
02BD4100	<1.5	200	.30	<.01	40	<4	7.0	500	50	.0040	30
02BD4200	2.0	100	.15	<.01	37	<4	3.0	200	20	.0150	20
02BD5100	<1.5	100	.15	<.01	39	<4	3.0	200	50	.0050	30
02BD5200	<1.5	100	.10	<.01	37	<4	3.0	200	30	.0100	30
Dry beans, Twin Falls County, Idaho											
08BD1100	<1.5	100	.07	.01	38	<4	3.0	150	200	.0200	30
08BD1200	<1.5	100	.07	<.01	42	<4	3.0	200	150	.0170	30
08BD2100	100.0	100	.07	<.01	39	5	3.0	150	200	.0100	30
08BD2200	<1.5	100	.07	<.01	39	5	3.0	70	150	.0100	15
08BD3100	<1.5	100	.10	<.01	38	<4	5.0	300	70	.0150	30
08BD3200	<1.5	100	.07	<.01	38	<4	3.0	200	30	.0120	15
08BD4100	<1.5	200	.15	<.01	39	<4	3.0	200	70	.0050	30
08BD4200	<1.5	200	.10	<.01	39	<4	3.0	200	70	.0050	30
08BD5100	<1.5	100	.07	<.01	39	<4	3.0	150	100	.0075	30
08BD5200	<1.5	100	.07	<.01	38	<4	5.0	150	150	.0170	30
Dry beans, San Joaquin County, California											
10BD1100	<1.5	70	.10	<.01	38	<4	2.0	150	70	.0100	70
10BD1200	<1.5	100	.10	<.01	39	<4	3.0	200	30	.0100	100
10BD2100	<1.5	70	.10	<.01	38	<4	3.0	150	50	.0075	70
10BD2200	<1.5	100	.15	<.01	40	<4	5.0	200	100	.0050	70
10BD3100	<1.5	150	.30	<.01	39	<4	3.0	300	70	.0075	100
10BD3200	<1.5	100	.20	<.01	40	<4	5.0	150	100	.0100	50
10BD4100	<1.5	70	.15	<.01	38	<4	3.0	150	50	.0100	70
10BD4200	<1.5	100	.20	<.01	39	<4	5.0	300	70	.0050	100
10BD5100	2.0	150	.30	<.01	39	<4	3.0	300	100	.0150	70
10BD5200	<1.5	200	.20	<.01	39	<4	5.0	200	70	.0075	100
Dry beans, Mesa County, Colorado											
11BD1100	<1.5	70	.10	<.01	38	<4	3.0	150	200	.0300	30
11BD1200	<1.5	100	.15	<.01	38	<4	5.0	200	300	.0025	100
11BD2100	<1.5	200	.10	<.01	38	<4	3.0	150	300	.0100	70
11BD2200	<1.5	150	.07	<.01	38	<4	3.0	200	300	.0100	50
11BD3100	<1.5	100	.10	.01	37	<4	3.0	150	150	.0100	50
11BD3200	<1.5	200	.10	<.01	38	<4	3.0	150	200	.0150	50
11BD4100	<1.5	300	.15	<.01	37	<4	3.0	200	300	.0050	50
11BD4200	<1.5	200	.15	<.01	38	<4	5.0	300	300	.0025	70
11BD5100	<1.5	100	.10	<.01	40	<4	3.0	150	150	.0075	30
11BD5200	<1.5	200	.20	<.01	35	<4	3.0	200	300	.0150	70

Table 15.--Concentrations of elements reported in samples of dry beans and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
Dry beans, Wayne County, New York										
02BD1100	9	<20	.20	.02	30	<.0005	780	<20	3.6	82.8
02BD1200	9	<20	.16	.02	70	.0030	840	<20	3.5	78.7
02BD2100	9	<20	.20	.02	20	<.0005	950	<20	3.8	80.5
02BD2200	9	<20	.22	.02	70	<.0005	1,020	<20	3.6	79.8
02BD3100	9	<20	.19	.02	150	<.0005	1,000	<20	4.3	82.2
02BD3200	9	<20	.16	.02	30	<.0005	810	<20	3.5	81.7
02BD4100	9	<20	.17	.02	70	<.0005	920	<20	3.7	82.0
02BD4200	9	<20	.19	.02	50	.0010	950	<20	3.6	82.2
02BD5100	9	<20	.20	.02	30	<.0005	880	<20	3.5	81.4
02BD5200	9	<20	.23	.06	30	<.0005	810	30	4.3	82.9
Dry beans, Twin Falls County, Idaho										
08BD1100	9	<20	.20	.02	200	<.0005	860	<20	3.7	77.9
08BD1200	9	<20	.17	.02	100	<.0005	840	<20	3.4	72.0
08BD2100	9	<20	.20	.02	150	<.0005	850	<20	3.7	79.1
08BD2200	9	<20	.20	.02	150	<.0005	800	<20	3.5	68.5
08BD3100	9	<20	.14	.01	300	<.0005	650	<20	4.4	91.1
08BD3200	9	<20	.18	.01	300	<.0005	610	<20	4.3	84.4
08BD4100	9	<20	.16	.02	300	<.0005	680	<20	3.7	89.1
08BD4200	9	<20	.18	.02	300	<.0005	730	<20	3.5	92.4
08BD5100	9	<20	.18	.02	150	<.0005	620	<20	3.7	84.4
08BD5200	9	<20	.16	.01	150	<.0005	580	<20	3.7	85.6
Dry beans, San Joaquin County, California										
10BD1100	12	<20	.21	.02	150	<.0005	740	<20	4.2	80.3
10BD1200	12	<20	.28	.02	150	<.0005	700	<20	4.2	90.2
10BD2100	9	<20	.22	.02	200	<.0005	810	<20	4.0	89.6
10BD2200	12	<20	.19	.02	300	<.0005	730	<20	4.0	88.2
10BD3100	12	<20	.18	.02	300	<.0005	740	<20	3.7	86.1
10BD3200	9	<20	.22	.02	300	.0150	810	<20	4.1	88.2
10BD4100	12	<20	.21	.02	300	<.0005	800	<20	4.0	91.5
10BD4200	12	<20	.25	.02	300	.0015	800	<20	4.0	88.4
10BD5100	12	<20	.19	.02	500	.0050	820	<20	4.2	87.2
10BD5200	9	<20	.19	.02	500	.0050	760	<20	3.8	88.1
Dry beans, Mesa County, Colorado										
11BD1100	9	<20	.18	.20	200	<.0005	750	<20	4.0	89.6
11BD1200	9	<20	.19	.08	300	.0010	880	<20	4.0	92.7
11BD2100	9	<20	.22	.15	700	<.0005	720	<20	4.4	90.1
11BD2200	9	<20	.18	.10	300	<.0005	770	<20	4.0	92.7
11BD3100	9	<20	.21	.15	700	<.0005	830	<20	4.9	89.7
11BD3200	9	<20	.20	.04	500	<.0005	780	<20	4.1	92.6
11BD4100	9	<20	.20	.10	500	<.0005	760	<20	4.0	90.1
11BD4200	9	<20	.19	.15	300	<.0005	900	<20	4.2	82.9
11BD5100	9	<20	.17	.15	300	<.0005	880	<20	4.4	93.7
11BD5200	9	<20	.20	.06	200	<.0005	840	<20	4.2	83.9

Table 15.--Concentrations of elements reported in samples of dry beans and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting dry beans, Wayne County, New York											
02BD110S	43 13 0	76 48 0	173,069	2.9	9.3	50	300	<1.0	1.07	.50	5
02BD210S	43 13 0	76 48 0	172,816	3.2	11.7	20	300	<1.0	1.21	.37	5
02BD310S	43 13 0	76 48 0	172,802	3.6	5.9	20	300	<1.0	.78	.45	5
02BD410S	43 13 0	76 48 0	173,085	2.3	3.4	30	300	<1.0	1.55	.37	5
02BD510S	43 13 0	76 48 0	172,995	5.6	8.4	20	300	<1.0	1.43	5.32	5
Soils supporting dry beans, Twin Falls County, Idaho											
08BD110S	42 33 0	114 29 0	172,805	4.0	4.9	30	500	1.0	2.47	6.53	7
08BD210S	42 33 0	114 29 0	172,978	4.4	4.7	30	700	1.0	2.66	6.42	5
08BD310S	42 33 0	114 29 0	172,903	4.8	5.9	20	500	1.0	1.84	4.53	7
08BD410S	42 33 0	114 29 0	173,133	5.3	7.3	30	700	1.5	1.62	3.26	7
08BD510S	42 33 0	114 29 0	172,866	5.1	4.0	20	700	1.0	1.65	3.62	7
Soils supporting dry beans, San Joaquin County, California											
10BD110S	38 1 0	121 7 0	172,828	7.6	4.7	<10	1,000	1.0	1.10	1.76	15
10BD210S	38 1 0	121 7 0	172,863	7.6	3.6	<10	700	1.0	1.08	1.93	15
10BD310S	38 1 0	121 7 0	173,143	5.3	3.2	30	700	1.0	1.06	2.43	20
10BD410S	38 1 0	121 7 0	172,861	7.9	3.8	20	1,000	1.0	1.13	1.88	15
10BD510S	38 1 0	121 7 0	173,101	7.4	3.6	20	1,000	1.0	1.09	1.74	15
Soils supporting dry beans, Mesa County, Colorado											
11BD110S	39 6 0	108 32 0	173,052	5.0	7.8	30	500	<1.0	2.38	5.66	5
11BD210S	39 6 0	108 32 0	172,906	4.2	11.0	50	500	<1.0	3.16	7.74	5
11BD310S	39 6 0	108 32 0	172,809	4.3	10.8	30	700	<1.0	1.27	7.08	5
11BD410S	39 6 0	108 32 0	173,153	2.1	8.2	30	500	1.0	2.21	.26	5
11BD510S	39 6 0	108 32 0	172,948	4.2	7.4	30	700	1.0	2.03	4.85	5

Table 15.--Concentrations of elements reported in samples of dry beans and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting dry beans, Wayne County, New York											
02BD110S	30	50	400	1.6	7	1.35	.055	1.24	<30	23	.34
02BD210S	20	30	500	1.7	10	1.04	.070	1.26	<30	23	.34
02BD310S	30	20	400	1.8	15	1.43	.030	1.43	30	22	.42
02BD410S	20	70	<400	1.2	7	.53	.043	1.07	<30	20	.25
02BD510S	15	70	<400	2.8	7	1.03	.044	1.94	<30	19	.21
Soils supporting dry beans, Twin Falls County, Idaho											
08BD110S	50	15	1,400	2.0	15	.80	.030	1.57	30	24	1.41
08BD210S	50	15	1,000	2.0	15	.91	.046	1.63	30	24	1.54
08BD310S	50	15	600	2.2	15	.98	.043	1.71	30	27	1.26
08BD410S	50	20	800	2.4	15	1.32	.031	1.75	30	26	1.07
08BD510S	50	15	500	2.2	15	1.18	.041	1.85	30	26	1.14
Soils supporting dry beans, San Joaquin County, California											
10BD110S	100	50	<400	4.4	20	1.59	.020	1.51	<30	23	1.21
10BD210S	200	50	<400	4.6	20	1.67	.035	1.58	<30	22	1.18
10BD310S	100	70	500	2.3	20	.96	.016	1.85	<30	25	1.20
10BD410S	100	50	<400	4.6	20	1.74	.035	1.63	<30	23	1.20
10BD510S	100	100	<400	4.6	15	1.47	.027	1.50	<30	24	1.21
Soils supporting dry beans, Mesa County, Colorado											
11BD110S	50	20	500	2.0	15	1.03	.032	1.88	50	25	.87
11BD210S	50	15	800	2.2	10	.95	.046	1.83	<30	27	.97
11BD310S	50	15	800	2.1	15	1.29	.030	1.85	<30	27	.93
11BD410S	50	20	500	1.3	15	.86	.029	.61	150	28	.93
11BD510S	30	15	600	2.0	15	1.30	.047	2.00	30	22	.79

Table 15.--Concentrations of elements reported in samples of dry beans and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting dry beans, Wayne County, New York											
02BD110S	300	.85	10	10	10	45	<.08	5	<.10	37	.30
02BD210S	200	.83	10	10	10	50	<.08	5	<.10	36	.55
02BD310S	300	.85	10	5	10	55	<.08	5	.21	37	.58
02BD410S	500	.73	10	7	10	40	<.08	3	.90	33	<.10
02BD510S	500	.73	<10	<2	10	35	<.08	<3	.29	27	.44
Soils supporting dry beans, Twin Falls County, Idaho											
08BD110S	300	.82	10	15	15	70	<.08	7	.48	28	1.86
08BD210S	200	.80	10	15	15	75	<.08	7	<.10	28	2.48
08BD310S	200	.91	10	15	15	80	<.08	7	.31	29	.99
08BD410S	500	.90	10	20	20	75	<.08	7	.20	30	1.24
08BD510S	300	.99	10	15	15	80	.09	7	--	30	.19
Soils supporting dry beans, San Joaquin County, California											
10BD110S	500	1.03	10	50	15	85	<.08	20	.13	27	.93
10BD210S	500	1.05	10	50	15	85	<.08	20	.15	28	.98
10BD310S	700	1.05	<10	70	15	80	.09	20	<.10	30	.49
10BD410S	500	1.05	<10	50	15	90	<.08	15	.29	28	.86
10BD510S	1,000	1.01	10	70	15	80	<.08	20	.14	28	.17
Soils supporting dry beans, Mesa County, Colorado											
11BD110S	200	.85	<10	15	20	80	<.08	5	.69	29	.27
11BD210S	150	.72	<10	15	20	95	.13	5	.25	27	1.39
11BD310S	150	.75	<10	15	15	80	.08	7	.26	28	1.05
11BD410S	200	.68	<10	15	15	70	<.08	7	<.10	40	.86
11BD510S	200	.85	10	15	20	85	<.08	5	<.10	30	1.24

Table 15.--Concentrations of elements reported in samples of dry beans and in samples of their supporting soils--continued

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting dry beans, Wayne County, New York										
02BD110S	100	5.8	.34	2.1	30	15	1.5	41	500	6.0
02BD210S	200	7.1	.43	2.1	50	15	1.5	51	200	5.4
02BD310S	100	7.5	.40	1.9	30	15	1.5	48	200	5.5
02BD410S	70	3.8	.28	2.0	30	10	1.5	43	500	5.8
02BD510S	70	3.3	.34	1.9	30	10	1.5	37	700	6.5
Soils supporting dry beans, Twin Falls County, Idaho										
08BD110S	200	12.8	.33	2.9	70	15	1.5	71	150	8.2
08BD210S	200	11.0	.31	3.0	70	15	1.5	73	150	8.4
08BD310S	200	10.7	.36	3.1	50	15	1.5	74	150	8.0
08BD410S	200	10.6	.36	3.2	70	20	3.0	92	300	8.1
08BD510S	200	14.0	.35	2.7	70	15	2.0	73	200	7.7
Soils supporting dry beans, San Joaquin County, California										
10BD110S	300	7.7	.59	2.6	150	15	2.0	107	100	6.8
10BD210S	300	6.5	.57	2.6	150	15	1.5	109	100	7.3
10BD310S	200	8.0	.31	2.8	200	20	3.0	105	150	7.0
10BD410S	300	9.5	.55	2.7	150	15	1.5	116	100	7.0
10BD510S	200	8.4	.57	2.7	150	15	2.0	110	150	6.9
Soils supporting dry beans, Mesa County, Colorado										
11BD110S	200	9.6	.23	3.4	150	20	2.0	83	100	8.1
11BD210S	300	7.9	.25	4.0	150	15	1.5	96	100	7.8
11BD310S	500	13.6	.26	3.5	150	20	3.0	84	100	7.4
11BD410S	300	10.3	.68	3.8	150	15	1.5	87	100	8.2
11BD510S	300	9.5	.26	3.4	100	15	1.5	71	150	7.9

Table 16.--Concentrations of elements reported in samples of eggplant and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
			Eggplant, Berrien County, Michigan								
01EP1100	42 3 0	86 22 0	417,422	<1	.020	<.05	100	50	.9	5.5	<1
01EP1200	42 3 0	86 22 0	417,717	<1	<.015	<.05	70	70	1.2	4.5	<1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
				Eggplant, Berrien County, Michigan							
01EP1100	<1.5	70	.03	<.01	38	<4	2	150	<7	.085	<10
01EP1200	<1.5	200	.07	<.01	40	<4	3	500	7	.110	<10

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
				Eggplant, Berrien County, Michigan						
01EP1100	2.4	<20	.18	.01	30	<.0005	260	<20	8	6.8
01EP1200	2.4	<20	.19	.02	70	<.0005	320	<20	7	7.3

Table 16.--Concentrations of elements reported in samples of eggplant and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting eggplant, Berrien County, Michigan											
01EP110S	42 3 0	86 22 0	173,064	2.1	<.10	<10	300	<1	.75	.74	3

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting eggplant, Berrien County, Michigan											
01EP110S	15	20	<400	1.6	5	.11	.041	1.1	<30	12	.21

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting eggplant, Berrien County, Michigan											
01EP110S	1,500	1.2	<10	7	15	35	<.08	--	<.10	36	<.10

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting eggplant, Berrien County, Michigan										
01EP110S	70	2.7	.18	1.1	20	<10	<1.0	52	70	7.5

Table 17.--Concentrations of elements reported in samples of endive and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
			Endive, Palm Beach County, Florida								
04EN1100	26 41 0	80 32 0	417,159	<1	.03	--	70	70	4.0	1	<1
04EN1200	26 41 0	80 32 0	417,711	<1	.07	.2	100	100	4.2	1	<1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
				Endive, Palm Beach County, Florida							
04EN1100	2.0	70	.05	.01	39	<4	1.0	300	<7	1.9	<10
04EN1200	<1.5	70	.15	<.01	40	<4	.7	300	<7	1.8	<10

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
				Endive, Palm Beach County, Florida						
04EN1100	2.4	<20	.37	.04	700	.0005	510	<20	20	6.2
04EN1200	2.4	<20	.38	.10	1,000	.0015	610	<20	24	6.6

Table 17.--Concentrations of elements reported in samples of endive and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting endive, Palm Beach County, Florida											
04EN110S	26 41 0	80 32 0	173,053	.4	.25	<10	70	<1.0	44.9	3.2	<3

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting endive, Palm Beach County, Florida											
04EN110S	2	100	<400	.12	<5	<.10	.14	.29	<30	<5	.17

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting endive, Palm Beach County, Florida											
04EN110S	500	.02	<10	<2	<10	<10	<.08	<3	.76	1	<.10

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting endive, Palm Beach County, Florida										
04EN110S	100	--	<.03	1.3	<7	<10	<1.0	78	<10	4.9

Table 18.--Concentrations of elements reported in samples of lettuce and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Lettuce, Cumberland County, New Jersey											
03LH1100	39 24 0	75 20 0	417,087	<1	.700	1.50	100	70	2.9	4.5	<1
03LH1200	39 24 0	75 20 0	417,187	<1	.700	--	100	200	4.6	5.0	<1
03LH2100	39 24 0	75 20 0	417,691	<1	2.000	1.00	100	300	2.6	4.0	1
03LH2200	39 24 0	75 20 0	417,561	<1	3.000	2.00	70	300	2.4	3.0	3
03LH3100	39 24 0	75 20 0	417,185	<1	1.500	--	300	200	2.0	4.5	2
03LH3200	39 24 0	75 20 0	417,781	<1	.700	.80	70	70	3.6	6.0	<1
03LH4100	39 24 0	75 20 0	417,190	<1	5.000	--	150	500	2.2	4.0	4
03LH4200	39 24 0	75 20 0	417,747	<1	.300	1.20	70	150	4.2	3.0	<1
03LH5100	39 24 0	75 20 0	417,404	<1	1.000	2.00	50	100	3.6	1.5	<1
03LH5200	39 24 0	75 20 0	417,167	<1	.500	--	100	70	4.6	5.5	<1
Lettuce, Palm Beach County, Florida											
04LH1100	26 41 0	80 32 0	417,257	<1	.020	.05	70	70	5.2	.6	<1
04LH1200	26 41 0	80 32 0	417,227	<1	.020	.05	100	70	4.4	.6	<1
04LH2100	26 41 0	80 32 0	417,432	2	<.015	<.05	50	70	4.6	.8	<1
04LH2200	26 41 0	80 32 0	417,151	<1	.020	--	150	150	6.6	2.0	<1
04LH3100	26 41 0	80 32 0	417,464	<1	<.015	.05	50	100	5.6	1.0	<1
04LH3200	26 41 0	80 32 0	417,283	<1	.020	<.05	70	70	5.0	1.5	<1
04LH4100	26 41 0	80 32 0	417,128	<1	.020	--	100	70	4.5	.8	<1
04LH4200	26 41 0	80 32 0	417,795	<1	.020	--	100	70	6.2	1.0	<1
04LH5100	26 41 0	80 32 0	417,269	<1	.030	<.05	150	150	6.2	1.0	<1
04LH5200	26 41 0	80 32 0	417,357	<1	.020	<.05	70	70	5.4	.8	<1
Lettuce, Hidalgo County, Texas											
05LH1100	26 9 0	98 16 0	417,757	<1	.030	.05	100	100	5.0	3.0	<1
05LH1200	26 9 0	98 16 0	417,774	<1	<.015	.05	70	100	5.1	3.0	<1
05LH2100	26 9 0	98 16 0	417,402	<1	.100	.05	70	100	4.8	.6	<1
05LH2200	26 9 0	98 16 0	417,148	<1	.070	--	100	150	5.4	3.5	1
05LH3100	26 9 0	98 16 0	417,325	<1	.150	.05	150	150	5.0	3.0	<1
05LH3200	26 9 0	98 16 0	417,503	<1	.030	<.05	100	150	5.8	4.0	<1
05LH4100	26 9 0	98 16 0	417,471	<1	<.015	.05	70	100	5.0	2.5	1
05LH4200	26 9 0	98 16 0	417,132	<1	.030	--	100	100	5.4	3.0	<1
05LH5100	26 9 0	98 16 0	417,313	<1	.050	<.05	70	70	3.8	2.5	<1
05LH5200	26 9 0	98 16 0	417,565	<1	.050	.05	100	150	4.9	3.0	<1
Lettuce, Imperial County, California											
06LH1100	32 47 0	115 21 0	417,147	<1	.030	--	100	7	2.8	9.0	1
06LH1200	32 47 0	115 21 0	417,660	<1	.020	<.05	150	20	4.0	6.0	<1
06LH2100	32 47 0	115 21 0	417,331	<1	<.015	<.05	100	15	4.0	9.0	<1
06LH2200	32 47 0	115 21 0	417,154	<1	.020	--	100	15	3.2	9.0	<1
06LH3100	32 47 0	115 21 0	417,591	<1	<.015	.05	100	10	4.4	11.0	1
06LH3200	32 47 0	115 21 0	417,535	<1	.030	<.05	100	30	4.0	8.0	1
06LH4100	32 47 0	115 21 0	417,617	<1	<.015	<.05	70	7	4.8	14.0	<1
06LH4200	32 47 0	115 21 0	417,093	<1	.020	<.05	100	10	3.8	12.0	<1
06LH5100	32 47 0	115 21 0	417,502	<1	.050	<.05	100	15	3.6	8.0	1
06LH5200	32 47 0	115 21 0	417,663	<1	.020	<.05	100	20	4.4	5.0	<1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Lettuce, Cumberland County, New Jersey											
03LH1100	20.0	30	.50	.01	24	<4	2.0	200	<7	.19	20
03LH1200	15.0	50	.20	.02	36	<4	3.0	300	<7	.25	<10
03LH2100	30.0	50	.50	<.01	23	<4	2.0	300	7	.17	10
03LH2200	50.0	30	.70	<.01	30	6	2.0	300	<7	.24	15
03LH3100	50.0	20	.70	.02	18	4	1.5	300	<7	.16	15
03LH3200	7.0	30	.30	.01	39	<4	2.0	500	<7	.24	<10
03LH4100	70.0	50	1.50	.04	18	8	1.5	300	<7	.20	15
03LH4200	15.0	50	.30	<.01	40	<4	2.0	200	<7	.29	<10
03LH5100	15.0	20	.50	.02	30	<4	1.5	150	<7	.19	<10
03LH5200	10.0	50	.20	.01	34	<4	3.0	150	<7	.26	<10
Lettuce, Palm Beach County, Florida											
04LH1100	<1.5	30	.03	<.01	40	<4	.7	300	<7	.33	<10
04LH1200	<1.5	30	.05	<.01	42	<4	1.5	200	<7	.52	<10
04LH2100	<1.5	70	.05	.01	39	<4	1.5	300	<7	.46	<10
04LH2200	<1.5	70	.07	.01	37	<4	1.5	300	<7	.88	<10
04LH3100	<1.5	50	.05	.01	40	<4	1.5	200	<7	.92	<10
04LH3200	<1.5	30	.05	<.01	40	<4	1.5	300	<7	.77	<10
04LH4100	<1.5	50	.03	.01	40	<4	1.5	300	<7	.41	<10
04LH4200	<1.5	100	.20	<.01	40	<4	1.5	200	<7	.39	<10
04LH5100	<1.5	50	.07	.01	39	<4	2.0	300	<7	.52	<10
04LH5200	<1.5	50	.05	.01	40	<4	1.5	200	<7	.67	<10
Lettuce, Hidalgo County, Texas											
05LH1100	<1.5	100	.05	.01	39	6	2.0	150	15	3.60	<10
05LH1200	<1.5	70	.03	<.01	40	5	1.5	200	<7	3.20	<10
05LH2100	<1.5	70	.07	.01	37	<4	2.0	150	<7	2.50	10
05LH2200	<1.5	100	.07	<.01	39	<4	2.0	200	<7	2.20	15
05LH3100	2.0	70	.07	<.01	37	<4	2.0	300	<7	2.70	10
05LH3200	<1.5	70	.07	<.01	37	<4	3.0	300	<7	2.00	<10
05LH4100	<1.5	70	.03	<.01	40	<4	1.0	70	<7	2.50	<10
05LH4200	<1.5	70	.05	<.01	40	<4	1.0	150	<7	2.20	<10
05LH5100	<1.5	70	.05	.01	37	<4	1.5	150	<7	2.00	<10
05LH5200	<1.5	70	.07	<.01	40	<4	3.0	300	<7	2.20	<10
Lettuce, Imperial County, California											
06LH1100	<1.5	100	.05	<.01	37	7	1.5	150	<7	5.60	10
06LH1200	<1.5	100	.07	.01	40	9	1.5	150	<7	4.90	10
06LH2100	<1.5	70	.07	.01	37	<4	2.0	150	<7	5.60	<10
06LH2200	2.0	100	.07	.02	34	7	2.0	150	<7	5.30	10
06LH3100	<1.5	100	.10	.02	37	8	2.0	200	<7	6.40	10
06LH3200	3.0	100	.07	.01	37	<4	1.5	150	<7	4.60	10
06LH4100	<1.5	70	.05	.01	40	8	1.5	150	<7	6.30	<10
06LH4200	<1.5	70	.05	.02	36	7	1.5	150	<7	5.30	10
06LH5100	<1.5	70	.07	<.01	36	6	3.0	150	<7	5.20	10
06LH5200	<1.5	70	.05	.01	37	8	1.5	150	<7	5.20	<10

Table 18.--Concentrations of elements reported in samples of lettuce and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
Lettuce, Cumberland County, New Jersey										
03LH1100	1.2	<20	.32	.060	100	.2000	150	150	29.0	7.8
03LH1200	1.8	<20	.37	.060	300	.0700	260	20	23.0	6.2
03LH2100	1.8	<20	.40	.080	150	.1500	210	100	6.0	3.7
03LH2200	2.4	20	.36	.100	150	.1500	230	100	25.0	5.4
03LH3100	.6	<20	.29	.100	100	.1500	200	300	12.0	7.3
03LH3200	1.8	<20	.38	.080	150	.0500	320	20	24.0	5.4
03LH4100	1.2	30	.32	.200	200	.3000	3,360	200	15.0	8.0
03LH4200	1.8	<20	.34	.080	200	.1000	3,040	50	23.0	6.3
03LH5100	1.2	<20	.33	.060	150	.5000	240	100	1.8	6.5
03LH5200	1.8	<20	.29	.040	150	.0700	220	30	20.0	6.3
Lettuce, Palm Beach County, Florida										
04LH1100	2.4	<20	.20	.010	1,000	<.0005	460	<20	18.0	5.7
04LH1200	3.6	<20	.24	.010	1,000	<.0005	580	<20	14.0	4.4
04LH2100	3.6	<20	.24	.010	700	<.0005	700	<20	14.0	3.9
04LH2200	3.6	<20	.25	.010	1,000	<.0005	900	<20	11.0	2.9
04LH3100	2.4	<20	.24	.020	1,500	<.0005	550	<20	20.0	4.0
04LH3200	3.6	<20	.20	.005	1,000	<.0005	670	<20	15.0	3.1
04LH4100	3.6	<20	.25	--	700	<.0005	710	<20	16.0	3.1
04LH4200	4.8	<20	.22	.005	1,000	<.0005	920	<20	12.0	3.0
04LH5100	4.8	<20	.21	<.005	2,000	<.0005	870	<20	11.0	2.9
04LH5200	4.8	<20	.16	.010	1,000	<.0005	620	<20	13.0	3.2
Lettuce, Hidalgo County, Texas										
05LH1100	3.6	<20	.38	.100	700	<.0005	560	<20	19.0	2.9
05LH1200	3.6	<20	.25	.060	500	<.0005	420	<20	13.0	3.7
05LH2100	4.8	<20	.24	.060	500	.0070	580	<20	11.0	4.8
05LH2200	4.8	<20	.32	.080	700	.0007	800	<20	15.0	4.1
05LH3100	4.2	<20	.28	.080	700	.0070	720	<20	11.0	3.7
05LH3200	3.6	<20	.30	.100	700	<.0005	660	<20	14.0	3.2
05LH4100	3.6	<20	.34	.100	700	<.0005	590	<20	18.0	3.0
05LH4200	4.8	<20	.31	.100	500	<.0005	720	<20	12.0	3.8
05LH5100	3.6	<20	.25	.040	500	<.0005	600	<20	11.0	4.1
05LH5200	4.8	<20	.26	.080	1,000	.0010	600	<20	12.0	3.3
Lettuce, Imperial County, California										
06LH1100	3.6	<20	.29	.200	500	<.0005	490	<20	13.0	5.3
06LH1200	3.6	<20	.29	.200	1,000	<.0005	460	<20	12.0	4.4
06LH2100	3.6	<20	.22	.100	700	<.0005	490	<20	10.0	4.3
06LH2200	3.6	<20	.32	.200	500	.0020	530	<20	13.0	4.2
06LH3100	4.8	<20	.24	.150	700	<.0005	450	<20	12.0	3.3
06LH3200	4.8	<20	.25	.200	1,500	<.0005	440	<20	13.0	3.4
06LH4100	3.6	<20	.32	.200	700	<.0005	470	<20	15.0	3.4
06LH4200	4.2	<20	.32	.200	700	<.0005	500	<20	13.0	3.6
06LH5100	3.6	<20	.33	.200	700	.0015	440	<20	15.0	3.6
06LH5200	3.6	<20	.32	.200	1,000	<.0005	340	<20	16.0	3.4

Table 18.--Concentrations of elements reported in samples of lettuce and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting lettuce, Cumberland County, New Jersey											
03LH110S	39 24 0	75 20 0	172,803	1.3	11.68	20	150	<1	.66	.25	<3
03LH210S	39 24 0	75 20 0	173,084	1.7	4.74	20	200	<1	.92	.24	3
03LH310S	39 24 0	75 20 0	172,848	2.7	13.05	20	200	1	1.11	.25	5
03LH410S	39 24 0	75 20 0	172,850	2.8	17.89	30	300	1	1.19	.34	5
03LH510S	39 24 0	75 20 0	172,954	1.9	12.58	70	200	<1	.91	.30	<3
Soils supporting lettuce, Palm Beach County, Florida											
04LH110S	26 41 0	80 32 0	172,880	<.3	.62	<10	300	<1	46.50	2.94	<3
04LH210S	26 41 0	80 32 0	172,964	<.3	17.93	<10	50	<1	43.90	2.90	<3
04LH310S	26 41 0	80 32 0	172,981	<.3	.82	<10	70	<1	46.10	3.18	<3
04LH410S	26 41 0	80 32 0	172,823	<.3	.22	<10	50	<1	45.70	3.11	<3
04LH510S	26 41 0	80 32 0	172,886	<.3	.34	<10	50	<1	47.90	2.89	<3
Soils supporting lettuce, Hidalgo County, Texas											
05LH110S	26 9 0	98 16 0	173,117	5.3	8.55	20	500	<1	4.18	11.22	5
05LH210S	26 9 0	98 16 0	172,953	5.0	9.04	20	500	1	3.93	11.33	5
05LH310S	26 9 0	98 16 0	172,912	4.5	12.14	20	500	1	3.26	10.86	5
05LH410S	26 9 0	98 16 0	172,983	4.9	11.07	20	500	1	3.78	10.86	5
05LH510S	26 9 0	98 16 0	172,907	4.6	10.36	20	500	1	4.37	11.24	5
Soils supporting lettuce, Imperial County, California											
06LH110S	32 47 0	115 21 0	172,832	5.8	39.73	30	700	1	1.99	4.33	7
06LH210S	32 47 0	115 21 0	172,915	6.2	9.39	50	500	1	2.06	4.59	7
06LH310S	32 47 0	115 21 0	173,039	6.5	6.31	30	500	<1	2.99	4.58	7
06LH410S	32 47 0	115 21 0	173,056	4.8	7.58	50	500	<1	1.94	4.06	7
06LH510S	32 47 0	115 21 0	172,998	2.4	10.04	30	1,000	1	2.26	.46	7

Table 18.--Concentrations of elements reported in samples of lettuce and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting lettuce, Cumberland County, New Jersey											
03LH110S	10.0	10	<400	.82	5	.96	.030	.53	<30	10	.12
03LH210S	15.0	15	<400	.84	5	.75	.039	.65	30	13	.14
03LH310S	20.0	10	900	1.13	7	1.21	.059	.74	30	17	.21
03LH410S	20.0	20	<400	1.40	7	1.23	.061	.85	30	17	.24
03LH510S	15.0	15	<400	1.08	5	1.01	.063	.77	30	14	.17
Soils supporting lettuce, Palm Beach County, Florida											
04LH110S	2.0	50	400	.06	<5	<.10	.152	.57	<30	<5	.15
04LH210S	1.5	50	<400	.08	<5	1.28	.162	.31	<30	<5	.20
04LH310S	1.0	50	<400	.20	<5	<.10	.146	.23	<30	<5	.20
04LH410S	2.0	50	<400	.12	<5	<.10	.110	.20	<30	<5	.19
04LH510S	1.0	50	<400	<.03	<5	<.10	.114	.17	<30	<5	.21
Soils supporting lettuce, Hidalgo County, Texas											
05LH110S	30.0	20	700	2.60	15	.74	.036	1.78	30	30	.86
05LH210S	50.0	15	700	2.55	15	1.12	.058	1.85	30	30	.84
05LH310S	30.0	15	1,000	2.56	15	1.27	.053	1.83	<30	29	.88
05LH410S	50.0	15	600	2.48	15	.95	.050	1.80	<30	30	.89
05LH510S	50.0	15	700	2.51	15	1.09	.043	1.77	30	29	.90
Soils supporting lettuce, Imperial County, California											
06LH110S	50.0	30	700	2.48	15	1.08	.030	1.89	30	40	1.47
06LH210S	50.0	20	500	2.79	20	1.38	.104	2.00	50	43	1.45
06LH310S	30.0	30	700	2.70	20	1.15	.029	1.97	30	43	1.45
06LH410S	50.0	30	500	2.07	15	1.53	.034	1.85	<30	34	.48
06LH510S	70.0	50	800	1.22	15	1.35	.038	1.07	30	40	1.61

Table 18.--Concentrations of elements reported in samples of lettuce and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting lettuce, Cumberland County, New Jersey											
03LH110S	150	.15	<10	5	10	25	<.08	<3	.19	42.0	.82
03LH210S	200	.19	10	7	10	30	<.08	3	<.10	38.3	<.10
03LH310S	300	.22	10	7	20	45	<.08	3	.46	35.4	1.81
03LH410S	200	.27	10	10	20	55	<.08	3	<.10	35.7	1.36
03LH510S	150	.22	10	7	15	35	<.08	3	<.10	34.6	1.12
Soils supporting lettuce, Palm Beach County, Florida											
04LH110S	7,000	<.07	<10	<2	<10	<20	<.08	<3	<.10	.7	<.10
04LH210S	100	<.07	<10	<2	<10	<20	<.08	<3	.32	.4	1.29
04LH310S	100	<.07	<10	<2	<10	<20	<.08	<3	.21	.7	.19
04LH410S	70	<.07	<10	<2	<10	<20	<.08	<3	.21	.5	<.10
04LH510S	70	<.07	<10	<2	<10	<20	<.08	<3	<.10	.5	<.10
Soils supporting lettuce, Hidalgo County, Texas											
05LH110S	300	.82	<10	15	15	70	<.08	7	<.10	21.5	5.63
05LH210S	200	.79	<10	15	15	75	<.08	7	<.10	21.3	1.49
05LH310S	300	.86	<10	10	15	85	<.08	7	.11	23.2	1.19
05LH410S	200	.79	<10	10	15	85	<.08	7	.19	22.7	1.66
05LH510S	200	.85	<10	10	15	90	<.08	7	.17	22.2	.88
Soils supporting lettuce, Imperial County, California											
06LH110S	200	.65	<10	15	20	90	.17	7	<.10	27.1	.40
06LH210S	300	.56	10	15	30	95	<.08	10	.36	26.7	1.38
06LH310S	300	.59	10	20	20	90	<.08	10	.17	26.0	1.27
06LH410S	300	.66	<10	15	20	80	<.08	7	.14	29.9	.98
06LH510S	500	.61	<10	20	20	115	<.08	10	.32	38.8	1.76

Table 18.--Concentrations of elements reported in samples of lettuce and in samples of their supporting soils--continued

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting lettuce, Cumberland County, New Jersey										
03LH110S	15	6.0	.45	2.07	15	10	1.5	27	200	6.3
03LH210S	15	6.3	.42	2.03	20	20	2.0	30	300	6.5
03LH310S	30	4.8	.45	2.90	30	20	1.5	45	150	6.0
03LH410S	30	10.7	.53	2.61	30	15	1.5	59	200	7.0
03LH510S	30	10.7	.54	2.64	30	15	1.5	38	200	7.0
Soils supporting lettuce, Palm Beach County, Florida										
04LH110S	150	--	<.03	1.36	<7	10	<1.0	104	<10	4.7
04LH210S	70	--	<.03	.64	<7	<10	<1.0	96	<10	4.8
04LH310S	70	--	<.03	1.27	<7	<10	<1.0	86	<10	4.9
04LH410S	70	--	.03	1.53	<7	<10	<1.0	78	<10	4.9
04LH510S	70	--	<.03	.78	<7	<10	<1.0	58	<10	5.0
Soils supporting lettuce, Hidalgo County, Texas										
05LH110S	500	8.3	.34	2.95	100	20	2.0	74	150	8.4
05LH210S	500	11.0	.31	2.53	70	15	1.5	72	100	8.1
05LH310S	500	9.3	.32	2.91	70	15	1.5	81	70	8.3
05LH410S	500	13.2	.33	2.71	70	15	1.5	81	100	7.9
05LH510S	500	9.1	.32	2.93	70	15	1.5	81	100	7.8
Soils supporting lettuce, Imperial County, California										
06LH110S	300	14.4	.33	3.19	70	15	1.5	84	70	8.0
06LH210S	200	12.2	.33	3.51	100	20	1.5	84	70	7.9
06LH310S	200	11.4	.32	3.32	100	20	2.0	86	100	8.2
06LH410S	200	11.0	.27	2.84	70	20	2.0	67	150	8.0
06LH510S	500	10.9	.29	3.65	100	20	3.0	88	150	8.0

Table 12.--Concentrations of elements reported in samples of onions and in samples of onion [illegible]

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
			Onions, Hidalgo County, Texas								
050B1100	26 10 0	98 18 0	417,521	<1	.15	.05	200	150	12.0	1.5	1
050B1200	26 10 0	98 18 0	417,750	<1	.10	.05	300	500	12.0	1.0	<1
050B2100	26 10 0	98 18 0	417,743	<1	.15	.05	300	200	8.4	1.0	<1
050B2200	26 10 0	98 18 0	417,474	<1	.15	.05	300	200	12.0	1.0	1
050B3100	26 10 0	98 18 0	417,527	<1	.20	<.05	300	200	11.0	1.5	1
050B3200	26 10 0	98 18 0	417,752	<1	.15	<.05	150	150	10.0	1.5	<1
050B4100	26 10 0	98 18 0	417,513	<1	.20	<.05	300	200	9.6	1.0	<1
050B4200	26 10 0	98 18 0	417,203	<1	.15	.15	300	200	9.6	1.0	<1
050B5100	26 10 0	98 18 0	417,734	<1	.15	.05	150	200	11.0	1.0	<1
050B5200	26 10 0	98 18 0	417,252	<1	.15	.05	300	200	11.0	1.5	1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
				Onions, Hidalgo County, Texas							
050B1100	<1.5	100	.10	<.01	28	<4	2	500	<7	3.8	15
050B1200	<1.5	150	.07	<.01	29	<4	3	700	10	3.0	15
050B2100	<1.5	200	.07	<.01	29	<4	3	500	<7	2.3	15
050B2200	3.0	100	.15	<.01	28	<4	3	500	15	3.1	20
050B3100	<1.5	100	.07	<.01	31	<4	3	500	<7	2.1	15
050B3200	<1.5	150	.07	<.01	31	<4	2	150	<7	2.7	10
050B4100	2.0	100	.07	<.01	32	<4	3	300	<7	1.9	15
050B4200	<1.5	70	.07	<.01	30	6	3	300	7	3.7	10
050B5100	<1.5	150	.10	<.01	32	<4	3	500	7	2.8	15
050B5200	<1.5	70	.05	<.01	31	4	3	300	7	2.1	10

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
				Onions, Hidalgo County, Texas						
050B1100	6.0	<20	.35	.04	3,000	.005	460	<20	5.0	8.2
050B1200	4.8	<20	.33	.04	2,000	.003	580	<20	4.6	9.9
050B2100	4.8	<20	.45	.06	2,000	.001	460	<20	3.9	9.7
050B2200	4.8	<20	.33	.06	3,000	.003	580	<20	5.4	9.9
050B3100	4.8	<20	.33	.04	2,000	.003	450	<20	3.8	10.3
050B3200	4.8	<20	.36	.06	1,500	.003	980	<20	4.4	9.2
050B4100	4.8	<20	.36	.04	2,000	.003	470	<20	4.2	11.0
050B4200	3.6	<20	.21	.02	2,000	.005	420	<20	3.1	12.6
050B5100	4.8	<20	.34	.04	2,000	.010	580	<20	4.1	10.5
050B5200	3.6	<20	.32	.04	2,000	.007	460	<20	4.1	9.4

Table 19.--Concentrations of elements reported in samples of onions and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting onions, Hidalgo County, Texas											
050B110S	26 10 0	98 18 0	173,009	4.8	8.2	30	500	1	4.5	12	7
050B210S	26 10 0	98 18 0	173,110	5.1	8.4	30	500	1	4.3	12	7
050B310S	26 10 0	98 18 0	173,014	4.4	7.6	30	500	1	4.5	12	7
050B410S	26 10 0	98 18 0	173,005	4.6	6.9	20	500	<1	4.4	12	7
050B510S	26 10 0	98 18 0	173,105	5.2	5.9	30	500	1	4.4	12	5

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting onions, Hidalgo County, Texas											
050B110S	70	30	700	2.8	15	1.2	.038	1.8	<30	30	1
050B210S	50	20	1,000	2.7	15	1.3	.018	1.7	30	30	1
050B310S	70	30	1,000	2.7	15	1.0	.041	1.7	30	30	1
050B410S	70	30	1,000	2.8	15	1.0	.039	1.7	30	30	1
050B510S	50	20	700	2.8	15	1.2	.031	1.7	<30	30	1

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting onions, Hidalgo County, Texas											
050B110S	700	.66	10	20	15	95	<.08	10	.22	21	1.59
050B210S	300	.62	10	20	15	80	<.08	10	.15	20	.61
050B310S	500	.69	<10	15	15	90	<.08	10	.32	20	1.12
050B410S	500	.65	10	20	10	90	<.08	10	.14	20	1.33
050B510S	300	.62	10	20	10	80	<.08	10	.12	21	1.23

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting onions, Hidalgo County, Texas										
050B110S	200	9.6	.29	3.1	150	30	3	88	100	8.3
050B210S	500	9.7	.30	3.0	100	20	2	90	150	8.2
050B310S	200	8.9	.27	3.1	150	30	3	88	100	8.2
050B410S	200	10.3	.30	3.0	150	30	2	89	100	8.4
050B510S	500	10.3	.31	3.0	100	20	2	90	100	8.3

Table 20.--Concentrations of elements reported in samples of potatoes and in samples of their surrounding soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Potatoes, Wayne County, New York											
02PI1100	43 4 0	76 45 0	417,601	<1	.070	.10	50	30	.80	3.0	1
02PI1200	43 4 0	76 45 0	417,389	<1	.050	.10	50	15	.62	1.5	<1
02PI2100	43 4 0	76 45 0	417,320	<1	.070	<.05	50	30	.34	5.5	1
02PI2200	43 4 0	76 45 0	417,620	<1	.150	<.05	70	100	.71	6.5	3
02PI3100	43 4 0	76 45 0	417,596	<1	<.015	.10	50	7	.28	.6	1
02PI3200	43 4 0	76 45 0	417,675	<1	.100	.10	100	15	.48	.8	<1
02PI4100	43 4 0	76 45 0	417,274	<1	<.015	.05	70	7	.50	.8	<1
02PI4200	43 4 0	76 45 0	417,398	<1	<.015	.25	50	<3	.45	2.5	1
02PI5100	43 4 0	76 45 0	417,077	<1	<.015	.10	70	3	.42	.6	1
02PI5200	43 4 0	76 45 0	417,681	<1	.050	<.05	100	<3	.42	.4	1
Potatoes, Cumberland County, New Jersey											
03PI1100	39 31 0	75 13 0	417,316	<1	.070	.25	70	50	.48	1.5	<1
03PI1200	39 31 0	75 13 0	417,272	<1	.050	.30	70	70	.76	1.0	1
03PI2100	39 31 0	75 13 0	417,469	<1	.070	.20	50	100	.62	1.5	<1
03PI2200	39 31 0	75 13 0	417,330	<1	.150	.20	70	100	.68	1.0	<1
03PI3100	39 31 0	75 13 0	417,345	<1	.150	.35	70	100	.70	1.0	1
03PI3200	39 31 0	75 13 0	417,702	<1	.150	.20	70	150	.62	1.0	<1
03PI4100	39 31 0	75 13 0	417,209	<1	.030	.10	70	70	.50	1.0	<1
03PI4200	39 31 0	75 13 0	417,648	<1	.050	.25	50	50	.66	1.0	<1
03PI5100	39 31 0	75 13 0	417,327	<1	.050	.15	70	100	.52	1.0	<1
03PI5200	39 31 0	75 13 0	417,102	<1	.020	.20	100	70	.54	1.0	1
Potatoes, Twin Falls County, Idaho											
08PI1100	42 49 0	114 58 0	417,462	<1	.020	<.05	50	30	1.00	3.5	<1
08PI1200	42 49 0	114 58 0	417,135	<1	.020	--	50	30	1.20	5.5	<1
08PI2100	42 49 0	114 58 0	417,306	<1	.050	<.05	70	50	1.10	2.0	<1
08PI2200	42 49 0	114 58 0	417,287	<1	.050	<.05	70	50	1.40	1.5	<1
08PI3100	42 49 0	114 58 0	417,334	<1	.070	<.05	50	70	1.30	2.5	1
08PI3200	42 49 0	114 58 0	417,549	<1	<.015	<.05	<50	70	1.20	1.5	1
08PI4100	42 49 0	114 58 0	417,754	<1	.020	<.05	<50	30	1.60	4.0	1
08PI4200	42 49 0	114 58 0	417,607	<1	.050	<.05	<50	30	1.30	2.5	<1
08PI5100	42 49 0	114 58 0	417,563	<1	.050	<.05	<50	50	1.70	3.5	<1
08PI5200	42 49 0	114 58 0	417,385	<1	<.015	<.05	50	30	1.10	2.0	<1
Potatoes, Yakima County, Washington											
09PI1100	46 26 0	120 33 0	417,619	<1	<.015	<.05	<50	15	.82	2.5	2
09PI1200	46 26 0	120 33 0	417,538	<1	<.015	<.05	<50	15	.70	4.5	2
09PI2100	46 26 0	120 33 0	417,505	<1	.020	<.05	50	20	.70	2.0	4
09PI2200	46 26 0	120 33 0	417,288	1	.030	<.05	50	10	.60	5.0	4
09PI3100	46 24 0	120 31 0	417,698	<1	.030	<.05	70	70	.72	2.5	4
09PI3200	46 24 0	120 31 0	417,593	<1	.020	<.05	70	30	.64	3.0	6
09PI4100	46 24 0	120 31 0	417,195	<1	<.015	<.05	100	70	.72	4.0	5
09PI4200	46 24 0	120 31 0	417,687	<1	.100	<.05	70	50	.66	2.0	3
09PI5100	46 24 0	120 31 0	417,815	<1	.020	<.05	70	30	.60	2.0	4
09PI5200	46 24 0	120 31 0	417,813	<1	.030	<.05	70	50	.58	2.0	4

Table 20.--Concentrations of elements reported in samples of potatoes and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Potatoes, Wayne County, New York											
02PI1100	<1.5	70	.05	<.01	41	<4	3.0	100	15	.090	<10
02PI1200	2.0	70	.05	<.01	42	<4	3.0	70	<7	.054	<10
02PI2100	<1.5	70	.07	.01	42	<4	3.0	100	7	.065	<10
02PI2200	2.0	70	.07	<.01	41	<4	3.0	100	<7	.055	<10
02PI3100	<1.5	100	.05	<.01	46	<4	3.0	70	7	.025	<10
02PI3200	<1.5	70	.07	<.01	47	<4	2.0	100	15	.015	<10
02PI4100	<1.5	20	.05	<.01	44	<4	1.5	70	7	.020	<10
02PI4200	<1.5	70	.07	<.01	44	<4	1.5	70	10	.030	<10
02PI5100	<1.5	50	.03	<.01	43	<4	2.0	70	10	.020	<10
02PI5200	<1.5	70	.05	<.01	45	<4	3.0	70	30	.010	<10
Potatoes, Cumberland County, New Jersey											
03PI1100	<1.5	150	.07	<.01	38	<4	1.5	150	<7	.025	15
03PI1200	<1.5	150	.05	<.01	44	<4	2.0	200	10	.030	10
03PI2100	2.0	200	.07	<.01	42	<4	1.5	70	<7	.035	15
03PI2200	<1.5	100	.07	<.01	39	<4	2.0	150	<7	.025	15
03PI3100	<1.5	150	.05	<.01	41	<4	1.5	150	<7	.040	15
03PI3200	2.0	200	.05	<.01	42	<4	2.0	150	<7	.020	10
03PI4100	<1.5	100	.03	<.01	41	<4	1.5	70	<7	.020	<10
03PI4200	2.0	100	.07	<.01	45	<4	1.5	70	7	.035	10
03PI5100	<1.5	150	.05	<.01	41	<4	2.0	150	<7	.030	<10
03PI5200	1.5	100	.03	<.01	38	<4	1.5	70	<7	.034	<10
Potatoes, Twin Falls County, Idaho											
08PI1100	<1.5	50	.03	<.01	43	<4	1.5	50	7	.420	<10
08PI1200	<1.5	50	.03	<.01	42	<4	2.0	70	<7	.350	<10
08PI2100	2.0	150	.07	<.01	43	<4	2.0	70	7	.310	<10
08PI2200	<1.5	70	.03	<.01	42	<4	1.5	70	7	.430	<10
08PI3100	15.0	70	.05	<.01	42	<4	2.0	100	7	.400	<10
08PI3200	7.0	70	.05	<.01	41	<4	2.0	70	10	.500	<10
08PI4100	7.0	150	.05	<.01	46	<4	2.0	30	<7	.430	<10
08PI4200	<1.5	70	.03	<.01	44	<4	2.0	70	<7	.420	<10
08PI5100	<1.5	50	.05	<.01	41	<4	2.0	70	7	.370	<10
08PI5200	2.0	70	.03	<.01	45	<4	1.5	50	10	.330	<10
Potatoes, Yakima County, Washington											
09PI1100	<1.5	70	.03	<.01	42	<4	2.0	70	<7	.160	<10
09PI1200	<1.5	70	.05	<.01	40	<4	2.0	100	<7	.140	15
09PI2100	<1.5	70	.07	<.01	42	<4	1.5	70	<7	.120	10
09PI2200	<1.5	70	.07	<.01	40	<4	3.0	150	10	.120	15
09PI3100	<1.5	150	.05	<.01	41	<4	2.0	100	7	.140	30
09PI3200	20.0	100	.05	<.01	43	<4	3.0	150	7	.140	20
09PI4100	<1.5	70	.03	<.01	43	<4	2.0	70	7	.170	15
09PI4200	<1.5	150	.07	<.01	45	<4	3.0	100	7	.130	30
09PI5100	<1.5	150	.05	<.01	42	<4	1.5	70	<7	.140	20
09PI5200	<1.5	150	.07	<.01	46	<4	2.0	100	<7	.140	15

Table 20.--Concentrations of elements reported in samples of potatoes and in samples of their supporting soils--Continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
Potatoes, Wayne County, New York										
02PI1100	4.8	<20	.160	.010	70	.0100	420	20	3.7	19.9
02PI1200	4.8	<20	.140	.010	50	.0050	300	<20	4.0	21.4
02PI2100	4.8	<20	.140	.010	70	.0030	420	<20	4.1	18.3
02PI2200	4.8	<20	.140	.010	70	.0050	480	<20	4.0	19.6
02PI3100	4.8	<20	.190	.020	30	<.0005	470	<20	4.7	19.4
02PI3200	4.8	<20	.130	.010	30	<.0005	320	<20	3.6	17.7
02PI4100	3.6	<20	.110	.010	15	<.0005	200	<20	4.9	19.6
02PI4200	3.6	<20	.110	.005	15	<.0005	480	<20	3.4	18.3
02PI5100	4.8	<20	.140	.010	100	<.0005	280	<20	4.7	19.2
02PI5200	4.2	<20	.140	.005	30	<.0005	280	<20	3.9	20.6
Potatoes, Cumberland County, New Jersey										
03PI1100	3.6	<20	.150	.020	30	.0150	380	<20	5.7	16.2
03PI1200	3.6	<20	.160	.020	30	.0010	520	<20	6.3	15.8
03PI2100	4.8	<20	.170	.020	50	.0070	370	<20	5.9	13.9
03PI2200	3.6	<20	.140	.020	70	.0150	350	<20	5.3	14.7
03PI3100	3.6	<20	.160	.020	70	.0050	350	<20	5.6	14.7
03PI3200	4.8	<20	.190	.020	70	.0030	380	<20	6.3	12.9
03PI4100	4.8	<20	.150	.020	30	.0010	360	<20	4.8	21.1
03PI4200	4.8	<20	.180	.040	50	.0050	350	<20	5.8	16.3
03PI5100	3.6	<20	.150	.020	30	.0030	380	<20	5.1	16.6
03PI5200	3.6	<20	.140	.020	30	.0010	280	20	7.0	14.7
Potatoes, Twin Falls County, Idaho										
08PI1100	2.4	<20	.075	.010	70	<.0005	260	<20	3.1	19.7
08PI1200	3.6	<20	.080	.010	70	.0010	240	<20	3.2	19.1
08PI2100	3.6	<20	.120	.010	70	.0020	310	<20	4.2	17.8
08PI2200	3.6	<20	.130	.020	100	<.0005	370	<20	4.8	15.3
08PI3100	2.4	50	.085	.010	100	.0050	300	<20	2.8	20.1
08PI3200	3.6	<20	.090	.010	100	.0070	300	<20	2.6	22.8
08PI4100	3.6	<20	.110	.020	70	<.0005	380	<20	4.0	17.0
08PI4200	2.4	<20	.095	.010	70	.0015	340	<20	3.1	18.1
08PI5100	6.0	<20	.065	.010	100	.0020	140	<20	2.6	22.1
08PI5200	2.4	<20	.095	.005	50	<.0005	200	<20	3.4	21.3
Potatoes, Yakima County, Washington										
09PI1100	4.8	<20	.140	.005	150	.0005	280	<20	4.6	18.6
09PI1200	4.8	<20	.130	.020	70	.0007	340	<20	4.9	17.6
09PI2100	4.8	<20	.140	.010	70	.0015	280	<20	4.6	19.2
09PI2200	4.8	<20	.130	.010	70	.0010	350	<20	5.0	17.4
09PI3100	4.8	<20	.110	.005	150	.0015	420	<20	3.5	23.0
09PI3200	4.8	<20	.100	.005	100	<.0005	630	<20	3.2	23.1
09PI4100	4.8	<20	.110	.005	150	.0005	390	<20	3.3	24.9
09PI4200	4.8	<20	.110	.010	100	.0015	420	<20	3.5	23.3
09PI5100	3.6	<20	.120	.010	100	<.0005	420	<20	3.8	22.2
09PI5200	4.8	<20	.100	.005	100	<.0005	420	<20	3.6	21.7

Table 20.--Concentrations of elements reported in samples of potatoes and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting potatoes, Wayne County, New York											
02PI110S	43 4 0	76 45 0	173,046	4.0	13.9	20	300	<1.0	2.18	.89	5
02PI210S	43 4 0	76 45 0	172,910	3.3	7.7	20	500	<1.0	1.99	.66	5
02PI310S	43 4 0	76 45 0	173,043	3.9	24.3	20	300	<1.0	12.20	.61	5
02PI410S	43 4 0	76 45 0	172,889	3.2	22.2	20	300	<1.0	3.41	.69	5
02PI510S	43 4 0	76 45 0	172,797	.8	6.2	<10	70	<1.0	39.30	4.31	<3
Soils supporting potatoes, Cumberland County, New Jersey											
03PI110S	39 31 0	75 13 0	172,908	3.7	46.1	70	500	2.0	1.67	.40	5
03PI210S	39 31 0	75 13 0	172,982	4.1	38.3	50	500	2.0	1.35	.40	7
03PI310S	39 31 0	75 13 0	172,925	3.8	38.5	70	500	2.0	1.44	.36	7
03PI410S	39 31 0	75 13 0	172,859	4.1	27.7	50	300	1.0	.88	.34	7
03PI510S	39 31 0	75 13 0	172,913	3.6	24.3	70	500	1.0	.97	.39	5
Soils supporting potatoes, Twin Falls County, Idaho											
08PI110S	42 49 0	114 58 0	172,979	4.8	3.7	20	700	1.5	1.49	1.96	7
08PI210S	42 49 0	114 58 0	172,904	4.3	4.2	30	700	1.0	1.93	3.88	7
08PI310S	42 49 0	114 58 0	172,917	4.2	4.9	30	700	1.0	1.67	4.04	7
08PI410S	42 49 0	114 58 0	173,115	4.7	4.5	30	500	1.0	2.42	5.41	15
08PI510S	42 49 0	114 58 0	173,029	4.6	4.8	50	1,000	1.0	1.59	2.94	10
Soils supporting potatoes, Yakima County, Washington											
09PI110S	46 26 0	120 33 0	173,058	7.0	6.9	<10	700	1.0	.96	2.64	20
09PI210S	46 26 0	120 33 0	172,999	6.6	6.6	<10	700	1.0	.91	2.87	30
09PI310S	46 24 0	120 31 0	173,088	7.2	7.3	<10	700	1.0	.71	2.62	15
09PI410S	46 24 0	120 31 0	172,852	7.0	6.0	<10	500	1.0	.73	2.68	15
09PI510S	46 24 0	120 31 0	173,148	7.9	8.8	<10	500	1.0	.55	2.82	15

Table 20.--Concentrations of elements reported in samples of potatoes and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting potatoes, Wayne County, New York											
02PI110S	30	30	<400	1.45	10	1.66	.024	1.33	<30	17	.33
02PI210S	15	7	600	1.25	10	1.16	.047	1.36	<30	20	.33
02PI310S	30	50	<400	1.14	10	1.55	.078	1.15	<30	22	.23
02PI410S	20	7	<400	1.08	10	1.16	.060	1.19	<30	19	.26
02PI510S	5	20	500	.67	<5	.31	.310	.27	<30	<5	.12
Soils supporting potatoes, Cumberland County, New Jersey											
03PI110S	70	150	700	1.98	10	1.52	.265	1.47	150	20	.39
03PI210S	70	150	600	1.98	10	1.21	.145	1.45	70	22	.36
03PI310S	70	150	700	2.15	15	1.26	.210	1.45	70	23	.34
03PI410S	70	100	500	1.95	10	1.18	.250	1.28	500	21	.36
03PI510S	30	150	1,200	1.79	10	1.33	.152	1.32	50	20	.30
Soils supporting potatoes, Twin Falls County, Idaho											
08PI110S	50	15	400	1.99	15	1.12	.032	1.83	30	24	.91
08PI210S	50	15	500	1.90	10	.93	.030	1.82	30	21	1.04
08PI310S	50	15	500	1.95	15	1.22	.035	1.85	<30	22	.96
08PI410S	50	50	500	1.96	15	1.13	.023	1.63	<30	21	1.10
08PI510S	70	20	600	1.98	15	1.35	.037	1.78	50	23	.99
Soils supporting potatoes, Yakima County, Washington											
09PI110S	50	50	500	5.14	20	1.52	.034	1.63	30	26	1.33
09PI210S	50	70	700	5.04	15	1.53	.041	1.51	<30	25	1.45
09PI310S	50	50	<400	4.43	15	1.31	.026	1.23	<30	22	1.16
09PI410S	100	20	<400	4.57	20	1.53	.028	1.27	<30	19	1.14
09PI510S	70	30	<400	4.66	15	1.30	.031	1.22	<30	23	1.15

Table 20.--Concentrations of elements reported in samples of potatoes and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting potatoes, Wayne County, New York											
02PI110S	200	1.04	10	7	10	40	<.08	5	.47	35	.98
02PI210S	150	.93	<10	5	15	50	<.08	3	.45	35	.44
02PI310S	150	.76	<10	10	20	30	<.08	5	.58	30	2.38
02PI410S	200	.91	<10	5	15	40	.09	3	.28	36	.53
02PI510S	70	<.07	<10	5	10	<20	.15	<3	.13	3	<.10
Soils supporting potatoes, Cumberland County, New Jersey											
03PI110S	200	.46	10	15	20	70	<.08	7	.75	35	1.34
03PI210S	200	.43	15	10	20	75	.08	7	.44	35	3.44
03PI310S	300	.45	15	15	20	65	<.08	7	<.10	34	<.10
03PI410S	300	.45	15	10	20	60	<.08	<3	.22	35	1.28
03PI510S	150	.48	10	15	20	65	<.08	7	.23	36	.97
Soils supporting potatoes, Twin Falls County, Idaho											
08PI110S	200	.95	15	15	20	80	<.08	7	<.10	32	1.87
08PI210S	200	1.02	10	20	15	70	<.08	7	<.10	31	.80
08PI310S	300	.99	10	15	15	75	<.08	7	<.10	32	1.53
08PI410S	300	.88	<10	30	15	60	<.08	5	<.10	29	2.55
08PI510S	500	.97	10	20	20	75	<.08	10	.21	31	1.02
Soils supporting potatoes, Yakima County, Washington											
09PI110S	700	1.74	10	30	15	70	<.08	20	<.10	27	.90
09PI210S	1,500	1.83	10	30	15	65	<.08	20	<.10	27	1.44
09PI310S	700	2.17	10	30	10	50	<.08	20	<.10	27	.63
09PI410S	500	2.09	<10	30	10	45	.08	20	.16	27	.79
09PI510S	500	2.08	10	30	10	40	<.08	20	<.10	28	1.20

Table 20.--Concentrations of elements reported in samples of potatoes and in samples of their supporting soils--continued

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting potatoes, Wayne County, New York										
02PI110S	150	5.3	.40	2.2	50	15	2.0	64	500	6.8
02PI210S	150	5.3	.36	1.6	30	15	1.5	49	200	6.4
02PI310S	100	4.2	.39	2.6	30	15	2.0	47	300	5.6
02PI410S	100	4.1	.41	2.2	30	10	1.0	36	200	6.5
02PI510S	70	--	.05	4.5	<7	<10	<1.0	38	<10	4.9
Soils supporting potatoes, Cumberland County, New Jersey										
03PI110S	100	12.9	.61	4.4	50	30	5.0	61	200	6.3
03PI210S	70	12.5	.62	4.7	70	50	5.0	51	200	4.8
03PI310S	100	15.2	.61	4.9	70	50	5.0	50	300	5.1
03PI410S	70	10.5	.63	4.7	50	70	5.0	47	300	5.6
03PI510S	100	12.6	.65	4.5	50	30	3.0	45	300	5.7
Soils supporting potatoes, Twin Falls County, Idaho										
08PI110S	200	15.0	.33	2.6	70	20	2.0	73	150	8.0
08PI210S	200	12.0	.31	2.6	50	30	3.0	63	200	8.3
08PI310S	200	12.8	.31	2.6	70	15	1.5	58	150	8.3
08PI410S	200	9.7	.30	2.7	70	15	2.0	69	200	8.3
08PI510S	300	6.6	.33	3.2	100	30	3.0	69	500	8.0
Soils supporting potatoes, Yakima County, Washington										
09PI110S	300	9.5	.76	2.1	200	30	3.0	95	150	7.3
09PI210S	500	9.3	.72	2.1	200	30	--	98	200	7.6
09PI310S	300	6.4	.60	1.9	150	20	2.0	92	150	6.7
09PI410S	500	8.7	.67	1.7	150	15	2.0	92	100	7.1
09PI510S	300	6.1	.65	1.8	200	20	3.0	90	150	6.9

Table 21.--Concentrations of elements reported in samples of snap beans and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Snap beans, Berrien County, Michigan											
01GB1100	42 3 0	86 22 0	417,254	<1	.05	<.05	200	200	5.4	.6	1
01GB1200	42 3 0	86 22 0	417,816	<1	.07	<.05	200	200	5.6	.2	<1
Snap beans, Wayne County, New York											
02GB1100	43 14 0	76 52 0	417,623	<1	.05	<.05	150	200	11.0	.2	<1
02GB1200	43 14 0	76 52 0	417,499	<1	.07	<.05	150	150	9.4	.4	3
02GB2100	43 14 0	76 52 0	417,082	<1	.07	<.05	300	700	8.2	2.0	7
02GB2200	43 14 0	76 52 0	417,637	<1	.05	<.05	300	100	9.7	.2	6
02GB3100	43 14 0	76 52 0	417,183	<1	.07	--	150	150	9.0	.4	2
02GB3200	43 14 0	76 52 0	417,405	<1	.30	<.05	150	300	9.8	.2	<1
02GB4100	43 14 0	76 52 0	417,485	<1	.10	<.05	300	500	11.0	.8	1
02GB4200	43 14 0	76 52 0	417,450	2	.30	<.05	200	200	10.0	.6	<1
02GB5100	43 14 0	76 52 0	417,677	<1	.15	<.05	300	200	8.5	.2	1
02GB5200	43 14 0	76 52 0	417,418	<1	.07	<.05	150	100	10.0	.2	<1
Snap beans, Cumberland County, New Jersey											
03GB1100	39 30 0	75 12 0	417,335	<1	.07	<.05	200	200	4.8	.2	3
03GB1200	39 30 0	75 12 0	417,342	<1	.15	<.05	150	200	5.4	.2	2
03GB2100	39 30 0	75 12 0	417,136	<1	.15	--	100	100	8.2	.2	1
03GB2200	39 30 0	75 12 0	417,500	<1	.10	.05	150	100	7.8	.2	1
03GB3100	39 30 0	75 12 0	417,423	<1	.07	<.05	100	50	5.2	.2	<1
03GB3200	39 30 0	75 12 0	417,300	<1	.15	<.05	200	100	5.4	.2	1
03GB4100	39 30 0	75 14 0	417,344	<1	.50	.10	150	100	5.8	.2	1
03GB4200	39 30 0	75 14 0	417,362	<1	1.00	.10	100	200	5.8	.2	<1
03GB5100	39 30 0	75 14 0	417,819	<1	.70	.05	100	150	5.4	.4	2
03GB5200	39 30 0	75 14 0	417,186	<1	.50	--	200	150	5.6	.4	1
Snap beans, Palm Beach County, Florida											
04GB1100	26 35 0	80 6 0	417,602	<1	.05	<.05	100	20	7.8	.8	<1
04GB1200	26 35 0	80 6 0	417,250	<1	.02	<.05	150	20	8.0	.6	<1
04GB2100	26 35 0	80 6 0	417,567	<1	.07	<.05	150	20	8.0	.8	<1
04GB2200	26 35 0	80 6 0	417,275	<1	.07	<.05	150	15	7.8	1.0	<1
04GB3100	26 35 0	80 6 0	417,541	<1	.02	<.05	300	30	11.0	.6	<1
04GB3200	26 35 0	80 6 0	417,807	<1	.07	<.05	200	20	11.0	.4	<1
04GB4100	26 35 0	80 6 0	417,242	<1	.02	<.05	100	7	11.0	.4	<1
04GB4200	26 35 0	80 6 0	417,627	<1	.03	<.05	150	30	11.0	.4	<1
04GB5100	26 35 0	80 6 0	417,259	<1	.07	<.05	150	30	7.2	.2	<1
04GB5200	26 35 0	80 6 0	417,548	<1	.15	<.05	150	50	4.2	1.0	<1
Snap beans, Twin Falls County, Idaho											
08GB1100	42 31 0	114 34 0	417,775	<1	.15	<.05	300	200	8.0	.2	2
08GB1200	42 31 0	114 34 0	417,455	<1	.05	<.05	200	150	8.0	.4	1
08GB2100	42 31 0	114 34 0	417,168	<1	.15	--	300	200	9.8	.2	2
08GB2200	42 31 0	114 34 0	417,355	<1	.05	<.05	200	100	9.0	.2	<1
08GB3100	42 31 0	114 34 0	417,192	<1	.15	<.05	300	150	10.0	.2	1
08GB3200	42 31 0	114 34 0	417,155	<1	.10	--	300	150	9.2	.4	1
08GB4100	42 31 0	114 34 0	417,028	<1	.07	<.05	200	100	7.0	1.0	<1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Snap beans, Berrien County, Michigan											
01GB1100	<1.5	100	.07	<.01	40	<4	3	300	10	.040	30
01GB1200	<1.5	300	.20	<.01	38	<4	5	500	20	.020	70
Snap beans, Wayne County, New York											
02GB1100	2.0	50	.10	<.01	35	<4	5	300	10	.015	30
02GB1200	2.0	50	.15	<.01	34	<4	5	300	10	.015	30
02GB2100	2.0	50	.10	<.01	31	<4	5	1,000	7	.016	70
02GB2200	3.0	50	.30	<.01	33	<4	10	500	20	.015	20
02GB3100	1.5	50	.07	<.01	35	<4	5	300	15	.020	20
02GB3200	<1.5	50	.10	<.01	36	<4	5	700	<7	.020	70
02GB4100	3.0	50	.10	<.01	33	<4	5	1,000	15	.015	70
02GB4200	5.0	30	.15	<.01	33	<4	5	700	15	.035	70
02GB5100	3.0	70	.30	<.01	36	<4	5	300	30	.010	30
02GB5200	<1.5	50	.10	<.01	35	<4	5	200	30	.020	15
Snap beans, Cumberland County, New Jersey											
03GB1100	<1.5	70	.07	<.01	34	<4	3	300	50	.035	20
03GB1200	2.0	70	.10	<.01	39	<4	3	300	50	.025	30
03GB2100	1.5	50	.10	<.01	37	<4	3	150	30	.020	15
03GB2200	2.0	70	.10	<.01	36	<4	5	150	30	.025	30
03GB3100	<1.5	70	.07	<.01	40	<4	3	200	70	.015	30
03GB3200	2.0	70	.10	.01	39	<4	3	300	30	.015	30
03GB4100	10.0	70	.20	.01	37	<4	3	200	15	.045	30
03GB4200	7.0	70	.20	.01	37	<4	5	200	10	.055	30
03GB5100	10.0	150	.30	<.01	36	<4	5	150	30	.030	20
03GB5200	10.0	70	.15	<.01	35	<4	5	150	15	.035	30
Snap beans, Palm Beach County, Florida											
04GB1100	7.0	100	.15	<.01	35	<4	3	300	20	.170	15
04GB1200	7.0	100	.07	<.01	34	<4	3	300	15	.120	15
04GB2100	15.0	100	.15	<.01	37	<4	5	300	20	.140	15
04GB2200	7.0	70	.10	<.01	36	<4	3	300	30	.080	15
04GB3100	3.0	100	.10	<.01	31	<4	5	500	15	.040	30
04GB3200	2.0	150	.20	<.01	31	<4	5	500	20	.030	30
04GB4100	2.0	70	.07	<.01	35	<4	3	200	30	.040	<10
04GB4200	2.0	100	.15	<.01	34	<4	3	700	15	.040	15
04GB5100	7.0	70	.07	<.01	37	<4	1	150	15	.110	<10
04GB5200	7.0	30	.10	<.01	36	<4	2	1,000	15	.210	30
Snap beans, Twin Falls County, Idaho											
08GB1100	7.0	100	.20	<.01	34	<4	5	300	200	.045	30
08GB1200	<1.5	70	.10	<.01	37	23	5	200	100	.055	20
08GB2100	1.5	70	.10	<.01	34	15	5	200	150	.065	15
08GB2200	<1.5	100	.10	<.01	36	24	3	200	150	.055	20
08GB3100	2.0	70	.10	.01	32	27	3	200	150	.055	20
08GB3200	1.5	100	.10	<.01	33	11	5	300	100	.040	20
08GB4100	<1.5	50	.07	<.01	35	9	5	200	100	.048	20

Table 21.--Concentrations of elements reported in samples of snap beans and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.
Snap beans, Berrien County, Michigan										
01GB1100	4.8	<20	.17	.04	300	.0010	400	<20	5.4	23.2
01GB1200	4.8	<20	.18	.04	70	.0007	710	<20	5.7	20.7
Snap beans, Wayne County, New York										
02GB1100	3.6	<20	.16	.02	200	.0030	480	<20	7.5	7.0
02GB1200	3.6	<20	.15	.02	500	.0050	440	<20	6.6	7.3
02GB2100	3.6	<20	.15	.04	500	.0070	540	<20	6.9	7.6
02GB2200	4.8	<20	.15	.02	150	.0030	430	<20	6.3	7.3
02GB3100	3.6	<20	.15	.02	300	.0100	470	<20	7.2	7.4
02GB3200	4.8	<20	.14	.02	300	.0030	670	<20	7.9	7.0
02GB4100	3.6	<20	.15	.02	300	.0030	500	<20	6.0	8.1
02GB4200	3.6	<20	.13	.02	300	.0100	540	<20	5.8	7.7
02GB5100	4.8	<20	.20	.02	150	.0050	460	<20	8.1	7.0
02GB5200	3.6	<20	.11	.02	500	.0030	410	<20	8.1	6.4
Snap beans, Cumberland County, New Jersey										
03GB1100	4.8	<20	.18	.06	200	.0050	540	<20	7.1	10.1
03GB1200	4.8	<20	.22	.08	200	.0100	540	<20	7.7	9.8
03GB2100	4.8	<20	.16	.04	150	.0100	450	<20	10.0	5.8
03GB2200	4.8	<20	.19	.04	150	.0050	400	<20	9.1	6.5
03GB3100	4.8	<20	.17	.04	150	.0030	560	<20	9.2	12.2
03GB3200	4.8	<20	.20	.04	200	.0150	560	<20	9.2	15.0
03GB4100	3.6	<20	.11	.04	150	.0200	450	20	6.5	13.0
03GB4200	3.6	<20	.12	.04	200	.0300	540	30	6.6	7.6
03GB5100	3.6	<20	.20	.04	150	.0500	470	30	7.5	10.2
03GB5200	3.6	<20	.16	.04	150	.0300	520	20	7.8	9.0
Snap beans, Palm Beach County, Florida										
04GB1100	4.8	<20	.25	.02	300	.0070	760	<20	8.2	8.2
04GB1200	3.6	<20	.12	.02	300	.0050	720	<20	6.9	8.6
04GB2100	4.8	<20	.26	.02	300	.0100	700	100	8.7	7.4
04GB2200	4.8	<20	.22	.02	700	.0070	650	70	8.9	7.5
04GB3100	6.0	<20	.20	.02	700	.0015	760	<20	6.7	6.9
04GB3200	6.0	<20	.10	.02	500	.0020	800	<20	5.7	7.7
04GB4100	4.8	<20	.15	.02	500	.0030	700	<20	8.6	6.4
04GB4200	4.8	<20	.18	.02	500	.0030	750	<20	6.3	7.8
04GB5100	3.6	<20	.26	.02	500	.0070	670	<20	10.0	6.7
04GB5200	3.6	<20	.26	.04	700	.0100	750	<20	9.3	8.0
Snap beans, Twin Falls County, Idaho										
08GB1100	4.8	<20	.16	.02	500	.0015	450	<20	5.8	29.8
08GB1200	4.8	<20	.17	.04	500	.0020	600	<20	5.5	31.2
08GB2100	4.8	<20	.19	.02	500	.0030	560	<20	5.8	25.6
08GB2200	4.8	<20	.12	.02	500	.0015	590	<20	5.6	24.0
08GB3100	4.8	<20	.18	.06	500	.0050	540	<20	5.5	27.0

Table 21.--Concentrations of elements reported in samples of snap beans and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Snap beans, Twin Falls County, Idaho--continued											
08GB4200	42 31 0	114 34 0	417,609	<1	.05	<.05	300	150	8.0	.2	1
08GB5100	42 31 0	114 34 0	417,785	<1	.10	<.05	200	300	8.2	.2	1
08GB5200	42 31 0	114 34 0	417,323	<1	.15	<.05	200	150	8.0	.2	1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Snap beans, Twin Falls County, Idaho--continued											
08GB4200	<1.5	70	.10	<.01	36	5	5	200	150	.040	15
08GB5100	<1.5	150	.15	<.01	36	19	5	200	150	.030	30
08GB5200	3.0	70	.15	<.01	35	9	5	200	150	.045	20

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
Snap beans, Twin Falls County, Idaho--continued										
08GB4200	4.8	<20	.19	.04	300	.0010	460	<20	5.8	24.3
08GB5100	4.8	<20	.20	.04	300	.0020	570	<20	6.2	22.1
08GB5200	4.8	<20	.15	.02	500	.0030	540	<20	5.9	20.9

Table 21.--Concentrations of elements reported in samples of snap beans and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting snap beans, Berrien County, Michigan											
01GB110S	42 3 0	86 22 0	172,879	2.5	4.83	<10	300	<1.0	.60	.40	5
01GB120S	42 3 0	86 22 0	173,149	3.1	6.24	<10	300	<1.0	.56	.46	5
Soils supporting snap beans, Wayne County, New York											
02GB110S	43 14 0	76 52 0	173,059	4.7	6.69	70	500	<1.0	2.08	.67	7
02GB210S	43 14 0	76 52 0	172,801	4.3	5.44	20	500	1.0	1.96	.34	7
02GB310S	43 14 0	76 52 0	172,847	4.7	3.76	30	500	1.0	1.53	.44	7
02GB410S	43 14 0	76 52 0	172,992	5.1	4.19	30	500	1.0	1.85	.42	10
02GB510S	43 14 0	76 52 0	173,079	4.4	6.19	50	500	1.0	1.59	.42	7
Soils supporting snap beans, Cumberland County, New Jersey											
03GB110S	39 30 0	75 12 0	172,918	2.6	8.68	30	300	<1.0	.84	.25	5
03GB210S	39 30 0	75 12 0	172,827	2.1	5.30	20	200	<1.0	.87	.22	<3
03GB310S	39 30 0	75 12 0	172,961	2.7	7.30	30	200	1.0	1.27	.33	5
03GB410S	39 30 0	75 14 0	172,924	1.4	4.54	20	200	<1.0	.54	.15	5
03GB510S	39 30 0	75 14 0	173,152	4.9	7.63	50	200	<1.0	.56	6.98	<3
Soils supporting snap beans, Palm Beach County, Florida											
04GB110S	26 35 0	80 6 0	173,047	7.6	<.10	30	15	<1.0	.61	2.58	<3
04GB210S	26 35 0	80 6 0	173,031	<.3	.80	<10	30	<1.0	1.18	.18	<3
04GB310S	26 35 0	80 6 0	173,018	<.3	.34	200	30	<1.0	.58	.08	<3
04GB410S	26 35 0	80 6 0	172,874	<.3	<.10	100	20	<1.0	.91	.25	<3
04GB510S	26 35 0	80 6 0	172,881	<.3	.31	100	10	<1.0	1.45	.17	<3
Soils supporting snap beans, Twin Falls County, Idaho											
08GB110S	42 31 0	114 34 0	173,128	5.2	6.86	20	500	1.0	1.85	4.15	7
08GB210S	42 31 0	114 34 0	172,840	5.3	4.75	30	700	1.5	1.76	3.61	7
08GB310S	42 31 0	114 34 0	172,851	5.0	4.51	30	700	1.5	1.84	4.37	7
08GB410S	42 31 0	114 34 0	172,808	4.8	12.04	30	700	1.0	2.61	2.83	7
08GB510S	42 31 0	114 34 0	173,135	5.4	5.50	30	700	1.0	1.33	2.62	7

Table 21.--Concentrations of elements reported in samples of snap beans and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting snap beans, Berrien County, Michigan											
01GB110S	15.0	15	<400	1.43	5	1.30	.057	1.18	<30	11	.20
01GB120S	15.0	30	<400	1.48	7	.91	.039	1.23	<30	13	.20
Soils supporting snap beans, Wayne County, New York											
02GB110S	50.0	30	500	2.42	15	1.72	.086	1.60	50	38	.57
02GB210S	30.0	15	600	2.32	15	1.66	.060	1.57	30	30	.48
02GB310S	50.0	15	800	2.26	15	1.69	.052	1.60	<30	28	.51
02GB410S	50.0	20	500	2.32	15	1.44	.056	1.55	<30	35	.59
02GB510S	30.0	20	400	2.27	15	1.23	.035	1.57	30	32	.54
Soils supporting snap beans, Cumberland County, New Jersey											
03GB110S	50.0	15	<400	1.27	7	1.16	.055	.87	50	16	.16
03GB210S	15.0	10	<400	.98	5	1.05	.020	.70	30	13	.13
03GB310S	20.0	20	500	1.32	7	1.20	1.410	.94	50	16	.20
03GB410S	15.0	10	<400	1.34	5	.92	.041	.60	<30	11	.13
03GB510S	20.0	15	<400	2.23	5	1.15	.023	1.78	<30	13	.16
Soils supporting snap beans, Palm Beach County, Florida											
04GB110S	2.0	7	<400	1.90	<5	.97	.010	2.38	<30	<5	.08
04GB210S	3.0	10	<400	<.03	<5	.21	.025	.14	<30	<5	<.06
04GB310S	3.0	7	<400	<.03	<5	1.01	.022	.10	<30	<5	<.06
04GB410S	3.0	5	<400	<.03	<5	1.05	.017	.10	<30	<5	<.06
04GB510S	1.5	2	<400	<.03	<5	1.09	.010	.11	<30	<5	<.06
Soils supporting snap beans, Twin Falls County, Idaho											
08GB110S	50.0	20	600	2.73	15	1.24	.031	1.68	30	29	1.15
08GB210S	70.0	15	500	2.43	15	1.30	.052	1.81	30	26	1.08
08GB310S	50.0	20	600	2.47	15	1.55	.040	1.70	30	25	1.16
08GB410S	70.0	15	500	2.60	15	1.35	.030	1.81	30	27	1.05
08GB510S	50.0	20	700	2.57	15	1.33	.035	1.79	50	29	.96

Table 21.--Concentrations of elements reported in samples of snap beans and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting snap beans, Berrien County, Michigan											
01GB110S	1,500	.59	<10	7	15	45	<.08	5	<.10	37	.83
01GB120S	1,500	.56	<10	10	15	40	<.08	5	<.10	38	15.31
Soils supporting snap beans, Wayne County, New York											
02GB110S	700	1.01	15	20	15	75	<.08	10	<.10	32	1.00
02GB210S	300	.87	10	10	15	75	<.08	7	.14	34	.93
02GB310S	500	.98	10	15	15	80	<.08	7	.31	34	.71
02GB410S	500	.91	10	20	15	75	<.08	7	<.10	33	1.40
02GB510S	500	.94	10	15	20	80	.09	7	<.10	31	.50
Soils supporting snap beans, Cumberland County, New Jersey											
03GB110S	200	.23	10	10	15	45	<.08	5	<.10	36	1.78
03GB210S	150	.20	<10	5	10	35	<.08	<3	<.10	40	.73
03GB310S	150	.27	10	5	15	55	<.08	5	.14	36	1.14
03GB410S	200	.15	10	5	15	25	<.08	3	.47	38	.51
03GB510S	150	.19	10	<2	10	25	<.08	5	<.10	28	.89
Soils supporting snap beans, Palm Beach County, Florida											
04GB110S	50	<.07	<10	<2	<10	<20	<.08	<3	.22	29	<.10
04GB210S	70	<.07	<10	<2	<10	<20	<.08	<3	1.46	45	<.10
04GB310S	15	<.07	<10	<2	<10	<20	<.08	<3	<.10	39	.22
04GB410S	50	<.07	<10	5	<10	<20	<.08	<3	<.10	36	<.10
04GB510S	2	<.07	<10	<2	<10	<20	<.08	<3	<.10	42	<.10
Soils supporting snap beans, Twin Falls County, Idaho											
08GB110S	500	1.02	10	20	15	75	<.08	10	.23	29	1.03
08GB210S	500	1.05	10	15	20	80	<.08	7	.19	30	.58
08GB310S	300	1.05	10	15	15	75	<.08	7	<.10	28	1.22
08GB410S	500	1.01	10	15	20	80	<.08	10	<.10	30	1.47
08GB510S	500	1.06	10	20	15	70	<.08	7	.11	31	1.07

Table 21.--Concentrations of elements reported in samples of snap beans and in samples of their supporting soils--continued

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting snap beans, Berrien County, Michigan										
01GB110S	70	3.4	.21	1.37	20	15	1.5	53	150	6.4
01GB120S	50	4.7	.24	1.41	20	10	1.5	55	150	6.3
Soils supporting snap beans, Wayne County, New York										
02GB110S	150	8.5	.45	3.24	100	30	3.0	81	300	6.2
02GB210S	150	9.2	.50	2.56	70	15	1.5	69	150	4.8
02GB310S	150	9.3	.47	2.16	70	15	1.5	75	150	6.0
02GB410S	150	6.7	.51	2.48	70	20	2.0	84	150	5.3
02GB510S	150	6.8	.45	2.67	70	20	2.0	76	300	6.2
Soils supporting snap beans, Cumberland County, New Jersey										
03GB110S	50	9.4	.56	2.79	30	20	2.0	46	200	6.0
03GB210S	20	--	.46	2.70	20	15	1.5	35	150	6.2
03GB310S	50	10.7	.49	2.92	30	20	2.0	36	200	6.5
03GB410S	15	9.5	.55	2.04	20	10	1.5	25	150	5.5
03GB510S	20	4.7	.26	2.67	30	15	1.5	37	500	6.7
Soils supporting snap beans, Palm Beach County, Florida										
04GB110S	<5	--	.28	.42	<7	<10	<1.0	<10	300	6.7
04GB210S	<5	--	.09	.64	<7	<10	<1.0	38	30	6.8
04GB310S	<5	--	.04	.69	<7	<10	<1.0	<10	300	6.2
04GB410S	<5	--	.04	.40	<7	15	1.5	10	30	7.9
04GB510S	<5	--	.07	.52	<7	<10	<1.0	<10	70	7.0
Soils supporting snap beans, Twin Falls County, Idaho										
08GB110S	200	10.5	.44	2.93	100	20	3.0	76	200	8.4
08GB210S	200	12.4	.40	2.85	70	20	2.0	78	150	8.3
08GB310S	300	12.2	.39	2.84	70	20	2.0	79	150	8.3
08GB410S	300	15.7	.44	3.05	70	20	2.0	89	150	8.1
08GB510S	200	8.1	.42	3.31	100	30	3.0	81	300	8.3

Table 22.--Concentrations of elements reported in samples of sweet corn and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Sweet corn, Berrien County, Michigan											
01C01100	42 3 0	86 22 0	417,778	<1	.050	<.05	70	<3	.24	.4	<1
01C01200	42 3 0	86 22 0	417,217	<1	<.015	<.05	70	7	.24	.4	1
01C02100	42 3 0	86 22 0	417,278	<1	<.015	<.05	<50	10	.34	.8	<1
01C02200	42 3 0	86 22 0	417,729	<1	<.015	<.05	100	7	.20	.4	<1
01C03100	41 58 0	86 18 0	417,333	<1	.020	.40	70	30	.80	4.0	<1
01C03200	41 58 0	86 18 0	417,571	<1	.500	.05	70	20	.40	2.5	<1
01C04100	41 57 0	86 21 0	417,340	<1	.020	.05	70	7	.20	.4	<1
01C04200	41 57 0	86 21 0	417,504	<1	<.015	<.05	50	<3	.12	.6	<1
01C05100	41 57 0	86 21 0	417,722	<1	<.015	<.05	70	<3	.14	.6	<1
01C05200	41 57 0	86 21 0	417,395	<1	.020	<.05	50	7	.20	.6	1
Sweet corn, Salem County, New Jersey											
03C01100	39 30 0	75 12 0	417,773	<1	<.015	<.05	<50	<3	.18	.4	<1
03C01200	39 30 0	75 12 0	417,089	<1	<.015	<.05	70	<3	.40	.4	1
03C02100	39 30 0	75 12 0	417,768	<1	.020	<.05	<50	<3	.16	.4	<1
03C02200	39 30 0	75 12 0	417,621	<1	<.015	<.05	<50	<3	.16	.2	<1
03C03100	39 36 0	75 14 0	417,475	<1	<.015	<.05	50	<3	.12	4.5	<1
03C03200	39 36 0	75 14 0	417,326	<1	<.015	<.05	<50	<3	.14	4.5	<1
03C04100	39 36 0	75 14 0	417,777	<1	.030	<.05	<50	<3	.12	5.5	<1
03C04200	39 36 0	75 14 0	417,719	<1	<.015	<.05	<50	<3	.18	6.5	<1
03C05100	39 36 0	75 14 0	417,631	<1	<.015	<.05	<50	<3	.13	5.0	<1
03C05200	39 36 0	75 14 0	417,784	<1	<.015	<.05	70	<3	.16	6.0	<1
Sweet corn, Palm Beach County, Florida											
04C01100	26 35 0	80 5 0	417,124	<1	.020	--	70	<3	.42	1.0	<1
04C01200	26 35 0	80 5 0	417,804	<1	<.015	<.05	150	<3	.44	2.5	<1
04C02100	26 35 0	80 5 0	417,748	<1	<.015	<.05	100	<3	.30	2.0	<1
04C02200	26 35 0	80 5 0	417,753	<1	<.015	<.05	50	<3	.30	2.5	<1
04C03100	26 35 0	80 5 0	417,434	<1	<.015	<.05	50	<3	.34	2.0	<1
04C03200	26 35 0	80 5 0	417,487	<1	<.015	<.05	100	<3	.32	1.5	<1
04C04100	26 35 0	80 5 0	417,156	<1	<.015	--	150	20	.30	2.5	<1
04C04200	26 35 0	80 5 0	417,555	<1	.030	<.05	70	<3	.30	2.0	<1
04C05100	26 35 0	80 5 0	417,440	<1	<.015	<.05	100	<3	.28	2.0	<1
04C05200	26 35 0	80 5 0	417,304	<1	<.015	<.05	70	<3	.46	1.0	<1
Sweet corn, Twin Falls County, Idaho											
08C01100	42 31 0	114 34 0	417,240	<1	.020	<.05	100	7	.26	.4	<1
08C01200	42 31 0	114 34 0	417,540	<1	.020	<.05	50	20	.14	.6	<1
08C02100	42 31 0	114 34 0	417,542	<1	.020	<.05	50	<3	.18	.4	<1
08C02200	42 31 0	114 34 0	417,582	<1	.020	<.05	50	<3	.14	.4	<1
08C03100	42 31 0	114 34 0	417,536	<1	.020	<.05	50	<3	.18	.6	<1
08C03200	42 31 0	114 34 0	417,568	<1	.030	<.05	50	7	.20	.2	<1
08C04100	42 31 0	114 34 0	417,767	<1	.030	<.05	50	<3	.20	.8	<1
08C04200	42 31 0	114 34 0	417,146	<1	<.015	--	70	5	.18	.8	1
08C05100	42 31 0	114 34 0	417,373	<1	.030	<.05	50	<3	.18	.2	<1
08C05200	42 31 0	114 34 0	417,686	<1	.100	<.05	70	7	.20	.4	<1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Sweet corn, Berrien County, Michigan											
01C01100	<1.5	50	.05	.01	40	<4	3	70	15	.0150	10
01C01200	<1.5	50	.05	<.01	38	<4	3	100	15	.0200	<10
01C02100	<1.5	50	.10	.01	40	<4	5	200	10	.0350	<10
01C02200	3.0	70	.10	<.01	40	<4	5	200	7	.0050	10
01C03100	<1.5	70	.05	<.01	40	<4	3	300	<7	.0250	<10
01C03200	<1.5	70	.10	.01	40	<4	3	150	<7	.0150	<10
01C04100	<1.5	30	.07	.01	40	<4	5	200	<7	.0150	20
01C04200	<1.5	30	.07	<.01	38	<4	5	150	<7	.0150	15
01C05100	<1.5	70	.15	<.01	40	<4	5	150	<7	.0100	20
01C05200	<1.5	70	.10	.01	34	<4	3	150	<7	.0250	10
Sweet corn, Salem County, New Jersey											
03C01100	<1.5	100	.15	<.01	38	<4	5	150	15	.0250	10
03C01200	1.5	50	.07	<.01	34	<4	7	150	15	.0400	<10
03C02100	<1.5	70	.05	<.01	36	<4	5	150	15	.0150	<10
03C02200	<1.5	50	.07	<.01	37	<4	5	100	15	.0250	<10
03C03100	<1.5	50	.15	<.01	40	<4	5	70	30	.0200	15
03C03200	<1.5	50	.07	<.01	40	<4	3	150	15	.0150	15
03C04100	<1.5	50	.05	.01	41	<4	3	70	15	.0200	15
03C04200	<1.5	70	.10	.01	40	<4	3	150	10	.0200	10
03C05100	<1.5	30	.05	<.01	42	<4	3	70	7	.0150	<10
03C05200	<1.5	100	.10	<.01	40	<4	7	150	7	.0150	15
Sweet corn, Palm Beach County, Florida											
04C01100	15.0	50	.05	<.01	43	<4	5	150	7	.0200	15
04C01200	<1.5	100	.10	<.01	37	<4	2	150	<7	.0075	10
04C02100	<1.5	70	.10	<.01	42	<4	3	200	<7	.0075	15
04C02200	<1.5	70	.05	<.01	41	<4	2	70	<7	.0100	<10
04C03100	<1.5	50	.05	.01	40	<4	3	150	<7	.0200	10
04C03200	<1.5	50	.07	<.01	40	<4	3	200	<7	.0300	15
04C04100	<1.5	70	.07	<.01	39	<4	5	150	<7	.0300	10
04C04200	30.0	50	.07	<.01	40	<4	3	150	7	.0300	10
04C05100	<1.5	50	.07	<.01	40	<4	5	200	<7	.0150	10
04C05200	<1.5	50	.07	<.01	40	<4	5	200	7	.0250	<10
Sweet corn, Twin Falls County, Idaho											
08C01100	<1.5	50	.05	<.01	42	<4	5	150	7	.0250	<10
08C01200	<1.5	50	.05	<.01	40	<4	3	150	10	.0150	<10
08C02100	3.0	50	.05	<.01	39	<4	3	150	<7	.0200	<10
08C02200	<1.5	30	.03	<.01	35	<4	3	100	7	.0200	<10
08C03100	<1.5	30	.05	<.01	42	<4	3	100	<7	.0350	<10
08C03200	<1.5	50	.05	<.01	38	<4	3	150	7	.0150	<10
08C04100	<1.5	50	.05	<.01	36	<4	3	150	<7	.0200	<10
08C04200	<1.5	50	.03	<.01	41	<4	5	150	10	.0200	<10
08C05100	<1.5	30	.05	<.01	37	<4	5	150	15	.0100	<10
08C05200	<1.5	70	.07	<.01	38	<4	5	150	15	.0075	<10

Table 22.--Concentrations of elements reported in samples of sweet corn and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
Sweet corn, Berrien County, Michigan										
01C01100	12	<20	.100	.020	20	<.0005	790	<20	2.1	26.0
01C01200	12	<20	.120	.020	20	<.0005	760	<20	2.3	28.1
01C02100	9	<20	.150	.010	15	<.0005	1,240	<20	3.5	21.4
01C02200	9	<20	.140	.020	15	<.0005	1,000	<20	2.8	20.1
01C03100	9	20	.220	.010	30	<.0005	1,240	<20	5.5	11.5
01C03200	12	<20	.210	.010	20	<.0005	1,140	<20	4.4	14.3
01C04100	12	<20	.140	.020	15	<.0005	1,560	<20	2.2	27.1
01C04200	9	<20	.150	.010	<10	<.0005	1,520	<20	2.2	28.7
01C05100	12	<20	.130	.020	10	<.0005	1,860	<20	2.5	31.5
01C05200	2	<20	.140	.010	15	.0070	1,800	<20	2.6	21.8
Sweet corn, Salem County, New Jersey										
03C01100	12	<20	.050	.040	<10	<.0005	880	<20	1.2	37.0
03C01200	12	<20	.060	.040	<10	.0007	940	<20	1.6	38.5
03C02100	12	<20	.060	.040	<10	<.0005	790	<20	1.8	33.4
03C02200	12	<20	.070	.040	<10	<.0005	810	<20	1.9	34.7
03C03100	12	<20	.090	.020	10	<.0005	980	<20	2.2	31.3
03C03200	9	20	.100	.020	15	<.0005	910	<20	2.5	29.8
03C04100	12	<20	.100	.010	<10	<.0005	980	<20	2.1	28.7
03C04200	9	<20	.100	.010	10	<.0005	1,060	<20	2.3	29.1
03C05100	9	<20	.110	.040	<10	<.0005	840	<20	2.3	29.6
03C05200	9	<20	.120	.040	15	<.0005	1,060	<20	2.5	26.8
Sweet corn, Palm Beach County, Florida										
04C01100	9	<20	.140	<.005	20	<.0005	1,400	<20	3.4	20.2
04C01200	9	<20	.130	.005	20	<.0005	1,600	<20	3.6	19.4
04C02100	9	<20	.140	.005	30	<.0005	1,500	<20	3.2	20.8
04C02200	9	<20	.130	.005	30	<.0005	1,220	<20	3.3	20.9
04C03100	9	<20	.170	.005	30	<.0005	1,400	<20	3.2	20.4
04C03200	9	<20	.140	.005	30	<.0005	2,100	<20	2.9	23.6
04C04100	9	<20	.130	.005	30	<.0005	1,320	<20	3.0	22.3
04C04200	9	100	.130	.010	15	<.0005	1,240	<20	2.8	21.5
04C05100	9	<20	.140	.005	30	<.0005	1,420	<20	3.2	21.5
04C05200	9	<20	.170	<.005	30	<.0005	1,050	<20	5.0	16.5
Sweet corn, Twin Falls County, Idaho										
08C01100	12	<20	.120	.010	30	<.0005	560	20	3.2	23.3
08C01200	9	<20	.095	.010	10	<.0005	800	<20	2.0	27.7
08C02100	9	<20	.130	.010	20	<.0005	530	<20	2.5	23.6
08C02200	12	<20	.090	.010	15	<.0005	420	<20	2.1	26.8
08C03100	9	<20	.095	.005	15	<.0005	500	<20	2.4	23.0
08C03200	12	<20	.100	.010	30	<.0005	560	<20	2.1	25.5
08C04100	9	<20	.100	.005	20	<.0005	520	<20	2.5	23.2
08C04200	9	<20	.110	.020	15	<.0005	670	<20	3.0	22.8
08C05100	9	<20	.090	.020	20	<.0005	780	<20	2.5	29.7
08C05200	12	<20	.090	.010	15	<.0005	640	<20	1.9	27.1

Table 22.--Concentrations of elements reported in samples of sweet corn and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting sweet corn, Berrien County, Michigan											
01C0110S	42 3 0	86 22 0	173,130	1.6	47.73	<10	500	<1.0	.57	.37	3
01C0210S	42 3 0	86 22 0	172,891	2.5	4.70	20	500	<1.0	.64	.39	7
01C0310S	41 58 0	86 18 0	172,916	2.2	7.66	50	300	<1.0	1.47	.42	5
01C0410S	41 57 0	86 21 0	172,921	2.7	4.52	20	500	<1.0	.68	.31	5
01C0510S	41 57 0	86 21 0	173,098	3.4	3.86	30	300	<1.0	.53	.33	7
Soils supporting sweet corn, Salem County, New Jersey											
03C0110S	39 30 0	75 12 0	173,127	2.1	5.12	30	200	<1.0	.90	.27	3
03C0210S	39 30 0	75 12 0	173,124	1.9	4.05	20	200	<1.0	.55	.15	<3
03C0310S	39 36 0	75 14 0	172,986	.6	3.35	50	150	<1.0	.59	.15	<3
03C0410S	39 36 0	75 14 0	173,129	1.2	10.54	30	200	<1.0	.96	.15	<3
03C0510S	39 36 0	75 14 0	173,061	.9	6.92	30	150	<1.0	1.24	.19	<3
Soils supporting sweet corn, Palm Beach County, Florida											
04C0110S	26 35 0	80 5 0	172,820	<.3	<.10	50	15	<1.0	.71	.09	<3
04C0210S	26 35 0	80 5 0	173,114	<.3	<.10	50	15	<1.0	.43	.08	<3
04C0310S	26 35 0	80 5 0	172,965	<.3	<.10	70	15	<1.0	.67	.11	<3
04C0410S	26 35 0	80 5 0	172,836	<.3	<.10	50	20	<1.0	.32	.08	<3
04C0510S	26 35 0	80 5 0	172,969	<.3	.12	<10	10	<1.0	.63	.10	<3
Soils supporting sweet corn, Twin Falls County, Idaho											
08C0110S	42 31 0	114 34 0	172,873	4.7	3.54	20	700	1.0	2.57	5.56	7
08C0210S	42 31 0	114 34 0	173,019	4.1	7.26	30	700	1.0	2.70	6.41	7
08C0310S	42 31 0	114 34 0	173,017	4.4	6.14	30	700	1.0	2.28	5.31	10
08C0410S	42 31 0	114 34 0	173,123	5.8	3.62	20	700	1.5	1.61	2.86	10
08C0510S	42 31 0	114 34 0	172,938	4.3	5.33	20	500	1.0	2.95	7.88	5

Table 22.--Concentrations of elements reported in samples of sweet corn and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting sweet corn, Berrien County, Michigan											
01C0110S	70	15	<400	.91	7	1.19	.023	.93	<30	12	.20
01C0210S	20	15	400	.99	10	1.14	.038	1.53	<30	10	.21
01C0310S	20	15	<400	1.02	5	1.04	.050	1.58	<30	9	.16
01C0410S	30	10	<400	1.00	5	.92	.082	1.53	<30	13	.19
01C0510S	30	10	<400	1.33	10	1.22	.043	1.72	<30	17	.27
Soils supporting sweet corn, Salem County, New Jersey											
03C0110S	300	15	400	1.12	5	1.35	.032	.67	30	12	.15
03C0210S	20	15	<400	1.04	5	1.29	.023	.53	30	11	.10
03C0310S	15	15	500	1.20	<5	.70	.117	.55	<30	8	.14
03C0410S	20	20	400	1.11	<5	1.31	.209	.66	<30	11	.14
03C0510S	20	30	<400	1.52	<5	1.10	.086	.75	<30	10	.17
Soils supporting sweet corn, Palm Beach County, Florida											
04C0110S	5	15	<400	<.03	<5	.70	.040	.08	<30	<5	<.06
04C0210S	5	20	<400	<.03	<5	.75	.018	.05	<30	<5	<.06
04C0310S	5	15	<400	<.03	<5	.92	.031	.11	<30	<5	<.06
04C0410S	3	15	500	<.03	<5	.88	.024	.06	<30	<5	<.06
04C0510S	5	10	500	<.03	<5	.59	.040	.10	<30	<5	<.06
Soils supporting sweet corn, Twin Falls County, Idaho											
08C0110S	50	20	500	2.13	15	1.15	.039	1.76	<30	25	1.21
08C0210S	100	30	800	2.26	15	1.36	.037	1.60	50	25	1.39
08C0310S	100	30	700	2.33	20	1.34	.037	1.69	30	26	1.27
08C0410S	50	30	700	2.88	20	1.04	.024	1.71	50	30	1.10
08C0510S	70	15	500	2.10	15	1.18	.043	1.57	<30	24	1.56

Table 22.--Concentrations of elements reported in samples of sweet corn and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S %	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting sweet corn, Berrien County, Michigan											
01C0110S	700	.65	<10	7	30	40	<.08	<3	.26	29	.40
01C0210S	300	.66	<10	7	20	55	<.08	<3	.13	37	.12
01C0310S	500	.60	10	5	30	50	<.08	3	<.10	36	.46
01C0410S	700	.56	<10	7	20	55	<.08	<3	<.10	35	.70
01C0510S	500	.54	10	10	15	60	<.08	5	.18	40	.10
Soils supporting sweet corn, Salem County, New Jersey											
03C0110S	200	.21	10	7	10	30	<.08	<3	.23	38	1.19
03C0210S	150	.12	10	5	10	25	<.08	<3	.14	38	1.05
03C0310S	150	<.07	10	<2	10	20	<.08	<3	<.10	40	.99
03C0410S	100	<.07	10	2	20	30	<.08	<3	.24	39	.57
03C0510S	200	.07	10	<2	15	25	<.08	<3	.17	39	.43
Soils supporting sweet corn, Palm Beach County, Florida											
04C0110S	50	<.07	<10	<2	<10	<20	<.08	<3	<.10	42	.47
04C0210S	30	<.07	<10	<2	<10	<20	<.08	<3	<.10	43	<.10
04C0310S	50	<.07	<10	<2	<10	<20	<.08	<3	<.10	41	.53
04C0410S	20	<.07	<10	<2	<10	<20	<.08	<3	.10	38	<.10
04C0510S	30	<.07	10	<2	<10	<20	<.08	<3	.13	41	.25
Soils supporting sweet corn, Twin Falls County, Idaho											
08C0110S	200	.88	10	15	15	70	<.08	7	<.10	29	.73
08C0210S	500	.90	10	15	15	65	<.08	7	.13	26	1.87
08C0310S	500	.95	10	20	20	80	<.08	7	.31	27	1.34
08C0410S	700	1.02	10	20	20	75	<.08	10	.25	30	.69
08C0510S	300	.87	10	15	15	65	<.08	5	<.10	25	1.40

Table 22.--Concentrations of elements reported in samples of sweet corn and in samples of their supporting soils--continued

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting sweet corn, Berrien County, Michigan										
01C0110S	70	--	.11	1.06	30	<10	1.0	45	100	7.3
01C0210S	100	3.6	.22	1.30	30	10	1.0	35	150	5.9
01C0310S	100	4.8	.20	1.16	20	10	1.0	35	100	6.2
01C0410S	100	5.8	.23	1.36	30	10	1.0	43	150	5.5
01C0510S	70	5.6	.25	1.55	30	10	1.5	43	200	5.8
Soils supporting sweet corn, Salem County, New Jersey										
03C0110S	20	4.6	.44	2.70	30	20	3.0	27	300	6.8
03C0210S	20	3.4	.32	2.08	30	15	2.0	21	300	6.5
03C0310S	5	6.8	.62	1.95	15	<10	<1.0	37	300	6.5
03C0410S	15	4.5	.40	2.39	15	<10	1.0	37	300	5.7
03C0510S	10	5.2	.65	2.85	30	10	1.5	41	700	6.0
Soils supporting sweet corn, Palm Beach County, Florida										
04C0110S	<5	--	.07	.57	<7	<10	<1.0	22	100	5.6
04C0210S	<5	--	.06	.51	<7	<10	<1.0	24	70	6.1
04C0310S	<5	--	.06	.69	<7	<10	<1.0	17	200	5.5
04C0410S	<5	--	.04	.44	<7	<10	<1.0	12	70	6.4
04C0510S	<5	--	.05	.65	<7	<10	<1.0	32	30	5.6
Soils supporting sweet corn, Twin Falls County, Idaho										
08C0110S	300	13.1	.31	2.60	70	15	1.5	66	150	8.2
08C0210S	200	8.4	.33	3.12	100	20	3.0	68	300	8.0
08C0310S	200	9.4	.36	3.12	100	30	3.0	72	300	7.9
08C0410S	200	11.3	.45	3.03	100	30	3.0	75	300	8.1
08C0510S	200	11.6	.31	2.78	70	15	1.5	62	150	7.9

Table 23.--Concentrations of elements reported in samples of tomatoes and in samples of their supporting soils

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Tomatoes, Berrien County, Michigan											
01T01100	42 3 0	86 22 0	417,683	<1	.070	<.05	150	150	2.40	3.0	1
01T01200	42 3 0	86 22 0	417,189	<1	.030	--	150	100	3.00	2.0	<1
01T02100	42 3 0	86 22 0	417,181	<1	<.015	--	100	30	1.40	3.0	<1
01T02200	42 3 0	86 22 0	417,678	<1	1.000	<.05	100	30	1.80	2.0	<1
01T03100	42 3 0	86 22 0	417,171	<1	.070	--	150	70	1.70	--	--
01T03200	42 3 0	86 22 0	417,415	<1	<.015	<.05	100	50	2.20	5.0	1
01T04100	42 3 0	86 22 0	417,731	<1	.300	.20	70	30	1.20	1.0	<1
01T04200	42 3 0	86 22 0	417,630	<1	.200	.25	70	50	1.10	1.5	<1
01T05100	42 3 0	86 22 0	417,529	<1	.020	<.05	150	100	2.60	10.0	<1
01T05200	42 3 0	86 22 0	417,676	<1	.700	<.05	150	30	1.50	3.0	<1
Tomatoes, Cumberland County, New Jersey											
03T01100	39 30 0	75 12 0	417,665	<1	.050	<.05	100	100	1.50	.8	1
03T01200	39 30 0	75 12 0	417,377	<1	<.015	<.05	100	30	1.30	1.0	1
03T02100	39 30 0	75 12 0	417,662	<1	<.015	<.05	70	30	1.00	.4	<1
03T02200	39 30 0	75 12 0	417,550	<1	.030	<.05	70	30	.96	.8	<1
03T03100	39 30 0	75 12 0	417,399	<1	.150	.05	70	70	1.80	1.5	1
03T03200	39 30 0	75 12 0	417,574	<1	.030	<.05	100	50	1.30	1.5	1
03T04100	39 30 0	75 12 0	417,441	<1	<.015	<.05	100	30	1.00	1.0	1
03T04200	39 30 0	75 12 0	417,427	<1	.020	.05	70	70	1.30	1.5	<1
03T05100	39 30 0	75 12 0	417,597	<1	.020	<.05	70	30	2.00	1.0	1
03T05200	39 30 0	75 12 0	417,632	<1	.070	<.05	100	30	2.00	1.0	1
Tomatoes, Palm Beach County, Florida											
04T01100	26 35 0	80 6 0	417,188	<1	.020	--	150	<3	.92	1.5	<1
04T01200	26 35 0	80 6 0	417,562	<1	<.015	<.05	<50	<3	1.00	.6	<1
04T02100	26 35 0	80 6 0	417,127	<1	.020	--	70	<3	.82	<.2	<1
04T02200	26 35 0	80 6 0	417,296	<1	.020	.05	50	<3	1.20	.4	1
04T03100	26 35 0	80 6 0	417,387	<1	.070	<.05	70	<3	1.50	1.5	<1
04T03200	26 35 0	80 6 0	417,715	<1	.020	<.05	70	<3	.32	.2	<1
04T04100	26 35 0	80 6 0	417,689	<1	.030	<.05	70	<3	.46	.2	<1
04T04200	26 35 0	80 6 0	417,446	<1	<.015	<.05	50	<3	.58	.4	<1
04T05100	26 35 0	80 6 0	417,230	<1	<.015	<.05	70	<3	.50	.4	<1
04T05200	26 35 0	80 6 0	417,169	<1	<.015	--	70	<3	.54	.2	<1
Tomatoes, Yakima County, Washington											
09T01100	46 26 0	120 25 0	417,368	<1	<.015	<.05	70	5	.30	1.0	<1
09T01200	46 26 0	120 25 0	417,213	<1	.030	.15	100	30	3.20	5.5	1
09T02100	46 26 0	120 25 0	417,671	<1	<.015	<.05	70	7	.44	1.0	<1
09T02200	46 26 0	120 25 0	417,642	<1	.030	<.05	70	20	1.80	3.0	1
09T03100	46 26 0	120 25 0	417,496	<1	<.015	<.05	150	15	.78	2.0	1
09T03200	46 26 0	120 25 0	417,175	<1	.030	--	100	10	.80	3.0	1
09T04100	46 26 0	120 25 0	417,356	<1	<.015	<.05	50	7	1.10	4.0	1
09T04200	46 26 0	120 25 0	417,483	<1	.070	<.05	100	15	1.50	3.0	<1
09T05100	46 26 0	120 25 0	417,371	<1	<.015	<.05	70	20	1.50	2.5	<1
09T05200	46 26 0	120 25 0	417,157	<1	.020	--	70	15	1.00	1.0	<1

Table 23.--Concentrations of elements reported in samples of tomatoes and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Tomatoes, Berrien County, Michigan											
01T01100	2.0	200	.30	<.01	40	<4	3.0	500	7	.390	15
01T01200	<1.5	100	.05	<.01	38	<4	3.0	300	<7	.340	<10
01T02100	<1.5	70	.03	<.01	40	<4	1.5	100	<7	.220	<10
01T02200	2.0	100	.20	<.01	40	<4	2.0	200	10	.210	<10
01T03100	2.0	100	.07	.01	37	<4	3.0	200	7	.090	<10
01T03200	<1.5	70	.05	<.01	33	<4	1.5	150	<7	.095	<10
01T04100	<1.5	100	.07	<.01	33	<4	3.0	200	30	1.300	<10
01T04200	<1.5	50	.03	<.01	29	<4	1.5	200	<7	.340	<10
01T05100	2.0	200	.10	<.01	35	<4	3.0	300	<7	.330	<10
01T05200	<1.5	150	.07	<.01	29	<4	2.0	200	15	.250	<10
Tomatoes, Cumberland County, New Jersey											
03T01100	3.0	70	.50	<.01	45	<4	1.5	100	7	.130	<10
03T01200	<1.5	70	.03	<.01	38	<4	1.5	50	<7	.130	<10
03T02100	<1.5	50	.03	<.01	34	<4	1.5	70	<7	.110	<10
03T02200	<1.5	50	.03	<.01	30	<4	1.5	50	<7	.090	<10
03T03100	5.0	70	.07	<.01	40	<4	1.5	70	<7	.160	<10
03T03200	<1.5	50	.05	<.01	37	<4	2.0	100	7	.120	<10
03T04100	<1.5	70	.03	<.01	40	<4	1.5	100	<7	.210	<10
03T04200	<1.5	70	.03	<.01	36	<4	1.5	70	<7	.120	<10
03T05100	<1.5	70	.05	<.01	42	<4	3.0	70	10	.150	<10
03T05200	7.0	70	.07	<.01	41	<4	1.5	100	7	.160	<10
Tomatoes, Palm Beach County, Florida											
04T01100	<1.5	150	.05	.01	28	<4	1.5	100	7	.310	<10
04T01200	<1.5	150	.05	<.01	31	<4	1.5	70	7	.350	<10
04T02100	<1.5	100	.02	<.01	36	<4	1.5	70	7	.290	<10
04T02200	2.0	200	.05	<.01	42	<4	1.5	70	10	.320	<10
04T03100	<1.5	200	.07	<.01	35	<4	2.0	150	15	.590	<10
04T03200	<1.5	150	.03	<.01	29	<4	1.0	70	7	.380	<10
04T04100	2.0	100	.05	<.01	25	<4	1.0	50	7	.250	<10
04T04200	<1.5	70	.03	<.01	29	<4	1.5	70	<7	.330	<10
04T05100	<1.5	70	.03	<.01	26	<4	1.5	70	7	.280	<10
04T05200	3.0	100	.03	<.01	23	<4	.7	50	7	.250	<10
Tomatoes, Yakima County, Washington											
09T01100	2.0	70	.03	<.01	23	<4	1.5	100	<7	.230	10
09T01200	2.0	70	.10	.01	39	<4	1.5	150	<7	.300	15
09T02100	<1.5	50	.03	<.01	25	<4	1.5	70	<7	.350	<10
09T02200	<1.5	70	.10	<.01	40	<4	2.0	150	20	.370	20
09T03100	<1.5	70	.05	<.01	33	<4	2.0	100	<7	.260	15
09T03200	<1.5	70	.05	<.01	32	<4	1.5	150	7	.680	15
09T04100	<1.5	70	.05	<.01	35	<4	1.0	70	<7	.310	15
09T04200	<1.5	100	.10	<.01	45	<4	2.0	150	<7	.650	30
09T05100	<1.5	100	.07	<.01	37	<4	2.0	150	<7	.380	15
09T05200	2.0	70	.03	<.01	39	<4	1.5	100	<7	.270	15

Table 23.--Concentrations of elements reported in samples of tomatoes and in samples of their supporting soils--continued

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
Tomatoes, Berrien County, Michigan										
01T01100	2.4	<20	.24	.02	100	.0007	420	<20	7.7	1.8
01T01200	3.6	<20	.22	.02	70	<.0005	410	<20	8.3	2.9
01T02100	3.6	<20	.26	.04	30	<.0005	260	<20	12.0	3.7
01T02200	4.8	<20	.26	.04	70	<.0005	380	<20	10.0	3.1
01T03100	4.8	<20	.28	.06	70	.0020	510	<20	7.6	2.3
01T03200	3.6	<20	.22	.02	70	<.0005	330	<20	6.9	3.1
01T04100	2.4	<20	.22	.02	30	<.0005	380	<20	9.0	6.5
01T04200	2.4	<20	.23	.01	30	<.0005	240	<20	13.0	4.8
01T05100	3.6	<20	.20	.02	70	.0010	620	<20	7.0	3.0
01T05200	2.4	<20	.22	.04	30	<.0005	300	<20	10.0	4.3
Tomatoes, Cumberland County, New Jersey										
03T01100	3.6	<20	.24	.04	150	.0015	210	<20	15.0	3.9
03T01200	2.4	<20	.23	.04	70	<.0005	200	<20	13.0	4.0
03T02100	1.8	<20	.26	.02	50	.0015	130	<20	14.0	5.0
03T02200	1.8	<20	.20	.02	30	<.0005	120	<20	15.0	6.2
03T03100	2.4	<20	.22	.02	70	.0150	220	<20	15.0	4.2
03T03200	2.4	<20	.22	.02	30	.0005	140	<20	13.0	5.6
03T04100	1.8	<20	.26	.02	30	<.0005	240	<20	13.0	4.9
03T04200	2.4	<20	.24	.02	70	.0020	230	<20	15.0	4.1
03T05100	2.4	<20	.33	.04	70	.0030	260	<20	15.0	3.9
03T05200	2.4	<20	.28	.06	50	.0150	160	<20	12.0	4.0
Tomatoes, Palm Beach County, Florida										
04T01100	1.8	<20	.19	.20	70	<.0005	260	<20	14.0	5.5
04T01200	1.8	<20	.19	.01	100	<.0005	230	<20	13.0	5.0
04T02100	1.8	<20	.20	--	70	<.0005	220	<20	14.0	5.7
04T02200	2.4	<20	.23	.01	150	<.0005	320	<20	14.0	4.2
04T03100	2.4	<20	.18	.01	150	<.0005	350	<20	9.1	3.0
04T03200	1.8	<20	.20	.02	30	<.0005	160	<20	17.0	5.3
04T04100	1.2	<20	.18	.01	30	<.0005	160	<20	15.0	5.9
04T04200	1.2	<20	.18	.01	30	<.0005	160	<20	14.0	5.0
04T05100	1.2	<20	.18	.01	30	<.0005	160	<20	14.0	6.9
04T05200	1.2	<20	.19	.01	30	<.0005	210	<20	14.0	6.4
Tomatoes, Yakima County, Washington										
09T01100	2.4	<20	.16	.01	30	<.0005	180	<20	12.0	7.7
09T01200	3.6	<20	.26	.06	300	.0015	400	<20	9.6	5.4
09T02100	1.2	<20	.14	.01	30	<.0005	110	<20	12.0	8.9
09T02200	3.6	<20	.22	.04	150	<.0005	320	<20	11.0	5.8
09T03100	2.4	<20	.21	.02	70	.0007	240	<20	11.0	6.8
09T03200	2.4	<20	.22	.08	70	.0010	280	<20	11.0	6.7
09T04100	2.4	<20	.22	.02	70	<.0005	300	<20	13.0	5.7
09T04200	3.6	<20	.24	.04	150	.0007	340	<20	11.0	6.0
09T05100	2.4	<20	.21	.06	200	<.0005	270	<20	10.0	5.4
09T05200	2.4	<20	.22	.15	100	.0005	220	<20	13.0	6.7

Table 23.--Concentrations of elements reported in samples of tomatoes and in samples of their supporting soils--continued

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
			Tomatoes, San Joaquin County, California								
10T01100	37 51 0	121 15 0	417,341	<1	<.015	<.05	100	50	1.60	1.0	<1
10T01200	37 51 0	121 15 0	417,286	<1	.020	.05	100	70	1.80	.8	<1
10T02100	37 51 0	121 15 0	417,328	<1	.020	<.05	100	70	1.60	.2	<1
10T02200	37 51 0	121 15 0	417,360	<1	<.015	<.05	70	20	1.10	.2	<1
10T03100	37 51 0	121 15 0	417,383	<1	<.015	<.05	70	20	1.00	.2	<1
10T03200	37 51 0	121 15 0	417,397	<1	.030	<.05	70	30	.96	.4	4
10T04100	37 51 0	121 15 0	417,363	<1	<.015	<.05	70	70	1.30	.2	<1
10T04200	37 51 0	121 15 0	417,308	<1	<.015	<.05	70	30	1.40	.8	<1
10T05100	37 51 0	121 15 0	417,452	<1	<.015	<.05	70	30	.86	.4	<1
10T05200	37 51 0	121 15 0	417,714	<1	.070	.05	100	50	.94	.4	<1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
				Tomatoes, San Joaquin County, California							
10T01100	<1.5	30	.03	.01	35	<4	1.5	150	15	1.800	<10
10T01200	<1.5	30	.05	<.01	36	<4	1.5	100	30	2.600	<10
10T02100	<1.5	30	.03	<.01	32	<4	2.0	150	15	1.700	<10
10T02200	<1.5	30	.03	<.01	31	<4	1.5	70	10	.620	<10
10T03100	<1.5	30	.03	.01	29	<4	1.5	70	15	.850	<10
10T03200	<1.5	50	.03	<.01	27	<4	2.0	100	20	.900	<10
10T04100	<1.5	50	.03	<.01	30	<4	1.5	70	10	1.000	<10
10T04200	<1.5	50	.03	<.01	34	<4	2.0	100	20	1.700	<10
10T05100	<1.5	30	.02	<.01	33	<4	1.5	50	15	.400	<10
10T05200	<1.5	50	.03	<.01	29	<4	1.5	70	15	.770	<10

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
				Tomatoes, San Joaquin County, California						
10T01100	3.6	<20	.17	.15	300	<.0005	210	<20	8.8	7.0
10T01200	3.6	<20	.16	.15	500	<.0005	240	<20	7.8	7.8
10T02100	2.4	<20	.14	.15	300	<.0005	110	<20	10.0	7.4
10T02200	2.1	<20	.17	.35	200	<.0005	80	<20	13.0	7.6
10T03100	1.8	<20	.15	.35	300	<.0005	60	<20	12.0	7.6
10T03200	2.4	<20	.15	.20	200	<.0005	150	<20	11.0	8.1
10T04100	2.4	<20	.15	.08	300	<.0005	90	<20	9.8	7.6
10T04200	2.4	<20	.19	.08	300	<.0005	190	<20	12.0	7.3
10T05100	2.4	<20	.21	.25	300	<.0005	120	<20	13.0	8.1
10T05200	2.4	<20	.17	.08	200	<.0005	160	<20	13.0	7.9

Sample	Latitude	Longitude	Lab. no.	Al %	As ppm	B ppm	Ba ppm	Be ppm	C %	Ca %	Co ppm
Soils supporting tomatoes, Berrien County, Michigan											
01T0110S	42 3 0	86 22 0	173,082	2.1	5.84	30	300	<1.0	.66	.46	5
01T0210S	42 3 0	86 22 0	172,845	2.6	8.58	<10	300	<1.0	.76	.42	5
01T0310S	42 3 0	86 22 0	172,842	3.0	.95	20	500	<1.0	1.12	.42	3
01T0410S	42 3 0	86 22 0	173,103	2.2	20.29	20	300	<1.0	.98	.44	3
01T0510S	42 3 0	86 22 0	173,015	2.2	3.12	<10	500	<1.0	1.38	.35	5
Soils supporting tomatoes, Cumberland County, New Jersey											
03T0110S	39 30 0	75 12 0	173,074	2.4	7.81	30	300	1.5	.96	.22	3
03T0210S	39 30 0	75 12 0	173,073	2.6	7.54	30	300	<1.0	.96	.23	3
03T0310S	39 30 0	75 12 0	172,950	2.5	8.95	30	200	<1.0	.87	.22	5
03T0410S	39 30 0	75 12 0	172,970	1.9	5.00	30	150	<1.0	.67	.18	5
03T0510S	39 30 0	75 12 0	173,044	3.2	7.85	50	200	<1.0	1.05	.32	5
Soils supporting tomatoes, Palm Beach County, Florida											
04T0110S	26 35 0	80 6 0	172,849	<.3	<.10	<10	15	<1.0	.58	.30	<3
04T0210S	26 35 0	80 6 0	172,822	<.3	1.04	<10	15	<1.0	.55	.29	5
04T0310S	26 35 0	80 6 0	172,946	<.3	1.33	<10	20	<1.0	.53	.20	<3
04T0410S	26 35 0	80 6 0	173,083	<.3	<.10	<10	20	<1.0	.54	.28	<3
04T0510S	26 35 0	80 6 0	172,868	<.3	<.10	<10	15	<1.0	.74	.40	<3
Soils supporting tomatoes, Yakima County, Washington											
09T0110S	46 26 0	120 25 0	172,935	7.7	5.57	<10	500	1.0	.64	2.92	15
09T0210S	46 26 0	120 25 0	173,078	7.7	3.64	<10	500	1.0	.55	2.89	20
09T0310S	46 26 0	120 25 0	172,996	6.9	4.52	<10	1,500	<1.0	.56	2.93	20
09T0410S	46 26 0	120 25 0	172,930	7.5	8.44	<10	500	1.0	.62	2.87	15
09T0510S	46 26 0	120 25 0	172,936	7.4	6.53	<10	500	1.0	.51	2.77	15
Soils supporting tomatoes, San Joaquin County, California											
10T0110S	37 51 0	121 15 0	172,922	7.1	2.86	<10	1,000	1.0	.37	2.77	5
10T0210S	37 51 0	121 15 0	172,914	6.8	2.73	<10	700	1.0	.29	2.68	5
10T0310S	37 51 0	121 15 0	172,944	6.8	3.16	<10	1,000	1.0	.48	2.77	7
10T0410S	37 51 0	121 15 0	172,932	6.9	4.79	<10	1,000	1.0	.46	2.70	7
10T0510S	37 51 0	121 15 0	172,972	6.8	3.10	<10	700	1.0	.43	2.67	7

Table 23.--Concentrations of elements reported in samples of tomatoes and in samples of their supporting soils--continued

Sample	Cr ppm	Cu ppm	F ppm	Fe %	Ga ppm	Ge ppm	Hg ppm	K %	La ppm	Li ppm	Mg %
Soils supporting tomatoes, Berrien County, Michigan											
01T0110S	15.0	20	<400	1.45	7	.88	.031	1.08	<30	13	.23
01T0210S	20.0	15	700	1.16	5	1.23	.054	1.31	<30	12	.19
01T0310S	20.0	10	600	.82	7	1.01	.046	1.44	<30	12	.17
01T0410S	15.0	15	<400	.96	5	.97	.224	1.20	<30	9	.17
01T0510S	70.0	15	<400	.84	7	1.02	.049	1.49	<30	10	.16
Soils supporting tomatoes, Cumberland County, New Jersey											
03T0110S	30.0	30	400	1.23	7	1.15	.082	.80	50	17	.17
03T0210S	30.0	20	<400	1.37	7	1.23	.048	.83	50	17	.17
03T0310S	20.0	15	<400	1.35	7	1.02	.056	.83	30	16	.17
03T0410S	15.0	10	<400	1.10	5	1.20	.036	.67	30	14	.14
03T0510S	30.0	30	<400	1.49	7	1.17	.045	.82	50	17	.19
Soils supporting tomatoes, Palm Beach County, Florida											
04T0110S	1.5	50	<400	<.03	<5	.85	.022	.10	<30	<5	<.06
04T0210S	3.0	50	<400	<.03	<5	.74	.010	.08	<30	<5	<.06
04T0310S	1.0	20	<400	<.03	<5	1.02	.031	.12	<30	<5	<.06
04T0410S	2.0	70	<400	<.03	<5	.59	.019	.11	<30	<5	<.06
04T0510S	15.0	50	<400	<.03	<5	.93	.022	.10	<30	<5	.06
Soils supporting tomatoes, Yakima County, Washington											
09T0110S	70.0	30	<400	5.00	20	1.39	.067	1.36	<30	23	1.26
09T0210S	100.0	50	400	5.20	20	1.19	.031	1.33	<30	22	1.23
09T0310S	70.0	50	400	4.79	20	1.30	.049	1.33	<30	21	1.19
09T0410S	70.0	30	400	4.78	20	1.49	.047	1.35	<30	22	1.21
09T0510S	150.0	30	<400	4.83	20	1.72	.047	1.27	<30	22	1.25
Soils supporting tomatoes, San Joaquin County, California											
10T0110S	20.0	7	<400	2.34	20	.96	.039	2.11	<30	13	.56
10T0210S	15.0	7	500	2.25	15	1.08	.010	2.08	<30	12	.56
10T0310S	20.0	10	<400	2.26	20	.87	.032	2.09	<30	13	.60
10T0410S	20.0	10	<400	2.50	20	1.24	.034	2.12	<30	15	.62
10T0510S	30.0	7	<400	2.68	15	1.06	.027	2.03	<30	13	.58

Table 23.--Concentrations of elements reported in samples of tomatoes and in samples of their supporting soils--continued

Sample	Mn ppm	Na %	Nb ppm	Ni ppm	Pb ppm	Rb ppm	S ppm	Sc ppm	Se ppm	Si %	Sn ppm
Soils supporting tomatoes, Berrien County, Michigan											
01T0110S	1,000	.58	<10	7	15	40	<.08	5	<.10	38	<.10
01T0210S	1,000	.60	<10	7	15	50	<.08	<3	.25	38	.35
01T0310S	300	.65	<10	7	10	50	<.08	<3	.31	36	.23
01T0410S	1,000	.52	<10	7	70	40	<.08	<3	.11	40	<.10
01T0510S	500	.61	<10	15	15	45	<.08	<3	.36	36	.29
Soils supporting tomatoes, Cumberland County, New Jersey											
03T0110S	300	.24	10	7	15	45	<.08	7	<.10	39	.75
03T0210S	200	.24	15	10	15	40	<.08	5	<.10	37	.83
03T0310S	200	.22	15	5	15	40	.09	5	<.10	37	1.63
03T0410S	200	.22	10	<2	10	40	<.08	<3	.12	37	1.33
03T0510S	300	.22	15	15	10	40	<.08	5	.35	35	1.23
Soils supporting tomatoes, Palm Beach County, Florida											
04T0110S	70	<.07	<10	<2	<10	<20	<.08	<3	<.10	44	<.10
04T0210S	50	<.07	<10	<2	<10	<20	<.08	<3	<.10	42	<.10
04T0310S	50	<.07	<10	<2	<10	<20	<.08	<3	<.10	35	.85
04T0410S	50	<.07	<10	<2	<10	<20	<.08	<3	<.10	39	<.10
04T0510S	70	<.07	15	<2	<10	<20	<.08	<3	<.10	36	<.10
Soils supporting tomatoes, Yakima County, Washington											
09T0110S	700	1.93	10	30	10	50	.09	20	.18	26	1.15
09T0210S	1,000	2.08	<10	30	10	40	<.08	20	<.10	26	.52
09T0310S	1,000	2.11	<10	30	10	45	<.08	20	<.10	28	1.19
09T0410S	500	1.99	<10	30	10	50	<.08	20	<.10	28	1.24
09T0510S	500	1.94	10	30	10	45	<.08	20	<.10	26	1.53
Soils supporting tomatoes, San Joaquin County, California											
10T0110S	300	2.64	<10	7	15	70	<.08	7	<.10	30	.85
10T0210S	200	2.74	<10	10	15	80	<.08	5	.11	29	<.10
10T0310S	300	2.70	10	10	15	70	<.08	7	<.10	27	.76
10T0410S	300	2.65	10	15	20	80	<.08	7	<.10	30	1.45
10T0510S	300	2.79	10	10	15	75	<.08	7	<.10	28	.75

Table 23.--Concentrations of elements reported in samples of tomatoes and in samples of their supporting soils--continued

Sample	Sr ppm	Th ppm	Ti %	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	pH
Soils supporting tomatoes, Berrien County, Michigan										
01T0110S	70	4.0	.17	.98	20	10	1.0	54	70	6.5
01T0210S	100	5.4	.22	1.36	20	10	2.0	53	100	6.8
01T0310S	100	4.3	.24	1.28	20	10	1.0	38	100	6.5
01T0410S	70	4.3	.20	1.29	20	10	1.0	42	150	7.0
01T0510S	70	3.3	.19	1.16	20	10	1.0	38	300	5.8
Soils supporting tomatoes, Cumberland County, New Jersey										
03T0110S	30	9.1	.54	2.61	30	50	7.0	34	700	6.2
03T0210S	30	8.8	.56	2.82	30	30	3.0	34	500	8.6
03T0310S	50	8.5	.56	3.00	30	20	3.0	29	200	6.1
03T0410S	20	11.2	.56	2.44	20	20	2.0	28	200	6.0
03T0510S	30	8.9	.68	3.26	50	30	3.0	33	300	7.0
Soils supporting tomatoes, Palm Beach County, Florida										
04T0110S	<5	--	.05	.58	<7	<10	<1.0	21	200	7.4
04T0210S	<5	--	.07	.65	<7	<10	<1.0	23	150	8.5
04T0310S	<5	--	.06	.63	<7	<10	<1.0	20	100	8.3
04T0410S	<5	--	.04	.61	<7	<10	<1.0	22	150	8.7
04T0510S	<5	--	.05	.47	<7	<10	<1.0	21	100	8.1
Soils supporting tomatoes, Yakima County, Washington										
09T0110S	500	6.3	.63	1.62	150	15	2.0	94	100	6.3
09T0210S	300	6.5	.68	1.83	150	30	--	103	150	6.8
09T0310S	500	5.2	.62	2.44	200	20	--	99	150	6.9
09T0410S	500	6.2	.65	1.53	150	15	2.0	101	100	6.4
09T0510S	300	7.0	.63	1.52	150	15	2.0	86	100	6.5
Soils supporting tomatoes, San Joaquin County, California										
10T0110S	1,000	10.0	.33	3.06	100	10	1.5	40	150	8.2
10T0210S	700	13.3	.33	2.89	70	10	1.0	44	150	8.7
10T0310S	700	12.9	.32	2.68	100	10	1.0	55	70	8.7
10T0410S	1,000	24.3	.33	3.31	100	15	1.5	51	100	8.4
10T0510S	700	20.7	.34	3.03	100	10	1.0	51	70	8.4

Table 24.--Concentrations of elements reported in samples of cantaloupe

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
			Cantaloupe, Berrien County, Michigan								
01MM1100	42 3 0	86 22 0	417,449	<1	.03	<.05	100	15	.5	.4	<1
01MM1200	42 3 0	86 22 0	417,708	<1	.07	<.05	150	70	2.8	<.2	1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
				Cantaloupe, Berrien County, Michigan							
01MM1100	<1.5	50	.02	<.01	37	<4	1.5	20	<7	.29	<10
01MM1200	<1.5	70	.05	<.01	40	<4	3.0	70	<7	.42	<10

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
				Cantaloupe, Berrien County, Michigan						
01MM1100	1.2	<20	.18	.04	30	<.0005	190	<20	11.0	6.2
01MM1200	2.4	<20	.16	.02	150	.0020	280	<20	8.7	10.0

Table 25.--Concentrations of elements reported in samples of Chinese cabbage

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
Chinese cabbage, Palm Beach County, Florida											
04CC1100	26 41 0	80 32 0	417,194	<1	<.015	.20	70	100	8.0	<.2	<1
04CC1200	26 41 0	80 32 0	417,511	<1	.020	.35	100	70	6.2	<.2	<1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
Chinese cabbage, Palm Beach County, Florida											
04CC1100	<1.5	15	.015	.01	39	<4	1.5	50	7	.92	<10
04CC1200	<1.5	15	.030	<.01	39	<4	1.5	50	<7	.77	<10

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
Chinese cabbage, Palm Beach County, Florida										
04CC1100	2.4	<20	.64	.010	1,000	<.0005	350	<20	21	5.3
04CC1200	3.6	<20	.65	.005	2,000	<.0005	380	<20	19	4.6

Table 26.--Concentrations of elements reported in samples of parsley

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
			Parsley, Palm Beach County, Florida								
04PS1100	26 41 0	80 32 0	417,524	<1	.05	.05	70	150	5.2	.2	<1
04PS1200	26 41 0	80 32 0	417,346	<1	.05	.05	100	200	6.4	<.2	<1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
				Parsley, Palm Beach County, Florida							
04PS1100	3.0	20	.05	.02	40	<4	1.5	70	30	.24	<10
04PS1200	<1.5	30	.05	.03	40	<4	1.0	70	70	.28	<10

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
				Parsley, Palm Beach County, Florida						
04PS1100	1.8	<20	.28	.02	1,500	.0010	300	<20	19.8	12.0
04PS1200	1.8	<20	.28	.04	2,000	<.0005	350	<20	19.0	12.9

Table 27.--Concentrations of elements reported in samples of peppers

Sample	Latitude	Longitude	Lab. no.	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Ca %	Cd ppm	Co ppm
			Peppers, Berrien County, Michigan								
01PB1100	42 3 0	86 22 0	417,720	<1	.030	<.05	100	50	.86	2.5	<1
01PB1200	42 3 0	86 22 0	417,225	<1	<.015	.15	100	50	1.10	2.5	<1

Sample	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
				Peppers, Berrien County, Michigan							
01PB1100	<1.5	200	.10	<.01	30	<4	2	300	<7	.14	20
01PB1200	<1.5	150	.07	<.01	35	<4	3	150	<7	.12	50

Sample	P %	Pb ppm	S %	Se ppm	Sr ppm	Ti %	Zn ppm	Zr ppm	Ash %	Dry wt.%
				Peppers, Berrien County, Michigan						
01PB1100	2.4	<20	.29	.02	30	<.0005	300	<20	10.0	6.3
01PB1200	3.6	<20	.28	.02	50	<.0005	440	<20	7.1	9.3