

ALASKA AGRICULTURAL EXPERIMENT STATIONS

JUNEAU, ALASKA

Under the supervision of the
UNITED STATES DEPARTMENT OF AGRICULTURE

CIRCULAR No. 3

LIST AND ANALYTICAL INDEX
OF PUBLICATIONS OF THE ALASKA
AGRICULTURAL EXPERIMENT
STATIONS

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Prepared by

ELIZABETH H. LANGDALE

Office of Experiment Stations

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F. L. HIGGINS, *Assistant in Charge, Fairbanks.*

J. C. WINGFIELD, *Acting Superintendent, Matanuska.*

W. T. WHITE, *Associate Animal Husbandman, Matanuska.*

E. M. FLOYD, *Assistant in Charge, Kodiak.*

CLIFFORD CORDY, *Assistant Horticulturist, Sitka.¹*

EILER HANSEN, *Administrative Assistant.*

¹Appointment effective Apr. 16, 1931.

Circular (Alaska. Agricultural Experiment
Stations)

ALASKA AGRICULTURAL EXPERIMENT STATIONS
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Washington, D. C.

April, 1932

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By ELIZABETH H. LANGDALE, *Office of Experiment Stations*

CONTENTS

	Page		Page
Reports -----	1	Circulars -----	2
Bulletins -----	2	Subject index -----	3

REPORTS

- A Report to Congress on Agriculture in Alaska. W. H. Evans, Benton Killin, and Sheldon Jackson. 36 p., illus. 1898. (Office of Experiment Stations Bulletin No. 48.)
A Second Report to Congress on Agriculture in Alaska. C. C. Georgeson and W. H. Evans. 51 p., illus. 1899. (Office of Experiment Stations Bulletin No. 62.)
Report on the Agricultural Investigations in Alaska for 1899. C. C. Georgeson. 55 p. illus. 1900. (Office of Experiment Stations Bulletin No. 82.)
Fourth Report on the Agricultural Investigations in Alaska, 1900. C. C. Georgeson. 83 p., illus. 1901.
Annual Report of the Alaska Agricultural Experiment Stations for 1901. C. C. Georgeson. p. 239-359, illus. 1902. (From Off. Expt. Stas. Ann. Rpt. 1901.)
Annual Report of the Alaska Agricultural Experiment Stations for 1902. C. C. Georgeson. p. 233-307, illus. 1903. (From Off. Expt. Stas. Ann. Rpt. 1902.)
Annual Report of the Alaska Agricultural Experiment Stations for 1903. C. C. Georgeson. p. 313-390, illus. 1904. (From Off. Expt. Stas. Ann. Rpt. 1903.)
Annual Report of the Alaska Agricultural Experiment Stations, 1904. C. C. Georgeson. p. 265-360, illus. 1905. (From Off. Expt. Stas. Ann. Rpt. 1904.)
Annual Report of the Alaska Agricultural Experiment Stations, 1905. C. C. Georgeson. 100 p., illus.
Annual Report of the Alaska Agricultural Experiment Stations for 1906. C. C. Georgeson. 75 p., illus.
Annual Report of the Alaska Agricultural Experiment Stations for 1907. C. C. Georgeson. 98 p., illus. 1908.
Annual Report of the Alaska Agricultural Experiment Stations for 1908. C. C. Georgeson. 80 p., illus. 1909.
Annual Report of the Alaska Agricultural Experiment Stations for 1909. C. C. Georgeson. 82 p., illus. 1910.
Annual Report of the Alaska Agricultural Experiment Stations for 1910. C. C. Georgeson. 85 p., illus. 1911.

ALASKA
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33
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- Annual Report of the Alaska Agricultural Experiment Stations for 1911. C. C. Georgeson. 84 p., illus. 1912.
- Annual Report of the Alaska Agricultural Experiment Stations for 1912. C. C. Georgeson. 96 p., illus. 1913.
- Annual Report of the Alaska Agricultural Experiment Stations for 1913. C. C. Georgeson. 80 p., illus. 1914.
- Report of the Alaska Agricultural Experiment Stations, 1914. C. C. Georgeson. 96 p., illus. 1915.
- Report of the Alaska Agricultural Experiment Stations, 1915. C. C. Georgeson. 100 p., illus. 1916.
- Report of the Alaska Agricultural Experiment Stations, 1916. C. C. Georgeson. 91 p., illus. 1918.
- Report of the Alaska Agricultural Experiment Stations, 1917. C. C. Georgeson. 96 p., illus. 1919.
- Report of the Alaska Agricultural Experiment Stations, 1918. C. C. Georgeson. 104 p., illus. 1920.
- Report of the Alaska Agricultural Experiment Stations, 1919. C. C. Georgeson. 90 p., illus. 1920.
- Report of the Alaska Agricultural Experiment Stations, 1920. C. C. Georgeson. 75 p., illus. 1922.
- Report of the Alaska Agricultural Experiment Stations, 1921. C. C. Georgeson. 58 p., illus. 1923.
- Report of the Alaska Agricultural Experiment Stations, 1922. C. C. Georgeson. 25 p., illus. 1923.
- Report of the Alaska Agricultural Experiment Stations, 1923. C. C. Georgeson. 37 p., illus. 1925.
- Report of the Alaska Agricultural Experiment Stations, 1924. C. C. Georgeson. 47 p., illus. 1926.
- Report of the Alaska Agricultural Experiment Stations, 1925. C. C. Georgeson. 41 p., illus. 1927.
- Report of the Alaska Agricultural Experiment Stations, 1926. C. C. Georgeson. 40 p., illus. 1927.
- Report of the Alaska Agricultural Experiment Stations, 1927. H. W. Alberts. 40 p., illus. 1928.
- Report of the Alaska Agricultural Experiment Stations, 1928. H. W. Alberts. 39 p., illus. 1929.
- Report of the Alaska Agricultural Experiment Stations, 1929. H. W. Alberts. 58 p., illus. 1930.

BULLETINS

- 1.—Suggestions to Pioneer Farmers in Alaska. C. C. Georgeson. 15 p., illus. 1902.
 - 2.—Vegetable Growing in Alaska. C. C. Georgeson. 46 p., illus. 1905.
 - 3.—Haymaking at Kenai Experiment Station. P. H. Ross. 13 p., illus. 1907.
 - 4.—Production of Improved Hardy Strawberries for Alaska. C. C. Georgeson. 13 p., illus. 1923.
 - 5.—Eradication of Tuberculosis in Cattle at the Kodiak Experiment Station. C. C. Georgeson and W. T. White. 11 p., illus. 1924.
 - 6.—Cereal Growing in Alaska. C. C. Georgeson and G. W. Gasser. 40 p., illus. 1926.
 - 7.—Vegetable Gardening in Alaska. C. C. Georgeson. 32 p., illus. 1928.
 - 8.—Brief History of Cattle Breeding in Alaska. C. C. Georgeson. 23 p., illus. 1929.
 - 9.—The Potato in Alaska. H. W. Alberts. 19 p., illus. 1929.
- See also first three reports listed, p. 1.

CIRCULARS

- 1.—Information for Prospective Settlers in Alaska. C. C. Georgeson. 30 p., illus. 1917.
Revised.
- 1.—Information for Prospective Settlers in Alaska. C. C. Georgeson. 18 p., illus. 1923.
Revised.
- 1.—Information for Prospective Settlers in Alaska. H. W. Alberts. 27 p., illus. 1930.
Revised.
- 2.—Bulb Growing in Alaska. C. C. Georgeson. 11 p., illus. 1928.

SUBJECT INDEX

NOTE.—B, Bulletin (bulletins Nos. 48, 62, and 82 are first, second, and third annual reports, respectively); C, Circular (C 1a is 1917 edition, C 1b is 1923 edition, and C 1c is 1930 edition); R, report.

Abercrombie, W. R., notes on Copper River country, R 1901, p. 307.

Abutilon sp., R 1921, p. 15.

Acer—
ginnala, R 1917, p. 15.

platanoides, R 1922, p. 13.

saccharinum, R 1922, p. 13.

tataricum, R 1917, p. 15.

Achillea—

borealis, R 1908, p. 57.

millefolium culture, Sitka, R 1910, p. 28; 1918, p. 32.

See also Yarrow.

millefolium resenum, R 1915, p. 37.

ptarmica. See Sneezewort.

roseum, R 1911, p. 22.

Aconitum sp. See Monkshood.

Acorus japonicus, R 1911, p. 22.

Acroclinium culture, Holy Cross, B 62, p. 37.

Act appropriating funds for Alaska development, B 48, p. 1.

Admiralty Island, B 48, p. 5.

Aesculus grossularia on currants and gooseberries, R 1914, p. 27.

Aeration of soil, B 1, p. 15; B 2, p. 15; B 7, p. 6.

Afognak. *See* Climate; Farming.

Ageratum sp.—

at Holy Cross, B 62, p. 37.

at Sitka, R 1917, p. 20; 1918, p. 33.

Agricultural—

areas—

Alaska Peninsula, B 48, p. 22; C 1c, p. 16; R 1904, p. 275.

Anchorage, C 1a, p. 29.

character, C 1a, p. 9.

Cook Inlet, B 48, p. 22; B 62, p. 43.

Copper River Valley, R 1900, p. 33; 1901, pp. 307-309; 1902, p. 262; 1903, p. 338.

forests, national, C 1a, p. 29.

Fortymile country, R 1902, p. 262.

general, B 48, p. 21; C 1b, p. 4;

C 1c, p. 5; R 1900, pp. 8, 66; 1921, p. 1.

Healy, C 1c, p. 19.

Kenai Peninsula, B 82, p. 10; C 1b, p. 5; C 1c, pp. 5, 19.

Kodiak-Afognak group, C 1c, p. 17.

Kuskokwim Valley, C 1c, p. 19.

Matanuska Valley, C 1a, p. 28;

C 1c, p. 6.

Prince William Sound, R 1900, p. 34; 1903, pp. 318, 319.

size, B 48, p. 22; C 1b, p. 5.

soil, C 1a, p. 10.

southeastern Alaska, C 1c, p. 18;

R 1926, p. 1.

southwestern Alaska, C 1c, p. 16.

Strawberry Point, R 1927, p. 5.

Susitna Valley, B 6, p. 11; B 82, p. 41.

Tanana Valley, B 6, p. 11; C 1c, p. 13; R 1901, p. 309; 1902, p. 262; 1905, pp. 17-20; 1910, p. 66; 1929, p. 2.

Yukatuk, B 62, p. 43.

Yukon Valley, C 1c, p. 19; R 1900, p. 51.

association, R 1929, p. 10.

See also Farmers' Agricultural Association.

Agricultural—Continued.

capabilities and resources of Alaska,

B 1, p. 7; B 48, pp. 23, 34; C 1b,

p. 1; R 1900, pp. 7, 8, 69; 1901, p.

276; 1902, p. 291; 1903, pp. 317,

318, 319; 1908, pp. 7, 8; 1912, p. 9,

instruction for Indians, R 1902, p. 273;

1904, p. 269.

investigations in Alaska. *See* Report.

products, importation, B 6, p. 19; R

1905, p. 23.

See also specific kinds.

reconnaissance, Matanuska Valley, R

1915, p. 26.

survey. *See* Survey.

Agriculture—

in other countries, comparison with

Alaska, B 48, pp. 23, 24; R 1900,

p. 68; 1901, p. 277.

primitive in Alaska, B 48, pp. 2, 18,

19, 33.

promotion, B 62, p. 4; R 1901, p. 340.

Agropyron—

occidentale, R 1908, p. 54.

pseudo-repens, culture, Copper Center,

R 1907, p. 58; 1908, p. 55.

pseudo-repens, culture, Fairbanks, R

1909, p. 57; 1910, p. 57.

repens. *See* Couch grass.

tenerum. *See* Wheatgrass.

violaceum, R 1904, p. 273.

yukonense, R 1929, p. 46.

Agrostemma coronaria, culture, Sitka, R

1917, p. 20; 1918, p. 32.

Agrostis—

equivalvis, R 1904, p. 281.

alba—

feeding value, R 1917, p. 77.

growing regions, R 1904, p. 281.

exarata. *See* Whitetop.

geminata, R 1904, p. 281.

hyemalis. *See* Hair grass, rough.

idahoensis, R 1908, p. 58.

melaleuca, R 1904, p. 281.

mertensii, R 1904, p. 281.

rossae as forage crop, R 1904, p. 281.

scabra, B 48, p. 28.

vulgaris. *See* Redtop.

Air. *See* Atmosphere.

Aira caspia. *See* Hassock grass.

Akiake weather data, R 1918, p. 94; 1921,

p. 49; 1929, p. 48.

See also Farming.

Akulurak weather data, R 1918, p. 94;

1921, p. 49; 1922, p. 17; 1923, p. 29;

1924, p. 39; 1925, p. 33.

See also Farming.

Alaska—

area, location, B 4, p. 1; C 1b, p. 1;

C 1c, p. 1; R 1900, p. 67.

as food producer, R 1918, p. 8.

coast region, B 2, pp. 10-12; B 4, p. 1;

B 6, p. 3; B 7, pp. 5, 11; B 62,

p. 42; B 82, p. 28; C 1b, pp. 2, 5,

13; R 1904, p. 270.

See also Climate; Survey; Topography.

colonization, B 48, p. 34; R 1929, p. 37.

comparison with—

Finland, R 1900, pp. 8, 68; 1901,

p. 277.

Russia, B 48, p. 24; R 1901, p.

277.

Alaska—Continued.

cost of living. *See* Living.
 economic conditions, R 1907, p. 20.
 editorials, R 1900, p. 69; 1901, pp. 277-283, 316; 1902, pp. 291, 292.
 funds for developing. *See* Act.
 interior, B 4, p. 1; B 6, p. 4; B 62, p. 43; B 82, p. 47; C 1b, p. 3; R 1900, p. 44; 1901, pp. 264, 283-297; 1903, p. 319.
See also Climate.
 judicial divisions, C 1b, p. 15.
 locating in, C 1a, p. 10; C 1b, p. 6; C 1c, p. 20.
 making self-supporting, R 1923, p. 28.
 population, B 48, pp. 3, 25; C 1b, p. 15; R 1928, p. 27.
 products, B 48, pp. 12, 17.
 resources, R 1900, p. 69.
 road commission. *See* Road commission.
 settlement difficulties, B 48, p. 22; B 62, pp. 3, 4; B 82, pp. 28, 51; R 1900, p. 71; 1902, p. 262; 1903, pp. 320, 337; 1907, p. 20; 1908, p. 8.
 settlement, early, R 1921, p. 1.
 war affects. *See* World War.
 work of pioneer, R 1901, p. 341.
See also specific items.

Alaska Agricultural College and School of Mines, C 1c, p. 21.
 Alaska Central Railway, R 1905, p. 21; 1908, p. 20.
 Alaska Coast Company, R 1912, p. 38.
 Alaska Colony Company, R 1902, p. 293.
 Alaska Commercial Company, B 8, p. 3; B 48, pp. 21, 26; B 62, pp. 29, 30; B 82, pp. 30, 40; R 1900, pp. 59, 61; 1904, p. 277; 1928, p. 27.
 Alaska Exploration Company, R 1900, p. 48.
 Alaska Game Commission, R 1929, p. 36.
 Alaska-Gastineau mine, C 1b, p. 10.
 Alaska Geographical Society Bulletin, R 1900, p. 69.
 Alaska Juneau mine, C 1b, p. 10.
 Alaska Oil and Guano Company, R 1900, p. 25.
 Alaska Packers' Association, B 62, p. 42; R 1903, p. 355.
 Alaska Peninsula. *See* Agricultural areas; Grazing lands.
 Alaska-Yukon Exposition, R 1908, p. 56.
 Alaskan Engineering Commission, R 1915, p. 27; 1917, p. 85.
Alchemilla millefolium, B 48, p. 20.

Alders—
 as windbreaks, B 2, p. 18; B 7, p. 11.
 diseases, R 1915, p. 40.
 domestic uses, B 48, p. 12.
 growing regions, B 48, p. 6; C 1a, p. 26; R 1900, p. 56; 1902, p. 267; 1904, p. 275.
 Aleutian Islands—
 climate. *See* Climate.
 commercial dairying, R 1929, p. 45.
 grazing possibilities, R 1928, p. 26.
 population, R 1928, p. 27.
 reed grass. *See* *Calamagrostis aleutica*.
 topography. *See* Topography.
 transportation facilities. *See* Transportation.

Aleutian Livestock Company, R 1928, p. 27.
 Aleutians, source of income, B 48, p. 25.
 Alexandrian Archipelago, B 48, p. 5.
 Alfalfa—
 and oats as feed, R 1918, pp. 86, 87.
 as cattle feed, R 1908, p. 62; 1912, p. 75.
 as pasture, R 1914, p. 31.
 as sheep feed, R 1914, pp. 77, 78.
 as soil renovator, R 1913, p. 17; 1914, p. 31; 1919, p. 52.
 botanical divisions, R 1913, p. 40.
 crown growth, R 1916, p. 34.
 culture—

Copper Center, R 1906, p. 38; 1907, p. 58; 1908, p. 54.

Alfalfa—Continued.
 culture—continued.

Fairbanks, R 1909, p. 57; 1910, p. 57; 1912, p. 52; 1913, p. 31; 1914, pp. 31, 47; 1915, p. 49; 1916, pp. 17, 45; 1917, p. 66; 1918, pp. 63, 66; 1919, p. 52; 1920, p. 44; 1921, p. 30; 1923, p. 10; 1924, p. 23; 1925, p. 23; 1927, p. 27; 1928, p. 11; 1929, p. 14.
 Kenai, B 82, p. 31; R 1904, p. 307; 1906, p. 49.
 Kodiak, B 48, p. 13; B 82, p. 36; R 1916, pp. 63, 64; 1918, p. 86; 1919, p. 58; 1920, p. 62.
 Matanuska, R 1918, p. 78; 1919, p. 72; 1920, p. 55; 1921, pp. 3, 20; 1923, p. 10; 1924, p. 14; 1925, p. 18.
 Rampart, C 1b, p. 13; R 1909, p. 48; 1910, pp. 34, 51; 1911, pp. 27, 43; 1912, pp. 35, 64; 1913, pp. 17, 40; 1914, p. 56; 1915, pp. 18, 58; 61; 1916, pp. 20, 26-28; 1917, pp. 26, 36; 1918, pp. 12, 36; 1919, pp. 11, 38; 1920, pp. 7, 23; 1921, pp. 4, 35; 1922, p. 5; 1923, p. 10; 1924, p. 25; 1925, p. 30.
 Sitka, R 1909, p. 43.

Wood Island, R 1903, p. 364.
 description, R 1913, pp. 40, 41; 1916, p. 20; 1923, p. 10.
 fertilization, R 1924, p. 14; 1927, p. 27.
 growth limitations, R 1925, p. 23.
 hay, R 1916, p. 26; 1918, p. 12; 1921, p. 30; 1929, p. 44.
 hybridization, R 1915, pp. 18, 61; 1916, pp. 20, 26, 27, 28; 1918, pp. 12, 36; 1923, p. 10; 1928, p. 11.
 inoculation, R 1912, p. 65; 1913, pp. 18, 42; 1917, p. 36; 1919, p. 72.
 on volcanic soil, R 1916, p. 63.
 pollination by insects, R 1917, p. 36.
 propagating, R 1911, p. 27; 1912, p. 36.
 purple-flowered or Grimm, R 1912, p. 64; 1914, p. 57; 1915, p. 58; 1916, p. 20; 1917, p. 37; 1918, p. 36; 1920, pp. 23, 55; 1922, p. 5; 1923, p. 11; 1924, p. 14; 1925, p. 14.
 rabbit damaged, R 1913, p. 32; 1924, p. 23.
 Russian, R 1915, pp. 15, 49; 1916, p. 26; 1923, p. 11.
 seed production, R 1913, p. 17; 1915, p. 59; 1916, pp. 21, 26; 1917, p. 37; 1921, pp. 4, 35; 1925, p. 31.
 seed production, soil moisture relation, R 1913, p. 42.
 Turkestan, R 1912, p. 65.
 variations in, R 1912, p. 36; 1915, p. 59; 1916, p. 27.
 varieties, R 1914, p. 56; 1915, pp. 49, 50, 58; 1916, pp. 27, 45; 1917, p. 66.
 yellow-flowered, R 1912, p. 64; 1913, p. 41; 1914, p. 56; 1915, p. 59; 1916, p. 20; 1917, p. 36; 1918, pp. 12, 36; 1919, p. 38; 1921, p. 35; 1922, p. 5; 1923, p. 10; 1924, p. 14; 1925, p. 14, 23, 30; 1928, p. 11; 1929, p. 14; yields, 1925, p. 31.

Algae, marine, uses, B 48, p. 16.
 Aliakaket weather data, B 7, p. 4; C 1b, p. 3; R 1907, p. 95; 1908, p. 78; 1909, p. 81; 1910, p. 78; 1911, p. 79; 1912, p. 90; 1913, p. 74; 1914, p. 90; 1915, pp. 8, 94; 1916, pp. 81, 83, 85; 1917, p. 90; 1918, p. 94; 1919, p. 81; 1922, p. 17; 1923, p. 29; 1924, p. 39; 1925, p. 33; 1926, p. 31; 1927, p. 29; 1928, p. 31.
See also Farming.
 Allium—
ascalonicum. *See* Shallots.
cepa bulbifera. *See* Tree onion.
fistulosum. *See* Siboule.
sativum. *See* Garlic.
schapoprasum. *See* Chives.

INDEX TO PUBLICATIONS

5

- Alnus—**
- oregona*, B 48, p. 28.
 - sinuata*—
 - growth at Kodiak, R 1904, p. 275.
See also Alders.
 - viridis*, B 48, p. 28.
 - Alopecurus—**
 - alpinus*. *See* Foxtail, mountain.
 - californicus*, R 1908, p. 57.
 - fultus*, B 48, p. 28.
 - geniculatus*. *See* Foxtail, water.
 - geniculatus fultus*, R 1908, p. 57.
 - pratensis*. *See* Foxtail, meadow.
 - Alsek River. *See* Farming.
 - Alpine longipes*, R 1908, p. 57.
 - Alternaria solani* on potatoes, R 1916, p. 35.
 - Alum root culture, Sitka, R 1917, p. 20.
 - Alyssum—**
 - saxatile compactum*, R 1917, p. 17.
See also Sweet alyssum.
 - Amalga. *See* Farming.
 - Amaranth, growth, Douglas City, R 1905, p. 71.
 - Amaryllis bellis* culture, Sitka, R 1917, p. 20.
 - Ambrosia mexicana*, R 1917, p. 20.
 - Amelanchier canadensis*. *See* June-berry.
 - American Red Cross war work in Alaska.
See War work.
 - Ammobium culture, Holy Cross, B 62, p. 37.
 - Ampelegis* spp., culture, Sitka, R 1924, p. 8.
 - Amygdalus—*
 - davidiana*, R 1915, p. 32.
nana, R 1915, p. 32.
 - Anchor Point, notes, R 1904, pp. 272, 273.
 - Anchorage—
 - commercial dairying, R 1929, p. 45.
 - weather data, B 7, p. 4; C 1b, p. 2; R 1916, p. 85; 1917, p. 90; 1918, p. 94; 1919, p. 81; 1920, p. 67; 1921, p. 50; 1922, p. 17; 1923, p. 29; 1924, p. 39; 1925, p. 33; 1926, p. 31; 1927, p. 29; 1928, p. 32.
See also Agricultural areas; Farming; Frost-free period.
 - Andreoffski, settlement, R 1901, p. 275.
 - Andromeda polifolia*, R 1908, p. 58.
 - Androsace chamæjasme*, R 1908, p. 57.
 - Anemone—**
 - drummondii*, R 1908, p. 57.
 - hirsutissima*, R 1908, p. 57.
 - japonica*, R 1917, p. 20.
 - pennsylvanica*, R 1911, p. 22.
 - richardsonii*, R 1908, p. 57.
 - Aniak. *See* Farming.
 - Animal—**
 - heads, sale regulations, C 1b, p. 17.
 - skins. *See* Skins.
 - Animals—**
 - domestic and native, B 48, pp. 31, 32.
 - predatory, R 1928, p. 31.
 - rains affect. *See* Rains.
 - Anise culture, Sitka, B 7, p. 32; R 1914, p. 24; 1926, p. 6.
 - Annex Creek weather data, R 1921, p. 50; 1925, p. 33; 1926, p. 31; 1927, p. 29; 1928, p. 32; 1929, p. 48.
 - Anthemis—**
 - kelwayi*, R 1918, p. 32.
 - spp., R 1917, p. 17; 1919, p. 29.
See also Marguerite.
 - tinctoria*, R 1926, p. 10.
 - tinctoria kelwayi*, R 1927, p. 12.
 - Anthomyia brasicae*. *See* Root maggots.
 - Anthoxanthum odoratum*—
 - as ornamental, B 48, pp. 14, 15.
 - feeding value, B 48, pp. 13, 14.
 - Antennaria vulneraria* culture, Sitka, B 82, p. 19.
 - Antirrhinum* spp. *See* Snapdragon.
 - Anvik—**
 - location, settlement, R 1901, p. 274.
 - weather data, B 62, p. 51.
See also Farming.
 - Aphids on plants, R 1915, pp. 42, 51; 1920, p. 20.
 - Agriculture. *See* Beekeeping; Bees.
 - Apollo mine location, B 48, p. 25.
 - Apple berry. *See* "Molka" berries.
- Apples—**
- culture—
 - Cook Inlet, Haines, Wrangell, R 1923, p. 16.
 - Copper Center, R 1908, p. 56.
 - Kenai, R 1902, p. 24; 1903, p. 355; 1905, p. 65.
 - Matanuska, R 1918, p. 81; 1919, p. 75; 1920, p. 57; 1924, p. 15; 1926, p. 28; 1927, p. 21; 1929, p. 24.
 - Rainpant, R 1907, p. 49; 1908, p. 43; 1911, p. 44; 1915, pp. 22, 68; 1917, pp. 27, 54.
 - Sitka, R 1902, p. 243; 1903, p. 328; 1904, p. 290; 1905, pp. 8, 27-30; 1906, pp. 23-26; 1907, pp. 21, 31; 1908, pp. 9, 22; 1909, pp. 8, 32-35; 1910, p. 20; 1911, p. 11; 1912, p. 23; 1913, p. 11; 1914, p. 15; 1915, pp. 10, 11, 29; 1916, pp. 6, 7; 1917, p. 11; 1918, p. 28; 1919, p. 26; 1920, p. 15; 1921, p. 13; 1922, p. 11; 1923, p. 16; 1924, p. 7; 1926, p. 4; 1927, p. 6; 1928, p. 3; 1929, p. 4.
 - diseases, R 1914, p. 27; 1915, p. 40.
 - insect pests, R 1915, p. 42; 1928, p. 3.
 - seasonal growth and condition, R 1910, pp. 21, 22.
 - spraying, R 1907, p. 31; 1908, p. 22.
See also Crab apples.
 - Apricot culture, Sitka, R 1917, p. 12; 1921, p. 15; 1922, p. 12; 1924, p. 7; 1926, p. 4; 1927, p. 7.
 - Aquilegia—**
 - brevistyla*, R 1908, p. 57.
 - canadensis*, R 1911, p. 22.
 - canadensis flaviflora*, R 1910, p. 27.
 - spp. *See* Columbine.
 - Arabis—**
 - alpina* culture, Sitka, R 1910, p. 27; 1915, p. 37; 1917, p. 17; 1918, p. 32; 1926, p. 10.
 - holboellii*, R 1908, p. 58.
 - hookeri*, R 1908, p. 57.
 - Araceae**, B 48, p. 28.
 - Aragallus—**
 - borealis*, R 1908, p. 57.
 - pygmaeus*, R 1908, p. 57.
 - Aralia cordata*. *See* Japanese asparagus.
 - Araliaceæ**, B 48, p. 28.
 - Archangel, B 48, p. 24; R 1901, p. 277.
 - Archangelica* spp. *See* Parsnips, wild.
 - Arctagrostis arundinacea*, R 1904, p. 281.
 - Arctic climate. *See* Climate.
 - Arctic day and night, R 1902, p. 292.
 - Arctostaphylos—**
 - alpina*, B 48, p. 15.
 - uva-ursi*, R 1901, p. 284.
 - Arctotis grandis** culture—
 - Rampart, R 1918, p. 53.
 - Sitka, R 1915, p. 38; 1917, p. 20.
 - Arctous alpina*, R 1908, p. 57.
 - Arenaria capillaris*, R 1908, p. 58.
 - Argyresthia conjugella* on apples, R 1915, p. 42.
 - Armeria—**
 - formosa*, R 1917, p. 20; 1918, p. 32; 1919, p. 27.
 - laucheria*, R 1910, p. 28.
 - Arnica alpina*, R 1908, p. 57.
 - Artichokes—**
 - as cattle feed, R 1926, p. 18.
 - as horse feed, R 1924, pp. 28, 29;
 - 1925, p. 8; 1926, p. 25.
 - as pig feed, R 1925, p. 15.
 - as sheep feed, R 1926, p. 25; 1927, p. 23.
 - carbohydrates in. *See* Carbohydrates.
 - fall digging effects, R 1925, p. 8; 1926, p. 6.
 - fertilization, R 1924, p. 28; 1925, p. 15; 1927, p. 20.
 - Jerusalem, culture—**
 - Fairbanks, R 1923, p. 13; 1926, p. 18.

Artichokes—Continued.

Jerusalem, culture—continued.

- Kodiak, R 1923, p. 13; 1924, p. 28; 1926, p. 30; 1927, p. 14.
 Matanuska, R 1923, p. 13; 1924, pp. 5, 15; 1925, p. 14; 1926, p. 25; 1927, p. 20.
 Rampart, R 1923, p. 13.
 Sitka, R 1923, p. 13; 1924, p. 5; 1925, p. 8; 1926, p. 6; 1927, p. 10; 1928, p. 4.
 Wood Island, R 1902, pp. 256, 260, 261.
 remaining in the ground, effects, R 1927, p. 14.
 silage from, B 8, p. 2; R 1923, p. 13; 1924, p. 5; 1926, p. 25.
 yields, R 1926, p. 25.

Ascochyta pisi on peas, R 1914, p. 27; 1915, p. 41.

Ash—

- mountain, culture, Sitka, R 1905, p. 34; 1906, p. 30; 1907, p. 41; 1908, p. 32; 1910, p. 27; 1915, p. 37; 1918, p. 30; 1919, p. 26; 1924, p. 7.
 mountain, diseases, R 1915, p. 41.
 tree culture, Kodiak, R 1902, p. 257.

Ashes—

- fertilizing value, B 4, p. 5; R 1910, p. 33.
 insecticidal value, B 7, p. 21; R 1924, p. 2.
 volcanic—
 analysis, R 1915, p. 25.
 grades, R 1912, p. 40.

- station properties damaged by, R 1912, p. 69; 1919, p. 64.
 soils and vegetation affected, B 5, pp. 2, 3; B 8, p. 7; R 1912, pp. 39-42, 67-72; 1913, pp. 21, 48; 1914, p. 66.

See also under Cattle; Sheep; wood. See Wood ashes.

Asparagus—

- canning type, B 2, p. 41.
 cultural directions, B 2, p. 40; B 7, p. 29; R 1901, p. 338.

culture—

- Copper Center, R 1908, p. 56.
 Kenai, R 1902, p. 248.
 Sitka, B 62, p. 13; R 1902, p. 242; 1914, p. 24; 1915, p. 36; 1917, p. 10; 1919, p. 24; 1924, p. 4; 1929, p. 5.
 fertilization, B 2, p. 41.

See also Japanese asparagus.

Asparagus—

- plumosa* culture, Sitka, R 1921, p. 15.
springeri, R 1921, p. 15.

Aspen, growing regions, C 1a, p. 26.

Asperula culture, Sitka, R 1927, p. 12.

Aster alpinus. *See Asters.*

Asters, culture—

- Fairbanks, R 1914, p. 48; 1915, p. 52; 1916, p. 49; 1921, p. 31.
 Holy Cross, B 62, p. 37.
 Rampart, R 1916, p. 37; 1918, p. 53; 1919, p. 43; 1921, p. 44.
 Sitka, B 82, p. 22; R 1902, p. 243; 1910, p. 28; 1914, p. 26; 1915, p. 38; 1916, p. 10; 1917, p. 20; 1924, p. 8; 1927, p. 12.

Astilbe davidae, R 1911, p. 22.

Astragalus—

- alpinus*, R 1908, p. 57.
pygmaeus, R 1908, p. 57.
 spp. culture, Copper Center, R 1908, p. 54.

Athyrium cyclosporum, growth, Kodiak, R 1904, p. 274.

Atka weather data, R 1916, p. 81; 1918, p. 95; 1924, p. 39.

Atmosphere, moist—

- berries affected, R 1928, p. 4.
 hay affected, R 1928, p. 28.
 wool affected, C 1b, p. 15; R 1921, p. 7; 1928, p. 27.

Atriplex hortensis. *See Mountain spinach.*
 Atka weather data, R 1918, p. 95; 1921, p. 50.

Auklet protection in Alaska, C 1b, p. 17.

Auroras at Rampart, R 1916, p. 23.

Avena—
 elatior. *See Oatgrass, tall meadow.*
striata, R 1904, p. 282.Awnless grass. *See Bromegrass, smooth.**Azalea*—
 americana. *See Azalea.**yodogawae*. *See Azalea.*

Azalea culture, Sitka, R 1917, p. 14; 1924, p. 8.

Babcock—
 test directions, R 1907, p. 72.

tester, description, R 1907, p. 67.

Baby-blue-eyes growth, Sitka, R 1927, p. 12.

Bachelor's-breath. *See Gypsophila paniculata.*

Bachelor's-button culture—

Holy Cross, B 62, p. 37.

Sitka, R 1918, p. 33.

See also Cornflowers.

Bacon—

- importation, B 6, p. 20; R 1923, p. 19.
 market value, C 1b, p. 12; C 1c, p. 23;
 R 1903, p. 340; 1907, p. 20; 1917, p. 89.

Baker Creek Hot Springs, R 1905, pp. 15, 18; 1910, p. 67.

Baker Creek station. *See Farming.*

Baking, potatoes affected, R 1928, p. 9.

Balm, growth in Alaska, R 1914, p. 24; 1915, p. 37.

Balsam culture—

Rampart, R 1918, p. 54.

Sitka, B 82, p. 22; R 1927, p. 12.

Bananas, market value, R 1912, p. 78.

Bang method for cattle tuberculosis, R 1916, p. 14; 1917, p. 77; 1920, p. 61.

Baptisia australis culture, Sitka, R 1911, p. 22.

Baranof Island, location, B 48, p. 5.

Baranof Swamp, B 82, p. 26.

Barley—

Abyssinian, R 1916, p. 18.

African, R 1911, p. 37.

- and oats for feed, R 1910, p. 62; 1911, p. 54; 1914, p. 70; 1916, p. 45; 1918, p. 60.

and peas for hay, R 1920, p. 59.

and vetch for feed, R 1924, p. 11; 1929, p. 25.

as cattle feed, R 1929, p. 30.

as nurse crop, R 1925, p. 12.

- bearded v. beardless, R 1912, p. 34; 1918, p. 59, 60.

cost of production, R 1924, p. 11; 1925, p. 12.

culture—

Coldfoot, B 6, p. 10.

- Copper Center, B 1, p. 8; B 6, p. 3; R 1903, p. 344; 1904, p. 314; 1905, p. 45; 1906, p. 40; 1907, p. 55; 1908, pp. 49, 52.

Europe, B 48, p. 23.

- Fairbanks, R 1908, p. 45; 1909, pp. 21, 53, 56; 1910, pp. 55, 56; 1911, p. 51; 1912, p. 51; 1913,

- p. 28; 1914, p. 44; 1915, p. 46; 1916, p. 42; 1917, p. 62; 1918,

- pp. 59, 61, 62; 1919, p. 49; 1920, p. 40; 1921, pp. 3, 26;

- 1923, p. 6; 1924, p. 19; 1925, p. 22; 1926, p. 14; 1927, p. 25; 1928, pp. 12, 13; 1929, p. 11,

- 13.

- Kenai, B 82, p. 31; R 1901, p. 256; 1902, p. 250; 1903, p. 358; 1904, pp. 301, 303, 304; 1905, p. 61.

- Kodiak, B 82, p. 36; R 1914, p. 70; 1915, p. 74.

- Matanuska, C 1a, p. 27; R 1918, p. 74; 1919, pp. 69, 70; 1920, p. 52; 1921, p. 19; 1923, p. 6; 1924, p. 11; 1925, p. 10, 12;

- 1926, p. 20; 1927, p. 17; 1928, pp. 20, 22; 1929, p. 24.

Barley—Continued.
culture—continued.

Rampart, B 1, p. 7; B 6, p. 3; R 1901, p. 270; 1902, p. 255; 1904, p. 332; 1905, p. 58; 1906, p. 45; 1907, pp. 30, 44-46; 1908, p. 35; 1909, pp. 14-17, 45, 46; 1910, pp. 31, 45, 46; 1911, pp. 24, 35-38; 1912, p. 60; 1913, p. 43; 1914, pp. 36, 60; 1915, pp. 19, 20, 63; 1916, pp. 18, 29, 32; 1917, pp. 22, 46; 1918, p. 39; 1919, pp. 10, 34; 1920, pp. 6, 29; 1921, pp. 5, 40; 1924, p. 26.

Sitka, B 6, p. 1; B 62, p. 12; B 82, pp. 16-18; R 1900, pp. 18, 19; 1901, p. 242; 1902, p. 230; 1903, p. 331; 1909, p. 42.

Skagway, B 6, p. 1; B 62, p. 17; Wood Island, R 1902, p. 258; 1903, p. 362; 1904, p. 333.

desirable characteristics, B 6, p. 25; R 1922, p. 3; 1923, p. 6.

diseases, B 6, p. 15.

feeding value, R 1928, pp. 18, 19.

fertilization, B 1, p. 15; B 82, p. 23; R 1900, p. 25; 1901, pp. 242, 256; 1904, pp. 303, 315; 1910, pp. 33, 49; 1912, p. 49; 1914, p. 70.

Finland, R 1911, p. 37.

germination, R 1929, p. 14.

hay production, B 3, p. 9; R 1913, p. 56; 1915, p. 74; 1917, p. 75; 1919, p. 51; 1922, p. 3.

head-row tests, R 1918, p. 61.

hull-less aw feed, R 1918, p. 60.

hybridization, B 6, pp. 28, 32-35; R 1910, p. 31; 1911, pp. 24, 35; 1912, pp. 34, 61; 1913, p. 43; 1915, p. 65; 1916, pp. 21, 29; 1917, pp. 22, 46; 1918, p. 39; 1919, pp. 10, 34; 1920, p. 29; 1921, pp. 26, 40; 1922, p. 4; 1925, p. 12.

importation, B 6, p. 20; R 1923, p. 19.

increase plats, R 1918, pp. 62, 63.

market value, R 1924, p. 11; 1925, p. 12.

maturing in Alaska, B 6, p. 24; C 1b, p. 12.

meal, uses, R 1910, p. 30.

mixture for sheep, R 1916, p. 61; 1917, p. 79; 1920, p. 61; 1921, p. 23.

moisture content differences, R 1929, p. 13.

Norwegian, B 82, p. 16.

oats, and vetch, sown together, R 1920, p. 43.

on new ground, B 82, p. 23; R 1901, p. 242.

on root-crop land, R 1918, p. 59; 1919, p. 49.

rotation, B 6, p. 19; R 1924, pp. 11, 19; 1925, pp. 14, 24; 1926, p. 15; 1927, p. 18; 1928, p. 24; 1929, p. 25.

Russian, B 82, p. 17; R 1900, pp. 18, 19; 1901, p. 242.

seed germination tests, R 1924, pp. 19, 20.

smut control, R 1924, pp. 19, 20.

spring, R 1903, p. 358; 1920, p. 52.

Swedish, R 1916, p. 32.

time of planting effects, R 1924, p. 20.

v. oats as hay, R 1912, p. 34.

varieties, B 6, p. 24; R 1910, pp. 31, 47.

variety tests, R 1911, p. 40; 1914, pp. 60, 61; 1916, pp. 44, 67; 1918, p. 61; 1919, p. 50; 1920, p. 41; 1924, p. 11; 1925, p. 11; 1926, p. 21.

water consumption, R 1915, p. 56.

wild, B 48, pp. 6, 13; R 1904, pp. 274, 283; 1917, p. 76.

Barns, station, B 82, p. 34; R 1901, p. 248; 1902, p. 244; 1904, p. 266; 1908, pp. 19, 43, 59; 1910, pp. 40, 54, 59; 1911, p. 58; 1914, pp. 35, 67; 1915, p. 25; 1916, p. 22; 1917, pp. 74, 82; 1919, pp. 18, 19, 62, 66; 1920, p. 5; 1922, p. 13.

Barrabaras. *See* Sod houses.

Barrels for plant propagation, R 1910, p. 25; 1911, p. 14; 1917, p. 11.

Barrow, weather data, R 1911, p. 77; 1916, p. 86; 1921, p. 50; 1923, p. 29; 1924, p. 40; 1926, p. 31; 1927, p. 30; 1929, p. 48.

See also Point Barrow.

Bartonia aurea culture, Sitka, R 1915, p. 38; 1919, p. 27.

Basket making, B 48, p. 15; R 1907, p. 24.

Bates Rapids, navigating, C 1b, p. 4.

Bayer's compound as fungicide, R 1925, p. 22.

Beans—

cultural directions, B 2, p. 42; B 7, p. 26; R 1901, p. 338.

culture—

Copper Center, R 1903, p. 352; 1904, p. 330; 1905, p. 52; 1906, p. 37; 1907, p. 53; 1908, p. 51; 1911, p. 66.

Fairbanks, R 1912, p. 55; 1913, p. 34; 1914, p. 48; 1915, p. 51; 1916, p. 48; 1917, p. 70; 1918, p. 68; 1920, p. 45.

Kenai, B 82, p. 32; R 1901, p. 263; 1904, p. 306.

Kodiak, B 82, p. 37; R 1919, p. 59.

Matanuska, R 1919, p. 76; 1920, p. 58; 1921, p. 21; 1924, p. 16; 1927, p. 21.

Rampart, R 1906, p. 46; 1907, p. 48; 1908, pp. 39, 42; 1914, p. 65; 1915, p. 67; 1916, p. 36; 1917, p. 56; 1918, p. 50; 1920, p. 34; 1921, p. 44.

Sitka, B 62, pp. 13, 15; B 82, p. 21; R 1902, p. 242; 1903, p. 323; 1904, p. 297; 1906, p. 33; 1909, p. 42; 1914, p. 20; 1915, p. 35; 1917, pp. 8, 10; 1921, p. 7; 1926, p. 6.

Skagway, B 62, p. 16.

Wood Island, R 1902, p. 257; 1903, p. 365.

diseases, R 1915, p. 41.

horse. *See* Horse beans.

inoculating, R 1906, p. 51.

Lima, R 1903, p. 323.

market value, C 1b, p. 12; C 1c, p. 23; R 1903, p. 341.

navy, R 1907, p. 53.

pole and string, B 82, p. 21; R 1919, p. 76; 1920, p. 45; 1921, p. 44.

snap, B 7, p. 26; R 1917, p. 10.

table preparation, B 2, p. 43; B 7, p. 28.

wax, B 62, p. 13; B 82, pp. 21, 32; R 1903, p. 323.

Windsor, B 7, p. 27; B 62, pp. 15, 16; B 82, pp. 21, 32; R 1903, p. 323; 1904, p. 297; 1906, p. 33; 1914, p. 20; 1915, p. 67.

Bear berries. *See* Wineberries.

Bear Lake. *See* Farming.

Bears—

crops destroyed, R 1906, p. 64.

habitats, B 48, p. 31; R 1900, p. 34; 1910, p. 71.

livestock destroyed, C 1a, p. 19; R 1911, p. 63; 1912, p. 44; 1914, p. 41; 1915, p. 81, 82.

protection in Alaska, C 1b, p. 17.

Beaver protection in Alaska, C 1b, p. 18.

Beech tree culture, Sitka, R 1915, p. 37.

Beef—

consumption in Alaska, R 1914, p. 33.

importation, B 6, p. 20; B 8, p. 4; R 1905, p. 23; 1923, p. 19.

market value, R 1903, p. 341.

Beeskeeping—

at Matanuska, R 1927, p. 23.

at Sitka, R 1906, p. 14.

Bees as pollen carriers, R 1916, p. 28; 1917, p. 36.

Beets—

canning, R 1918, p. 51.

Beets—Continued.

cultural directions, B 2, p. 32; B 7, p. 21; R 1901, p. 338.

culture—

Copper Center, R 1903, p. 352; 1904, p. 230; 1906, p. 37; 1907, p. 51; 1908, p. 50; 1911, p. 66. Fairbanks, R 1912, p. 55; 1917, p. 70; 1920, p. 44; 1921, p. 29; 1928, p. 14.

Kenai, B 82, p. 32; R 1901, p. 263; 1902, p. 248; 1903, p. 357; 1904, p. 306; 1905, p. 64; 1906, p. 50.

Kodiak, B 82, p. 37; R 1915, p. 76; 1916, p. 65; 1919, p. 59; 1927, p. 14.

Matanuska, C 1a, p. 27; R 1918, p. 80; 1920, p. 57; 1921, p. 22.

Rampart, R 1905, p. 58; 1906, p. 46; 1907, p. 48; 1908, p. 42; 1909, p. 50; 1916, p. 36; 1917, p. 56; 1921, p. 43.

Sitka, B 62, p. 13; B 82, p. 20; R 1900, p. 23; 1902, p. 242; 1903, p. 323; 1904, p. 297; 1905, p. 35; 1909, p. 41; 1910, p. 16; 1912, p. 21; 1914, p. 21; 1915, p. 35; 1917, p. 9; 1918, p. 26; 1919, p. 21; 1920, p. 19; 1921, p. 7; 1924, p. 2; 1925, p. 5; 1926, p. 5; 1927, p. 11; 1928, p. 5; 1929, p. 6.

Skagway, B 62, p. 16.

Wood Island, R 1902, p. 257; 1903, p. 365; 1904, p. 334.

insect pests, R 1901, p. 263.

market value, R 1914, p. 81; 1916, p. 76.

seed production, R 1919, p. 39.

See also Mangels; Sugar beets.

Begonias, culture, Sitka, R 1915, p. 39; 1921, p. 15.

"Belle Isle." *See* Johnny's Village.

Bellis perennis culture, Sitka, R 1910, p. 27; 1914, p. 25; 1915, p. 37; 1917, p. 18; 1926, p. 10.

Beluga weather data, R 1910, p. 78.

Bench lands—

Copper River Valley, R 1901, p. 292; 1902, pp. 263, 266; 1903, p. 339.

Matanuska, R 1918, p. 16; C 1c, p. 9. Nenana and Tanana River Valleys, R 1928, p. 29.

Bennett, location, R 1900, p. 45.

Bensonberry. *See* Raspberry-salmonberry.

Berberis—

sieboldii, R 1922, p. 12.

spp., R 1917, p. 14; 1920, p. 16.

stenophila, R 1922, p. 12.

thunbergii, R 1922, p. 12.

vulgaris, R 1904, p. 297.

Bergen (Norway) weather data, B 48, pp. 7, 8.

Bering Sea coast vegetation, B 7, p. 5.

See also Farming.

Berries—

growing regions, B 48, p. 15; B 62, p. 49; R 1900, p. 34.

moist atmosphere. *See* Atmosphere.

See also specific kinds.

Bethel—

location, R 1900, p. 34.

weather data, R 1924, p. 40; 1925, p. 34; 1926, p. 32; 1927, p. 30; 1928, p. 32; 1929, p. 48.

See also Farming.

Bettles, location, R 1919, p. 78.

See also Farming.

Betula—

alba. *See* Birch, white.

glandulosa, B 48, p. 28.

papyrifera, D 48, p. 28.

Bichloride of mercury for seed, R 1918, p. 50.

Big Salmon River, R 1900, p. 47.

Binder, self, first in Alaska, R 1907, p. 18.

Birch—

culture, Sitka, R 1918, p. 30; 1924, p. 7. lands, B 6, pp. 6, 8, 11; B 7, p. 6; B 48, p. 6; C 1b, p. 5; R 1900, p. 56; 62; R 1901, p. 284; 1902, p. 267. white, R 1919, p. 26.

Birds—

crops destroyed, R 1907, p. 86. protection in Alaska, C 1b, p. 17.

Bishop Mountain, location, R 1902, pp. 288, 289.

Bittersweet creeper, R 1904, p. 296. Black Point weather data, R 1907, p. 97; 1908, p. 79; 1909, p. 82.

Black rot on Cruciferæ. *See* *Pseudomonas campesiris*.

Blackberries, culture, Sitka, R 1902, p. 243; 1903, p. 330; 1904, p. 295; 1905, p. 33; 1909, p. 10; 1917, p. 12; 1918, p. 29; 1924, p. 6; 1926, p. 3; 1927, p. 9; 1928, p. 4; 1929, p. 5.

Black-eyed-susan culture, Sitka, R 1917, p. 20.

Blackleaf 40 as insecticide and fungicide, R 1920, p. 20.

Blackleg—

of cattle, B 8, p. 7; R 1916, p. 61. of potatoes, R 1928, p. 21.

Blacksmith shops, R 1902, p. 244; 1906, p. 20; 1910, pp. 40, 54; 1919, p. 63.

Blacktop grass culture—

Copper Center, R 1908, p. 55. Fairbanks, R 1909, p. 57.

Blanket flower.

See *Gaillardia* spp.

Blanket making by Alaskans, B 48, p. 26.

Bleeding heart. *See* *Dicentra spectabilis*.

Blight of potatoes, R 1917, p. 69.

Blitum capitatum. *See* "Strawberry blight."

Blood meal, fertilizing value, R 1921, p. 35.

Blue flax flower culture, Sitka, R 1917, p. 19.

Bluebells, culture, Sitka, R 1910, p. 28; 1915, p. 37; 1917, p. 17.

Blueberries—

culture—

Copper Center, R 1908, p. 56. Fairbanks, R 1917, p. 71; 1929, pp. 11, 17.

Sitka, R 1910, p. 23; 1914, p. 14;

1915, pp. 10, 31; 1917, p. 13;

1918, p. 29.

growing regions, B 48, p. 15; C 1a, p. 28; R 1901, p. 284; 1902, p. 267.

Blueflag.

See *Iris sibirica*.

Bluegrass—

annual. *See* *Poa annua*.

Canadian, R 1927, p. 20; 1928, p. 9; 1929, p. 8.

culture, Wood Island, R 1902, p. 258.

English. *See* *Festuca pratensis*.

feeding value, B 48, pp. 13, 14; R 1917, p. 77.

fertilization, R 1913, p. 57.

Kentucky, culture at—

Copper Center, R 1903, p. 350; 1904, p. 328; 1905, p. 51.

Fairbanks, R 1910, p. 57.

Kenai, R 1902, p. 253; 1903, pp. 359; 361; 1904, p. 308; 1905, p. 62; 1906, p. 49.

Kodiak, R 1913, p. 57; 1916, p. 63; 1917, p. 76.

Matanuska, R 1919, p. 71; 1920, p. 55.

Rampart, R 1906, p. 47; 1907, pp. 30, 47; 1908, p. 39; 1909, p. 48; 1911, p. 43.

Sitka, B 82, p. 19; R 1902, p. 241; 1903, p. 335; 1904, p. 300.

Kentucky, growing regions, B 48, pp. 6, 31; R 1904, pp. 272, 282.

Bluestar. *See* *Ageratum* sp.

Bluestem grass culture, Fairbanks, R 1912, p. 52.

Bluestone. *See* Copper sulphate.

- Bluetop—**
culture—
 Copper Center, R 1908, p. 55.
 Kenai, R 1905, p. 63; 1906, p. 49.
 feeding value, R 1904, p. 276; 1916,
 p. 12; 1917, p. 77; 1927, pp. 15, 16.
 growing regions, B 48, p. 13; R 1904,
 pp. 271, 272, 274, 275, 281; 1907,
 p. 16; 1915, p. 78; 1916, p. 11; 1928,
 p. 29.
haymaking and silage, B 3, p. 8; B 8,
 p. 2; R 1911, p. 61; 1916, p. 11;
 1917, pp. 67, 76; 1918, p. 88; 1920,
 p. 60; 1921, p. 45.
on volcanic areas, R 1914, p. 73; 1915,
 p. 72.
- Boards**, use in drainage and ditching, B 1,
 p. 12; B 2, p. 20; B 7, p. 9.
- Boats—**
government, R 1919, p. 31.
sand bars affect. See Sand bars.
station, B 82, p. 48; R 1900, p. 29;
 1905, pp. 20, 59; 1909, p. 24; 1910,
 pp. 35, 42, 60; 1911, pp. 32, 55;
 1913, p. 23; 1915, p. 71; 1917,
 p. 30; 1918, p. 88; 1919, pp. 15, 63.
- Bogs**. See Peat bog.
- Boiling**, potatoes affected. See Potatoes.
- Bone meal**, fertilizing value, R 1914, p. 70.
- Borage culture**, Sitka, B 7, p. 32; R 1927,
 p. 12.
- Bordeaux mixture** as insecticide and fungicide, R 1905, p. 8; 1907, p. 31; 1908,
 p. 22; 1915, p. 40; 1920, p. 20.
- Borecole**. See Kale.
- Bos grunniens**. See Yak.
- Botany**. See Report.
- Botrytis—**
 cineræa on currants, R 1927, p. 9.
 cineræa on plants, R 1914, p. 26.
 spp., R 1915, p. 39.
 vulgaris on plants, R 1914, p. 26.
- Bottom lands v. hills**, notes. See Land, flat.
- Boundary**, American-British. See Canadian boundary.
- Bouvardias** spp., culture, Sitka, R 1919,
 p. 29; 1921, p. 15.
- Boxes—**
for seed germination, R 1914, p. 65;
 1917, p. 16.
sluice, Kodiak, R 1914, p. 66.
See also Window boxes.
- Boyle**, F. A., statement on land laws, C 1b,
 p. 7.
- Boys' and girls' club work**, R 1921, p. 32.
- Brachycome iberidifolia** culture, Sitka, R
 1917, p. 20.
- Brady**, Governor Jno., notes, B 48, p. 19;
 B 62, pp. 2, 8; B 82, p. 10; R 1903,
 p. 315.
- Brainerd**, Erastis, editorial on Alaska, R
 1901, p. 276.
- Bran—**
and malt as cow feed, B 62, p. 21.
and middlings as sheep feed, R 1914,
 p. 77.
- Brant protection** in Alaska, C 1b, p. 17.
- Brassica rapa**, R 1909, p. 41.
See also Turnips.
- Bread—**
making in Alaska, R 1918, p. 8.
sour-dough, C 1b, p. 11.
- Brendel**, physiological constant determination by, B 48, p. 24.
- Bricks**, cost in Alaska, C 1a, p. 16.
- Bridge construction**, R 1901, p. 294; 1911,
 p. 53; 1914, p. 52; 1924, p. 27.
- Broccoli—**
cultural directions, B 2, p. 35; B 7,
 p. 23.
culture—
 Copper Center, R 1906, p. 37.
 Kenai, R 1901, p. 263; 1903, p.
 356; 1906, p. 50.
 Rampart, R 1906, p. 47; 1907,
 p. 49; 1908, p. 41.
- Broccoli—Continued.**
culture—continued.
 Sitka, R 1905, p. 35; 1910, p. 16;
 1912, p. 18; 1914, p. 19; 1915,
 p. 33; 1917, p. 8; 1921, p. 8;
 1925, p. 4; 1928, p. 5; 1929,
 p. 6.
Wood Island, R 1903, p. 364.
diseases, R 1915, p. 39.
insect pests, R 1915, p. 42.
- Bromegrass—**
and clover mixture, R 1929, p. 15.
growth notes, R 1913, p. 58; 1916,
 p. 63; 1918, p. 77; 1927, p. 20;
 1928, pp. 9, 12.
smooth, culture—
 Copper Center, R 1902, p. 269;
 1903, p. 350; 1905, p. 51; 1906,
 p. 39; 1907, pp. 27, 57; 1908,
 p. 54.
Fairbanks, R 1917, p. 29.
Kenai, R 1902, p. 252; 1903, pp.
 359, 360; 1904, p. 307, 308;
 1905, p. 62; 1906, pp. 48, 49.
Matanuska, R 1918, p. 77; 1919,
 p. 71; 1920, p. 55; 1924, p. 15.
Rampart, R 1906, p. 47; 1907,
 pp. 30, 47; 1908, p. 31; 1910,
 p. 51; 1911, p. 43; 1912, p. 63;
 1913, p. 19; 1915, p. 58; 1916,
 p. 26; 1921, p. 35.
Sitka, R 1902, p. 241.
Wood Island, R 1902, p. 258; 1903,
 p. 364.
smooth, fertilization, R 1912, p. 63.
smooth, for hay and pasture, C 1b,
 p. 13; R 1913, p. 19; 1917, p. 29;
 1921, p. 35.
- Bromus**
aleutensis, growing regions, R 1904, p.
 283.
ciliatus scariosa, B 48, p. 28.
commutatus, R 1908, p. 57.
hordeaceus, growing regions, R 1904,
 p. 283.
inermis. See Bromegrass, smooth.
pacificus, R 1904, p. 283; 1908, p. 55.
richardsonii, growing regions, R 1904,
 pp. 273, 283.
secalinus—
 feeding value, B 48, p. 14.
 See also Cheat.
secundus, B 48, p. 28.
sitchensis, R 1904, p. 283.
Broom corn, R 1900, p. 21.
- Browallia** spp., R 1919, p. 29.
- Brush**, use in drainage and ditching, B 1,
 p. 11; B 2, p. 21; B 7, pp. 8, 9; B 82,
 p. 26; R 1900, p. 15.
- Brussels sprouts—**
cultural directions, B 2, p. 35; B 7,
 p. 18.
culture—
 Fairbanks, R 1917, p. 70; 1928,
 p. 14.
 Kenai, R 1902, p. 247; 1906, p. 50.
 Rampart, R 1905, p. 59; 1906,
 p. 47; 1907, p. 49; 1908, p. 41;
 1918, p. 50.
Sitka, R 1902, p. 242; 1903, p.
 324; 1904, p. 297; 1905, p. 35;
 1906, p. 33; 1910, p. 16; 1912,
 p. 19; 1913, p. 9; 1914, p. 19;
 1915, p. 34; 1917, p. 9; 1918,
 p. 25; 1919, p. 21; 1921, p. 8;
 1925, p. 4; 1926, p. 5; 1927,
 p. 11; 1928, p. 5; 1929, p. 6.
diseases, R 1915, p. 39; 1927, p. 11.
insect pests, R 1915, p. 42.
storing, R 1919, p. 41.
- Buck beans**, medicinal value, B 48, p. 16.
- Buckwheat—**
as soil renovator, R 1913, p. 36.
as stock feed, R 1921, p. 30.
Canadian, R 1900, p. 22.
culture—
 by Russians in Alaska, B 48, p.
 18.

Buckwheat—Continued.
culture—continued.

Copper Center, R 1903, p. 348; 1904, p. 327; 1905, p. 45; 1906, p. 42; 1907, p. 56.
Fairbanks, R 1909, p. 55; 1910, p. 56; 1912, pp. 30, 51; 1913, p. 30; 1914, pp. 30, 47; 1915, p. 46; 1916, p. 42; 1917, p. 65; 1920, p. 42; 1921, p. 30.
Kenai, B 82, p. 31; R 1901, p. 260; 1902, p. 251; 1903, p. 359; 1905, p. 61.
Kodiak, B 82, p. 36; R 1916, p. 64; 1919, p. 58.
Matanuska, R 1918, p. 76; 1919, p. 71.
Rampart, R 1901, p. 273; 1905, p. 57; 1908, p. 39; 1909, pp. 14, 48; 1915, pp. 21, 66; 1917, p. 53; 1920, p. 31.
Sitka, B 62, p. 12; B 82, p. 19; R 1900, p. 21; 1901, p. 246; 1902, p. 240; 1903, p. 333.
Wood Island, R 1903, p. 362.
lime effect, B 82, p. 23.
Russian, R 1900, p. 21; 1901, p. 246.
seed production, R 1915, p. 66.
spring, R 1903, p. 359.
weather effect, C 1b, p. 13.

Buffaloberry culture, Sitka, R 1904, p. 297; 1905, p. 32; 1906, p. 28; 1909, p. 10.
Building materials, cost in Alaska, C 1a, p. 16.
Buildings, painting frequently, R 1915, p. 70.

Bulb growing in Alaska, C 2; R 1910, p. 29; 1920, p. 17; 1923, p. 17; 1924, p. 8; 1925, p. 8; 1926, p. 8; 1927, p. 12; 1929, p. 7.

Bulbs, growing by Dutch method, C 2, p. 10.
Funch grass—
culture, Kenai, R 1906, p. 49.
range at Healy and Lignite, R 1928, p. 29.

Bunchberries, growing regions, B 48, p. 15.
Bureau of Education work at Copper Center, R 1911, p. 65.
Burning—

grasslands, advantages, R 1911, p. 54; 1928, p. 31; 1929, p. 37.
limestone. *See Lime.*
moss lands. *See Moss lands.*

Butter—
demand and supply, B 48, p. 21; B 82, p. 51; R 1927, p. 3.
exportation from Finland, R 1900, p. 69.
importation to Alaska, B 6, p. 20; R 1923, p. 19.
making—

at Curry, R 1928, p. 1; 1929, p. 2.
at Kenai, R 1904, p. 302; 1905, p. 15; 1906, p. 18; 1907, p. 70.
in Matanuska Valley, B 8, p. 4.
worker, description, R 1906, p. 52; 1907, p. 66.

Buttercups, culture, Sitka, R 1910, p. 28.
Butterfat market value, R 1929, p. 45.
Butterfly flower culture—

Rampart, R 1917, p. 57; 1918, p. 54.
Sitka, R 1917, p. 20.

Buttermilk making, R 1907, p. 70.
Buxus sempervirens, R 1922, p. 12.

Cabbage—
cultural directions, B 2, p. 33; B 7, p. 21; R 1901, pp. 332, 338; 1910, p. 53.

culture—
Copper Center, R 1903, p. 350; 1904, p. 330; 1905, p. 53; 1906, p. 37; 1908, p. 50; 1911, p. 66.
Fairbanks, R 1908, p. 45; 1909, p. 51; 1910, p. 58; 1911, p. 47; 1912, p. 55; 1914, p. 48; 1915, p. 51; 1916, p. 48; 1917, p. 70; 1918, p. 68; 1920, p. 45; 1921, p. 29; 1926, p. 19; 1928, p. 14.

Cabbage—Continued.
culture—continued.

Kenai, B 82, p. 32; R 1901, p. 262; 1902, p. 247; 1903, p. 356; 1904, p. 305; 1905, p. 63; 1906, p. 50.

Kodiak, B 82, p. 37; R 1914, p. 72; 1915, p. 76; 1916, p. 65; 1919, p. 59; 1927, p. 14.

Matanuska, C 1a, p. 27; R 1918, p. 80; 1919, p. 77; 1920, p. 58; 1921, p. 22; 1924, p. 16.

Rampart, R 1905, p. 60; 1906, p. 46; 1907, p. 49; 1908, p. 41; 1909, p. 51; 1911, pp. 26, 45; 1912, p. 66; 1914, p. 38; 1916, p. 36; 1917, p. 56; 1918, pp. 47, 50; 1919, pp. 12, 41; 1920, pp. 32, 34; 1921, pp. 43, 44.

Sitka, B 62, p. 13; R 1900, pp. 22, 23; 1902, p. 242; 1903, p. 324; 1904, p. 298; 1905, p. 35; 1906, p. 32; 1908, p. 31; 1909, p. 40; 1910, p. 16; 1911, p. 19; 1912, p. 17; 1913, p. 8; 1914, p. 18; 1915, p. 33; 1917, p. 8; 1918, p. 25; 1919, p. 20; 1920, p. 18; 1921, p. 8; 1924, p. 2; 1925, p. 4; 1926, p. 5; 1927, p. 11; 1928, p. 5; 1929, p. 6.

Skagway, B 62, p. 16.
diseases, R 1914, p. 27; 1915, p. 33; 1917, p. 8; 1918, p. 25.

fertilization, B 7, p. 9.
Insect pests, R 1907, p. 24; 1915, p. 41; 1917, p. 8; 1920, p. 18; 1921, p. 8; 1924, p. 2.

market value, R 1907, p. 15; 1911, p. 49; 1914, p. 81; 1916, p. 76.

notes on growth, B 1, p. 7; B 48, p. 19; R 1909, p. 11.

on sandy soil, R 1914, p. 53.
seed production, R 1918, p. 47; 1919, p. 39; 1920, p. 32.

seed sterilization, R 1918, p. 50.
Storing, R 1919, p. 41.

variety tests, R 1911, p. 20.
See also Chinese cabbage; Skunk cabbage.

Cabins between relay stations, R 1901, p. 287.

Table lines in Alaska, C 1b, p. 16; C 1c, p. 25.

Calil rosa culture, Rampart, R 1920, p. 36.
Calamagrostis—

aleutica, feeding value, B 48, p. 13.
aleutica, growing regions, R 1904, pp. 275, 281.

canadensis, feeding value, B 48, p. 14.
canadensis, growing regions, R 1929, p. 46.

deschampsiaoides, R 1904, p. 281.
longsdorffii. *See Bluetop.*

scabra, R 1919, p. 57.

Calceolaria, culture, Sitka, R 1915, p. 38; 1920, p. 18.

Calcium chloride for weeds, R 1929, p. 18.
Calcium nitrate, fertilizing value, R 1913, p. 21; 1914, pp. 39, 70; 1915, pp. 24, 74; 1916, p. 51.

Calder weather data, R 1908, p. 74; 1909, p. 75; 1910, p. 78; 1911, p. 77; 1912, p. 90; 1913, p. 75; 1914, p. 90; 1915, pp. 8, 94; 1916, pp. 81, 86; 1917, p. 91; 1918, p. 95; 1919, p. 81; 1920, p. 67; 1921, p. 51; 1922, p. 17; 1923, p. 30; 1926, p. 32; 1927, p. 30; 1928, p. 32; 1929, p. 49.

Caldwell, S. A., report on Wood Island.
See Report.

Calendula. *See Marigold.*

Calliopsis sp., notes, R 1917, p. 20.
See also Coreopsis sp.

Calsinsky Bay. *See Kalsin Bay.*

Calves, care, R 1907, p. 64; 1915, p. 80.

Camomile. *See Pyrethrum roseum.*

- Camp Colonna—
location, B 62, p. 50.
weather data, B 62, p. 51.
- Camp Davidson—
location, B 62, p. 50.
weather data, B 62, p. 51.
- Camp Eighteen. *See* Farming.
- Campnula*—
alliarifolia, R 1917, p. 20.
carpatica. *See* Harebell, Carpathian.
grandis, R 1917, p. 20.
macrantha, R 1917, p. 20.
medium. *See* Canterbury-bells.
persicifolia. *See* Bluebells.
pyramidalis, R 1917, p. 20.
turbinata, R 1917, p. 20.
turbinata alba, R 1917, p. 20.
- Canada—
crop failures, C 1b, p. 14.
weather data, B 48, pp. 7, 8.
- Canadian—
boundary, height, R 1900, p. 45.
boundary, distance to Bering Sea, R 1901, pp. 297, 298.
- Canary-bird vines, culture—
Fairbanks, R 1916, p. 49; 1921, p. 31.
Rampart, R 1918, p. 54.
- Candle weather data, R 1904, p. 359; 1908, p. 80; 1909, p. 82; 1910, p. 79; 1911, p. 77; 1912, p. 90; 1913, p. 75; 1914, p. 90; 1915, pp. 8, 94; 1916, pp. 81, 86; 1917, p. 91; 1918, p. 95; 1919, p. 81; 1923, p. 30; 1924, p. 40; 1926, p. 32.
- Candytuft—
culture—
Copper Center, R 1904, p. 331; 1905, p. 54.
Fairbanks, R 1912, p. 56; 1915, p. 52; 1916, p. 49; 1917, p. 70.
Rampart, R 1905, p. 60; 1916, p. 37; 1917, p. 57; 1918, p. 54; 1919, p. 43; 1920, p. 35.
Sitka, R 1902, p. 243; 1914, p. 26; 1915, p. 38; 1919, p. 27; 1921, p. 14; 1926, p. 10; 1927, p. 12.
hardy, R 1917, p. 20.
- Canned food, health affected by, C 1b, p. 4.
- Canneries, B 48, p. 4; C 1b, p. 16; R 1901, p. 253; 1925, p. 17.
- Cannibalism in swine. *See* Swine.
- Canning—
fruits and vegetables, R 1910, p. 53; 1916, p. 77; 1917, p. 57.
salmon. *See* Salmon.
- Canoes, notes, B 48, pp. 12, 26; R 1900, p. 62.
- Canterbury-bells, culture, Sitka, R 1914, p. 25; 1915, p. 37; 1917, p. 17; 1918, p. 32; 1927, p. 12.
- Cape Fox Indians. *See* Indians.
- Capillary action of ground ice. *See* Ice in ground.
- Capnoites pauciflorum*, R 1908, p. 57.
- Caprifoliaceae*, B 48, p. 28.
- Capsella bursa-pastoris*. *See* Shepherd's purse.
- Caragana*—
arborescens. *See* Pea tree, Siberian.
microphylla culture, Sitka, R 1905, p. 34; 1906, p. 30.
- Caraway—
cultural directions, B 2, p. 46; B 7, p. 32.
culture, Sitka, R 1915, p. 37; 1927, p. 12.
growth, Wood Island, R 1903, p. 364.
- Carbohydrates in artichokes, R 1928, p. 4.
- Carbolic acid as insecticide, R 1919, p. 79; 1924, p. 2.
- Carbon bisulphide as insecticide, R 1907, p. 24; 1911, p. 69.
- Cardamine pratensis*, R 1908, p. 57.
- Carex*—Continued.
- macrocephala*—
as sand binder, R 1904, p. 284.
growing districts, R 1904, pp. 273, 284.
- macrocheta*, R 1904, p. 284.
- pratensis*, R 1908, p. 58.
- sitchensis*, R 1904, p. 284.
- Caribou—
enemies, R 1928, p. 31.
ensnaring methods, R 1901, p. 287.
in Copper River country, R 1900, p. 34.
meat, market value, C 1b, p. 12.
protection in Alaska, C 1b, p. 17.
- Carmel. *See* Farming.
- Carnations, culture—
Rampart, R 1908, p. 43; 1913, p. 37.
Sitka, B 82, p. 22; R 1902, p. 243; 1911, p. 22; 1915, p. 39; 1917, p. 20; 1921, p. 15.
- Carp breeding, B 48, p. 32.
- Carpathian bell. *See* Harebell.
- Carpentering by Eskimos, B 48, p. 26.
- Carrots—
as slug bait, R 1920, p. 20.
as stock feed, R 1918, pp. 67, 79; 1919, p. 74; 1920, p. 57; 1921, p. 21; 1924, p. 15; 1926, p. 26.
cost of production, R 1924, p. 15; 1925, p. 15.
cultural directions, B 2, p. 28; B 7, p. 19; R 1901, p. 338.
culture—
Copper Center, R 1903, p. 351; 1904, p. 330; 1906, p. 37; 1907, p. 51; 1908, p. 50; 1911, p. 66.
Fairbanks, R 1911, p. 47; 1912, p. 55; 1915, p. 51; 1917, p. 70; 1918, p. 67; 1919, p. 52; 1920, p. 44; 1921, p. 29; 1928, p. 14.
Kenai, B 82, p. 32; R 1902, p. 248; 1903, p. 357; 1904, p. 306; 1905, p. 64; 1906, p. 50.
Kodiak, B 82, p. 37; R 1914, p. 72; 1915, p. 76; 1916, p. 65; 1927, p. 14.
Matanuska, C 1a, p. 27; R 1918, pp. 79, 80; 1919, pp. 74, 76; 1920, p. 57; 1921, pp. 21, 22; 1924, pp. 15, 16; 1925, p. 15; 1926, p. 26.
Rampart, R 1905, p. 59; 1906, p. 46; 1907, p. 48; 1908, p. 42; 1909, p. 50; 1915, p. 68; 1916, p. 36; 1917, p. 56; 1918, pp. 48, 51; 1920, pp. 32, 33; 1921, p. 43.
Sitka, B 62, p. 13; B 82, p. 20; R 1900, p. 23; 1902, p. 242; 1903, p. 325; 1904, p. 298; 1905, p. 37; 1909, p. 41; 1912, p. 20; 1914, p. 21; 1915, p. 35; 1917, p. 9; 1918, p. 26; 1919, p. 22; 1921, p. 8; 1924, p. 2; 1925, p. 5; 1926, p. 5; 1927, p. 11; 1928, p. 6; 1929, p. 6.
Skagway, B 62, p. 16.
Wood Island, R 1903, p. 365.
- market value, R 1911, p. 49; 1914, p. 81; 1916, pp. 68, 76.
seed production, R 1920, p. 32.
storing, R 1928, p. 6.
- Carvings by natives, B 48, p. 26.
- Caryophyllaceae, B 48, p. 28.
- Cassiope tetragona*, R 1908, p. 57.
- Castilleja pallida*, R 1908, p. 57.
- Castle Hill. *See* Sitka station.
- Castor oil—
bean plant culture, Sitka, R 1917, p. 21.
for cattle, R 1908, p. 63; 1916, p. 60.
- Caterpillars on vegetables, R 1901, p. 262.
- Catnip growth, B 7, p. 32.
- Cats, domesticated, B 62, p. 38.
- Catsup from cranberries, R 1905, p. 72.
- Cattle—
afterbirth, removal by hand, R 1907, p. 64.
beef, R 1904, p. 278; 1916, p. 58.

Cattle—Continued.

breeding—

by Russians in Alaska, B 8, p. 2.
history in Alaska, B 5, p. 2; B 8,
B 48, pp. 20, 32; B 82, p. 39;
C 1b, p. 14; R 1903, p. 322;
1904, pp. 268, 278; 1905, p.
20; 1906, p. 21; 1915, p. 17;
1916, pp. 58, 59; 1918, p. 18;
care, R 1907, p. 62; 1916, p. 60;
dairy quality development, R 1914, p.
41; 1917, p. 79.

See also Dairy yields.

dehorning. *See* Dehorning.

diseases and ailments, R 1915, pp. 22,
79; 1916, pp. 13, 59; 1918, p. 19;
1919, p. 61; 1920, pp. 3, 61; 1924,
p. 24.

drought effect, R 1915, p. 63.

dual-purpose, R 1905, p. 20; 1906, p.
22; 1909, p. 26; 1915, p. 23.
feeding, B 8, p. 2; R 1908, p. 62;
1909, p. 63; 1911, p. 62; 1912, p.
74; 1915, p. 79; 1918, p. 89; 1919,
p. 57; 1921, p. 23; 1924, p. 29; 1926,
p. 27; 1927, pp. 14, 21, 22; 1928, p.
25; 1929, p. 30.

Galloway, B 5, p. 1; B 8, pp. 4, 10;
C 1b, p. 14; R 1906, p. 20; 1907, pp.
8, 59; 1909, p. 63; 1912, pp. 43, 68;
1915, p. 79; 1916, pp. 12, 58; 1917,
p. 77; 1918, p. 89; 1919, p. 17;
1923, p. 23.

Galloway-Holstein, B 8, p. 14; R 1918,
p. 89; 1920, pp. 12, 62; 1921, p.
46; 1922, p. 8; 1923, p. 23; 1925,
pp. 18, 28; 1926, p. 27; 1929, p. 29.
Holstein-Friesian, B 8, pp. 12, 13;
R 1916, p. 13; 1918, pp. 20, 89;
1919, p. 16; 1922, p. 7; 1923, p. 23;
1929, p. 29.

losses in Alaska, R 1908, p. 63; 1909,
p. 25; 1915, p. 79; 1916, p. 59;
1924, pp. 24, 29.

maintenance at Healy and Lignite, R
1928, p. 31.

Milking Shorthorn, B 8, pp. 16, 17;
R 1920, p. 1; 1921, p. 23; 1922, p.
9; 1923, p. 25; 1924, p. 16; 1925,
p. 17; 1927, p. 23.

number in Alaska, R 1929, p. 44.
production in Finland, R 1900, p. 68;

1901, p. 277.
protecting against predatory animals,
R 1928, p. 31.

raising—

Copper Center, R 1905, p. 54.

Fairbanks, R 1912, p. 56; 1914,
pp. 32, 51; 1920, p. 46; 1921,
p. 31; 1924, p. 24; 1925, p.
27; 1926, p. 11; 1927, pp. 4,
29; 1928, p. 15; 1929, p. 19.

Healy, R 1929, p. 45.

Kalsin Bay, R 1908, p. 19; 1911,
p. 62; 1921, p. 6.

Kenai, B 62, p. 27; R 1903, pp.
354, 355; 1904, pp. 267, 302,
309; 1905, pp. 14, 60, 63; 1906,
pp. 19, 51; 1907, p. 26.

Kodiak, B 8, p. 5; R 1906, p. 22;
1907, pp. 8-12, 59; 1908, pp.
18-20, 58-64; 1909, pp. 25,
57-65; 1910, pp. 41, 63; 1911,
pp. 30, 61; 1912, pp. 38, 74;
1913, pp. 22, 59; 1914, pp. 40,
67, 74; 1915, pp. 22, 79; 1916,
pp. 12, 55, 58; 1917, pp. 31,
77; 1918, pp. 19, 89; 1919,
8, 16, 60; 1920, pp. 11, 12, 61;
1921, pp. 6, 45; 1923, p. 23;
1924, pp. 27, 29; 1925, p. 28;
1926, p. 30; 1927, p. 14; 1928,
p. 25; 1929, p. 36.

Matanuska, B 8, p. 17; R 1918,
p. 83; 1919, p. 78; 1920, p. 50;
1921, pp. 2, 23; 1924, p. 16;
1925, pp. 17, 18; 1926, p. 26;
1927, pp. 2, 21; 1928, p. 24;
1929, p. 29.

Cattle—Continued.

sale of surplus, R 1905, p. 65; 1913,
pp. 22, 59; 1914, pp. 40, 67, 75;
1915, p. 79.

transfer—
from Kodiak to Kalsin Bay, R
1928, p. 26.

from Kodiak to Matanuska, R
1925, p. 18.

from Washington State to Kodiak,
B 5, p. 3.

to Washington State, B 5, p. 2;
B 8, p. 6; R 1912, p. 72.

tuberculous, of private owners, R 1919,
p. 9.

volcanic ash effects, B 5, p. 2; B 8,
pp. 6, 7; R 1912, pp. 38, 67, 68,
72; 1913, p. 49.

yak, B 8, p. 18; R 1922, p. 10; 1923,
p. 25; 1924, p. 24; 1925, p. 27;
1926, p. 11; 1927, pp. 4, 29; 1928,
p. 15; 1929, p. 19.

See also Yak.

Cauliflower—

cultural directions, B 2, p. 34; B 7,
p. 23; R 1912, p. 17.

culture—

Copper Center, R 1903, p. 350;
1904, p. 330; 1907, p. 51; 1911,
p. 66.

Fairbanks, R 1909, p. 51; 1911, p.
47; 1912, p. 55; 1914, p. 48;
1915, p. 51; 1916, p. 48; 1917,
p. 70; 1918, p. 68; 1920, p. 45;
1921, p. 29; 1928, p. 14.

Kenai, B 82, p. 32; R 1901, p.
263; 1902, p. 247; 1903, p. 356;
1904, p. 306.

Kodiak, B 82, p. 37; R 1914, p.
72; 1915, p. 76; 1916, p. 65.

Matanuska, C 1a, p. 27; R 1918,
p. 80; 1919, p. 77; 1921, p. 22;
1924, p. 16.

Rampart, R 1905, p. 60; 1907, p.
49; 1908, p. 42; 1909, p. 51;
1911, pp. 26, 45; 1912, p. 68;
1914, p. 38; 1916, p. 36; 1917,
p. 56; 1918, p. 50; 1919, p. 41;
1920, p. 34; 1921, p. 44.

Sitka, B 62, p. 13; R 1900, pp.
22, 23; 1902, p. 242; 1903, p.
325; 1904, p. 298; 1905, p. 37;
1906, p. 33; 1908, p. 31; 1909,
pp. 11, 40; 1910, p. 16; 1911,
p. 20; 1913, p. 8; 1914, p. 19;
1915, p. 33; 1917, p. 8; 1918,
p. 25; 1919, p. 21; 1920, p. 18;
1921, p. 9; 1924, p. 2; 1925,
p. 4; 1926, p. 5; 1927, p. 11;
1928, p. 6; 1929, p. 6.

diseases, R 1915, p. 39.

insect pests, R 1907, p. 24; 1915,
p. 42.

market value, R 1907, p. 15; 1914,
p. 81; 1916, p. 76.

notes on growth, B 48, p. 17.

storing, R 1919, p. 41.

variety tests, R 1911, p. 20; 1912,
p. 18.

Cayuse, domesticated, R 1901, p. 278.

Cedar—

culture, Kodiak, R 1902, p. 257.
growing regions, B 48, pp. 4, 6; C 1b,
p. 3.

uses, B 48, pp. 12, 15.

Celeriac—

culture—

Copper Center, R 1908, p. 52.
Sitka, R 1912, p. 21; 1914, p. 23;
1921, p. 8; 1924, p. 4; 1925,
p. 5; 1928, p. 6.

table preparation, R 1912, p. 22.

Celery—

cultural directions, B 2, p. 43; B 7,
pp. 29, 30; R 1901, p. 328; 1907,
pp. 14, 15; 1917, p. 10; 1918, p. 49;
1924, p. 2; 1925, p. 5.

Celery—Continued.

culture—

Fairbanks, R 1909, p. 51; 1912, p. 55; 1914, p. 51; 1928, p. 14.
Kenai, R 1902, p. 248; 1903, p. 356; 1904, p. 306; 1905, p. 64; 1906, p. 50.
Rampart, R 1906, p. 46; 1917, p. 57; 1919, p. 41; 1920, p. 34.
Sitka, R 1903, p. 325; 1904, p. 299; 1905, p. 37; 1910, p. 17; 1912, p. 21; 1914, p. 23; 1915, p. 36; 1918, p. 27; 1919, p. 23; 1920, p. 19; 1921, p. 8; 1926, p. 5; 1928, p. 6.

market value, R 1907, p. 14; 1909, p. 30; 1914, p. 81; 1916, p. 76.

notes, B 48, p. 17; R 1923, p. 14.

Cellars. *See* Root cellars.*Celosia cristata*. *See* Cockscomb.

Cement, cost in Alaska, B 82, p. 25; C 1a, p. 16.

Centaurea—

cyanus. *See* Bachelor's-button.

imperialis, R 1917, pp. 20, 21.

Central weather data, R 1906, pp. 73, 74; 1907, p. 94.

Centrifuge, use in butter making, R 1907, p. 66.

Ceratium—

alpinum, R 1908, p. 58.

tomentosum, R 1918, p. 32; 1919, p. 27; 1926, p. 10.

vulgatum, B 48, p. 20.

Cereals. *See* Grain and specific kinds.

Cesspool building, R 1919, p. 66.

Chamaecyparis nukienensis, B 48, p. 28.

Chandalar District. *See* Farming.

Charcoal mixture for chickens, R 1929, p. 32.

Chard. *See* Swiss chard.

Charges for packing and hauling in Alaska, R 1902, pp. 262, 263; 1903, pp. 337, 352; 1904, pp. 311, 313; 1906, p. 16; 1907, p. 20; 1908, p. 18; 1916, p. 16.

Chatanika River weather data, R 1909, p. 80.

Cheat culture, Wood Island, R 1904, p. 333.

See also *Bromus secalinus*.

Cheese—

importation, B 6, p. 20.

making apparatus, R 1907, p. 68.

making at Kenai, B 8, p. 4; R 1906, pp. 18, 19, 52; 1907, p. 71.

notes, B 82, p. 51.

Chelone glabra culture, Sitka, R 1910, p. 28.

Chena—

farming lands, R 1910, p. 68.

location, R 1905, p. 18.

See also Farming.

Chena River, R 1901, p. 295.

Chenopodium—

album, R 1928, p. 21.

ssp.—

in fields, B 9, p. 15; R 1924, p. 11; 1927, pp. 25, 27.

introduction, R 1907, p. 53.

table use, R 1907, p. 53.

See also Quinoa.

Chernofski Harbor weather data, R 1925, p. 34; 1929, p. 49.

Cherries—

Kenai, R 1902, p. 247; 1903, p. 355.

Matanuska, R 1929, p. 24.

Sitka, R 1903, p. 329; 1904, p. 293; 1905, p. 31; 1906, p. 27; 1907, pp. 22, 35; 1908, pp. 11,

25; 1909, p. 36; 1910, p. 22; 1911, p. 13; 1912, p. 24; 1913, p. 12; 1914, p. 16; 1915, pp. 11, 31; 1916, p. 6; 1917, p. 11;

1918, p. 28; 1919, p. 26; 1920, p. 16; 1921, pp. 13, 15; 1922, p. 12; 1923, p. 16; 1924, p. 7;

1926, p. 4; 1927, p. 8; 1928, p. 3; 1929, p. 4.

Cherries—Continued.

diseases, R 1914, p. 27; 1915, p. 41.

fruit failure causes, R 1915, p. 12.

seasonal growth and condition, R 1910, p. 22.

sour, R 1910, p. 22; 1913, p. 12; 1915, p. 11; 1927, p. 8.

sweet, R 1911, p. 13; 1914, p. 16; 1917, p. 11; 1927, p. 8.

wall-training, R 1910, p. 22; 1911, p. 13; 1921, p. 13; 1926, p. 4.

See also specific kinds.

Chervil culture—

Copper Center, R 1903, p. 352.

Sitka, R 1915, p. 37; 1926, p. 6.

Wood Island, R 1903, p. 365.

Chestochina River, R 1901, pp. 291, 305.

Chestochina station, R 1901, p. 292.

Chestochina weather data, R 1904, p. 360; 1905, p. 98; 1906, p. 73; 1907, p. 93.

See also Topography.

Chewing's fescue culture, Copper Center, R 1908, p. 55.

Chichagof Island, notes, B 48, p. 5.

Chickalok weather data, R 1910, p. 79; 1911, p. 80; 1918, p. 96; 1919, p. 82;

1920, p. 67; 1921, p. 51; 1922, p. 18; 1923, p. 30; 1924, p. 40; 1926, p. 49; 1927, p. 30; 1928, p. 33; 1929, p. 49.

Chicken. *See* Farming.

Chicken feed importation, value, R 1912, p. 27; 1923, p. 19.

Chickens—

feeding, R 1929, p. 32.

incubating, R 1903, p. 368.

market value, R 1912, p. 27.

raising—

Fairbanks, R 1911, p. 51; 1916, pp. 16, 51.

Kenai, R 1903, p. 355.

Kodiak, R 1902, p. 285.

Matanuska, R 1919, p. 78; 1929, p. 32.

Sitka, R 1912, p. 27.

Wood Island, R 1902, p. 261; 1903, p. 367; 1904, p. 335; 1906, p. 61.

Chickpea culture, Rampart, R 1917, p. 39.

Chickweed in fields, B 9, p. 15; R 1900, p. 40; 1910, p. 69.

Chicory culture, Sitka, R 1914, p. 24.

Chignik weather data, R 1927, p. 31; 1928, p. 33; 1929, p. 49.

Chilkoot Cannery. *See* Farming.

Chinese cabbage—

culture, Rampart, R 1919, pp. 12, 40;

1920, p. 33.

culture, Sitka, R 1918, p. 25; 1928, p. 6.

insect pests, R 1928, p. 6.

Chinese contract labor, B 48, p. 26.

Chinese wool flowers, culture, Rampart, R 1920, p. 36.

Chinlak Point. *See* Survey; Topography.

Chinook winds, notes, B 48, p. 31; R 1901, p. 310; 1928, p. 29.

Chirkoff Island, location, R 1912, p. 72.

Chisana Mining and Improvement Company, R 1902, p. 288.

See also Farming.

Chitina weather data, R 1917, p. 91; 1918, p. 96; 1919, p. 82; 1920, p. 68; 1921, p. 51; 1922, p. 18; 1923, p. 30.

See also Farming.

Chittyna. *See* Chitina.

Chives—

cultural directions, B 2, p. 38; B 7, p. 25.

culture, Sitka, R 1914, p. 22; 1919, p. 23; 1921, p. 10; 1928, p. 6.

Chowchow from locally-grown vegetables, R 1916, p. 77; 1918, p. 92.

Christiania (Norway), weather data, B 48, pp. 7, 8.

Chrysanthemum—

atrococcineum, R 1918, p. 33.

coronarium, R 1917, p. 26; 1918, p. 33.

Chrysanthemum—

culture—

Rampart, R 1917, p. 57; 1918, p. 52.
Sitka, R 1910, p. 29; 1915, p. 38;
1920, p. 20; 1926, p. 10; 1927, p. 12.

Chugach National Forest, area and location, C 1b, p. 8.

Churches in Alaska, C 1c, p. 21.

Churches, natives influenced by, B 62, p. 44; R 1901, p. 265.

Churning in creameries, R 1907, p. 70.

Churns, description, R 1906, p. 52; 1907, p. 65.

Chusana River, location, R 1901, p. 301.

Ciboule. See Siboule.

Cicer arietinum. See Chickpea.

Cicuta douglasii. See Parsnips, poisonous.

Cinerarias, culture—

Rampart, R 1919, p. 44.

Sitka, R 1915, p. 38; 1920, p. 18.

Cinna latifolia. See Wood reed grass.

Cinquefoil. See *Potentilla fruticosa*.

Circle—

location, B 48, p. 36; R 1900, p. 52; 1901, p. 273.

weather data, R 1907, p. 95; 1908, p. 78; 1909, p. 80; 1916, p. 81.

See also Farming; Survey; Topography.

Circumpolar observation work. See International Polar Expedition.

Clams and clamshells, fertilizing value, R 1902, p. 283; 1918, p. 92.

Clarkia—
elegans culture, Sitka, R 1915, p. 38; 1921, p. 14.

spp., R 1910, p. 29; 1919, p. 27; 1926, p. 10; 1927, p. 12.

Claytonia sibirica, B 48, p. 16.

Clearing lands in Alaska. See Land.

Cleary Creek, location, R 1905, p. 23.

Clematis spp., culture, Sitka, R 1924, p. 8.

Climate—

Afognak Island, B 2, p. 12; B 7, p. 5. Aleutian Islands, vicinity, R 1928, p. 27.

arctic belt, B 2, p. 12; B 6, p. 3; C 1b, p. 2; C 1c, p. 5.

coast region, B 2, p. 10; B 4, p. 1; B 6, p. 3; B 7, p. 2; B 48, pp. 6-10; B 62, pp. 43, 51; C 1b, p. 2; C 1c, p. 2; R 1906, p. 10; 1908, pp. 8, 9; 1909, p. 7.

Europe, northern, compared with Alaska, B 48, pp. 7, 8.

general, B 7, p. 2; B 48, p. 30; B 62, p. 50; R 1900, p. 69; 1925, p. 1.

Haines, B 4, p. 8.

Healy and Lignite, R 1928, p. 29.

interior, B 2, p. 12; B 4, p. 1; B 6, p. 4; B 7, p. 4; B 62, p. 51; C 1b, pp. 2, 3; C 1c, p. 3; R 1906, p. 10; 1908, p. 9; 1909, p. 7.

Kenai, B 7, p. 4; B 62, p. 41.

Kodiak Island, B 5, p. 1; B 7, p. 4; R 1915, p. 71; 1918, p. 84.

Matanuska, C 1a, p. 29; C 1c, p. 6; R 1917, p. 32.

mountains affect. See Mountains.

Rampart, R 1918, p. 10.

Russia and Alaska compared, B 48, p. 24.

Tanana Valley, B 9, p. 8; R 1905, p. 17; 1926, p. 1.

Climatic differences due to latitude, B 6, p. 10.

Clover—

alsike, R 1903, pp. 350, 360; 1904, p. 329; 1906, p. 38; 1908, p. 39; 1909, p. 56; 1911, p. 43; 1912, p. 52; 1921, p. 20; 1922, p. 6; 1927, p. 18; 1928, p. 11; 1929, p. 15.

alsike and red sown together, R 1901, p. 261.

crimson, R 1928, p. 9.

Norwegian, B 62, p. 12.

Clover—Continued.

red, B 48, p. 28; R 1901, p. 261; 1903, pp. 334, 360; 1904, p. 329; 1912, p. 52; 1913, p. 31; 1914, p. 31; 1915, p. 15, 50; 1917, pp. 29, 39, 66; 1918, p. 67; 1920, p. 44; 1922, p. 6; 1924, p. 23; 1928, p. 11; 1929, p. 15.

sweet, R 1913, pp. 40, 43; 1914, p. 57; 1922, p. 6; 1927, p. 19.

white, B 48, p. 28; R 1903, pp. 334,

360; 1904, pp. 301, 329; 1906, p. 47;

1908, p. 39; 1912, p. 52; 1913, pp. 43, 57; 1920, p. 24; 1928, p. 9; 1929, pp. 8, 15.

white, sweet, R 1920, p. 62; 1921, p. 20; 1928, p. 12; 1929, p. 15.

yellow, sweet, R 1920, p. 62.

Clovers—

and grass sown together, R 1908, p. 39; 1918, p. 63.

as cattle feed, R 1912, p. 32.

as hay and silage, R 1903, p. 360; 1917, pp. 29, 67; 1922, p. 6.

as hog feed, R 1918, p. 67.

as horse feed, R 1913, p. 43.

as soil renovator, B 6, p. 18; B 7, p. 19; R 1910, p. 38; 1912, p. 32.

1913, p. 36; 1914, p. 31; 1917, pp. 66, 67; 1918, p. 67; 1922, p. 6.

as soiling crop, R 1917, p. 39.

cultural directions, R 1901, p. 339.

culture—

Copper Center, R 1903, p. 350; 1904, p. 329; 1905, p. 51; 1906, p. 53; 1907, p. 58; 1908, p. 54.

Fairbanks, R 1908, p. 47; 1909, p. 56; 1910, p. 51; 1911, p. 51.

1912, p. 32, 52; 1913, p. 31; 1914, pp. 31, 47; 1915, p. 15, 50; 1916, pp. 45, 49; 1917, pp. 29, 66; 1918, pp. 13, 67; 1919, p. 52; 1920, p. 44; 1924, p. 23; 1929, p. 15.

Kenai, B 82, p. 31; R 1901, p. 261; 1902, p. 249; 1903, p. 360;

1904, p. 308; 1906, pp. 48, 49.

Kodiak, B 82, p. 36; R 1913, pp. 56, 57, 58; 1916, p. 63; 1917, p. 75; 1918, p. 86; 1920, p. 62.

Matanuska, R 1919, p. 72; 1920, p. 56; 1921, pp. 3, 20; 1924, p. 14; 1927, p. 18; 1929, p. 25.

Rampart, R 1901, p. 272; 1906, p. 47; 1908, p. 39; 1909, p. 48;

1910, p. 51; 1911, p. 43; 1913, pp. 40, 43; 1914, p. 57; 1917, p. 39; 1918, p. 37; 1920, p. 24; 1921, p. 36.

Sitka, B 62, p. 12; B 82, p. 19; R 1902, p. 241; 1903, p. 334;

1904, p. 301; 1928, p. 9.

Skagway, B 62, p. 17.

Wood Island, R 1903, p. 364.

fertilization, R 1904, p. 329; 1912, p. 52; 1913, pp. 50, 56, 57; 1921, p. 20.

for lawn purposes, R 1916, p. 45; 1917, p. 67.

growing regions, B 48, pp. 4, 6, 13, 31; B 82, p. 11; C 1b, p. 13.

in rotation, R 1920, p. 42; 1923, p. 13.

inoculating, R 1906, p. 51; 1917, p. 75.

on new and old ground, R 1902, p. 241.

on volcanic soil, R 1913, p. 57.

rabbits damage, R 1913, p. 32.

with and without nurse crop, R 1927, p. 18.

See also Lupinaster.

Clubroot of Crucifers, R 1914, p. 27; 1915, p. 39; 1917, p. 8; 1918, p. 25; 1919, p. 21; 1927, p. 10.

Coal—

and coal mining, B 82, pp. 41, 42; R

1901, p. 253, 275; 1902, p. 268;

1923, p. 19.

market value, C 1c, p. 27.

oil, as insecticide, R 1906, p. 57.

- Coal Harbor weather data, B 82, p. 54; C 1b, p. 2; R 1900, p. 81; 1902, p. 303; 1903, p. 387; 1904, p. 358; 1905, p. 97; 1906, p. 72; 1907, p. 92; 1909, p. 78; 1910, p. 79; 1911, p. 76; 1916, p. 81.
See also Farming.
- Coast region. *See Alaska.*
- Cobaea scandens* culture, Sitka, R 1917, p. 21; 1921, p. 14.
- Cockscomb culture, Sitka, R 1917, p. 20; 1919, p. 27; 1927, p. 12.
- Cod fishing industry, B 48, p. 32.
- Codling moth on apples, R 1928, p. 3.
- Coe, C. P., report on experiments on Wood Island, R 1902, p. 256; 1903, p. 362.
- Coffee market value, R 1903, p. 341.
- Cold wave—
 notes, R 1913, p. 15; 1922, p. 2.
 potatoes affected, R 1914, p. 49.
- Coldfoot—
 location, R 1905, p. 81; 1906, p. 34.
 weather data, R 1904, p. 360.
See also Farming.
- Coldframes, construction, B 2, pp. 22-24; B 7, p. 13.
- Collard culture, Sitka, R 1914, p. 19.
- Colletotrichum lindemuthianum* on beans, R 1915, p. 41.
- Collinsia* sp. culture—
 Copper Center, R 1904, p. 331.
 Sitka, R 1902, p. 243.
- Colonization work in Alaska. *See Alaska.*
- Coloring cheese, R 1907, p. 71.
- Columbine culture, Sitka, R 1907, p. 25; 1909, p. 39; 1910, p. 27; 1911, p. 22; 1912, p. 26; 1915, p. 37; 1917, p. 17; 1918, p. 32; 1920, p. 17; 1926, p. 10.
- Comarum palustre*, R 1908, p. 57.
- Comet. *See Farming.*
- Composite, B 48, p. 28; R 1900, p. 56.
- Concentrates as sheep feed, R 1921, p. 23.
- Congressional members, visit to Alaska, R 1923, p. 1; 1929, p. 3.
- Conifers, B 48, p. 28.
- Conifers, growing regions, B 48, p. 6.
- Convolvulus*—
 minor culture, Sitka, R 1919, p. 27.
 sp., B 62, p. 37.
- Cook Inlet—
 Coal Fields Company, R 1900, p. 31; 1901, p. 251.
 dairying suitability, R 1907, p. 73.
 forest growth, B 82, p. 12.
 farming suitability, B 82, pp. 41, 42.
See also Agricultural areas; Farming.
- Coot protection in Alaska, C 1b, p. 17.
- Copper carbonate, fungicidal value, B 6, p. 15; R 1925, p. 22; 1929, p. 11.
- Copper Center station—
 altitude, R 1902, p. 266.
 buildings and improvements, R 1902, p. 268; 1903, pp. 313, 339, 343; 1904, pp. 266, 310, 311, 312, 313; 1905, pp. 11, 39; 1906, pp. 15, 35.
 closing, R 1908, p. 18; 1909, p. 23.
 establishment, difficulties attending, R 1901, pp. 293, 294; 1902, pp. 234, 262-266; 1903, p. 336.
 land reservation and survey, R 1901, p. 293; 1902, pp. 263, 265, 266, 268; 1903, p. 340.
 location and boundary, R 1901, p. 294; 1902, pp. 265, 266.
 report by Rader and Neal. *See Report on Copper River station.*
- Copper Center—
 weather data, B 7, p. 4; C 1b, p. 3; R 1902, p. 307; 1903, pp. 344, 388; 1904, pp. 314, 355; 1905, pp. 40, 94; 1906, p. 69; 1907, pp. 49, 88; 1908, pp. 48, 73; 1909, p. 75; 1910, p. 80; 1911, p. 76; 1912, p. 90; 1913, p. 75; 1914, p. 91; 1916, p. 81.
See Report.
See also Farming.
- Copper resources, R 1902, p. 268.
- Copper River and Northwestern Railroad, C 1b, p. 16; C 1c, p. 26.
- Copper River Exploring Expedition, R 1901, pp. 305, 307-309.
- Copper River Valley—
 accessibility, C 1b, p. 10.
 agricultural development possibilities, R 1902, p. 270; 1907, p. 18.
 economic conditions, R 1903, p. 340.
 settlement, R 1901, p. 306.
See also Agricultural areas; Farming; Soils; Survey; Topography.
- Copper sulphate, fungicidal value, B 6, p. 15.
- Cordage making notes, B 48, p. 12.
- Cordova commercial dairying, R 1929, p. 45.
- Cordova weather data, B 7, p. 3; C 1b, p. 2; R 1909, p. 77; 1910, p. 80; 1911, p. 80; 1912, p. 91; 1913, p. 75; 1914, p. 91; 1916, p. 81; 1918, p. 96; 1919, p. 82; 1920, p. 68; 1921, p. 51; 1922, p. 18; 1923, p. 31; 1924, p. 41; 1925, p. 34; 1926, p. 33; 1927, p. 31; 1928, p. 33; 1929, p. 50.
- Coreopsis lanceolata*, R 1917, p. 20; 1921, p. 14.
- Coreopsis* sp. culture—
 Holy Cross, B 62, p. 37.
 Rampart, R 1916, p. 37.
- Sitka, R 1915, p. 38.
- Coriander culture, Sitka, R 1914, p. 24; 1926, p. 6; 1927, p. 12.
- Corn—
 as hog feed, R 1912, p. 56.
 culture—
 Copper Center, R 1905, p. 53.
 Fairbanks, R 1913, p. 34; 1915, p. 52; 1916, p. 48; 1917, p. 70; 1923, p. 14; 1925, p. 26; 1928, p. 14; 1929, p. 17.
- Matanuska, R 1918, p. 78; 1923, p. 14; 1925, p. 15; 1927, p. 20.
- Sitka, R 1900, p. 22; 1925, p. 8.
 Hot Springs, R 1908, p. 21.
- importation, B 6, p. 20.
- market value, R 1916, p. 48.
- meal—
 as fox feed, B 48, p. 32.
 market value, R 1903, p. 341; 1917, p. 89.
- mixture for sheep, R 1916, p. 61.
- notes on growth, B 7, p. 16; C 1b, p. 12.
- See also Broom corn.*
- Corn-wheat—
 culture—
 Kenai, R 1904, p. 304.
 Wood Island, R 1903, p. 362.
- fertilization, R 1904, p. 304.
- Cornaceae, B 48, p. 28.
- Cornflower aster. *See Stokesia cyanea.*
- Cornflowers, culture—
 Rampart, R 1905, p. 60; 1920, p. 35.
 Sitka, B 82, p. 22; R 1910, p. 29; 1914, p. 26; 1915, p. 38; 1917, p. 20; 1921, p. 14; 1927, p. 12.
- Wood Island, R 1903, p. 366.
- Cornsalad culture—
 Kenai, R 1903, p. 357; 1906, p. 50.
 Rampart, R 1917, p. 56.
 Sitka, R 1914, p. 23; 1915, p. 36.
- Cornus*—
canadensis. *See* Bunchberries.
sibirica. *See* Dogwood, Siberian.
succica. *See* Bunchberries.
- Corollorhiza corollorhiza*, R 1908, p. 58.
- Corona compounds, fungicidal value, R 1924, p. 19.
- Corrosive sublimate as insecticide and fungicide, B 7, p. 21; R 1915, p. 53; 1928, p. 14.
- Cosmos culture—
 Rampart, R 1916, p. 37; 1918, p. 53; 1920, p. 35.
- Sitka, R 1915, p. 38; 1917, p. 20.
- Cottela, location, R 1902, p. 268.
- Cotoneaster culture, Sitka, R 1909, p. 39; 1914, p. 25; 1917, p. 14; 1920, p. 16; 1921, p. 14.

- Cottages, station, R 1901, p. 249; 1902, p. 244; 1907, p. 42; 1908, p. 19; 1910, p. 54; 1917, p. 74; 1919, p. 61; 1920, p. 5.
- Cottonwood—**
as cattle feed, R 1912, p. 75.
growing regions, B 6, p. 28; B 48, p. 6;
C 1b, p. 5; R 1901, p. 289.
- Cottonwood Bay, R 1913, p. 69.
- Couch grass, growth in Alaska, R 1904, p. 283.
- Council City weather data, R 1907, p. 97.**
See also Farming.
- Cowberry. See Cranberries.**
- Cowpeas, culture—**
Fairbanks, R 1910, p. 75.
Sitka, R 1928, p. 9.
- Cows—**
afterbirth removal by hand, R 1907, p. 64.
care at calving time, R 1907, p. 63.
See also Cattle.
- Cowslip. See Primrose.**
- Cowslips, American. See Dodecatheon media.**
- Coyotes, menace to stock, R 1928, p. 31.
- Crab apples—**
culture—
Copper Center, R 1908, p. 56.
Rampart, R 1907, p. 49; 1908, p. 43.
Sitka, R 1906, p. 10; 1908, pp. 10, 24; 1909, p. 34; 1911, p. 12; 1913, p. 12; 1914, p. 15; 1917, p. 12; 1918, p. 28; 1926, p. 4.
Wood Island, R 1902, p. 262; 1903, p. 366.
diseases, B 48, p. 18; R 1915, p. 41.
native, R 1905, p. 8; 1906, p. 10; 1909, p. 8; 1914, p. 15.
- Crab tree, Bechtel's flowering, R 1915, p. 37.
- Crambe maritima. See Seakale.**
- Cranberries—**
culture—
Fairbanks, R 1917, p. 71; 1929, p. 11.
Sitka, R 1903, p. 330; 1904, p. 296; 1905, p. 32; 1906, pp. 14, 28; 1914, p. 15; 1915, pp. 10, 31; 1917, p. 13; 1918, p. 30; 1929, p. 5.
growing regions, B 2, p. 15; B 7, p. 6; B 62, p. 49; B 48, pp. 15, 31; C 1a, p. 28; R 1901, p. 284; 1902, p. 267; 1906, p. 14; 1910, p. 23.
- Cranberry—**
bog, B 48, p. 15.
catsup, R 1905, p. 72.
eastern, R 1914, p. 15; 1915, p. 31; 1918, p. 30.
high-bush, R 1905, p. 32; 1917, p. 15; 1921, p. 15.
native, B 82, p. 27; R 1903, pp. 321, 330; 1904, p. 296; 1906, p. 14; 1914, p. 15; 1915, p. 10.
Crane protection in Alaska, C 1b, p. 17.
- Cranesbill culture, Sitka, R 1910, p. 28; 1911, p. 22; 1915, p. 38; 1917, p. 18; 1918, p. 32.
- Crataegus—**
oxyacantha coccinea, R 1922, p. 13.
pinnatifida, R 1922, p. 13.
- Crates, for potato growing, R 1913, p. 33.
- Cream—**
care, R 1907, p. 70.
notes, R 1902, p. 261; 1927, p. 3.
separation process, R 1907, pp. 66, 67, 68.
- Creamery, Curry, C 1c, p. 12; R 1927, p. 8; 1928, p. 1; 1929, p. 2.
- Creeping bent grass—**
culture, Kodiak, R 1913, p. 57; 1916, p. 63.
fertilization, R 1913, p. 57.
- Crenolin solutions—**
for swine scab, R 1916, p. 49.
insecticidal value, R 1927, p. 10; 1928, p. 8.
- Cress—**
cultural directions, B 2, p. 32; B 7, p. 17; R 1917, p. 11.
- culture—**
Copper Center, R 1903, p. 352; 1904, p. 330; 1908, p. 52; 1911, p. 66.
Kenai, B 82, p. 32; R 1902, p. 248; 1903, p. 357.
Kodiak, B 82, p. 37.
Rampart, R 1908, p. 42.
Sitka, B 62, p. 13; R 1910, p. 17; 1914, p. 23.
Skagway, B 62, p. 16.
Wood Island, R 1903, p. 365.
- Crested dogtail grass culture, Matanuska, R 1919, p. 71.**
- Cribs for potato growing, R 1918, p. 48.**
- Crimson flax culture—**
Copper Center, R 1904, p. 331; 1905, p. 54.
Nome, R 1904, p. 344.
- Crocuses, growth in Alaska, C 2, p. 8; R 1910, p. 29; 1915, p. 37; 1927, pp. 12, 28.**
- Crooked Creek. See Farming.**
- Crop failures in Alaska, C 1b, p. 14.**
- Crops for Alaska, C 1b, p. 12.**
- Crowberries, B 2, p. 15; B 7, p. 6; B 48, p. 15; B 62, p. 49; B 82, p. 27; R 1904, p. 275.**
- Crows, menace to crops, R 1910, p. 27; 1918, p. 30.**
- Cruciferous plant diseases, B 48, p. 18; R 1915, p. 39.**
See also Clubroot.
- Cucumbers—**
cultural directions, B 2, p. 45; B 7, p. 31; R 1901, p. 338.
culture—
Copper Center, R 1905, p. 52.
Fairbanks, R 1910, p. 58; 1917, p. 70; 1928, p. 14.
Kenai, R 1903, p. 356.
Rampart, R 1906, p. 46; 1908, p. 41; 1917, p. 57; 1918, p. 49; 1920, p. 34.
Sitka, R 1909, p. 42; 1915, p. 37; 1917, p. 8; 1919, p. 29; 1921, p. 9.
market value, R 1907, p. 15; 1909, p. 30.
notes, B 82, p. 11.
use in northern Europe, R 1906, p. 61.
- "Cultipacking," notes, R 1928, p. 18.**
- Cultivation—**
primitive. *See Agriculture, primitive.*
sour soils affected, B 1, p. 15; B 2, p. 15; B 7, p. 5.
- Cup-and-saucer vine culture, Rampart, R 1917, p. 57; 1918, p. 54.**
- Cupressus nutkaensis, B 48, p. 6.**
See also Cedar.
- Cupuliferae, B 48, p. 28.**
- Curd knife, description, R 1907, p. 71.**
- Currant—**
alpine, R 1915, p. 30.
black, R 1905, p. 32; 1906, p. 14; 1908, p. 26; 1910, p. 24; 1911, p. 15; 1912, p. 25; 1918, p. 81; 1919, p. 76; 1924, p. 5; 1925, p. 7; 1927, p. 9.
black, Californian, B 48, p. 28; R 1906, p. 14; 1914, p. 13; 1918, p. 29; 1919, p. 25.
black, European, R 1915, p. 30.
black, swamp, B 48, p. 28; R 1914, p. 13.
black, wild, R 1915, p. 30.
cuttings, growth, R 1909, p. 37.
cuttings, storing, R 1911, p. 14.
jelly, medicinal value, R 1911, p. 15.
red, R 1905, pp. 32, 65; 1906, p. 13; 1908, p. 11; 1910, p. 23; 1915, p. 30; 1917, p. 71; 1919, pp. 60, 76; 1920, p. 45; 1924, p. 5; 1925, p. 7; 1927, p. 9.
red-flowering, R 1915, pp. 30, 37; 1917, p. 15; 1918, p. 31.

INDEX TO PUBLICATIONS

17

Currant—Continued.

white, R 1905, p. 32; 1908, p. 56; 1915, p. 30; 1919, p. 76; 1925, p. 17; 1927, p. 9.
wild, R 1911, p. 14.

Currants— culture—

Copper Center, R 1905, p. 54; 1908, p. 56.
Fairbanks, R 1917, p. 71; 1920, p. 45; 1929, p. 17.
Kenai, R 1902, p. 247; 1903, p. 355; 1905, p. 65; 1906, p. 50.
Kodiak, R 1916, p. 65; 1919, p. 60.
Matanuska, R 1918, p. 81; 1919, p. 76; 1920, p. 57; 1921, p. 22; 1924, p. 15; 1925, p. 17; 1926, p. 28; 1929, p. 24.
Rampart, R 1907, p. 49; 1908, p. 42; 1911, p. 44; 1925, p. 32.
Sitka, R 1901, p. 248; 1902, p. 242; 1903, p. 330; 1904, p. 295; 1905, p. 32; 1906, pp. 13, 28; 1907, pp. 22, 37; 1908, pp. 11, 26; 1909, p. 36; 1910, p. 23; 1911, p. 14; 1912, p. 24; 1914, p. 12; 1915, p. 30; 1917, pp. 12, 15; 1918, pp. 29, 31; 1919, p. 25; 1920, p. 14; 1921, p. 13; 1924, p. 5; 1925, p. 7; 1926, p. 3; 1927, p. 9; 1928, p. 4; 1929, p. 5.

description of plants, R 1906, p. 13.
diseases, B 48, p. 18; R 1914, pp. 12, 27; 1915, pp. 39, 40; 1916, p. 6; 1927, p. 9.

fertilization, R 1919, p. 60.
growing regions, B 4, p. 2; B 48, pp. 15, 31; B 62, pp. 39, 49; C 1a, p. 25; R 1902, pp. 257, 267; 1909, p. 9; 1923, p. 16.

hybridization, R 1915, p. 30; 1918, p. 29; 1919, p. 25.

propagation, R 1911, p. 14.
variety tests, R 1910, p. 24.

yields, R 1927, p. 9.

Curry. See Creamery.

Custom house, location, B 48, p. 4.

Cuttings, storing, R 1911, p. 14. Cutworms on crops, R 1927, p. 20; 1928, p. 21.

Cyclamen culture, Sitka, R 1915, p. 39; 1919, p. 29; 1921, p. 15.

Cypress, summer, culture— Fairbanks, R 1915, p. 52; 1916, p. 49; 1917, p. 70.

Rampart, R 1918, p. 53.

Cypripedium guttatum, R 1908, p. 58.

Cystopteris candidus on Cruciferae, B 48, p. 18.

Cutharea bulbosa, R 1908, p. 57. *Dactylis glomerata*. See Orchard grass.

Daffodils, growth in Alaska, C 2, p. 3; R 1915, p. 37; 1923, p. 17; 1925, p. 8.

Dahl weather data, R 1909, p. 82; 1910, p. 80; 1911, p. 80.

Dahlias, culture— Fairbanks, R 1915, p. 52.

Rampart, R 1916, p. 37; 1918, p. 54; 1919, p. 43.

Sitka, B 82, p. 22; R 1927, p. 13.

"Daily Alaskan" publication, R 1901, p. 316.

Dairy— building, description, R 1910, p. 60; 1911, p. 53.

industry—
Kenai, R 1906, pp. 18, 51; 1907, pp. 26, 62.

Kodiak, R 1911, p. 31; 1915, p. 80.

products—
importation, B 8, p. 4; R 1905, p. 23; 1914, p. 54.

See also specific kinds.

situation in Alaska. See Survey.

Dairy—Continued.

yields—

Anvik, R 1906, p. 65.
Copper Center, R 1905, p. 54.
crossbred cattle, B 8, p. 18; R 1924, pp. 30, 31; 1929, p. 29.
Fairbanks, R 1924, p. 25; 1928, p. 16.

Holy Cross, R 1907, p. 85.
Kenai, R 1902, p. 253; 1904, pp. 302, 310; 1905, p. 66.

Kodiak, R 1925, p. 29.

Matanuska, B 8, p. 17; R 1921, p. 23; 1924, p. 16; 1925, p. 17; 1926, p. 27; 1928, p. 24; 1929, p. 29.

Wood Island, R 1902, p. 261; 1903, p. 367; 1906, pp. 60, 61.

Dairying, commercial, R 1904, p. 279; 1910, p. 42; 1928, p. 1.

See also Survey, dairy situation.

Daisies culture—

Fairbanks, R 1914, p. 48; 1915, p. 52; 1916, p. 49; 1926, p. 19.

Rampart, R 1916, p. 37; 1917, p. 57; 1918, p. 53.

Sitka, R 1926, p. 10.

Daisy—

African orange. See *Dimorphotheca aurantiaca*.

English. See *Bellis perennis*.

Michaelmas, R 1917, p. 20.

painted. See *Pyrethrum roseum hybridum*.

Shasta, R 1914, p. 25; 1915, p. 37; 1917, p. 18; 1920, p. 17.

See also Chrysanthemum.

Swan River. See *Brachycome iberidifolia*.

Dalea alopecuroides, R 1924, p. 26.

Dandelions as pot herb, B 48, p. 16.

Danthonia semiannularis, R 1908, p. 55.

Datura sp., culture, Sitka, R 1919, p. 27.

Davison—

location, R 1900, pp. 47–50; 1901, p. 279.

weather data, R 1916, p. 81.

See also Farming; Survey; Topography.

Day, Arctic. See Arctic.

Day length—

crops affected, B 6, pp. 10, 40.

Fairbanks, R 1914, p. 43.

Matanuska, C 1c, p. 7.

Point Barrow, R 1902, p. 292.

Sitka, in December, R 1915, p. 38.

Tanana Valley, C 1c, p. 14.

Wrangell, B 62, p. 21.

Yukon territory, R 1900, p. 57; 1901, p. 282; 1903, p. 369.

De Candolle's notes on plants, R 1915, p. 19.

Deadwood. See Farming.

Deer—

habitats, B 48, p. 31.

introduction, B 82, pp. 38, 39; R 1901, p. 344.

plants destroyed, R 1927, p. 9; 1928, p. 3.

protection in Alaska, C 1b, p. 17.

See also Reindeer.

Deering weather data, R 1907, p. 98.

See also Farming.

Dehorning cattle, R 1925, p. 19.

Delphinium—

hybridum, R 1911, p. 22.

sp. See Larkspur.

Delwiche's sowing system, R 1929, p. 11.

Deschampsia—

atropurpurea, R 1904, p. 282.

bottnica—

feeding value, B 48, p. 13.

growing regions, R 1904, p. 281.

caspitosa—

culture, Copper Center, R 1908, p. 55.

feeding value, B 48, p. 14.

growing regions, B 48, pp. 6, 13;

R 1904, pp. 273, 275, 281.

Deschampsia—Continued.

- cespitosa coarctata*, B 48, p. 28.
calycina, growing regions, R 1904, p. 282.
curtijolia, growing regions, R 1904, p. 282.
elongata, R 1904, p. 282.
Deutzia culture, Sitka, R 1917, p. 14; 1924, p. 8.
Dewberry—
 culture, Matanuska, R 1929, p. 24.
 culture, Sitka, R 1918, p. 29.
 notes on growth in Alaska, B 48, p. 15; B 62, p. 49; R 1909, p. 10; 1911, p. 16.

Dianthus—

- barbatus*. See Sweet-william.
caryophyllus. See Carnations.
chinensis. See Pinks, Chinese.
heddwigiae, R 1918, p. 33.
nobilis, R 1914, p. 26.
semperflorens, R 1911, p. 22.
 spp., B 62, p. 37; R 1916, p. 37; 1917, p. 18; 1918, p. 53.

Dicentra spectabilis culture, Sitka, R 1910, p. 27; 1911, p. 22; 1917, p. 18; 1920, p. 17.

Dicotyla spectabilis. See *Dicentra spectabilis*.

Diervilla—

- florida rosea*, R 1922, p. 12.
hybrida, R 1922, p. 12.

rosea. See Weigela.

Dietary of Alaskan—

- laborers, C 1b, p. 11.

natives, B 48, p. 15, 16; R 1916, p. 72.

Digitalis—

- grandiflora*, R 1911, p. 22.
purpurea, R 1910, p. 28; 1915, p. 37; 1921, p. 14.

spp., R 1917, p. 18; 1920, p. 17; 1926, p. 10.

Dill—

culture—

- Sitka, R 1914, p. 24; 1926, p. 6; 1927, p. 12.

Wood Island, R 1903, p. 365.

notes, B 2, p. 46; B 7, p. 32.
 Dillingham weather data, C 1b, p. 2; R 1920, p. 68; 1922, p. 18; 1923, p. 31; 1924, p. 41; 1925, p. 34; 1926, p. 33; 1927, p. 31; 1929, p. 50.

Dimorphotheca—

- aurantiaca*, R 1914, p. 26; 1915, p. 38.
aurantiaca hybrida, R 1915, p. 38.

Diseases of man in Alaska, C 1b, p. 4.

Distribution—

- of nursery stock, R 1914, p. 16; 1915, pp. 12, 29; 1916, p. 7; 1917, p. 13; 1922, p. 11.

of seed grain, R 1915, p. 17.

Ditch making, R 1916, p. 25; 1919, p. 62.

See also Drainage; Drains.

Divisions, judicial, in Alaska. See Alaska.

Dodecatheon meadia culture, Sitka, R 1917, p. 18.

Dogs—

menace to—

- chickens, R 1912, p. 27.
 crops, R 1900, p. 39.
 goats, R 1905, p. 26.
 sheep, R 1917, p. 79; 1921, p. 46; 1924, p. 16.

use in game pursuit, C 1b, p. 18.

Dogwood—

Siberian, culture—

- Matanuska, R 1921, p. 22; 1927, p. 21.

Sitka, R 1915, p. 37; 1917, p. 14; 1918, p. 31; 1925, p. 7.

tree, flowering, R 1915, p. 37.

Dolichos sp. culture, Sitka, R 1914, p. 26.

Dolomii. See Farming.

Dome. See The Dome.

Dominion National Park, Banff, R 1920, p. 3.

Douglas, notes, R 1912, p. 81.

See also Farming.

Draba cana, R 1908, p. 58.

- Drainage, need of, B 1, pp. 8, 10; B 2, p. 19; B 6, p. 7; B 7, pp. 5, 7.
 Draining lands at Matanuska, C 1c, p. 9.
 Draining lands at Sitka, B 82, p. 26; R 1900, p. 15.

Drains, construction, B 1, p. 11; B 2, p. 19; B 7, p. 8; R 1901, p. 249.
 Draintiles, B 1, p. 11; B 2, p. 20; B 7, p. 8; R 1900, p. 16; 1925, p. 23.

Drills—

- advisability of using, B 6, p. 12; R 1902, p. 246; 1909, p. 16.
 disinfecting, B 6, p. 15.
 miscellaneous kinds, R 1917, pp. 36, 37.

Drought, animals and crops affected, B 9, pp. 12, 16; R 1915, p. 69.

Dry Creek, location, R 1907, p. 19.

Dryas—

- drummondii*, R 1908, p. 57.
integrifolia, R 1908, p. 58.

Ducks—

- habitats, B 48, p. 31; B 82, p. 46.
 incubating, R 1903, p. 368.
 protection in Alaska, C 1b, p. 17.
 raising on Wood Island, R 1902, p. 262; 1906, p. 61.

Dunbar commercial dairying, R 1929, p. 45.
 See also Farming; Grazing lands; Soils; Survey; Topography.

Dutch Harbor weather data, B 7, p. 3; C 1b, p. 2; R 1905, p. 97; 1906, p. 72; 1907, p. 92; 1908, p. 77; 1909, p. 79; 1910, p. 81; 1911, p. 81; 1912, p. 91; 1913, p. 76; 1914, p. 91; 1915, p. 95; 1916, pp. 81, 86; 1917, p. 91; 1918, p. 96; 1919, p. 82; 1920, p. 68; 1921, p. 52; 1922, p. 19; 1923, p. 31; 1924, p. 41; 1925, p. 35; 1926, p. 33; 1927, p. 31; 1929, p. 50.

See also Farming.

Dutch method of planting bulbs, C 2, p. 10.
 Dye from roses, R 1912, p. 26.

Dyea. See Farming.

Dynamite f r land clearing, R 1917, p. 89.
 Eagle, R 1900, pp. 49, 50; 1901, pp. 273, 283.

Eagle Harbor, R 1929, p. 43.

Eagle Mountain, R 1901, p. 273.

Eagle to Valdez topography. See Topography.

Eagle weather data, C 1b, p. 3; R 1900, p. 82; 1902, pp. 305, 306; 1910, p. 81; 1911, p. 81; 1912, p. 91; 1913, p. 76; 1914, p. 91; 1915, pp. 8, 95; 1916, pp. 81, 87; 1917, p. 92; 1918, p. 97; 1919, p. 83; 1920, p. 69; 1921, p. 52; 1922, p. 19; 1923, p. 31; 1924, p. 41; 1925, p. 35; 1926, p. 33; 1927, p. 32; 1928, p. 33; 1929, p. 50.

See also Farming; Survey.

Eagles, livestock menaced, R 1904, p. 277; 1917, p. 80.

Echinopanax horridum, B 48, p. 28.

Editorials on Alaska. See Alaska.

Eelworms on potatoes, B 48, p. 18.

Eggplants—

- culture, Rampart, R 1918, p. 50; 1920, p. 34.

notes, B 7, p. 16.

Eggs—

- importation, B 6, p. 20; R 1905, p. 23; 1923, p. 19.

laying records—

Matanuska, R 1929, p. 32.

Wood Island, R 1903, p. 368.

market value, R 1902, p. 285; 1907, p. 14; 1909, p. 28; 1911, p. 51;

1912, pp. 27, 48; 1916, p. 51.

Eggshells as chicken feed, R 1929, p. 32.

Eglantine culture—

Kenal, R 1905, p. 65; 1906, p. 50.

Sitka, R 1904, p. 297; 1905, p. 34;

1906, p. 30; 1907, pp. 25, 41; 1908,

p. 32; 1917, p. 13.

Elaeagnus argentea. See Silverberry bush.

Elder, golden-leaf. See Elderberries.

- Elderberries, culture, Sitka, R 1905, p. 34; 1906, p. 30; 1915, p. 37; 1918, pp. 30, 31.
- Electric lighting plants, station, R 1922, p. 15; 1924, p. 18; 1925, pp. 20, 28.
- Electricity, atmospheric, plants affected, R 1901, p. 282; 1902, p. 292.
- Elk, wintering at Kalsin Bay, R 1929, p. 36.
- Ellamar. *See* Farming.
- Elms, R 1902, p. 285; 1915, p. 37; 1917, p. 15; 1924, p. 7.
- Elymus*—
 borealis, growing regions, R 1904, p. 284.
 capitatus, R 1904, p. 283.
 ciliatus, B 48, p. 28.
 mollis. *See* Rye, beach.
- Emmer—
 culture—
 Copper Center, R 1902, p. 269; 1903, p. 348.
 Fairbanks, R 1908, p. 47; 1909, pp. 21, 53; 1910, p. 56.
 Kenai, R 1901, p. 261.
 Rampart, R 1907, p. 44; 1908, pp. 35, 38; 1909, pp. 14, 45, 48; 1910, p. 32.
 Sitka, R 1900, p. 21.
 Russian, R 1900, p. 21.
- Empetraeæ, B 48, p. 28.
- Empetrum nigrum*. *See* Crowberries.
- Endive—
 cultural directions, B 2, p. 39; B 7, p. 26.
 culture—
 Rampart, R 1917, p. 56.
 Sitka, R 1910, p. 17; 1914, p. 23; 1928, p. 7.
 Wood Island, R 1903, p. 365.
- Engine house construction, R 1917, p. 73.
- Entomological work in Alaska, needed, R 1904, p. 268.
- Epilobium*—
 angustifolium. *See* Fireweed.
 latifolium, R 1908, p. 57; 1915, p. 24.
 palustre, R 1908, p. 57.
- Equisetum*—
 arvense, R 1908, p. 57.
 hyemale, R 1916, p. 62.
 pratense. *See* Scouring rush.
 scirpoides, R 1908, p. 57.
 spp., eradicating, R 1926, p. 13; 1927, pp. 25, 27.
- Ericaceæ, B 48, p. 28.
- Erigeron*—
 caspitosus, R 1908, p. 57.
 multifidus, R 1908, p. 57.
- Eriophorum opacum*, R 1908, p. 57.
- Eriophorum* spp. *See* Niggerhead grass.
- Ermine. *See* Weasel.
- Ernestine Divide, R 1901, p. 295.
- Erysiphe graminis* on grasses, R 1915, p. 40.
- Eschscholtzia californica*. *See* Poppy, California.
- Eskimos—
 gardening by, R 1902, p. 272.
 living standard, B 48, p. 26.
- Esperette culture, Wood Island, R 1903, p. 364.
- Eureka Creek, R 1910, p. 67.
- Europe, northern, climate. *See* Climate.
- Evans, W. H., report on Alaska, B 48, pp. 4-27.
- Evans, W. H., report on botanical survey. *See* Report.
- Evaporation, soil moisture—
 prevention, R 1917, p. 16.
 process, R 1912, p. 29.
 See also Moisture.
- Everlastings, growth at Sitka, B 82, p. 22.
- Erythronium* sp., culture, Sitka, R 1917, p. 14.
- Euaescus cerasi* on cherries, R 1915, p. 41.
- Experiment stations—
 appropriations, B 48, pp. 3, 27; B 62, p. 2; B 82, pp. 5-7; R 1900, pp. 6-8; 1903, p. 316; 1906, p. 20.
 feasibility of establishing, B 48, p. 25.
 function, B 62, p. 4; B 82, p. 49; R 1919, p. 7; 1921, p. 1; 1924, p. 1; 1926, p. 1.
- Experiment stations—Continued.
 labor, B 82, p. 13; R 1900, pp. 31, 57, 71, 72; 1901, p. 267; 1902, p. 264; 1903, pp. 340, 343; 1904, pp. 302, 311, 314; 1909, pp. 18, 23; 1910, p. 35; 1911, p. 28; 1913, pp. 19, 38; 1917, pp. 31, 82.
 personnel changes, B 82, pp. 6, 13; R 1900, p. 71; 1902, pp. 254, 263; 1903, pp. 317, 318, 335, 354; 1904, p. 332; 1906, p. 15; 1907, pp. 7, 8, 13, 42; 1908, p. 15; 1913, p. 50; 1915, p. 26; 1917, pp. 6, 28, 32, 80; 1921, pp. 2, 3; 1922, p. 16; 1926, p. 30.
 regions for new, R 1921, p. 1.
 See also Soils and specific stations.
- Explosives for clearing land, B 6, p. 7; R 1917, p. 89.
- Exportation of animals, hides; regulations, C 1b, p. 18.
- Fairbanks—
 commercial dairying, R 1929, p. 45.
 location, settlement, R 1905, p. 18; 1924, p. 9.
 See also Day length; Farming; Frost-free period; Soils.
- Fairbanks station—
 buildings and improvements, R 1907, pp. 12, 13; 1908, pp. 15, 16, 43, 44; 1909, pp. 20, 22, 51; 1910, pp. 35, 40, 53, 54; 1911, pp. 28, 30, 45; 1912, pp. 33, 56; 1913, pp. 16, 27; 1914, pp. 28, 29, 51, 52; 1915, pp. 17, 43; 1917, p. 58; 1918, pp. 13, 54, 55; 1919, p. 46; 1920, p. 38; 1922, p. 13; 1923, p. 28; 1924, p. 18; 1925, p. 27; 1926, p. 11; 1927, p. 24.
 crops, volcanic eruption affects, R 1913, p. 25.
 establishment, R 1907, p. 12.
 function, R 1907, p. 13; 1909, p. 22; 1920, p. 8.
 land reservation and survey, R 1905, p. 15; 1907, p. 12; 1927, p. 25; 1928, p. 17.
 location, R 1905, p. 15; 1925, p. 21; 1926, p. 1.
 weather data, B 7, p. 4; C 1b, p. 3; R 1905, p. 99; 1906, pp. 74, 75; 1907, p. 96; 1908, p. 78; 1909, p. 80; 1910, pp. 10, 77; 1911, pp. 46, 78; 1912, pp. 29, 46, 91; 1913, pp. 24, 76; 1914, pp. 9, 43, 91; 1915, pp. 8, 43, 95; 1916, pp. 38, 81, 83; 1917, pp. 59, 92; 1918, pp. 55, 97; 1919, pp. 44, 83; 1920, pp. 36, 69; 1921, pp. 23, 52; 1922, p. 19; 1923, p. 32; 1924, pp. 18, 42; 1925, pp. 21, 35; 1926, p. 34; 1927, p. 24, 32; 1928, pp. 10, 34; 1929, p. 9, 51.
- Fair—
 exhibits, R 1923, p. 25; 1925, p. 27; 1928, p. 2; 1929, p. 3.
 Fairbanks, R 1915, p. 15.
 Tanana Valley. *See* Tanana Valley.
- Falkland Islands, R 1918, p. 87.
- Fall plowing. *See* Plowing.
- Fallowing, soil affected, B 6, p. 18; R 1913, pp. 39, 40; 1919, p. 12.
- False Pass weather data, R 1927, p. 32.
- Farm Island. *See* Farming.
- Farm management, R 1914, p. 52.
- Farmers—
 cooperative work among, R 1916, p. 66; 1917, pp. 33, 84; 1918, pp. 14, 18; 1919, p. 53; 1920, p. 47.
 needs in Alaska, R 1920, p. 48.
 number in Fairbanks and Matanuska, R 1929, p. 2.
 suggestions to pioneer, B 1.
- Farmers' Agricultural Association of Fairbanks, B 6, p. 20; C 1b, p. 14; R 1917, p. 85; 1920, pp. 9, 39; 1922, p. 2; 1923, p. 4.

Farming—

Afognak, R 1901, pp. 324, 325; 1902, p. 286; 1905, p. 87; 1906, p. 61; 1907, p. 77; 1908, p. 70; 1909, p. 67; 1913, p. 73; 1914, p. 83.
 Akiak, R 1916, p. 71.
 Akulurak, B 62, p. 34.
 Allakaket, R 1917, p. 86.
 Alsek River country, B 62, p. 26.
 Almaia, R 1917, p. 87.
 Anchorage, R 1915, p. 84; 1916, p. 71.
 Aniak, R 1916, p. 79; 1917, p. 87.
 Anvik, B 62, p. 37; R 1904, p. 346; 1905, p. 78; 1906, p. 65; 1909, p. 69; 1911, p. 73.
 areas, suitable, B 4, p. 1; B 6, p. 3.
See also Agricultural areas.
 Baker Creek station, R 1903, p. 381.
 Bear Lake, R 1906, p. 52.
 Bering Sea coast, possibilities, R 1900, p. 63.
 Bethel, R 1905, p. 86; 1907, p. 84; 1909, p. 69; 1910, p. 73; 1911, p. 72; 1912, p. 86; 1919, p. 79.
 Betties, R 1919, p. 78; 1921, p. 47.
 Camp Eighteen, R 1916, p. 80.
 Carmel, R 1900, p. 39; 1903, p. 376; 1905, p. 86.
 Chandalar District, R 1913, p. 73.
 Chena, R 1905, p. 78; 1906, p. 66; 1907, p. 79; 1914, p. 88.
 Chicken, R 1907, p. 78; 1917, p. 87.
 Chilkoot Cannery, R 1906, p. 58.
 Chisana, R 1902, p. 288; 1921, p. 47.
 Chitina, R 1910, p. 74.
 Circle, R 1903, p. 379; 1906, pp. 65, 66; 1912, p. 82; 1913, p. 71; 1919, p. 79.
 Coal Harbor, B 62, p. 32; R 1901, p. 329; 1903, p. 376; 1905, p. 76; 1906, p. 63; 1907, p. 77; 1908, p. 68.
 Coldfoot, R 1902, pp. 290, 291; 1904, p. 351; 1905, p. 81; 1906, p. 34; 1907, p. 86; 1909, p. 72; 1911, p. 74; 1918, p. 90.
 Comet, R 1907, p. 76; 1908, p. 70.
 Cook Inlet, B 62, pp. 28, 29, 31.
 Copper Center, R 1901, p. 293; 1902, p. 287; 1904, p. 350; 1905, p. 74; 1916, p. 70.
 Copper River Valley, R 1900, p. 33; 1907, p. 18.
 Council City, R 1903, p. 378; 1904, p. 345; 1905, p. 76; 1906, p. 64; 1907, p. 85; 1910, p. 75.
 Crooked Creek, R 1914, p. 85; 1915, p. 87.
 Dawson, R 1901, p. 275; 1902, p. 290; 1903, p. 378; 1907, p. 18.
 Deadwood, R 1910, p. 74; 1919, p. 79.
 Deering, R 1913, p. 65; 1914, p. 56.
 Dolomoi, R 1902, p. 277; 1920, p. 63.
 Douglas, R 1905, p. 70; 1906, p. 57.
 Dunbar, R 1929, p. 39.
 Dutch Harbor, R 1900, p. 65.
 Dyea, R 1901, pp. 310, 313, 320.
 Eagle, R 1901, pp. 265, 336; 1903, p. 379; 1904, p. 350; 1909, p. 70.
 Ellamar, R 1902, p. 282; 1913, p. 64; 1914, p. 85.
 Fairbanks and vicinity, R 1905, pp. 19, 83; 1907, pp. 14, 81, 82; 1908, pp. 68, 71; 1909, pp. 28, 31; 1910, p. 74; 1911, p. 74; 1912, p. 84; 1916, p. 72; 1917, p. 87.
 Farm Island, B 48, p. 33.
 Farragut Bay, R 1916, p. 80.
 Flat City, R 1913, p. 64; 1915, p. 88.
 Fort Egbert, R 1915, p. 88.
 Fort Selkirk, R 1903, p. 368.
 Fortman Hatchery, R 1905, p. 68; 1908, p. 65.
 Franklin, R 1917, p. 87; 1920, p. 64; 1921, p. 47.
 Frye ranch, R 1907, p. 60; 1908, p. 65.
 Gage Island, R 1902, p. 283.
 Game Cove, R 1905, p. 69.
 Golovin Bay, R 1903, p. 377.

Farming—Continued.

Gravina, R 1904, p. 336.
 Grindall, R 1902, p. 276.
 Haines, B 62, p. 23; R 1900, p. 36; 1902, p. 278; 1903, p. 372; 1905, p. 89; 1907, p. 75; 1910, pp. 69, 72; 1911, p. 69; 1912, pp. 81, 88; 1913, p. 62, 66, 68; 1914, p. 82; 1915, p. 84; 1916, p. 76; 1917, p. 87; 1918, p. 91.
 Halibut Cove, R 1902, p. 284.
 Hollis, R 1905, p. 90; 1909, p. 65.
 Holy Cross, B 62, pp. 35, 36; R 1900, pp. 41-44, 63; 1901, p. 265; 1902, p. 289; 1903, p. 381; 1904, p. 345; 1905, pp. 77, 85; 1907, pp. 17, 84; 1909, p. 70; 1913, p. 61; 1921, p. 47.
 Homer, R 1919, p. 80; 1921, p. 47.
 Hoodoo Bay, R 1913, p. 72.
 Hoona, B 62, p. 22; R 1900, p. 36; 1901, pp. 321, 322; 1902, p. 279; 1904, p. 339; 1905, p. 90; 1906, p. 58.
 Hope, B 82, p. 43; R 1900, p. 37; 1901, pp. 324, 331; 1902, p. 284; 1903, p. 375; 1906, p. 62; 1909, p. 67; 1915, p. 84; 1918, p. 91; 1920, p. 64.
 Howkan, R 1903, p. 371.
 Iditarod, R 1913, p. 64.
 Igloo, R 1912, p. 82.
 Ilamna, R 1910, p. 72; 1911, pp. 70, 71; 1912, pp. 85, 86; 1913, p. 68; 1914, p. 87.
 industry, B 62, p. 44; C 1b, p. 11; R 1900, p. 67; 1911, p. 50; 1919, p. 77.
 Jack Wade, R 1915, p. 87; 1916, p. 71.
 Jarvis City, R 1905, p. 76.
 Juneau, B 62, p. 22; R 1902, p. 278; 1903, p. 371; 1904, p. 337; 1909, p. 66; 1912, p. 81; 1913, pp. 65, 71; 1914, pp. 81, 82; 1917, p. 88; 1918, p. 91.
 Kachemak Bay, R 1920, p. 64.
 Kake, R 1916, p. 80; 1919, p. 80.
 Karluk, R 1902, p. 285.
 Kassan, R 1901, p. 319; 1902, p. 276; 1910, p. 72.
 Katalla, R 1913, pp. 63, 72; 1914, p. 84.
 Kayak, R 1905, p. 73.
 Kenai, B 62, p. 27; R 1901, pp. 253, 326; 1902, p. 284; 1903, p. 374; 1913, p. 64; 1916, p. 78.
 Kennecott, R 1910, p. 74.
 Ketchikan, R 1902, pp. 276, 277; 1905, pp. 67, 68, 90; 1912, p. 79; 1914, p. 79; 1918, p. 91.
 Kiana, R 1917, p. 88; 1918, p. 91; 1921, p. 47.
 Killisnoo, B 48, pp. 19, 21, 33; B 82, pp. 11, 46.
 Klukwan, R 1909, p. 66; 1911, p. 68; 1912, p. 87; 1913, p. 64.
 Knik, R 1901, pp. 227, 328; 1903, p. 375; 1905, p. 88; 1910, p. 73; 1911, p. 70; 1912, p. 87; 1913, pp. 62, 65; 1914, p. 86; 1917, p. 88; 1918, p. 92.
 Kodiak, B 62, p. 26; B 82, p. 38; R 1901, p. 324; 1902, p. 285; 1906, p. 60; 1914, p. 84.
 Kotzebue, B 82, p. 46; R 1901, p. 335; 1911, p. 75; 1915, p. 90; 1917, p. 88; 1918, p. 92.
 Kougarok, R 1911, p. 75.
 Krusof Island, R 1912, p. 79.
 Kuskokwim River Valley, B 82, p. 45; R 1900, p. 34; 1907, p. 84.
 Lake Bennett country, R 1912, p. 80.
 Little Naked Island, R 1903, p. 374; 1905, p. 73.
 Long, R 1920, p. 64.
 Long Lake country, R 1915, p. 86.
 Loring, R 1901, p. 319; 1902, p. 276; 1903, p. 370; 1906, p. 53; 1907, p. 74; 1910, p. 71; 1911, p. 69; 1914, p. 79; 1915, p. 82; 1920, p. 64; 1921, p. 48.

Farming—Continued.

- Lower Kenai Lake country, R 1905, p. 88.
 Magic Hot Springs, R 1904, p. 348; 1905, p. 83; 1908, p. 21; 1915, p. 88.
 Mary Island, R 1906, p. 54; 1907, p. 81; 1917, p. 88; 1918, p. 92.
 Matanuska, R 1915, p. 86; 1916, p. 79.
 McCarty, R 1909, p. 71; 1914, p. 88; 1915, p. 86; 1920, p. 65.
 Metlakatla, R 1903, p. 370; 1905, p. 67; 1912, p. 81.
 Mine Harbor, R 1904, p. 340.
 mixed, B 6, p. 19; R 1917, p. 32; 1919, p. 19; 1920, p. 10; 1921, p. 2; 1925, p. 9; 1926, p. 2.
 Montauk Point, R 1907, p. 78.
 Nolan, R 1916, pp. 71, 78; 1917, p. 88; 1918, p. 92; 1920, p. 65.
 Nome, R 1904, p. 343; 1907, p. 85; 1908, p. 68; 1919, p. 80; 1921, p. 48.
 northern Alaska, R 1902, p. 291.
 Nulato, R 1902, p. 288.
 Nushagak, B 62, p. 32; R 1900, p. 38; 1901, pp. 333-335; 1902, p. 287; 1906, p. 63.
 operations among settlers, R 1918, p. 83; 1919, p. 8.
 Ophir, R 1916, p. 72.
 Ougavig, R 1903, p. 376; 1904, p. 342.
 Pearl Island, B 62, p. 32; B 82, p. 43.
 Petersburg, R 1911, p. 69; 1912, pp. 80, 88; 1914, p. 79; 1915, p. 83; 1927, p. 5.
 Pilgrim Hot Springs, R 1911, p. 75.
 Point Hope, R 1902, p. 291; 1904, p. 351.
 Point Retreat, R 1906, p. 55; 1908, p. 70.
 Point Sherman, R 1906, p. 56; 1907, p. 75.
 Porcupine City, R 1901, p. 316; 1902, p. 278; 1903, p. 372; 1911, p. 68.
 Port Walter, R 1917, p. 89; 1918, p. 93.
 Prince of Wales Island, R 1912, p. 88.
 Purgatory, R 1919, p. 80.
 Pybus Bay, R 1920, p. 65.
 Quinhagak, R 1904, p. 342; 1906, p. 64; 1909, p. 69; 1914, p. 87; 1916, pp. 71, 78; 1921, p. 48.
 rain effect. See Rains.
 Rampart, R 1901, p. 272; 1902, pp. 289, 290; 1903, p. 380; 1904, pp. 347, 349; 1907, p. 79.
 Resurrection Creek, B 62, p. 31.
 Richardson, R 1910, p. 74.
 St. Lawrence Island, R 1908, p. 66.
 St. Michael, R 1906, p. 64.
 Sanak Island, R 1902, pp. 286, 287; 1909, p. 67.
 Sand Point, R 1901, p. 330.
 Sarah Chute, R 1915, p. 89.
 Seldovia, B 1920, p. 64.
 Seminovsky Island, R 1902, p. 286.
 Sentinel Island, R 1905, p. 69; 1906, p. 55; 1907, p. 76; 1908, p. 67; 1914, p. 81.
 Seward, R 1901, p. 320; 1905, pp. 74, 75; 1906, p. 59; 1908, p. 67; 1911, p. 70; 1912, p. 89; 1913, pp. 67, 69, 72; 1914, p. 83; 1917, p. 89.
 Shageluk, R 1914, p. 88; 1916, p. 70.
 Shelter Island, R 1908, p. 70; 1909, p. 66.
 Shungnak, R 1909, p. 71; 1912, p. 83; 1915, p. 90; 1916, pp. 72, 73; 1920, p. 66.
 Simeonofski Island, B 62, pp. 33, 34; R 1903, p. 376.
 Sitka, R 1901, p. 317.
 Skagway, B 62, pp. 15-17; R 1901, pp. 310-315; 1902, pp. 279-281; 1903, pp. 316, 372, 373; 1904, p. 338; 1905, p. 72; 1906, p. 58; 1912, p. 80; 1914, p. 82; 1916, p. 79.
 Solomon, R 1904, p. 345.
 southeastern Alaska, R 1902, p. 275.
 Squaw Harbor, R 1908, p. 69.

Farming—Continued.

- Steel Creek, R 1912, p. 82; 1913, p. 71.
 Stewart River Valley, R 1901, p. 276.
 Sulzer, R 1902, p. 278; 1910, p. 71; 1914, p. 80; 1916, p. 75.
 Sumdum, R 1900, p. 36; 1901, p. 319; 1906, p. 59.
 Sunrise, R 1901, p. 329; 1903, pp. 374, 375; 1904, p. 340; 1905, p. 75; 1907, p. 77.
 Susitna Valley, B 62, p. 29; R 1921, p. 48.
 Swanson Harbor, R 1918, p. 93.
 Tacotina, R 1915, p. 88.
 Tanana, R 1901, p. 325; 1905, p. 84; 1908, p. 68.
 Tanana Crossing, R 1905, p. 86; 1907, p. 83.
 Tanana Hot Springs Farm, R 1906, p. 66; 1907, p. 83.
 Tazlina, R 1906, p. 35; 1907, p. 19.
 Tenakee, R 1920, p. 66; 1921, p. 48.
 Togiak, R 1916, p. 69.
 Tolsona, R 1918, p. 93.
 Tonsino, R 1906, p. 35.
 Tree Point, R 1905, pp. 69, 90.
 Tuluksak, R 1913, p. 63.
 Twelve-Mile-Road-House, R 1905, p. 82.
 Tyonek, B 62, pp. 29, 30; B 82, p. 42; R 1901, p. 327; 1903, p. 375; 1912, p. 84.
 Unalakleet, B 62, p. 34; R 1902, p. 272; 1903, p. 377; 1915, p. 89; 1918, p. 93; 1919, p. 80.
 Unalaska, B 62, pp. 33, 34; B 82, p. 44; R 1900, p. 65; 1904, p. 341; 1905, pp. 76, 87; 1909, p. 68; 1911, p. 72.
 Unga Island, B 82, p. 44; R 1910, p. 73.
 Uyak Bay, R 1904, p. 340; 1914, p. 85.
 Valdez and vicinity, R 1902, p. 283; 1903, p. 373; 1904, p. 339; 1905, pp. 74, 89; 1909, p. 66; 1912, p. 84; 1913, p. 67; 1914, pp. 83, 84.
 Wasilla, R 1917, p. 89.
 western Alaska, B 62, p. 28.
 Wickersham, R 1905, p. 85.
 Willow Creek, R 1906, p. 35; 1907, p. 19.
 Windham, R 1911, p. 69.
 Wiseman, R 1917, p. 89.
 Woodchopper Creek, R 1913, p. 71; 1917, p. 89.
 Wood Island, B 62, p. 26; R 1901, p. 322; 1902, pp. 255-262; 1906, p. 60.
 Wrangell, B 62, pp. 20, 21; R 1901, p. 318; 1913, p. 65; 1917, p. 90; 1920, p. 66.
 Yakutat, B 62, pp. 24, 25; R 1901, p. 326; 1902, p. 282.
 Yukon Valley, R 1902, p. 288; 1911, p. 73.
 Farms, obtaining, C 1b, p. 6; C 1c, p. 21.
 Farragut Bay. See Farming.
Fedia sp. as pot herb, B 48, p. 16.
 Feed—
 importation, R 1911, p. 49; 1924, p. 28.
 production possibilities, B 1, p. 14; B 8, p. 2; B 82, pp. 41, 44; C 1b, p. 13; R 1900, pp. 34, 51; 1902, p. 287; 1904, p. 276; 1907, pp. 58, 84; 1908, p. 8; 1909, pp. 27, 63; 1911, p. 49; 1914, p. 75; 1916, p. 10; 1924, p. 27; 1928, p. 28.
 relation to animal industry, R 1923, p. 28.
 Fence, Indian method of constructing, R 1901, p. 287.
 Fences and fencing, R 1900, p. 39; 1905, p. 40; 1914, p. 67; 1919, pp. 47, 62, 66; 1920, pp. 38, 62; 1922, p. 13; 1923, p. 28; 1924, pp. 17, 18, 38; 1925, p. 20; 1926, pp. 11, 30.
 Fennel—
 Florence, growth, notes, R 1915, p. 37; 1928, p. 8.

Fennel—Continued.

sweet, B 7, p. 32; R 1915, p. 37; 1926, p. 6; 1927, p. 12.
Ferns, culture, Kodiak, R 1904, p. 274.
Ferns, culture, Sitka, R 1915, p. 38; 1919, p. 29; 1921, p. 15.

Ferry station, location, R 1928, p. 30.

Fertilizers for—

new ground, B 1, p. 14; B 82, p. 23; R 1900, pp. 24-29; 1901, p. 337; 1905, p. 40.
soil improvement, B 2, p. 21; B 7, pp. 6, 9, 10; R 1905, p. 13; 1909, p. 30; 1912, p. 37; 1916, pp. 51, 52.

volcanic soils, R 1915, p. 24.

Fescue, meadow. See *Festuca pratensis*.

Fescue, red—

Copper Center, R 1908, p. 54.
Kodiak, R 1913, p. 57.
Rampart, R 1911, p. 43; 1912, p. 59.

growing regions, B 48, p. 28; R 1904, pp. 271, 272, 273, 283.

Fescue, sheep, R 1913, p. 57; 1915, p. 24.

Fescue, Siberian. See *Festuca altaica*.

Fescue, tall, culture—

Copper Center, R 1903, p. 350; 1905, p. 50; 1906, p. 38; 1907, p. 58; 1908, p. 54.

Fairbanks, R 1910, p. 57.

Kenai, R 1902, p. 253; 1903, pp. 359, 361; 1904, pp. 308, 309; 1905, p. 62; 1906, p. 48.

Rampart, R 1906, p. 47; 1907, pp. 30, 47.

Sitka, R 1902, p. 241; 1903, p. 335; 1904, p. 301.

Wood Island, R 1902, p. 258.

Festuca—

altaica, growing regions, B 48, p. 28; R 1904, pp. 273, 274, 283; 1929, p. 46.

elatior. See Fescue, tall.

pratensis, R 1908, p. 54.

ovina brachyphylla, R 1904, p. 283.

pratensis, culture—

Copper Center, R 1902, p. 269; 1904, p. 329; 1908, p. 54.

Fairbanks, R 1909, p. 56.

Kenai, R 1904, p. 308; 1905, p. 62.

Kodiak, R 1913, p. 57; 1916, p. 63.

Matanuska, R 1919, p. 71; 1920, p. 55.

Rampart, R 1906, p. 47; 1907, p. 47; 1908, p. 39.

rubra. See Fescue, red.

rubra baicalensis, B 48, p. 28.

rubra barbata, B 48, p. 28.

rubra violacea, B 48, p. 28.

subulata, B 48, p. 28.

Fetticus. See Cornsalad.

Feverfew. See *Matricaria eximia*.

Field-house construction, R 1921, p. 9.

Finland—

agriculture, R 1900, pp. 8, 68; 1901, p. 277.

latitude; population, R 1902, p. 293.

weather data, B 48, pp. 7, 8.

Finnish colony site in Alaska, R 1902, p. 293; 1904, p. 273.

Fire—

at Sitka station, R 1927, p. 6.

danger at stations, R 1922, p. 16.

Fireweed—

as "greens," R 1920, p. 65.

as honey-producing plant, R 1927, p. 23.

as sheep feed, R 1904, pp. 274, 285.

fertilizing value, R 1920, p. 65.

on volcanic soils, R 1915, pp. 24, 78;

1916, p. 62; 1921, p. 45.

silage, R 1917, p. 76.

Fish—

and fish scrap as fertilizer, B 2, p. 21; B 7, pp. 9, 23; R 1903, p. 370; 1916, p. 69.

as fox feed, B 48, p. 32.

as hog and poultry feed, B 48, p. 21.

Fish—Continued.

guano—

as fertilizer, B 1, p. 15; B 2, pp. 15, 21; B 7, pp. 9, 23; R 1900, p. 24; 1914, p. 70.

manufacture, R 1900, p. 25.

saltery, location, R 1929, p. 43.

Fisheries, C 1a, p. 26.

Fishing—

Indian method, R 1901, p. 293.

industry, B 48, p. 32; C 1b, p. 11; C 1c, p. 25; R 1900, p. 41; 1901, p. 281.

Flat City. See Farming.

"Flats." See Tide flats; Yukon flats.

Flax—

culture—

Copper Center, R 1903, p. 349; 1908, p. 54.

Fairbanks, R 1929, pp. 11, 13.

Kenai, B 82, p. 31; R 1901, pp. 254, 261; 1902, p. 251.

Kodiak, B 82, p. 36.

Rampart, R 1915, p. 66; 1917, p. 54; 1918, p. 47; 1920, p. 31; 1921, p. 42.

Sitka, B 48, p. 18; B 62, p. 12; B 82, pp. 13, 19; R 1901, p. 246; 1902, p. 240; 1903, p. 333.

Skagway, B 62, p. 17.

Wood Island, R 1903, p. 362.

production in Finland. See Finland agriculture.

straw, testing, B 62, p. 12.

Flea beetles on crops, R 1901, p. 272.

Flora—

arborescent, B 48, p. 6.

plena. See Sneezewort.

Flour—

barley meal, R 1910, p. 30.

browned, for cattle, R 1908, p. 64.

importation, B 6, p. 20; R 1923, p. 19.

making in Alaska, R 1918, p. 8; 1919, pp. 13, 54; 1920, p. 39.

market value, C 1b, p. 12; C 1c, p. 23; R 1903, p. 340; 1917, p. 89; 1919, p. 54.

mill at Fairbanks, B 6, p. 20; R 1919, p. 13; 1920, p. 9; 1921, p. 32.

Flowers—

cultural directions, R 1917, pp. 16, 21.

culture—

Copper Center, R 1904, p. 331; 1905, p. 54.

Fairbanks, R 1907, p. 15; 1912, p. 56; 1914, p. 48; 1915, p. 51; 1916, p. 49; 1917, p. 70; 1921, p. 31; 1926, p. 19; 1927, p. 28; 1929, p. 18.

Kenai, R 1905, p. 65.

Matanuska, R 1920, p. 58; 1924, p. 16; 1926, p. 28.

Rampart, R 1905, p. 60; 1908, p. 43; 1916, p. 37; 1917, p. 57; 1918, p. 52; 1919, p. 43; 1920, p. 35; 1921, p. 44.

Sitka, R 1902, p. 243; 1903, p. 330; 1904, p. 296; 1905, p. 34; 1907, p. 41; 1908, p. 32; 1909, p. 39; 1910, p. 26; 1911, p. 21; 1912, p. 26; 1914, p. 25; 1915, p. 37; 1916, p. 9; 1917, p. 14; 1918, pp. 24, 30; 1919, p. 26; 1920, p. 16; 1921, p. 14; 1922, p. 12; 1924, p. 7; 1925, p. 7; 1926, p. 8; 1927, p. 12; 1928, p. 9; 1929, p. 7.

Valdez, R 1909, p. 67.

Wood Island, R 1903, p. 366; 1904, p. 335.

Fog in coast region, B 48, p. 6.

Food—

cost in Alaska, C 1b, p. 12.

of natives. See Dietary.

production in Alaska, R 1918, p. 8.

transportation costs, R 1903, p. 340.

Foot rot of sheep, R 1904, p. 278; 1928, p. 27.

- Forage crop culture—**
 Copper Center, R 1904, p. 328.
 Fairbanks, R 1911, p. 49; 1912, p. 32;
 1928, p. 11; 1929, p. 14.
 Kenai, R 1902, p. 249; 1904, p. 307.
 Kodiak, R 1916, p. 64; 1917, p. 74;
 1919, p. 58; 1920, pp. 11, 62.
 Rampart, R 1908, p. 39.
 Sitka, B 82, p. 19; R 1903, pp. 331,
 334.
- Forage crops—**
 coast region, R 1904, p. 280.
 feeding value, R 1904, p. 276; 1928, pp.
 18, 19.
 silage, B 8, p. 2.
- Forest—**
 fires in Yukon Valley, R 1921, p. 34.
 growth conditions, R 1915, p. 56.
- Forests—**
 of the interior, R 1905, p. 23.
See also National forests.
- Forget-me-nots, culture—**
 Rampart, R 1918, p. 53.
 Sitka, B 82, p. 22; R 1910, p. 27;
 1911, p. 23; 1915, p. 38; 1917, p.
 19; 1926, p. 10.
- Formaldehyde.** *See* Formalin.
- Formalin for—**
 grain diseases, B 6, p. 16; R 1924, pp.
 18, 19, 20; 1925, p. 22; 1926, p. 12;
 1929, p. 12.
 potato diseases, R 1915, pp. 40, 68;
 1916, p. 48; 1917, p. 68; 1919, p.
 73; 1924, pp. 5, 23; 1925, pp. 3, 16;
 1926, p. 7.
- Forsythia—**
intermedia, R 1922, p. 12.
 spp. *See* Golden bell.
- suspensa**, R 1922, p. 12.
- Fort Cudahy**, location, settlement, B 48,
 p. 36; B 62, p. 38.
- Fort Egbert—**
 location, settlement, R 1900, p. 50;
 1901, p. 273.
 weather data, R 1903, p. 388; 1904, p.
 359; 1905, p. 99; 1906, p. 75; 1907,
 p. 95; 1908, p. 77; 1909, p. 79.
See also Farming.
- Fort Gibbon—**
 location, settlement, R 1900, pp. 60,
 61; 1901, p. 274; 1905, p. 18.
 weather data, R 1903, p. 388; 1904,
 p. 359; 1905, p. 100; 1906, p. 75;
 1907, p. 96; 1908, p. 79; 1909, p. 81.
- Fort Liscum** weather data, R 1902, p. 300;
 1903, p. 386; 1904, p. 357; 1905, p. 96;
 1906, p. 71; 1907, p. 91; 1908, p. 75;
 1909, p. 77; 1910, p. 81; 1911, p. 81;
 1912, p. 92; 1913, p. 76; 1914, p. 92;
 1915, p. 8, 95; 1916, p. 82.
- Fort Reliance** weather data, B 62, p. 51.
- Fort Selkirk**, location, settlement, B 62,
 p. 38; R 1900, p. 47.
See also Farming.
- Fort Yukon—**
 location, settlement, R 1900, p. 54;
 1901, p. 274.
 survey of land. *See* Survey.
 temperature, R 1900, pp. 56, 57.
 weather data, R 1929, p. 51.
See also Farming, Yukon.
- Fort Wrangell.** *See* Wrangell.
- Fortmann Hatchery—**
 weather data, R 1906, p. 70; 1907,
 p. 89; 1908, p. 73; 1909, p. 75;
 1910, p. 81; 1911, p. 81; 1912, p. 92;
 1913, p. 77; 1914, p. 92; 1915, pp.
 8, 96; 1916, pp. 82, 87; 1917, p. 92;
 1918, p. 97; 1919, p. 83; 1920,
 p. 69; 1921, p. 52; 1922, p. 19;
 1923, p. 32; 1924, p. 42; 1925, p. 35;
 1926, p. 34.
- See also* Farming.
- Fortymile country—**
 location, settlement, R 1901, pp. 285,
 298.
See also Agricultural areas; Survey;
 Topography.
- Fountain grasses.** *See* *Pennisetum japonicum*.
- Four-o'clock culture—**
 Rampart, R 1920, p. 36.
 Sitka, R 1915, p. 38.
- Fox—**
 protection in Alaska, C 1b, p. 18.
 raising industry, B 48, p. 32; B 82,
 p. 43; R 1929, p. 40.
- Foxglove.** *See* *Digitalis grandiflora*.
- Foxtail—**
 meadow, culture—
 Copper Center, R 1902, p. 269;
 1903, p. 349; 1904, p. 329;
 1905, p. 51; 1908, p. 54.
 Fairbanks, R 1909, p. 57; 1910,
 p. 57.
 Kenai, R 1902, p. 252; 1903, pp.
 359, 360; 1904, pp. 307, 308;
 1905, p. 62; 1906, p. 48.
 Rampart, R 1906, p. 47; 1907, pp.
 30, 47; 1908, p. 39.
 Sitka, R 1902, p. 241; 1903, p.
 335; 1904, p. 300.
 Wood Island, R 1902, p. 258.
 mountain growing regions, R 1904, pp.
 273, 280.
 water, R 1904, 281.
- Fragaria—**
chiloensis. *See* Strawberry, wild, coast
 region.
platypetala. *See* Strawberry, wild, in-
 terior.
- Franklin.** *See* Farming.
- Franklin Gulch.** *See* Topography.
- Fraxinus americana**, R 1922, p. 13.
- Freezing**, plants affected, B 4, p. 12; C 2,
 p. 10; R 1913, p. 8.
- Freight rates** in Alaska, B 6, p. 20; B 48,
 p. 22; C 1b, p. 9; R 1916, p. 17; 1920,
 p. 48.
See also Charges.
- Fritillaria kamtschatcensis.** *See* Rice, wild.
- Frigid Zone soil.** *See* Soils.
- Frost—**
 ground, depth found, R 1916, p. 24.
 occurrence, R 1901, p. 265.
 planting to escape, B 6, pp. 8, 9.
 potatoes affected, B 9, pp. 11, 16.
- Frost-free period—**
 Anchorage, Juneau, Nenana, Nome,
 Seward, Sitka, B 6, p. 4.
 end determination, B 6, p. 40.
 Fairbanks, B 6, p. 4; R 1917, p. 61;
 1921, pp. 3, 24; 1923, p. 3; 1924,
 p. 18; 1925, p. 21; 1926, p. 11; 1927,
 p. 24; 1928, p. 10; 1929, p. 9.
 Matanuska, B 6, p. 10; C 1c, p. 7;
 R 1918, pp. 17, 72; 1919, pp. 18,
 68; 1920, p. 10; 1923, p. 3; 1924,
 p. 9; 1925, p. 9; 1926, p. 19.
 Rampart, B 6, p. 4; R 1917, p. 35;
 1918, pp. 10, 34; 1919, p. 30; 1920,
 p. 21; 1921, p. 33; 1925, p. 30.
 Sitka, R 1929, p. 4.
 Tanana Valley, B 6, p. 4; R 1925,
 p. 10.
- Fruit—**
 dried, market value, R 1903, p. 341.
 importation, R 1905, p. 23.
- Frye ranch.** *See* Farming.
- Fuchsias, culture**, Sitka, B 82, p. 22; R
 1920, p. 18.
- Fulmars**, protection in Alaska, C 1b, p. 17.
- Fur—**
 industry, B 48, pp. 12, 25; R 1902,
 p. 273.
 laws and regulations, C 1b, p. 17.
- Furze culture—**
 Kenai, R 1902, p. 253; 1903, p. 360.
 Sitka, R 1902, p. 240.
 Wood Island, R 1902, p. 258.
- Fusarium oxysporum** on potatoes, R 1915,
 p. 40.
- Gage Island.** *See* Farming.
- Gaillardia—**
grandiflora, R 1917, p. 20.
 spp., culture, Rampart, R 1918, p. 53.

- Gaillardia*—Continued.
 spp., culture, Sitka, B 82, p. 22; R 1915, p. 38; 1918, p. 33.
- Gakona*—
 location, R 1906, p. 36; 1907, p. 18.
 River crossing dangers, R 1901, pp. 292, 305.
- Gallium boreale*, R 1908, p. 57.
- Gallinule* protection in Alaska, C 1b, p. 17.
- Game Cove*. See Farming.
- Game*—
 habitats, R 1900, p. 34.
 importation, B 6, p. 20.
 laws and regulations, C 1b, p. 17.
 wanton slaughter, R 1901, p. 345.
- Gangplow* description, R 1914, pp. 40, 69; 1917, p. 59.
- Garden* survey of southeastern Alaska. See Survey, garden.
- Gardening by Eskimos. See Eskimos.
- Gardening in Alaska, cultural directions, B 2; B 7.
- Gardening, rain effect. See Rains.
- Gardens*—
 Douglas, R 1912, p. 81.
 interior, R 1901, p. 265; 1902, p. 268.
 Ketchikan, R 1912, p. 79.
 Metlakatla, R 1912, p. 81.
 Petersburg, R 1912, p. 80.
 Porcupine, R 1901, p. 316.
 Rampart, R 1918, p. 47.
 Weare, R 1900, p. 61.
 See also Indians.
- Garlic*—
 cultural directions, B 2, p. 38; B 7, p. 25.
 culture, Copper Center, R 1903, p. 351.
- Gasoline market value, C 1b, p. 12; C 1c, p. 23.
- Gaultheria shallon*. See Salal berries.
- Geese*—
 habitats, B 48, p. 31; B 82, p. 46.
 protection, C 1b, p. 17.
- Gentiana acuta*, R 1908, p. 57.
- Geranium* culture—
 Rampart, R 1918, p. 54; 1920, p. 36.
 Sitka, R 1915, p. 38; 1920, p. 18.
- Geranium erianthum*, R 1908, p. 58.
sanguineum. See Cranesbill.
- Geum coccineum* culture, Sitka, R 1919, p. 29.
- Gibberella saubinetii* on wheat, R 1924, p. 21.
- Gillyflower culture, Rampart, R 1905, p. 60.
- Glacial action and moraine, B 6, p. 5; B 7, p. 5; B 62, p. 48; C 1b, p. 6; R 1904, p. 271.
- Gladoliolus* culture—
 Rampart, R 1921, p. 44.
 Sitka, C 2, p. 7; R 1923, p. 17; 1924, p. 8; 1925, p. 8; 1926, p. 8.
- Glenn, E. F., report on Alaska, B 82, p. 41.
- Gloxinias* culture—
 Rampart, R 1919, p. 44.
 Sitka, R 1919, p. 29; 1921, p. 15.
- Glyceria*—
angustata, R 48, p. 28.
brevifolia, B 48, p. 28.
maritima, B 48, p. 28.
- Gnaphalium* sp., B 82, p. 22.
- Goat*—
 protection in Alaska, C 1b, p. 17.
 raising—
 Copper Center, R 1905, p. 26.
 Fairbanks, R 1920, pp. 2, 46; 1921, p. 32; 1922, p. 9; 1924, p. 24.
 Matanuska, R 1924, p. 16.
 Ukarak Island, B 82, p. 40.
 Wood Island, R 1903, p. 367; 1904, p. 278; 1906, p. 61.
- Goatsbeard. See *Spiraea aruncus*.
- Godetia* sp., culture—
 Rampart, R 1917, p. 57; 1918, p. 53; 1919, p. 43.
 Sitka, R 1917, p. 20; 1921, p. 14; 1926, p. 10.
- Gold and silver bells. See *Matricaria eximia*.
- Gold bearing regions, B 82, p. 42; R 1900, pp. 51, 52, 69; 1901, pp. 285, 308, 316; 1902, p. 268; 1905, pp. 15, 17; 1910, p. 67; 1923, p. 19.
- Gold camp at Dawson. See Dawson, location.
- Gold Creek, R 1901, p. 286.
- "Gold rush" to Alaska, B 9, p. 1.
- Golddust flower. See *Alyssum saxatile compactum*.
- Golden bell culture, Sitka, R 1917, p. 14; 1921, p. 15.
- Golden elder. See *Sambucus* sp.
- Goldenfeather culture, Sitka, B 82, p. 22; R 1917, p. 20; 1921, p. 14.
- Goldenglow. See *Rudbeckia laciniata*.
- Golovin. See Farming.
- Good News Bay weather data, R 1919, p. 84.
- Gooseberries*—
 culture—
 Copper Center, R 1906, p. 38; 1908, p. 56.
 Fairbanks, R 1929, p. 17.
- Kenai, R 1902, p. 247; 1903, p. 355; 1905, p. 65.
- Kodiak, R 1916, p. 65; 1919, p. 60.
- Matanuska, R 1918, p. 81; 1919, p. 76; 1920, p. 57; 1921, p. 22; 1924, p. 15; 1925, p. 17; 1926, p. 28; 1927, p. 21; 1929, p. 24.
- Rampart, R 1911, p. 44.
- Sitka, R 1901, p. 248; 1902, p. 242; 1904, p. 296; 1905, p. 33; 1906, p. 29; 1907, pp. 22, 36; 1908, pp. 12, 27; 1909, pp. 9, 38; 1910, p. 24; 1911, p. 13; 1912, p. 25; 1914, p. 13; 1915, pp. 10, 30; 1916, p. 6; 1917, p. 12; 1918, p. 28; 1919, p. 26; 1920, p. 15; 1921, p. 13; 1924, p. 5; 1925, p. 7; 1926, p. 3; 1927, p. 9; 1928, p. 4; 1929, p. 5.
- diseases, R 1914, p. 27; 1915, pp. 40, 41.
- propagation, R 1911, pp. 13, 14; R 1912, p. 25.
- Gore tares*. See *Vicia sativa*.
- Gourd* culture, Shungnak, R 1920, p. 66.
- Government railways, C 1b, p. 9; R 1916, p. 69; 1919, pp. 18, 78; 1920, p. 48; 1922, p. 1; 1927, p. 1.
- Grain—
 and grain products, importation, B 6, pp. 20, 40; R 1905, p. 23; 1914, p. 54.
- as cattle feed, R 1908, p. 62.
- as hog feed, R 1909, p. 29.
- as sheep feed, R 1914, p. 78.
- bins, installation, R 1929, p. 33.
- breeding house, need of, R 1913, p. 18.
- comparative growth and yields, R 1916, p. 44.
- crop failures in Alaska, C 1b, p. 14; R 1922, p. 2.
- cropping continuously, R 1920, p. 42.
- cultural directions, B 6, p. 11; B 82, p. 50; R 1901, p. 339; 1909, p. 16; 1910, p. 37.
- culture—
 Copper Center, R 1901, p. 293; 1903, p. 335; 1904, pp. 267, 312; 1905, pp. 11, 41; 1906, pp. 15, 39; 1907, pp. 26, 28, 54; 1908, pp. 17, 48.
- Fairbanks, R 1908, pp. 15, 45; 1909, pp. 21, 52; 1910, pp. 36, 54; 1911, pp. 28, 51; 1912, pp. 30, 50; 1913, pp. 13, 27; 1914, pp. 30, 44; 1915, pp. 13, 44; 1916, pp. 15, 40; 1917, pp. 28, 58, 61; 1918, pp. 58, 61; 1919, pp. 13, 47; 1920, p. 38; 1921, p. 24; 1923, p. 4; 1924, p. 18; 1926, p. 13; 1927, p. 25; 1928, p. 12; 1929, p. 11.

INDEX TO PUBLICATIONS

25

Grain—Continued.

culture—continued.

- Kenai, B 82, p. 30; R 1900, p. 33; 1901, p. 254; 1903, pp. 313, 353; 1904, pp. 267, 301; 1905, pp. 14, 61.
- Kodiak, B 82, p. 36; R 1914, pp. 66, 69; 1916, pp. 10, 64; 1917, p. 74; 1918, p. 86.
- Matanuska, R 1917, p. 83; 1918, pp. 73, 77; 1919, p. 68; 1920, p. 52; 1921, pp. 16; 1922, p. 3; 1923, p. 4; 1924, p. 9; 1925, pp. 9, 10, 11; 1926, p. 20; 1927, p. 16; 1928, p. 22; 1929, pp. 24, 25.
- Rampart, R 1904, p. 332; 1907, p. 43; 1908, pp. 14, 33; 1909, pp. 14-17, 44-48; 1910, pp. 30-33, 45, 50; 1911, pp. 24-26, 35-40; 1912, pp. 34, 59; 1913, p. 18; 1914, pp. 9, 36; 1915, pp. 17, 19, 60; 1916, pp. 17, 18, 21; 1917, pp. 22, 39; 1918, pp. 11, 38; 1919, pp. 9, 32; 1920, pp. 5, 24, 25; 1921, pp. 4, 5, 34, 36; 1922, p. 4; 1925, p. 30.
- Sitka, B 6, p. 1; B 62, p. 10; R 1902, p. 234; 1906, p. 9.
- Tanana Valley, R 1922, p. 2.
- Yukon, R 1903, p. 317.
- curing device, B 6, p. 16.
- diseases, B 6, p. 15; B 82, p. 12; R 1924, p. 18; 1925, p. 11.
- distribution, R 1918, p. 81; 1919, p. 53; 1920, p. 46.
- early maturing needed, R 1916, p. 18.
- fall sown, R 1915, p. 14.
- feed—
 - market value, Kodiak, R 1911, p. 31.
 - production, Kodiak, R 1924, p. 28.
- fertilization, B 7, p. 6; R 1900, p. 24; 1904, p. 327; 1909, p. 61; 1910, pp. 33, 49, 62; 1911, p. 38; 1912, pp. 49, 50; 1913, p. 50; 1914, pp. 69, 70; 1915, p. 73; 1916, p. 64; 1919, p. 56; 1927, p. 28.
- field weed eradication, R 1929, p. 28.
- germination tests, R 1929, p. 14.
- growing—
 - areas, B 6, p. 11.
 - by farmers in Alaska, R 1916, pp. 15, 66; 1917, pp. 33, 84; 1918, pp. 14, 18, 82; 1919, p. 53; 1920, p. 47.
 - by pioneers in Alaska, B 48, p. 18; B 82, pp. 10, 11; R 1902, pp. 269, 271.
 - drawbacks, B 82, p. 12; R 1903, p. 319; 1918, p. 17.
 - history in Alaska, B 6, p. 1.
 - regions, B 1, p. 7; C 1b, p. 12; R 1900, p. 64; 1903, p. 319.
 - harvesting, B 6, p. 16.
 - hay, market value. See Hay, market value.
 - hay production—
 - Copper Center, R 1904, p. 327.
 - Fairbanks, R 1911, pp. 28, 52; 1912, pp. 32, 50; 1916, p. 45; 1917, pp. 29, 67; 1918, p. 60; 1919, p. 51; 1920, p. 43; 1921, p. 24; 1924, p. 18; 1926, p. 12; 1927, p. 28.
 - Kodiak, R 1909, p. 61; 1910, p. 62.
 - Matanuska, R 1917, p. 83; 1918, pp. 76, 83; 1928, p. 21.
 - Rampart, R 1915, p. 57; 1916, p. 25; 1920, p. 23.
 - large v. small kernels for planting, R. 1916, p. 33.
 - maturity requisites, R 1921, p. 5.
 - moisture content differences, R 1929, pp. 12, 13.
 - on southern exposure, B 6, p. 8.
 - on volcanic soil, R 1912, p. 70; 1914, p. 39.

Grain—Continued.

- protecting from frost, B 6, pp. 8, 9; C 1b, pp. 12, 13.
 - production in Finland, R 1900, p. 68; 1901, p. 277.
 - production in Russia, B 48, p. 24.
 - rabbit damaged, R 1913, p. 31.
 - rain effect. See Rains.
 - rotation, R 1914, p. 53; 1916, p. 51; 1920, p. 42; 1928, p. 24.
 - scratch, for chickens, R 1929, p. 32.
 - selection, B 6, p. 13; R 1915, p. 61.
 - weather effects, C 1b, pp. 12, 13; R 1902, p. 234.
 - yields, B 6, p. 16.
- See also specific kinds of grain.*

Gramineæ, B 48, p. 28.

Grapes, culture—

- Matanuska, R 1929, p. 24.
- Sitka, R 1902, p. 243; 1921, p. 15; 1926, p. 3; 1928, p. 3; 1929, p. 4.

Grass leek. See Chives.

Grasses—

- coast region, R 1904, p. 280.
- culture—
 - Copper Center, R 1902, pp. 268, 269; 1903, p. 349; 1904, p. 328; 1905, p. 50; 1906, p. 38; 1907, pp. 27, 57; 1908, p. 54.
 - Fairbanks, R 1909, p. 56; 1910, p. 57; 1911, p. 51; 1912, p. 51.
 - Kenai, R 1903, p. 359; 1904, p. 307; 1905, p. 62; 1906, pp. 48, 49.
 - Kodiak, R 1913, pp. 22, 50, 56; 1914, pp. 40, 66, 69, 73; 1915, pp. 24, 72, 78; 1916, pp. 11, 62; 1920, p. 62.
 - Matanuska, R 1918, p. 77; 1919, p. 71; 1920, p. 55; 1921, p. 21; 1924, p. 15; 1927, p. 20; 1929, p. 25.
 - Rampart, R 1906, p. 47; 1907, pp. 30, 47; 1908, p. 39; 1909, p. 48; 1910, p. 50; 1911, p. 43.
 - Sitka, R 1902, p. 241; 1903, p. 334; 1904, p. 300.
 - Wood Island, R 1903, p. 364; 1904, p. 334.
- diseases, B 48, p. 18; R 1915, p. 40.
- feeding value, B 48, pp. 13, 14; R 1916, p. 12; 1917, p. 77; 1927, p. 15.
- fertilization, R 1907, p. 57; 1913, p. 50.
- Healy and Lignite, R 1928, p. 29; 1929, p. 46.
- native, growing regions, B 48, pp. 6, 12, 13, 31; B 82, p. 12; C 1b, p. 3; R 1900, pp. 56, 64.
- on gravelly soil, R 1910, p. 33.
- silage from, B 8, p. 2; B 48, p. 14; R 1901, p. 250; 1922, p. 7.
- Unalaska, R 1904, p. 275.

See also specific kinds.

Grassland—

- areas, R 1904, p. 270.
- burning. See Burning.
- investigations by C. V. Piper, R 1904, pp. 267, 269; 1905, p. 22.

Gravel—

- dunes, B 5, p. 3.
- use for vegetable growing, B 7, p. 6.
- Gravina. See Farming.
- Gravity action in cream separation, R 1907, p. 66.
- Grazing lands—
 - Alaska Peninsula, adjacent islands, R 1904, p. 275.
 - Aleutian Islands, R 1928, p. 26.
 - Dunbar, R 1929, pp. 38, 39.
 - Healy and Lignite, R 1928, p. 29.
 - Kenai, R 1904, p. 272; 1906, p. 19.
 - Kodiak Island, B 5, p. 1; B 82, p. 39; R 1904, p. 273; 1929, p. 41.
 - Matanuska, C 1a, p. 28; R 1921, p. 3.
 - southeastern Alaska, R 1904, p. 270.
 - southern Alaska, utilization, R 1904, p. 276.

Grazing lands—Continued.

- southwestern Alaska, R 1904, p. 272.
 Tanana region, R 1911, pp. 49, 50.
 Ugak Bay, R 1929, p. 43.
 Upper South Fork Valley, R 1901, p. 288.
 Yukatuk, B 8, p. 3; R 1904, p. 270.
 Grebes, protection in Alaska, C 1b, p. 17.
 Green, J. L., notes on Tanana Valley, R 1901, p. 309.
 Green manure crops for soil renovation, B 7, p. 10.
 Greenhouse construction, R 1907, p. 15.
 Greens native to Alaska, B 7, p. 19.
 Grindal. *See* Farming.
 Ground cherry, B 82, p. 22.

Ground—

- heaving, plants affected, B 4, p. 12;
 C 2, p. 10; R 1907, pp. 31, 35;
 1913, p. 8; 1929, p. 8.

ice. *See* Ice.

new, fertilized effect. *See* Fertilizers.

Grouse—

- habitats, R 1901, p. 288.
 protection in Alaska, C 1b, p. 17.

- Grouseberries, growing regions, R 1902, p. 267.

- Growing season in Alaska, B 7, p. 2; B 48, p. 24; R 1907, p. 29; 1910, p. 43.

See also Frost-free period.

Guano. *See* Fish guano.

- Guillemots, protection in Alaska, C 1b, p. 17.

Gulkana—

- location, R 1906, p. 36.
 weather data, R 1914, p. 92; 1915, p. 96.

- Gulls, protecting in Alaska, C 1b, p. 17.

- Guns, regulations governing use, C 1b, p. 18.

- Gymnosporangium sorbi* on crab apple and mountain ash, R 1915, p. 41.

Gypsophila—

- elegans*, R 1915, p. 38; 1918, p. 33.

- paniculata*, R 1918, p. 33.

- spp., B 62, p. 37; R 1916, p. 49.

Haines—

- commercial dairying, R 1929, p. 45.

- weather data, R 1911, p. 78; 1914, p. 92; 1915, pp. 8, 96; 1926, p. 34;

- 1927, p. 33; 1928, p. 34; 1929, p. 51.

See also Climate; Farming.

Hair grass—

- culture, Copper Center, R 1902, p. 269.

- rough, growing regions, R 1904, p. 281.

Halibut Cove. *See* Farming.

Halibut fishing industry, B 48, p. 32; C 1a, p. 26.

Ham—

- importation, B 6, p. 20; R 1923, p. 19.

- market value, R 1903, pp. 340, 341.

Harbors, Aleutian Islands, R 1928, p. 28.

See also Steamers, landing places.

Harding, President, visit to Alaska, R 1923, p. 1.

Hardware, market value, C 1a, p. 16.

Hare, northern varying. *See* Rabbit.

Hare protection in Alaska, C 1b, p. 18.

Harebell, Carpathian, culture, Sitka, R 1914, p. 25; 1915, p. 37; 1917, p. 17; 1920, p. 17.

Harnessed oxen, description, R 1901, p. 252.

Hassock grass culture—

Copper Center, R 1902, p. 269; 1905, p. 51; 1906, p. 38; 1907, p. 58.

Kenai, R 1903, p. 359; 1905, p. 62.

Hauling charges. *See* Charges.

Hay—

crops, sodium nitrate effect, R 1912, p. 50; 1913, p. 37.

curing methods, B 8, p. 3; B 62, p. 24; R 1907, p. 78; 1910, p. 70; 1912, p. 59; 1917, p. 29; 1918, pp. 83, 88; 1928, p. 21; 1929, p. 16.

feeding value, R 1916, p. 12.

importation, B 6, p. 20; R 1905, p. 23;

1914, p. 54; 1923, p. 19.

lands, enriching, R 1911, p. 54.

Hay—Continued.

market value, B 48, p. 14; C 1b, p. 12; C 1c, p. 23; R 1901, p. 275; 1906, p. 16; 1909, p. 28; 1911, pp. 29, 49, 50; 1912, p. 48; 1913, p. 35; 1916, pp. 49, 51; 1917, pp. 31, 67; 1929, p. 44.

moist atmosphere effect. *See* Atmosphere.

transportation charges, R 1901, p. 308; 1903, p. 341; 1906, p. 16; 1912, pp. 38, 39.

See also Grain hay.

Haymaking—

apparatus and implements, B 3, p. 8.

at Anvik, R 1905, p. 78.

at Chicken, R 1907, p. 78.

at Coal Harbor, R 1907, pp. 77, 78.

at Copper Center, R 1902, p. 268.

at Dunbar, R 1929, p. 39.

at Fairbanks, R 1909, p. 57.

at Haines, B 62, p. 23.

at Holy Cross, R 1900, p. 42.

at Kenai, B 3.

at Kodiak, R 1908, pp. 59, 64; 1909, p. 58; 1910, p. 63; 1911, p. 59; 1913, p. 52; 1914, p. 72; 1915, p. 76; 1916, p. 57; 1917, p. 76; 1918, p. 87; 1919, p. 57; 1920, p. 60; 1921, p. 45; 1924, pp. 27, 28; 1925, p. 18; 1926, p. 30; 1929, p. 37.

at Matanuska, R 1919, p. 77.

at Rampart, R 1912, p. 59; 1913, p. 40.

at Yukatuk, B 62, p. 24.

notes, B 48, p. 14; B 82, p. 24.

possibilities—

at Healy and Lignite, R 1928, pp. 30, 31.

on Aleutian Islands, R 1928, p. 28.

suggestions, B 3, p. 13.

Hazelnut culture, Sitka, R 1926, p. 4.

Health of man in Alaska, C 1b, p. 4.

Healy—

agricultural areas. *See* Agricultural areas.

climate. *See* Climate.

grazing possibilities. *See* Grazing.

topography. *See* Topography.

See also Soils; Survey.

Heaving of plants. *See* Ground heaving.

Hedysarum—

americanum, B 48, p. 28.

mackenzii, R 1908, p. 57.

spp., R 1908, p. 54.

Helianthus spp. *See* Sunflowers.

Helichrysum sp., B 82, p. 22.

Hellebore as insecticide, B 7, p. 21; R 1912, p. 66.

Heremocallis—

flava, R 1911, p. 22; 1917, p. 19.

thunbergii. *See* Lily, Japanese lemon.

Hemlock—

culture, Wood Island, R 1902, p. 257.

diseases, R 1915, p. 41.

growing regions, B 48, pp. 4, 6; C 1b, p. 3.

Hemp culture—

Kenai, R 1902, p. 253; 1903, p. 361.

Rampart, R 1915, p. 66; 1917, p. 53;

1918, p. 47; 1920, p. 31; 1921, p. 42.

Sitka, R 1902, p. 240.

Wood Island, R 1902, pp. 257, 258.

Henderson Bay weather data, R 1919, p. 84.

Hepatitis in cattle, R 1915, p. 79.

Heracleum lanatum for table use, B 48, p. 16.

Herbs—

aromatic, B 2, p. 46; B 7, p. 32; R 1902, p. 243; 1914, p. 24; 1915, p.

37; 1917, p. 11; 1926, p. 6; 1927, p. 12; 1928, p. 8.

pot, B 48, p. 16; R 1914, p. 22.

Herdeen Bay weather data, R 1903, p. 387.

Heros, protecting in Alaska, C 1b, p. 17.

Herring oil industry, B 48, p. 33.

Heuchera sanguinea. *See* Alum root.

- Hibiscus syriacus* culture, Sitka, R 1922, p. 13.
- Hides, laws and regulations, C 1b, p. 17.
- Hierochloa*—
 alpina, B 48, p. 28
 odorata as ornamental, B 48, p. 14.
- Hills v. bottom lands, advantages. *See Land, flat.*
- Hoarhound culture, Sitka, R 1914, p. 24; 1915, p. 37; 1917, p. 11.
- Hoe for clearing ground, description, B 1, p. 9.
- Hog cholera at Fairbanks, R 1922, p. 10.
- Hogs. *See Swine.*
- Holcus lanatus*. *See Velvet grass.*
- Hollanders as growers of bulbs. *See Bulbs.*
- Hollis. *See Farming.*
- Hollyhocks, culture, Sitka, B 82, p. 22; R 1918, p. 33.
- Holy Cross—
 commercial dairying, R 1929, p. 45.
 settlement, R 1900, p. 63.
 weather data, C 1b, p. 3; R 1902, pp. 306, 307; 1905, p. 100; 1906, p. 75; 1907, p. 96; 1908, p. 79; 1909, p. 81; 1910, p. 82; 1911, p. 78; 1912, p. 92; 1913, p. 77; 1915, p. 96; 1916, pp. 82, 87; 1918, p. 98; 1919, p. 84; 1920, p. 70; 1921, p. 53; 1922, p. 20; 1923, p. 32; 1924, p. 42; 1925, p. 36; 1926, p. 35; 1927, p. 33; 1928, p. 34; 1929, p. 51.
- See also Farming.*
- Homer, notes, R 1901, p. 253; 1904, p. 272; 1929, p. 45.
- See also Farming.*
- Homestead laws, B 62, p. 45; B 82, p. 51; C 1b, p. 7; C 1c, p. 21; R 1901, p. 342.
- Homesteads, location, R 1905, pp. 17, 22; 1915, pp. 81, 82; 1918, p. 21; 1919, p. 53; 1923, p. 17.
- Honeysuckle—
 culture—
 Matanuska, R 1918, p. 81; 1919, p. 76; 1920, p. 58; 1927, p. 21.
 Sitka, R 1903, p. 330; 1904, p. 297; 1907, pp. 25, 41; 1908, p. 32; 1910, p. 26; 1914, p. 25; 1916, p. 9; 1920, p. 16.
 Japanese. *See Lonicera japonica.*
 Siberian. *See Lonicera thibetica.*
 Tartarian. *See Lonicera tatarica.*
- "Hoochinoo" making in Alaska, B 9, p. 6.
- Hoods Bay, notes, B 48, p. 19.
- See also Farming.*
- Hoonah. *See Farming.*
- Hootz Bay location, B 82, p. 46.
- Hope City. *See Farming.*
- Hordeum boreale*. *See Barley, wild.*
- Horse beans—
 culture—
 Copper Center, R 1907, p. 53.
 Kenai, R 1905, p. 61.
 Sitka, R 1921, p. 7.
 silage from, B 8, p. 2; R 1922, p. 7.
- Horseradish—
 as pot herb, B 48, p. 16.
 cultural directions, B 2, p. 39; B 7, p. 26; R 1921, p. 11; 1924, p. 4.
- culture—
 Fairbanks, R 1911, p. 47; 1912, p. 55.
 Sitka, R 1914, p. 24; 1919, p. 24; 1921, p. 11; 1928, p. 7.
 Valdez, R 1909, p. 67.
 Wood Island, R 1902, p. 257.
- table preparation, B 2, p. 39.
- Horsetail. *See Equisetum spp.*
- Horses—
 breeding, advisability in Alaska, R 1915, pp. 26, 81.
 Copper Center, R 1903, p. 336; 1905, p. 54.
 cost of maintaining, B 1, p. 14; R 1916, p. 49.
 Fairbanks, R 1907, p. 12; 1908, p. 16; 1914, p. 51; 1916, p. 49; 1917, p. 71; 1918, p. 69; 1921, p. 31; 1924, p. 24; 1926, p. 11.
- Horses—Continued.
- Healy and Lignite, R 1928, p. 1; 1929, p. 46.
 heaves in, R 1911, p. 59.
 Ketchemstock and Steele Creek, R 1901, p. 289.
- Horses—
 at Kodiak, R 1907, p. 61; 1912, pp. 43, 72; 1915, p. 81; 1925, p. 29; 1926, p. 30; 1929, p. 36.
 at Matanuska, R 1924, p. 17.
 at Rampart, R 1901, p. 268.
 at Tanana Crossing, R 1907, p. 83.
 uses in Alaska, B 48, pp. 21, 32; R 1907, p. 16.
 v. oxen in Alaska. *See Oxen.*
 v. tractors. *See Tractors.*
- Hospital at—
 Fort Gibbon, R 1900, p. 61.
 Rampart, R 1900, p. 59.
 Skagway, R 1902, p. 279.
- Hot Springs—
 characteristics, location, R 1905, p. 18.
 weather data, R 1909, p. 81; 1910, p. 82.
See also Farming, Magic Hot Springs.
- Hotbeds, construction, management, B 2, p. 22; B 7, p. 12.
- House for blanching, description, R 1921, p. 9.
- Howkan. *See Farming.*
- Huckleberries—
 culture, Sitka, R 1915, pp. 10, 31.
 growing regions, B 48, pp. 6, 15, 31; R 1903, p. 321; 1904, p. 275; 1905, p. 17.
- Hudson Bay Company, R 1901, p. 274.
- Hunting seasons. *See Seasons.*
- Hyacinths—
 cultural directions, C 2, p. 4; R 1910, p. 29; 1920, p. 17.
 culture, Sitka, R 1914, p. 26; 1920, p. 17.
- Hydaburg weather data, R 1921, p. 53; 1926, p. 35; 1927, p. 33.
- Hydah Indians. *See Indians.*
- Hydah mats, B 48, p. 12.
- Hyder, R 1929, p. 45.
- Hydrangea—
 paniculata grandiflora culture, Sitka, R 1915, p. 37.
 paniculata, notes on growth, R 1917, p. 14; 1918, p. 31; 1921, p. 14.
- Hydrocyanic acid insecticidal and fungicidal value, R 1920, p. 20.
- Hypericum culture, Sitka, R 1924, p. 8.
- Iberis—
 amarula, R 1913, p. 70.
 amarula. *See also Candytuft.*
 gibraltarica. *See Candytuft, hardy.*
- Ice cap in Alaska, C 1b, p. 5.
- Ice house construction, R 1913, p. 39.
- Ice in ground—
 at Fairbanks, B 6, p. 8; R 1919, p. 14; 1926, p. 13.
 at Fort Yukon, B 2, p. 13; B 7, p. 7; R 1900, p. 56.
 at Holy Cross, B 2, p. 13; R 1900, p. 56.
 at Rampart, B 6, p. 8; B 7, p. 7; R 1918, p. 10.
 crops affected, B 2, p. 13; B 6, p. 8.
- Ice in river, damage, R 1918, pp. 34, 55; 1920, p. 22.
- Iceland agriculture, B 48, p. 23.
- Iditarod. *See Farming.*
- Igloo weather data, R 1920, p. 70; 1926, p. 35; 1927, p. 33.
See also Farming.
- Iliamna. *See Farming.*
- Impaction in—
 cattle, R 1908, pp. 18, 63; 1909, pp. 25, 64; 1916, p. 59.
 sheep, R 1911, p. 64.
- Impatiens balsamina*. *See Balsam.*
- Implements—
 needed in Alaska, B 62, p. 46.
 used in haymaking. *See Haymaking apparatus.*

- Importation of farm products. *See Agricultural products.*
- Indian Creek, description, location, R 1901, pp. 287, 288, 301.
- Indiana River weather data, R 1918, p. 98; 1919, p. 84.
- Indianapolis (Ind.), precipitation, B 48, p. 9.
- Indians—
as farmers, R 1901, p. 336.
at Ketchemstock, R 1901, p. 287.
Cape Fox tribe, R 1902, p. 275.
gardens, R 1902, pp. 271, 275; 1907, p. 58; 1908, p. 56.
health of, C 1b, p. 4.
Hydah tribe, R 1902, p. 275.
of Copper River Valley, R 1901, p. 293.
on Mary Island, B 48, p. 4.
Thlinket, B 48, p. 16.
Tongas, R 1902, p. 275.
Tsimpsean, R 1902, p. 275.
See also Agricultural instruction.
- Indigo, false. *See Baptisia australis.*
- Influenza epidemic in Alaska, C 1b, p. 15.
- Inoculating legumes and soils, R 1906, p. 51; 1912, p. 65; 1917, pp. 38, 75; 1925, p. 25.
- Insect—
carriers of pollen, R 1916, p. 28; 1917, p. 36.
pests in Alaska, R 1903, p. 321; 1914, p. 24; 1915, p. 41.
- Interior of Alaska. *See Alaska.*
- International Polar Expedition, R 1902, p. 292.
- Iris—
Alaska blue, culture, Petersburg, R 1915, p. 84.
culture, Rampart, R 1921, p. 44.
English, C 2, p. 6; R 1925, p. 8; 1926, p. 8; 1927, p. 13; 1929, p. 7.
German, growth at Kake, R 1916, p. 81.
Japanese, R 1910, p. 27; 1927, p. 13.
Siberian. *See Iris sibirica.*
- Iris sibirica*, R 1910, p. 27; 1911, p. 23; 1915, p. 38; 1917, p. 19.
- Iron Creek weather data, R 1908, p. 80.
- Iron, galvanized, market value, C 1a, p. 16.
- Irrigation—
by gravity, R 1907, p. 15.
in Copper River Valley, C 1b, pp. 3, 6; R 1905, p. 12; 1907, p. 28.
plant at Tonsino, R 1906, p. 35.
See also Water wheel.
- Isotherms, relation to agriculture, R 1901, p. 277.
- Ivy—
Boston and English, R 1902, p. 243.
Kenilworth. *See Linaria cymbalaria.*
- Jack Wade City. *See Farming.*
- Jack Wade Creek, R 1901, p. 285.
- Jackson, Sheldon, report on Alaska, B 48, pp. 2, 35; B 62, p. 37.
- Jaegers, protecting in Alaska, C 1b, p. 17.
- Jamaica ginger for cattle, R 1908, p. 63.
- Japan current, coast region affected, B 48, p. 6; B 62, p. 43; R 1901, p. 282.
- Japanese asparagus—
cultural directions, B 7, p. 28.
See also Asparagus.
- Japonski Island settlement, B 48, p. 27; B 62, p. 8.
- Jarvis City. *See Farming.*
- Jelly—
from apples, R 1905, p. 8; 1916, p. 8.
from berries, B 48, p. 15.
- Jerusalem cherries, culture, Sitka, R 1919, p. 29.
- Jerusalem cross. *See Lychnis, scarlet.*
- Johnny-jump-ups, growth at Kake, R 1916, p. 80.
- Johnny's village, notes, B 62, p. 50.
- Johnson grass culture, Wood Island, R 1903, p. 364.
- Jones, Isaac, report on reconnaissance of interior, R 1901, p. 283.
- Juncus arcticus*, R 1908, p. 58.
- Juneau—
commercial dairying, R 1929, p. 45.
weather data, B 48, pp. 7, 8; B 62, p. 51; B 82, p. 53; C 1b, p. 2; R 1900, pp. 78, 79; 1902, p. 298; 1903, p. 385; 1904, p. 356; 1905, p. 95; 1906, p. 70; 1907, p. 89; 1908, p. 84; 1912, p. 92; 1913, p. 77; 1914, p. 93; 1915, pp. 8, 97; 1916, pp. 82, 83, 88; 1917, p. 92; 1918, p. 98; 1919, p. 84; 1920, p. 70; 1921, p. 53; 1922, p. 20; 1923, p. 33; 1924, p. 43; 1925, p. 36; 1926, p. 35; 1927, p. 34; 1928, p. 35; 1929, p. 52.
- See also* Farming; Frost-free period; Topography.
- June-berry culture, Fairbanks, R 1929, p. 17.
- June-berry culture, Sitka, R 1903, p. 330; 1907, p. 35; 1908, p. 25; 1909, p. 10.
- Juniper berries, growing regions, B 48, p. 35.
- Juniperus sabina*, R 1908, p. 58.
- Kachemak Bay, notes, R 1904, pp. 272, 273; 1923, p. 19.
- See also* Farming.
- Kainait, oats affected, B 2, p. 15; B 7, p. 6.
- Kake weather data, R 1921, p. 54; 1922, p. 20; 1923, p. 33.
- See also* Farming.
- Kale—
as cattle feed, R 1914, p. 71; 1915, p. 73; 1916, p. 64.
cultural directions, B 2, p. 27; B 7, p. 18.
- culture—
Copper Center, R 1903, p. 352; 1904, p. 330; 1905, p. 52; 1906, p. 37; 1907, p. 50; 1908, p. 50; 1911, p. 66.
Fairbanks, R 1917, p. 70; 1929, p. 17.
Kenai, B 82, p. 32; R 1903, p. 357; 1904, p. 306; 1905, p. 63; 1906, p. 50.
Kodiak, B 82, p. 37.
Matanuska, R 1918, p. 80; 1924, p. 16.
Rampart, R 1906, p. 47; 1907, p. 49; 1908, pp. 39, 42; 1909, p. 50.
Sitka, B 62, p. 13; R 1902, p. 242; 1903, p. 325; 1904, p. 299; 1905, p. 37; 1906, p. 33; 1908, p. 31; 1909, p. 40; 1910, p. 17; 1912, p. 18; 1913, p. 9; 1914, p. 19; 1915, p. 34; 1917, p. 9; 1918, p. 25; 1919, p. 21; 1921, p. 9; 1924, p. 2; 1925, p. 4; 1926, p. 5; 1927, p. 11; 1928, p. 7; 1929, p. 6.
Wood Island, R 1903, p. 362.
- diseases, R 1915, p. 39.
- fertilization, R 1914, p. 71.
- insect pests, R 1915, p. 42.
- table preparation, B 2, p. 27; B 7, p. 18; R 1906, p. 33; 1921, p. 9.
- See also* Seakale.
- Kalsin Bay—
buildings and improvements, R 1908, pp. 19, 59; 1909, p. 24; 1910, pp. 40, 42, 59; 1915, p. 70; 1918, p. 86.
closing, R 1921, p. 6; 1922, p. 14.
land reservation and survey, R 1908, p. 19; 1909, p. 24.
location, R 1907, p. 11.
- Kantishna Valley location, R 1910, p. 67.
- Kantotsitsen location, R 1902, p. 289.
- Karluk. *See Farming.*
- Kasaan. *See Farming.*
- Katalla weather data, R 1907, p. 90; 1908, p. 75; 1923, p. 33; 1924, p. 43; 1925, p. 36; 1926, p. 36; 1927, p. 34.
- See also* Farming.
- Katlean Bay location, R 1929, p. 44.
- Kayak location, R 1902, p. 268.
- See also* Farming.

- Kelp as fertilizer, B 2, p. 21; B 48, pp. 16, 20; R 1919, p. 59; 1920, p. 62.
- Kenai Peninsula**—
economic condition, R 1905, p. 21.
grazing possibilities, R 1904, p. 272.
See also Agricultural areas; Climate; Farming.
- Kenai station**—
buildings and improvements, B 82, pp. 6, 30, 34, 49; R 1900, p. 32; 1901, pp. 239, 251, 254; 1902, pp. 233, 245, 246; 1903, pp. 313, 317, 318, 353, 355; 1904, pp. 266, 301, 303; 1905, p. 61; 1906, p. 48.
closing, C 1b, p. 15; R 1905, p. 21, 22; 1907, p. 11; 1908, p. 20.
land reservation and survey, B 62, p. 41; B 82, pp. 10, 30; R 1903, p. 315.
report by P. H. Ross, R 1904, p. 302.
weather data, B 82, p. 54; R 1900, pp. 32, 80; 1902, p. 301; 1903, p. 386; 1904, pp. 302, 355; 1905, pp. 60, 94; 1906, pp. 47, 69; 1907, p. 88; 1908, p. 72; 1916, p. 82.
- Kennecott** weather data, R 1905, p. 100; 1907, p. 93; 1909, p. 79; 1910, p. 83; 1911, p. 82; 1912, p. 93; 1917, p. 93; 1918, p. 98; 1920, p. 70; 1926, p. 36; 1927, p. 34; 1928, p. 35; 1929, p. 52.
See also Farming.
- Kennett** weather data, R 1906, p. 73.
- Kerosene**—
as insecticide, R 1907, p. 24; 1920, p. 20.
market value, C 1b, p. 12; C 1c, p. 23; R 1903, p. 341.
tractor needs, B 6, p. 13.
- Ketchamstock**—
location, R 1901, pp. 287, 300, 301.
weather data, R 1904, p. 360; 1905, p. 99; 1906, p. 74; 1907, p. 94; 1908, p. 77; 1909, p. 79.
- Ketchikan**—
commercial dairying, R 1929, p. 45.
weather data, B 7, p. 3; C 1b, p. 2; R 1902, p. 299; 1903, p. 384; 1910, p. 83; 1911, p. 77; 1912, p. 93; 1913, p. 77; 1914, p. 93; 1915, p. 97; 1916, pp. 82, 83, 88; 1917, p. 93; 1918, p. 99; 1919, p. 85; 1920, p. 71; 1921, p. 54; 1922, p. 21; 1923, p. 33; 1924, p. 43; 1925, p. 37; 1926, p. 36; 1927, p. 34; 1928, p. 35; 1929, p. 52.
See also Farming.
- Keystone Canyon**, R 1901, p. 296; 1903, p. 338.
- Kiana**. *See* Farming.
- Killin**, Benton, report on Alaska, B 48, pp. 29-35.
- Killisnoo**—
accessibility, B 48, p. 19.
weather data, B 48, pp. 7, 8; B 62, p. 51; B 82, p. 53; C 1b, p. 2; R 1900, p. 78; 1901, p. 352; 1902, p. 297; 1903, p. 384; 1904, p. 357; 1905, p. 96; 1906, p. 70; 1907, p. 90; 1908, p. 74; 1909, p. 77; 1910, p. 83; 1916, p. 82.
See also Farming.
- Kimball's Pass**. *See* Topography.
- Kitchenstock** weather data, R 1916, p. 82.
- Klat-ol-Klin**. *See* Johnny's Village.
- Klukwan** weather data, R 1908, p. 74; 1909, p. 76; 1910, p. 83; 1911, p. 82; 1912, p. 93; 1913, p. 77; 1914, p. 93; 1915, p. 97; 1916, pp. 82, 83, 88; 1917, p. 93; 1918, p. 99; 1919, p. 85.
See also Farming.
- Klutne River**, R 1901, pp. 294, 305.
- "Knesheneka." *See* Dewberry.
- Knik**. *See* Farming.
- Kochia**—
scoparia. *See* Cypress, summer.
trichophylla, R 1917, p. 70.
- Kodiak-Afognak group**. *See* Agricultural areas.
- Kodiak Island**—
area, location, B 48, p. 27; R 1904, p. 273; 1918, p. 84.
commercial dairying, R 1929, p. 45.
economic conditions, R 1920, p. 63.
grazing lands. *See* Grazing lands.
survey. *See* Survey, agricultural.
weather data, B 7, p. 3; B 48, pp. 7, 8; B 62, p. 1; B 82, p. 54; C 1b, p. 2; R 1900, p. 80; 1902, p. 302; 1908, pp. 59, 60, 76; 1909, pp. 59, 74; 1910, pp. 67, 77; 1911, pp. 55, 80; 1912, pp. 72, 93; 1913, pp. 54, 78; 1914, pp. 74, 93; 1915, pp. 71, 97; 1916, pp. 53, 82, 88; 1917, pp. 72, 93; 1918, pp. 85, 99; 1919, pp. 55, 85; 1920, pp. 58, 71; 1921, pp. 44, 54; 1922, p. 21; 1923, p. 34; 1924, p. 43; 1925, p. 37; 1926, pp. 30, 36; 1927, p. 35; 1928, p. 35; 1929, pp. 35, 52, 53.
See also Climate; Farming; Mount Katmai; Topography.
- Kodiak station**—
advantages and disadvantages, R 1905, p. 21; 1917, p. 30; 1918, p. 19; 1919, p. 15; 1920, p. 11; 1924, p. 27; 1925, p. 18.
buildings and improvements, R 1907, p. 59; 1908, pp. 18, 19, 58, 59; 1909, pp. 57, 58, 62; 1910, pp. 40, 59; 1911, pp. 30, 53, 54; 1914, pp. 66, 67; 1915, pp. 25, 70; 1916, pp. 15, 55; 1917, pp. 30, 73; 1918, p. 85; 1919, pp. 17, 61; 1920, p. 62; 1922, p. 14; 1923, p. 28; 1924, p. 38; 1927, p. 13.
land reservation and survey, B 62, p. 40; B 82, p. 10; R 1903, p. 314; 1907, p. 10; 1919, p. 15; 1921, pp. 6, 46, library, R 1919, p. 63.
maintenance on reduced scale, R 1925, p. 29.
needs, R 1910, p. 65; 1911, p. 32; 1914, p. 76; 1916, p. 66; 1917, p. 80; 1919, pp. 18, 63; 1920, p. 63; 1922, p. 15; 1923, p. 28.
- Kohlrabi**—
cultural directions, B 2, p. 36; B 7, p. 23.
culture—
Copper Center, R 1907, p. 50; 1908, p. 50; 1911, p. 66.
Kenai, B 82, p. 32; R 1903, p. 356.
Kodiak, B 82, p. 37.
Matanuska, R 1918, p. 80.
Rampart, R 1909, p. 50; 1918, p. 51.
Sitka, B 62, p. 14; R 1903, p. 326; 1905, p. 39; 1909, p. 40; 1914, p. 20; 1915, p. 34; 1917, p. 9; 1918, p. 25; 1919, p. 23; 1921, p. 10; 1925, p. 4; 1926, p. 5; 1928, p. 7; 1929, p. 6.
diseases, R 1915, p. 39.
insect pests, R 1915, p. 42.
market value, R 1916, p. 76.
- "Koo" of the Thlinkets. *See* Rice, wild.
- Koserski**, location, B 48, p. 35; B 62, p. 38.
- Kotzebue** weather data, B 82, p. 54; R 1900, p. 82; 1902, pp. 304, 305; 1904, p. 359; 1905, p. 98; 1916, p. 82; 1929, p. 53.
See also Farming.
- Kougarok**. *See* Farming.
- Krusof Island**. *See* Farming.
- Kudzu** vine culture, Sitka, R 1924, p. 8.
- Kupreanof Island**, B. 48, p. 5.
- Kusilof**—
dairying, commercial, R 1929, p. 45.
location, B 62, p. 48.
See also Soils; Survey; Topography.

- Kuskokwim, accessibility, settlement, C 1b, p. 10.
See also Agricultural areas; Farming; Survey; Topography.
- Kuskokwim River, R 1901, p. 298.
- La grippe in Alaska, C 1b, p. 4; R 1900, p. 35.
- Labor—
 dependability of, R 1928, p. 28.
 prison, R 1902, p. 245.
See also Experiment stations; Work.
- Lactic acid in cheese, R 1907, p. 71.
- Ladyslippers, growth at Nushagak, R 1900, p. 38.
- Lake Abercrombie, R 1902, p. 268.
- Lake Bennet. *See* Farming.
- Lake Mansfield, R 1901, p. 289.
- Lakes—
 notes, B 48, p. 30; R 1905, p. 17; 1910, p. 67; 1929, p. 39.
 replacement by vegetation, B 7, p. 5.
- Lambs—
 lettuce. *See* Cornsalad.
 quarters. *See* *Chenopodium* spp.
- Land—
 acquisition. *See* Farms, obtaining.
 clearing—
 association, R 1929, p. 46.
 costs, B 6, p. 7; B 82, p. 25; R 1909, pp. 18, 23; 1913, p. 38; 1914, p. 29; 1919, p. 66; 1929, p. 32.
 methods, B 6, p. 6; C 1a, p. 27; R 1913, pp. 19, 20; 1918, p. 73.
 need of, B 1, p. 8; B 48, p. 22.
See also Moss lands.
- districts, C 1a, p. 20.
 flat v. hillside for planting, B 6, p. 9; R 1909, p. 32; 1912, p. 28.
- laws, need of, B 48, p. 23.
- loaning and renting, B 82, pp. 10, 11; R 1901, p. 275.
- new—
 fertilizing. *See* Fertilizers.
 crop failures on, B 82, p. 23.
 cropping, B 6, p. 12.
- reservation, Near Island, R 1919, p. 15; 1921, p. 6.
- river bottom. *See* River bottom lands.
- scrip notes. *See* Farms, obtaining.
 "spotted," B 6, p. 17; R 1907, p. 53; 1909, p. 18.
- titles, B 48, p. 34.
- volcanic reclamation, R 1912, p. 69; 1913, pp. 21, 48; 1914, pp. 39, 66-71; 1915, pp. 24, 78; 1916, p. 62; 1921, p. 45.
- See also* Bench lands; Survey.
- Landslide, soils affected, B 48, p. 10.
- Lappula redowskii*, R 1908, p. 57.
- Larch culture, Sitka, R 1924, p. 7.
- Lard and lard compound importations, B 6, p. 20.
- Larix decidua*, R 1922, p. 13.
- Larkspur—
 culture—
 Copper Center, R 1904, p. 331; 1905, p. 54.
 Rampart, R 1916, p. 37; 1917, p. 57; 1918, p. 54; 1920, p. 36.
 Sitka, B 82, pp. 21, 22; R 1911, p. 22; 1917, p. 18; 1918, p. 32; 1919, p. 27; 1920, p. 17; 1926, p. 10; 1927, p. 12.
 English. (*See* *Delphinium hybridum*.)
 poisonous, cattle affected, R 1928, p. 16.
- Lathyrus*—
latifolius. *See* Pea, everlasting.
maritimus. *See* Pea, beach.
maritimus acuticus. *See* Pea, beach, as food.
odoratus. *See* Sweet peas.
palustris. *See* Pea, swamp.
sylvestris. *See* Pea, flat.
- Latitude, climatic differences due to, B 6, p. 10.
- Latouche weather data, R 1917, p. 94; 1918, p. 98; 1919, p. 85; 1920, p. 71; 1921, p. 54; 1924, p. 44; 1925, p. 37; 1926, p. 37; 1927, p. 35; 1928, p. 36; 1929, p. 53.
- Laudanum mixture for cattle, R 1908, p. 64.
- Lavatera* spp., culture—
 Rampart, R 1920, p. 35.
 Sitka, R 1919, p. 27.
- Lavender culture, Sitka, R 1914, p. 24; 1915, p. 37; 1917, p. 11.
"Laver." *See* Algae, marine.
- Lazy Bay, R 1912, p. 72.
- Lead, discoveries in Alaska, R 1902, p. 268.
- Leaf mold—
 for soil improvement, R 1916, p. 63.
 heating for insect control, R 1900, p. 43.
 on burned over areas, R 1928, p. 29.
- Leaves as soil renovators, R 1911, p. 47.
- Ledum*—
graniticum. *See* Tea, Labrador.
palustre. *See* Tea, Hudson Bay.
- Leek—
 cultural directions, B 2, p. 37; B 7, p. 25; R 1924, p. 4.
- culture—
 Copper Center, R 1907, p. 52.
 Fairbanks, R 1929, p. 17.
 Sitka, R 1918, p. 27; 1919, p. 23; 1924, p. 4; 1925, p. 5; 1926, p. 5; 1928, p. 7.
 Wood Island, R 1903, p. 365.
- Legumes—
 as soil renovators, B 6, p. 18; B 7, p. 10; R 1910, pp. 34, 38; 1912, p. 37; 1920, p. 8; 1922, p. 5; 1923, p. 10.
 coast region, R 1904, p. 284.
- culture—
 Copper Center, R 1908, pp. 17, 54.
 Fairbanks, R 1912, pp. 32, 52; 1913, p. 31; 1914, pp. 31, 47; 1917, p. 65; 1918, p. 66; 1919, p. 52; 1924, p. 23; 1927, p. 26.
 Kenai, R 1905, p. 61.
 Kodiak, R 1917, p. 75; 1918, p. 86.
 Matanuska, R 1919, p. 72; 1920, p. 55; 1921, p. 20; 1924, p. 13; 1927, p. 18.
 Rampart, R 1910, p. 50; 1911, pp. 27, 43; 1912, p. 35; 1913, p. 40; 1914, p. 56; 1915, p. 58; 1917, pp. 26, 36; 1918, p. 12, 36; 1919, pp. 11, 38; 1920, pp. 7, 23; 1921, p. 35; 1925, p. 30.
- Leguminosæ, B 48, p. 28; R 1903, p. 321.
- Leparygrea canadensis*, R 1908, p. 57.
- See also* Buffalo berry.
- Lepus americanus americanus*. *See* Rabbit.
- Lettuce—
 cultural directions, B 2, p. 25; B 7, p. 16; R 1901, p. 338; 1912, p. 22; 1921, p. 10.
- culture—
 Copper Center, R 1903, p. 351; 1904, p. 330; 1905, p. 51; 1907, p. 52; 1908, p. 51; 1911, p. 66.
 Fairbanks, R 1910, p. 58; 1915, p. 51; 1917, p. 70; 1928, p. 14.
 Kenai, B 82, p. 33; R 1902, p. 248; 1903, p. 356; 1904, p. 306; 1905, p. 63; 1906, p. 50.
 Kodiak, B 82, p. 38; R 1914, p. 72; 1915, p. 76; 1916, p. 65; 1919, p. 59; 1920, p. 62; 1927, p. 14.
 Matanuska, R 1918, p. 80; 1927, p. 21.
 Rampart, R 1905, p. 59; 1906, p. 46; 1907, p. 47; 1908, p. 42; 1909, p. 50; 1911, p. 26; 1917, p. 55; 1919, p. 40; 1920, p. 33; 1921, p. 44.
 Sitka, B 62, p. 14; R 1903, p. 326; 1904, p. 299; 1909, p. 42; 1910, p. 18; 1911, p. 21; 1914, p. 22; 1915, p. 36; 1917, p. 10;

- Lettuce—Continued.
culture—continued.
- 1918, p. 27; 1919, p. 22; 1924, p. 4; 1925, p. 6; 1926, p. 6; 1927, p. 11; 1928, p. 7; 1929, p. 6.
 - Skagway, B 62, p. 16.
 - Wood Island, R 1903, p. 365.
 - market value, R 1914, p. 81; 1916, p. 76.
- Liberty Creek, R 1901, pp. 284, 299.
See also Topography.
- Licensed for hunting and shipping, C 1a, p. 23.
- Lights—
northern. *See* Arctic day; Auroras;
Day length; Parhelia.
regulations in hunting, C 1b, p. 18.
- Lignite, agricultural survey, R 1928, p. 29.
See also Climate; Soils, Topography.
- Lignite Creek, notes, R 1928, p. 30.
- Ligustrum*—
ovalifolium, R 1917, p. 14.
vulgare, R 1917, p. 14.
- Lilacs, culture, Sitka, R 1903, p. 330; 1904, p. 297; 1905, p. 34; 1906, p. 30; 1907, pp. 25, 41; 1908, p. 32; 1909, p. 39; 1914, p. 25; 1915, p. 37; 1917, p. 15; 1918, p. 31; 1920, p. 16; 1924, p. 8.
- Liliaceæ, B 48, p. 28.
- Lilium*—
elegans, R 1910, p. 28; 1911, p. 23.
myriophyllum. *See* Lily, regal.
regale. *See* Lily, regal.
superbum, R 1911, p. 23.
- Lily—
calla, culture, Rampart, R 1920, p. 36.
Chinese. *See* *Narcissus polyanthus*.
Japanese lemon, R 1911, p. 22.
regal, C 2, p. 8; R 1925, p. 8; 1926, p. 9.
Tiger, culture, Loring, R 1915, p. 83.
yellow day. *See* *Hemerocallis flava*.
- Lime—
as insecticide and fungicide, B 6, p. 15; B 7, p. 21; R 1917, p. 8; 1920, p. 20; 1921, p. 8; 1924, p. 2.
burning methods, B 2, p. 16; R 1905, p. 9.
dip for sheep, R 1913, p. 60.
fertilizing value, B 1, p. 15; B 82, p. 23; R 1900, pp. 24, 28.
for soil acidity, B 2, p. 14; B 7, p. 5; B 82, pp. 28, 48.
market value, B 2, p. 17; R 1904, p. 289; 1905, p. 10.
sulphur for swine scab, R 1916, p. 49.
- Limekiln, description, R 1905, p. 10.
- Limewater, insecticidal value, R 1921, p. 12.
- Linnorchis hyperborea*, R 1908, p. 57.
- Linaria*—
cymbalaria culture, Rampart, R 1918, p. 54.
cymbalaria culture, Sitka, R 1914, p. 26.
maroccana. *See* Toadflax.
- Linens industry possibilities in Alaska, B 82, p. 13.
- Linsseed—
meal—
as cattle feed, R 1929, p. 30.
as sheep feed, R 1917, p. 79.
milk yield affected by, R 1928, p. 25.
oil—
as cattle drench, R 1916, p. 60.
insecticidal value, R 1906, p. 57.
- Linsser's notes on physiological constants, B 48, p. 24.
- Linum*—
grandiflorum culture—
Holy Cross, B 62, p. 37.
Sitka, R 1902, p. 243.
perenne. *See* Blue flax.
See also Flax.
- Lions, mountain, R 1900, p. 34.
- Liquor making. *See* Hoochinoos.
- Little Naked Island. *See* Farming.
- Litmus as sour soil indicator, B 7, pp. 5, 10.
- Livestock—
bears destroy. *See* Bears.
coyotes menace. *See* Coyotes.
drought effect. *See* Drought.
eagles menace. *See* Eagles.
importation, R 1905, p. 23.
raising—
as industry, R 1921, p. 22.
at Eagle Harbor and Pashikshak, R 1929, p. 43.
in coast region, R 1909, p. 27.
on Aleutian Islands, R 1928, p. 27.
on Raspberry Island, R 1912, p. 77.
on Wood Island, R 1902, p. 261; 1903, p. 367; 1904, pp. 278, 335.
situation in Alaska in 1898-99, B 8, p. 3; B 48, p. 20; B 82, pp. 39-42.
value of introduction, R 1920, pp. 9, 46.
See also specific animals.
- Living expenses in Alaska, C 1b, p. 11; C 1c, p. 23; R 1907, p. 20.
- Lobelia*—
erinus. *See* Lobelias.
tenuior. *See* Lobelias.
- Lobelias, culture—
Fairbanks, R 1917, p. 70.
Rampart, R 1918, p. 54.
Sitka, B 82, p. 22; R 1914, p. 26; 1921, p. 14; 1927, p. 12.
- Locust tree culture, Wood Island, R 1903, p. 366.
- Loganberries, culture, Sitka, R 1926, p. 3; 1927, p. 9; 1928, p. 4; 1929, p. 5.
- Logging—
industry, R 1914, p. 43.
location of camps, R 1900, pp. 54, 61, 62.
- Lolium*—
italicum. *See* Ryegrass, Italian.
perenne. *See* Ryegrass, perennial.
- Long. *See* Farming.
- Long Lake. *See* Farming.
- Loniceræ*—
alba rosea, R 1902, p. 243; 1904, p. 296; 1905, p. 34; 1906, p. 30; 1909, p. 39.
albida, R 1906, p. 30.
bella albida, R 1905, p. 34.
gracilis, R 1902, p. 243.
japonica, R 1917, p. 14; 1918, p. 31; 1919, p. 28; 1921, p. 14.
ledebouri, R 1921, p. 15.
maackii, R 1922, p. 12.
morrowii, R 1922, p. 12.
splendens, R 1902, p. 243.
tatarica, R 1904, p. 297; 1905, p. 34; 1917, p. 14; 1918, p. 31; 1921, p. 14; 1924, p. 7; 1925, p. 7.
tatarica grandiflora, R 1905, p. 34; 1906, p. 30.
tatarica rosea, R 1905, p. 34; 1906, p. 30; 1909, p. 39.
tatarica splendens, R 1905, p. 34; 1906, p. 30; 1909, p. 39.
thibetica, R 1917, p. 15; 1918, p. 31; 1919, p. 28; 1921, p. 14; 1927, p. 13.
- Loons, protecting in Alaska, C 1b, p. 17.
- Loring weather data, R 1904, p. 356; 1905, p. 95.
See also Farming.
- Lower Kenai Lake. *See* Farming.
- Lumber—
industry, R 1914, p. 43; 1922, p. 1.
market value, B 82, p. 25; C 1b, p. 12; C 1c, p. 23; R 1900, p. 46; 1905, p. 23.
See also Timber.
- Lupinaster*—
culture, Rampart, R 1911, p. 43; 1913, pp. 18, 42; 1914, p. 57; 1915, p. 60; 1917, pp. 27, 39; 1918, p. 12; 1920, pp. 7, 24; 1921, p. 36; 1923, p. 11.
description, R 1913, pp. 18, 42.
notes on growth, R 1922, p. 6.
Russian, R 1920, p. 24.
seed production, R 1921, p. 36.

- Lupines—
as stock feed, R 1915, p. 78.
culture—
Copper Center, R 1908, p. 54.
Kodiak, R 1904, p. 274; 1915,
p. 78.
Sitka, B 82, p. 19; R 1917, p. 19;
1920, p. 17; 1926, p. 10; 1927,
p. 12.
poisonous, R 1915, p. 78.
- Lupinus*—
arcticus, R 1908, p. 57.
nootkensis unalaskensis, B. 48, p. 28.
polyphyllus, R 1917, p. 19.
unalaskensis, R 1904, pp. 274, 284.
- Lychnis*—
aethion, R 1908, p. 57.
arkwrightii, growth in Alaska, R 1919,
p. 27.
chaledonica. See *Lychnis*, scarlet.
haageana, R 1917, p. 19.
- Lychnis*, scarlet, culture, Sitka, R 1910,
p. 28; 1915, p. 38; 1917, p. 19.
- Lycopodium*—
annnotinum, R 1908, p. 57.
complanatum, R 1908, p. 57.
- Lyons, Jno., notes on trip on Kuskokwim
River, R 1900, p. 34.
- Lysichiton kamtschatcensis*. See Skunk
cabbage.
- Lysimila obtusata*, R 1908, p. 57.
- Magic Hot Springs. See Farming.
- Magnetism of volcanic ash, R 1915, p. 25.
Maid-of-the-mist growth at Sitka, B 82,
p. 22.
- Malls—
notes, R 1901, p. 285.
transportation effects, B 62, p. 42;
B 82, p. 47; R 1900, p. 31; 1901,
p. 253; 1928, p. 28; 1929, p. 41.
- Mallowlike flower, growth, Sitka, R 1920,
p. 35.
- Malnutrition in swine, R 1929, p. 32.
- Malt and bran as cow feed, B 62, p. 21.
- Man, diseases in, Alaska, C 1b, p. 4.
- Mangels—
cost of production, R 1924, p. 15;
1925, p. 15.
- culture—
Kodiak, R 1915, p. 75.
Matanuska, R 1919, p. 74; 1920,
p. 57; 1921, p. 21; 1924, p. 15;
1925, p. 15; 1926, p. 26; 1927,
p. 20; 1928, p. 21; 1929, p. 24.
Rampart, R 1913, p. 48.
Sitka, R 1909, p. 41; 1918, p. 26;
1919, p. 22; 1924, p. 2.
for poultry, R 1919, p. 22.
for rotation, B 6, p. 19.
insect pests, R 1927, p. 20; 1928, p. 21.
milk yield affected by, R 1928, p. 25.
- Manley Hot Springs, R 1910, p. 67.
- Mantasta Divide, R 1902, p. 268.
- Mantasta Pass, location, R 1901, pp. 291,
303, 304.
- Manure—
fertilizing value, B 1, p. 15; B 2, p.
21; B 7, p. 9; R 1900, p. 24; 1910,
p. 33; 1912, p. 69; 1913, pp. 22,
50; 1915, p. 58.
market value, R 1909, p. 31.
pit, R 1919, p. 63; 1920, p. 63; 1922,
p. 13.
relation to potato scab, R 1924, p. 23.
- Maple trees, culture, Sitka, R 1915, p. 37;
1918, p. 30; 1919, p. 26; 1924, p. 7.
See also *Acer* spp.
- Marguerites—
culture—
Fairbanks, R 1916, p. 49.
Sitka, R 1918, p. 32.
growth at Haines, R 1902, p. 279.
- Marigold—
cultural directions, B 2, p. 46; B 7,
p. 32; R 1926, p. 9.
culture—
Fairbanks, R 1914, p. 48; 1915,
p. 52; 1916, p. 49.
- Marigold—Continued.
culture—continued.
Holy Cross, B 62, p. 37.
Rampart, R 1916, p. 37; 1918,
p. 52; 1919, p. 44.
Sitka, B 82, p. 22; R 1902, p. 243;
1910, p. 29; 1912, p. 79; 1914,
p. 26; 1915, p. 38; 1917, p. 20;
1921, p. 14; 1926, p. 10; 1927,
p. 12.
- Marine fossils in Alaska, B 2, p. 16.
- Market—
Curry, C 1c, p. 12.
Fairbanks, C 1c, p. 16; R 1911, p. 49;
1912, p. 48; 1913, p. 35; 1914, p. 54;
1916, pp. 16, 50; 1919, p. 54.
- Kenai, R 1906, p. 19.
- need of cooperative system, R 1916,
p. 68; 1927, p. 5.
possibilities, B 6, p. 19; C 1b, p. 13;
R 1903, p. 319; 1918, p. 18.
- relation to community life, C 1b, p. 6.
- Marmot protection, C 1b, p. 18.
- Marrowfat vine growth, Mary Island, R
1906, p. 54.
- Marten protection, C 1b, p. 18.
- Marvel-of-Peru. See Four o'clock.
- Mary Island. See Farming.
- Mash mixture for chickens, R 1929, p. 32.
- Matanuska Land Clearing Association. See
Land clearing.
- Matanuska station—
buildings, improvements, R 1917, pp.
32, 82; 1918, pp. 16, 72; 1919, p. 66;
1920, pp. 5, 51; 1922, p. 13; 1923,
p. 28; 1924, p. 17; 1925, p. 20;
1926, p. 29; 1929, pp. 2, 33.
establishment, B 8, p. 16; R 1917,
p. 81.
land clearing costs, R 1929, p. 32.
land reservation, R 1915, pp. 27, 71;
1917, pp. 32, 81; 1918, p. 16; 1921,
p. 3; 1926, p. 19.
location, B 6, p. 10; B 8, p. 16; R
1915, p. 27; 1917, p. 81; 1925, p. 9;
1926, pp. 2, 19.
staff changes, R 1929, p. 1.
- Matanuska Valley—
accessibility, settlement, C 1b, pp. 6,
10; R 1927, p. 1.
agricultural areas. See Agricultural
areas.
agricultural possibilities, R 1917, p. 32;
1919, pp. 18, 77; 1920, p. 10; 1921,
p. 2; 1925, p. 9; 1926, p. 2.
agricultural reconnaissance, R 1915,
p. 26.
climate. See Climate.
colonizing, R 1929, p. 37.
commercial dairying, R 1929, p. 32.
crops, C 1c, p. 10.
drainage, C 1c, p. 9.
day length. See Day length.
frost-free period. See Frost-free pe-
riod.
location, C 1c, p. 6.
problems of early settlers, C 1a, p. 26.
weather data, B 7, p. 4; C 1b, p. 3;
R 1918, pp. 71, 100; 1919, pp. 67,
86; 1920, pp. 10, 48, 71; 1921, pp.
16, 55; 1922, p. 21; 1923, p. 34;
1924, pp. 9, 44; 1925, pp. 9, 37;
1926, pp. 19, 37; 1927, pp. 14, 35;
1928, pp. 17, 36; 1929, pp. 20, 53.
See also Farming; Grazing lands;
Soils; Topography; Transportation.
- Matricaria—
discoidea, B 48, p. 20.
extima culture—
Rampart, R 1918, p. 54.
Sitka, R 1915, p. 38; 1919, p. 27.
- Matthiola—
annua, B 82, p. 22.
bicornis. See Stocks, evening-scented.
- Maunona. See Ninilchick.
- Maurandia vine culture, Rampart, R 1918,
p. 54.
- McCarty. See Farming.

- McCollam Fishing and Trading Co., B 62, p. 28.
- McHenry Inlet weather data, R 1904, p. 356.
- McKinley moose, R 1901, p. 301.
- McKinley Park weather data, R 1925, p. 38; 1926, p. 37; 1927, p. 35; 1928, p. 36; 1929, p. 53.
- McQueston River, natural products along, B 62, p. 39.
- Meadow—
 fescue. See *Festuca pratensis*.
 soft grass. See *Velvet grass*.
 sweet. See *Spiraea venusta*.
- Meadows, natural, R 1900, pp. 51, 64; 1901, pp. 267, 278; 1902, p. 267.
- Meal, importation, market value, B 6, p. 20.
- Meat—
 importation, market value, B 6, p. 20; B 48, p. 21; R 1900, p. 40; 1903, p. 340; 1905, p. 23; 1914, p. 54.
 laws governing sale, C 1b, p. 17.
- Medicago*—
 falcata. See Alfalfa, yellow-flowered.
 lupulina, R 1923, p. 11.
 ruthenica, R 1911, p. 43; 1912, pp. 36, 64; 1913, p. 41; 1914, p. 56.
 sativa. See Alfalfa, purple-flowered.
- Medicinal plants, B 48, p. 16.
- Melica subulata*, B 48, p. 28; R 1904, p. 282.
- Mellilotus*—
 alba. See Clover, white, sweet.
 officinalis. See Clover, yellow, sweet.
- Melons at—
 Holy Cross, R 1905, p. 85.
 Sitka, R 1917, p. 8; 1921, p. 10.
 Tana Hot Springs, B 7, p. 16; R 1908, p. 21.
- Menyanthes trifoliata*. See Buck beans.
- Mertensia paniculata*, R 1908, p. 57.
- Metals, natural sources, R 1901, p. 308.
- Metakatla, B 48, p. 4.
 See also Farming.
- Mice, crops injured, R 1900, p. 42; 1901, p. 272; 1904, p. 349; 1915, p. 83; 1921, p. 36.
- Microsphaera alni* on alders, R 1915, p. 40.
- Mignonette culture—
 Copper Center, R 1904, p. 331.
 Rampart, R 1916, p. 37; 1917, p. 57; 1918, p. 54; 1920, p. 35.
 Sitka, B 82, p. 22; R 1902, p. 243; 1910, p. 29; 1914, p. 26; 1915, p. 38; 1920, p. 17; 1921, p. 14; 1927, p. 12.
- Mildew on—
 brush fruits, R 1915, p. 40; 1916, p. 6.
 greenhouse plants, R 1920, p. 20.
 roses, R 1915, p. 40.
- Milfoil. See *Achillea millefolium*.
- Milk—
 flavor, potatoes affect, B 9, p. 16.
 imported, value, B 6, p. 20; C 1b, p. 12; C 1c, p. 23; R 1903, p. 340; 1907, p. 20; 1923, p. 19.
 local dairy, value, C 1b, p. 12; C 1c, p. 23; R 1904, p. 331; 1907, p. 16; 1914, p. 33; 1929, pp. 44, 45.
 pasteurized, for calves, B 5, pp. 5, 9; B 8, p. 8.
 shed, R 1919, p. 63.
 tuberculous cows', distribution, R 1919, p. 9.
 yield—
 cattle dehorning effect, R 1925, p. 19.
 linseed-meal-mangel effect, R 1928, p. 25.
 peas effect, R 1903, p. 349.
 records. See Dairy yields.
- Mill—
 feed, imported, B 6, p. 20; R 1911, p. 31; 1923, p. 19.
 work in Alaska, C 1b, p. 10.
- Miller House weather data, R 1909, p. 80; 1910, p. 84; 1911, p. 82; 1912, p. 93; 1913, p. 78.
- Millet—
 culture—
 Copper Center, R 1906, p. 42;
 1907, p. 56.
 Rampart, R 1908, p. 39; 1917, p. 53.
 Sitka, R 1900, p. 21; 1928, p. 9.
 Wood Island, R 1902, p. 258; 1903, p. 363.
 fertilization, R 1902, p. 261.
 Russian, R 1900, p. 21.
- Mimulus*—
 tigrinus, R 1918, p. 53.
 tigrinus grandiflorus, R 1915, p. 38.
Mine Harbor weather data, R 1904, p. 358.
 See also Farming.
- Minerals of Alaska, B 48, p. 22; R 1902, p. 267.
- Mines, school of, C 1c, p. 21.
- Mining industry, B 48, pp. 3, 23, 25; C 1b, p. 10; R 1900, p. 59; 1914, p. 43; 1922, p. 1.
- Mink protection in Alaska, C 1b, p. 18.
- Minook Creek, R 1901, p. 274.
- Mint—
 cultural directions, B 2, p. 46.
 growing regions, R 1902, p. 248; 1915, p. 37; 1928, p. 8.
 See also Peppermint; Spearmint.
- Mirabilis* spp. See Four o'clock.
- Mistletoe on hemlock, R 1915, p. 41.
- Mock orange culture, Sitka, R 1917, p. 15; 1919, p. 27.
- Mohair production, value, B 82, p. 40; R 1903, p. 367.
- Moisture—
 conservation, R 1919, pp. 14, 44; 1920, p. 8; 1921, p. 4; 1923, p. 3; 1924, p. 9; 1925, p. 9.
 See also Soil fertility.
 content of grain. See Grain.
 evaporation, field and forest, R 1915, p. 56.
 See also Evaporation.
- Molasses, sugar beet, R 1918, pp. 13, 51.
“Molka” berries, B 48, p. 15; B 62, p. 49.
- Moneses uniflora*, R 1908, p. 58.
- Money crops, R 1916, p. 16; 1917, p. 68.
- Monkeyflower. See *Mimulus tigrinus grandiflorus*.
- Monkshood, culture, Sitka, R 1917, p. 17.
- Montauk Point. See Farming.
- Moose—
 domesticated, B 62, p. 38.
 habitats, B 48, p. 31; R 1900, p. 34; 1905, p. 17; 1929, p. 41.
 meat, market value, C 1b, p. 12.
 protection, C 1b, p. 17.
- Morning-glories, culture at—
 Fairbanks, R 1912, p. 56.
 Rampart, R 1918, p. 54.
 Sitka, R 1915, p. 38.
- “Morong.” See Dewberry.
- “Moruska.” See “Molka” berries.
- Mosaic disease of potatoes, R 1928, pp. 21, 22.
- Mosquito Fork, R 1901, pp. 288, 301; 1905, p. 85.
- Mosquitoes in Alaska, B 62, pp. 30, 35; 1900, p. 57; 1929, pp. 19, 25, 39.
- Moss—
 as calk, B 1, p. 14.
 as ground ice preservative, R 1900, p. 56.
 growing regions, B 2, p. 12; B 7, p. 5; R 1900, p. 56.
 See also Sphagnum moss.
- Moss lands—
 burning, clearing, B 1, pp. 8, 9; B 6, p. 6; C 1a, p. 27; R 1909, pp. 18, 19; 1914, p. 55.
 traveling difficulties, B 48, p. 6.
 water-holding capacity, B 1, p. 13; B 82, p. 27.
- Moss pink. See *Phlox subulata*.
- Mossberry growing regions, R 1902, p. 267.
- Mount Katmai volcanic eruption, B 5, p. 2; B 8, p. 6; R 1912, pp. 38, 67.

- Mount St. Elias, R 1904, p. 270.
 Mountain spinach, cultural directions, B 2, p. 28.
See also Spinach.
- Mountains, climate affected, B 2, pp. 10, 12; B 6, p. 4; B 62, p. 41.
- Mourning bride. *See* Scabiosa.
- Muir Glacier, R 1900, p. 37.
- Mulberry culture, Matanuska, R 1929, p. 24.
- Mullein pink. *See* *Agrostemma coronaria*.
- Mumford's germ for inoculating plants, R 1913, pp. 57, 58.
- Muriate of potash, fertilizing value, R 1914, p. 70.
- Murres, protection in Alaska, C 1b, p. 17.
- Mushrooms—
 edible, B 48, p. 16.
 growth, Fortmann Hatchery, R 1907, p. 75.
- Muskmelon culture, Rampart, R 1918, p. 49; 1919, p. 42; 1920, p. 34.
- Muskrat protection in Alaska, C 1b, p. 18.
- Muslin as frame covering, B 7, p. 13.
- Mustard—
 black, B 2, p. 26.
 cultural directions, B 7, p. 17; R 1901, p. 338.
- culture—
 Copper Center, R 1904, p. 330; 1908, p. 51.
 Kenai, R 1902, p. 248; 1903, p. 357; 1906, p. 50.
 Rampart, R 1909, p. 50; 1911; p. 45.
 Sitka, B 62, p. 14; R 1910, p. 18; 1919, p. 23.
 Skagway, B 62, p. 16.
- Mutton—
 exported from Iceland in 1891, B 48, p. 23.
 importation, value, B 6, p. 20; R 1923, p. 19.
- Mycosphaerella*—
fragariae on strawberries, R 1915, p. 41.
pinodes on peas, R 1915, p. 41.
- Myosotis*—
palustris. *See* Forget-me-nots.
palustris semperflorens, R 1911, p. 23.
- Nails, market value, C 1a, p. 16.
- Naknek weather data, R 1919, p. 86; 1929, p. 54.
- Narardotilites, location, R 1902, p. 289.
- Narcissus*—
polyanthus, R 1910, p. 29.
 spp. *See* Daffodils.
- Narcissus culture—
 Fairbanks, R 1927, p. 28.
 Sitka, C 2, p. 1; R 1910, p. 29; 1920, p. 17; 1924, p. 8; 1926, p. 8; 1927, p. 13; 1929, p. 7.
- Nasturtium armoracia*. *See* Horseradish.
- Nasturtium—
 culture—
 Kenai, R 1905, p. 65.
 Rampart, R 1905, p. 60.
 Sitka, B 82, p. 22; R 1902, p. 243; 1910, p. 29; 1914, p. 26; 1915, p. 38; 1920, p. 17; 1926, p. 10.
 dwarf. *See* *Tropaeolum minus*.
- National Canners' Association, R 1925, p. 25.
- National forests of Alaska, C 1a, p. 20; C 1b, p. 7; C 1c, p. 22.
- Neal, J. W., report on Alaska. *See* Report on Copper River station.
- Near Island. *See* Land reservation.
- Nectaria cinnabarina* host plants, R 1914, p. 27.
- Nematodes on potatoes, B 48, p. 18.
- Nemophila culture—
 Copper Center, R 1904, p. 331; 1905, p. 54.
- Fairbanks, R 1912, p. 56.
- Kenai, R 1905, p. 65.
- Sitka, R 1910, p. 29; 1920, p. 17.
- Nenana—
 commercial dairying, R 1929, p. 45.
 weather data, B 7, p. 4; C 1b, p. 3; R 1917, p. 94; 1918, p. 100; 1919, p. 86; 1920, p. 72; 1921, p. 55; 1922, p. 21; 1923, p. 34; 1924, p. 44.
See also Frost-free period; Topography.
- Nicotofume papers, insecticidal value, R 1920, p. 20.
- Nicotiana* spp. *See* Tobacco.
- Nicotine paper, insecticidal value, R 1920, p. 20.
- Niggerhead—
 grass, R 1901, pp. 286, 300; 1929, p. 19.
 lands, value, R 1901, p. 300.
- Night, Arctic. *See* Arctic.
- Ninilchick commercial dairying, R 1929, p. 45.
- Ninilchick, settlement, B 82, p. 34.
- Nitrate of—
 lime. *See* Calcium nitrate.
 soda. *See* Sodium nitrate.
- Nitrates as fertilizer, B 2, p. 22.
- Nitrogen—
 fixing culture, vetch, R 1925, p. 25.
 sources, R 1913, p. 17.
- Nizina weather data, R 1908, p. 80; 1909, p. 79; 1910, p. 84; 1911, p. 78.
- Noatak weather data, R 1918, p. 100.
- Nolan. *See* Farming.
- None—
 growing conditions, B 7, p. 5; R 1900, p. 65.
- weather data, R 1900, p. 81; 1902, p. 304; 1907, p. 97; 1908, p. 79; 1909, p. 82; 1910, p. 84; 1911, p. 82; 1912, p. 94; 1913, p. 78; 1914, p. 94; 1915, p. 98; 1916, pp. 82, 84, 89; 1917, p. 94; 1918, p. 100; 1919, p. 86; 1920, p. 72; 1921, p. 55; 1922, p. 22; 1923, p. 34; 1924, p. 44; 1925, p. 38; 1926, p. 37; 1927, p. 36; 1928, p. 36; 1929, p. 54.
- See also* Farming; Frost-free period; Survey.
- Noorvik weather data, R 1918, p. 101; 1921, p. 55; 1922, p. 22; 1923, p. 35; 1924, p. 45; 1925, p. 38; 1926, p. 38; 1927, p. 36.
- North American Commercial Co., R 1900, p. 66.
- North American Transportation and Trading Co., R 1900, pp. 54, 57, 59.
- North Carolina, precipitation, B 48, pp. 8, 9.
- North Fork weather data, R 1906, p. 74; 1907, p. 94; 1908, p. 77.
- North v. south slopes for crops, B 6, p. 8; B 9, p. 9; R 1914, p. 53; 1920, p. 8; 1926, p. 13.
- Northern lights. *See* Arctic day; Auroras; Parhelion.
- Norway—
 agriculture, B 48, p. 25.
 weather data, B 48, pp. 7, 8.
- Nuklukayet—
 location, B 62, p. 50.
 weather data, B 62, p. 51.
- Nulato—
 location, R 1901, p. 274.
 weather data, C 1b, p. 3; R 1918, p. 101; 1919, p. 87; 1920, p. 72; 1921, p. 56; 1922, p. 22; 1923, p. 35.
- See also* Farming.
- "Number Three" station, R 1901, p. 295.
- Nursery—
 Copper Center, R 1905, p. 54; 1906, p. 38.
- Fairbanks, R 1929, p. 17.
- Matanuska, R 1918, p. 81; 1919, p. 75; 1920, p. 57.
- Rampart, R 1907, p. 49; 1908, p. 42; 1911, p. 44.
- Sitka, R 1902, p. 242; 1903, p. 328; 1905, p. 8; 1909, p. 8; 1913, p. 12; 1914, p. 16.

Nursery—Continued.

stock—

distribution. *See* Seed and plant distribution
spraying, R 1905, p. 8.
transportation. *See* Transportation.

Nushagal weather data, R 1902, p. 304; 1904, p. 359; 1905, p. 98; 1916, p. 82.

See also Farming.

Oak trees, culture, Sitka, R 1918, p. 30.

Oat hay—

and silage production, B 3, pp. 9, 10; R 1909, p. 61; 1910, pp. 45, 62; 1911, p. 52; 1912, p. 32; 1913, pp. 49, 52, 56; 1914, p. 70; 1915, p. 74; 1917, pp. 29, 67, 83; 1918, pp. 76, 77; 1919, pp. 51, 69; 1920, p. 23; 1921, p. 34.

cost of production, R 1924, p. 12.

feeding value, yield, R 1907, pp. 16, 63. market value, R 1912, p. 48; 1916, p. 51.

Oatgrass, tall meadow—

Copper Center, R 1902, p. 269; 1903, p. 350; 1905, p. 51; 1908, p. 54.

Kenai, R 1902, p. 252; 1903, pp. 359, 360; 1904, p. 308; 1905, p. 62; 1906, p. 49.

Rampart, R 1906, p. 47; 1907, p. 47; 1908, p. 39.

Sitka, B 82, p. 19; R 1902, p. 241; 1903, pp. 334, 335; 1904, p. 300.

Wood Island, R 1902, p. 258.

Oatmeal—

importation, B 6, p. 20; R 1907, p. 20. market value, R 1903, p. 341.

Oats—

and barley for feed. *See* Barley. and peas for feed, B 82, p. 19; R 1901, p. 246; 1916, p. 64; 1918, p. 86; 1920, p. 59; 1924, p. 12; 1925, pp. 13, 20; 1927, p. 14; 1929, p. 25.

and vetch for feed, R 1913, pp. 43, 56; 1920, p. 59; 1924, pp. 12, 18; 1925, pp. 13, 20, 25; 1927, p. 28; 1928, p. 21; 1929, pp. 8, 15, 24.

and vetch in rotation, R 1929, p. 25. and wheat for feed, R 1914, p. 70.

as cattle feed, R 1929, p. 30.

barley, and vetch for feed. *See* Barley, oats, and vetch.

cost of—

curing, R 1918, p. 77.

production, R 1925, p. 13.

culture—

Copper Center, B 6, p. 3; R 1903, p. 346; 1904, p. 319; 1905, p. 48; 1906, p. 41; 1907, pp. 27, 56; 1908, pp. 49, 53.

Fairbanks, R 1908, p. 46; 1909, pp. 21, 53–56; 1910, p. 55; 1911, p. 51; 1912, pp. 30, 51; 1913, pp. 29, 30; 1914, p. 45;

1915, p. 47; 1916, p. 43; 1917, pp. 62, 63; 1918, pp. 59, 62; 1919, p. 48; 1920, pp. 39; 1921, p. 24; 1922, pp. 3, 4; 1923, p. 7; 1924, p. 18; 1925, p. 22; 1926, p. 15; 1927, p. 26; 1928, pp. 10, 12; 1929, pp. 11, 12.

Kenai, B 6, p. 3; B 82, p. 31; R 1901, p. 258; 1902, p. 250; 1903, p. 358; 1904, pp. 303, 304, 305; 1905, p. 61; 1907, p. 25.

Kodiak, B 82, p. 36; R 1911, p. 54; 1913, pp. 50, 51, 56; 1915, p. 74; 1916, p. 64; 1917, p. 75; 1918, p. 86; 1920, p. 59; 1927, p. 14.

Matanuska, C 1a, p. 27; R 1918, p. 75; 1919, p. 69; 1920, p. 54; 1921, p. 18; 1922, pp. 3, 4; 1923, p. 7; 1924, p. 11; 1925, pp. 10, 13; 1926, p. 20; 1927, p. 16; 1928, pp. 20, 22; 1929, p. 24.

Oats—Continued.

culture—continued.

Rampart, B 6, p. 3; R 1901, p. 270; 1902, p. 255; 1904, p. 332; 1905, p. 57; 1906, p. 45; 1907, pp. 30, 44–47; 1908, pp. 35, 37; 1909, pp. 14–17, 45, 47; 1910, pp. 31, 48; 1911, pp. 25, 36–37; 1912, pp. 35, 62; 1913, p. 44; 1914, pp. 36, 61; 1915, pp. 19, 20, 57, 64; 1916, pp. 18, 29, 32; 1917, pp. 25, 49; 1918, p. 41; 1919, pp. 11, 36; 1920, pp. 6, 27; 1921, pp. 5, 34, 38; 1924, p. 26.

Sitka, B 62, p. 11; B 82, p. 18; R 1900, pp. 19–21; 1901, p. 244; 1902, p. 237; 1903, p. 332; 1909, p. 42; 1928, p. 9.

Skagway, B 6, p. 1; B 62, p. 17. under Russian régime, B 48, p. 18. Wood Island, R 1902, pp. 256, 257, 260, 261; 1903, p. 363; 1904, p. 333.

diseases, B 6, p. 15; R 1915, p. 74; 1924, p. 18; 1925, pp. 11, 22.

feeding value, R 1928, pp. 18, 19. fertilization, B 2, p. 15; B 7, p. 6;

R 1900, p. 27; 1901, p. 244; 1904, pp. 303, 319; 1910, pp. 33, 49; 1911, p. 38; 1912, pp. 49, 62, 69, 70; 1913, pp. 50, 51, 58; 1914, p. 70; 1918, p. 86; 1925, p. 13.

Finland, R 1902, p. 237; 1916, p. 18. for sheep, R 1914, p. 76; 1917, p. 79; 1920, p. 61; 1921, p. 23; 1929, p. 31.

germination of immature, R 1924, pp. 22, 23.

growing regions in Alaska, B 1, pp. 7, 8; B 6, p. 1; C 1b, p. 12; C 1c, p. 10.

growth in northern Europe, B 48, p. 23.

head-row selection, R 1918, p. 62.

hybridization, B 6, pp. 29, 35; R 1915, p. 64; 1916, p. 29; 1917, p. 25; 1918, p. 42; 1920, p. 27; 1921, p. 38; 1922, p. 5; 1929, p. 14.

importation, market value, B 6, p. 20; C 1b, p. 12; C 1c, p. 23; R 1903, p. 341; 1923, p. 19; 1924, p. 12; 1925, p. 13.

in rotation, B 6, p. 19; R 1919, p. 51; 1920, p. 42; 1925, pp. 14, 24; 1927, p. 18; 1929, p. 25.

increase plat results, R 1918, p. 63.

insect pests, R 1928, p. 21.

moisture content differences, R 1929, p. 12.

Norwegian, R 1900, p. 20.

on new land, B 1, p. 15; B 82, p. 23;

R 1900, p. 27; 1901, p. 244.

on volcanic soil, R 1912, p. 69.

peas, and vetch for feed, R 1924, p. 12.

rabbit damaged, R 1913, p. 31.

Russian, R 1900, pp. 20, 21; 1901, p. 270; 1903, p. 346; 1914, p. 46. spring, R 1903, p. 358.

Swedish, B 82, p. 18; R 1900, p. 20;

1916, pp. 21, 33.

variety tests, B 6, p. 26; R 1910, p. 48;

1911, p. 40; 1916, p. 67; 1918, p. 60;

1919, p. 50; 1920, p. 41; 1924, p. 13;

1925, p. 11; 1926, p. 21; 1928, p. 13.

O'Brien Creek, R 1901, p. 299.

Enothera speciosa, R 1910, p. 28.

Offal as fertilizer, R 1918, p. 35.

Ogavik, R 1900, p. 35.

Oil—

cake meal—

as cattle feed, R 1908, p. 62.

as sheep feed, R 1916, p. 61.

importation, B 6, p. 20.

factory, B 82, p. 46.

strike, R 1902, p. 268.

Okra, growth in Alaska, B 7, p. 16.

Olive, Siberian wild, R 1902, p. 243; 1903, p. 330; 1904, p. 296.

- Onion—
perennial-top, culture, R 1921, p. 11.
potato, cultural directions, B 2, p. 38.
- Onions—
cultural directions, B 2, p. 36; B 7,
p. 24; R 1901, p. 339.
- culture—
Copper Center, R 1903, p. 351;
1904, p. 330; 1907, p. 52; 1908,
pp. 51, 52; 1911, p. 66.
Fairbanks, R 1926, p. 19; 1928,
p. 14.
Kenai, B 82, p. 33; R 1901, p. 263;
1902, p. 248; 1903, p. 356;
1904, p. 306; 1905, p. 64; 1906,
p. 50.
Kodiak, B 82, p. 38; R 1919, p.
59; 1920, p. 62.
Rampart, R 1905, p. 58; 1906,
p. 46; 1907, p. 48; 1908, p. 42;
1909, p. 50.
Sitka, B 62, p. 14; B 82, p. 20; R
1900, p. 23; 1902, p. 242;
1909, p. 42; 1910, p. 18; 1914,
p. 22; 1915, p. 36; 1917, p. 9;
1918, p. 26; 1919, p. 23; 1920,
p. 19; 1921, p. 10; 1924, p. 4;
1925, p. 5; 1926, p. 5; 1927,
p. 11; 1928, p. 7; 1929, p. 6.
Skagway, B 62, p. 16.
Wood Island, R 1903, p. 365.
importation B 6, p. 20.
market value, R 1916, p. 76.
See also specific kinds.
- Oospore scabie* on potatoes, B 9, p. 6;
B 48, p. 18; R 1915, p. 40.
- Ophir. *See Farming.*
- Orach. *See Mountain spinach.*
- Oranges, market value, R 1912, p. 78.
- Orca weather data, B 82, p. 53; R 1900,
p. 79; 1902, pp. 299, 300; 1903, p. 385;
1904, p. 357; 1905, p. 96; 1906, p. 71;
1907, p. 90; 1908, p. 75; 1916, p. 82.
- Orchard establishment, Matanuska, R 1929,
pp. 2, 23.
- Orchard grass—
culture—
Copper Center, R 1902, p. 269;
1903, p. 349; 1904, p. 329;
1905, p. 51; 1906, p. 38; 1907,
p. 58; 1908, p. 55.
Fairbanks, R 1909, p. 56; 1910,
p. 57.
Kenai, R 1902, p. 252; 1903, pp.
359, 360; 1904, pp. 307, 309;
1905, pp. 62, 63; 1906, p. 49.
Matanuska, R 1919, p. 71.
Rampart, R 1906, p. 47; 1907, p.
47; 1908, p. 39.
Sitka, R 1902, p. 241; 1903, p.
334; 1904, p. 301.
Wood Island, R 1902, p. 259.
growing regions, B 48, pp. 4, 6, 13, 31.
- Orchis rotundifolia*, R 1908, p. 57.
- Orkney Islands—
agricultural notes, B 48, p. 25.
weather data, B 48, pp. 7, 8.
- Ornamentals, diseases, R 1914, p. 26.
- Ornithopus sativus*, B 82, p. 19.
- Oro Tino weather data, R 1909, p. 82.
- Otter—
industry, B 48, pp. 3, 25; B 62, p. 44.
protection, C 1b, p. 18.
- Ougavig. *See Farming.*
- Oxen v. horses for field work, B 1, p. 14;
B 62, p. 46; R 1901, p. 251.
- Oxslip. *See Primula elatior.*
- Oxycoccus oxyacoccus*, R 1903, p. 330; 1904,
p. 296.
See also Cranberries.
- Oyster plant. *See Salsify.*
- Oyster shells, ground, for chickens, R 1929,
p. 32.
- Oysters, market value, R 1903, p. 341.
- Pacific Coast Pilot, B 62, p. 50.
- Pacific Steam Whaling Co., B 62, p. 42;
B 82, p. 30.
- Packing charges. *See Charges.*
- Paeonia* spp. *See Peonies.*
- Paint, market value, C 1a, p. 16.
- Painting buildings, etc., need of frequent,
R 1915, p. 70.
- Panginig Creek, R 1928, p. 29.
- Panicularia*—
americana, R 1904, p. 283.
pauciflora, R 1904, p. 282.
- Pansies—
cultural directions, R 1917, p. 19.
culture—
Copper Center, R 1904, p. 331;
1905, p. 54.
Fairbanks, R 1914, p. 48; 1915,
p. 52; 1916, p. 49; 1917, p. 70.
Kenai, R 1905, p. 65.
Rampart, R 1905, p. 60; 1908, p.
43; 1916, p. 37; 1918, p. 52;
1919, p. 43.
Sitka, B 82, p. 21; R 1902, p.
243; 1910, p. 27; 1915, p. 38;
1921, p. 14; 1926, p. 10.
Wood Island, R 1903, p. 366.
slugs on, R 1910, p. 27.
- Pansy wheel, floral, description, R 1914,
p. 48.
- Papaver*—
nudicaule. *See Poppy, Iceland.*
orientale. *See Poppy, oriental.*
- Paper—
as soil evaporation preventive, R 1917,
p. 16.
mulch, vegetable yield affected, R 1929,
p. 18.
pulp mills, C 1b, p. 10.
shields for plants. *See Tar paper.*
- Paraffin as coating, B 7, p. 13.
- Parheilia, at Rampart, R 1916, p. 23; 1919,
p. 30.
- Parnassia palustris*, R 1908, p. 57.
- Parsley—
cultural directions, B 2, p. 29; B 7,
p. 20; R 1917, p. 11.
culture—
Copper Center, R 1904, p. 330;
1907, p. 52; 1908, p. 51.
Fairbanks, R 1915, p. 51.
Kenai, R 1902, p. 248; 1903, p.
356; 1904, p. 306; 1905, p. 64;
1906, p. 50.
Kodiak, R 1915, p. 76.
Rampart, R 1908, p. 42; 1909, p.
50; 1919, p. 12.
Sitka, B 62, p. 14; B 82, p. 20;
R 1903, p. 326; 1904, p. 299;
1910, p. 19; 1912, p. 23; 1914,
p. 23; 1915, p. 36; 1918, p. 26;
1921, p. 11; 1924, p. 4; 1925,
p. 5; 1927, p. 11; 1928, p. 7;
1929, p. 6.
Wood Island, R 1902, p. 257;
1903, p. 365.
seed production, R 1919, p. 39.
- Parsnips—
cultural directions, B 2, p. 28; B 7,
p. 19; R 1901, p. 339.
culture—
Copper Center, R 1903, p. 352;
1904, p. 330; 1907, p. 51; 1908,
p. 50; 1911, p. 66.
Fairbanks, R 1912, p. 55; 1917, p.
70; 1918, p. 68; 1921, p. 29;
1928, p. 14.
Kenai, B 82, p. 33; R 1902, p.
248; 1903, p. 357; 1904, p.
306; 1905, p. 65.
Kodiak, B 82, p. 38.
Matanuska, R 1918, p. 80; 1919,
p. 76.
Rampart, R 1905, p. 59; 1906, p.
46; 1907, p. 48; 1908, p. 42;
1915, p. 68; 1916, p. 36; 1917,
p. 56; 1919, p. 12; 1920, p. 33;
1921, p. 44.
Sitka, B 62, p. 14; B 82, p. 20;
R 1900, p. 23; 1902, p. 242;
1905, p. 38; 1909, p. 41; 1910,
p. 19; 1914, p. 22; 1915, p. 36;
1918, p. 26; 1919, p. 23; 1921,
p. 11; 1924, p. 4; 1925, p. 5;
1927, p. 11; 1928, p. 7.

- Parsnips—Continued.
culture—continued.
 Wood Island, R 1902, p. 257.
 market value, R 1914, p. 81; 1916, p. 76.
 poisonous, R 1904, pp. 271, 273; 1907, p. 73; 1916, p. 61.
 wild, B 48, p. 15.
- Pashiksha Bay—
location, R 1929, p. 43.
See also Survey.
- Pasture lands. *See Grazing lands; Meadows.*
- Pasture, place in rotation, R 1926, p. 16.
- Paxson weather data, R 1918, p. 101.
- Pea—
beach, as food, B 48, p. 15.
beach, as sand binder, B 62, p. 49.
beach, disease, B 48, p. 18.
beach, growing regions, R 1904, p. 284.
beach, introduction at Rampart, R 1917, p. 38.
curing rack, B 6, p. 16.
everlasting, R 1911, p. 23.
flat, R 1901, p. 262; 1902, p. 249; 1903, pp. 334, 360.
hay production, R 1904, p. 307; 1918, p. 66; 1919, p. 52; 1921, p. 24.
inoculation, R 1906, p. 51.
swamp, B 48, p. 28; R 1904, p. 284; 1917, p. 38.
tree, Siberian, R 1905, p. 34; 1906, p. 30; 1907, p. 41; 1908, p. 32; 1909, p. 39; 1910, p. 26; 1915, p. 37; 1917, p. 14; 1918, p. 31; 1921, p. 14.
- Peach bells. *See Campanula persicifolia.*
- Peach culture, Sitka, R 1917, p. 12; 1921, p. 15; 1922, p. 12; 1924, p. 7; 1926, p. 4; 1927, p. 7; 1928, p. 3.
- Peaches, market value, R 1912, p. 78.
- Peanuts, R 1904, p. 349.
- Pear—
Chinese, R 1919, p. 26.
culture, Matanuska, R 1929, p. 24.
culture, Sitka, R 1917, p. 12; 1918, p. 28; 1919, p. 26; 1920, p. 16; 1921, p. 13; 1922, p. 12; 1923, p. 16; 1924, p. 7; 1927, p. 7; 1928, p. 3.
- Pearl Island. *See Farming.*
- Peas—
and barley as feed. *See Barley and peas.*
and oats as feed. *See Oats and peas.*
and rye as feed, R 1923, p. 9.
"Alaska," B 6, p. 19; B 7, p. 20; R 1910, p. 19; 1917, pp. 27, 37; 1919, p. 12; 1920, p. 22; 1922, p. 6; 1926, p. 5.
as cattle, goat, and horse feed, R 1903, p. 349; 1923, p. 9; 1929, p. 30.
as green manure, B 6, pp. 18, 19; B 7, p. 10; R 1918, pp. 13, 66; 1919, p. 38; 1921, p. 30; 1926, p. 16.
as hog feed, R 1917, p. 65; 1918, p. 78; 1919, p. 52; 1924, p. 25.
canning, R 1910, p. 53; 1928, p. 10; 1929, p. 18.
cost of production, R 1924, pp. 13, 14, 23.
cultural directions, B 2, p. 29; B 7, p. 20; R 1901, p. 339.
culture—
 Copper Center, R 1903, pp. 349, 351; 1904, p. 330; 1905, pp. 12, 51; 1906, p. 37; 1907, p. 51; 1908, p. 50; 1911, p. 66.
 Fairbanks, R 1912, p. 55; 1913, p. 34; 1914, p. 48; 1915, p. 51; 1916, p. 48; 1917, pp. 65, 70; 1918, pp. 66, 68; 1919, p. 52; 1920, pp. 42, 45; 1921, pp. 24, 29, 30; 1924, p. 23; 1925, p. 24; 1926, pp. 16, 19; 1927, p. 26; 1929, p. 15.
 Kenai, B 82, p. 33; R 1901, p. 263; 1902, p. 248; 1903, p. 356; 1904, pp. 306, 307; 1905, p. 64; 1906, p. 50.
- Peas—Continued.
culture—continued.
 Kodiak, B 82, p. 38; R 1915, p. 76; 1916, pp. 64, 65; 1917, p. 75; 1918, p. 86; 1919, p. 59; 1920, pp. 59, 62; 1927, p. 14; 1919, pp. 72; 76; 1920, p. 56; 1921, p. 21; 1923, p. 11; 1924, pp. 13, 16; 1927, p. 18.
Rampart, R 1905, p. 58; 1906, p. 46; 1907, p. 48; 1908, pp. 39, 42; 1909, p. 49; 1910, p. 53; 1911, pp. 26, 44; 1913, p. 47; 1914, p. 38; 1915, p. 68; 1916, pp. 22, 35; 1917, pp. 27, 37, 56; 1918, pp. 37, 49; 1919, pp. 12, 38, 40; 1920, pp. 22, 32, 34; 1921, pp. 35, 44; 1922, p. 6; 1923, p. 11; 1924, p. 26.
Sitka, B 62, p. 14; B 82, p. 20; R 1900, p. 23; 1902, p. 242; 1903, p. 326; 1904, p. 299; 1905, p. 38; 1906, p. 34; 1907, p. 40; 1909, p. 42; 1910, p. 19; 1911, p. 20; 1912, p. 20; 1915, p. 35; 1917, p. 9; 1918, p. 27; 1919, p. 22; 1920, p. 19; 1921, p. 11; 1925, p. 6; 1926, p. 5; 1927, p. 11; 1928, pp. 7, 9; 1929, p. 6.
Skagway, B 62, p. 16.
Wood Island, R 1902, p. 257; 1903, pp. 363, 365; 1904, p. 334.
- diseases, R 1914, p. 27; 1915, p. 41; 1919, p. 22.
field, B 82, p. 33; R 1903, p. 349; 1904, p. 307; 1908, p. 39; 1917, pp. 38, 65; 1918, pp. 66, 78; 1919, pp. 38, 72; 1920, p. 56; 1921, p. 35; 1923, p. 11; 1924, p. 13; 1926, p. 16; 1928, p. 10.
garden, B 62, p. 14; B 82, p. 33; R 1902, p. 248; 1903, pp. 326, 351; 1904, pp. 299, 330; 1905, p. 38, 51, 58; 1906, p. 37; 1907, p. 48; 1908, pp. 42, 50; 1909, p. 49; 1911, p. 20, 44, 66; 1914, p. 20; 1915, pp. 35, 68; 1916, p. 35; 1917, pp. 9, 56; 1918, p. 49; 1919, pp. 40, 76; 1920, pp. 34, 42; 1927, p. 11; 1928, p. 7.
growing regions, B 1, p. 7; B 48, pp. 17, 19, 31; B 82, p. 11; C 1b, p. 13.
in rotation, B 6, p. 19; R 1920, p. 42; 1921, p. 30; 1923, p. 13; 1925, pp. 14, 24; 1926, p. 15; 1927, p. 18; 1928, p. 24.
inoculating, R 1905, p. 38; 1917, p. 38.
insect pests, R 1928, p. 21.
lime effects, B 82, p. 23.
market value, R 1914, p. 81; 1916, p. 76; 1924, p. 13.
milk yield affected, R 1903, p. 349.
oats, and vetch as feed. *See Oats, peas, and vetch.*
rate of seeding effect, R 1927, p. 18.
Russian, R 1907, p. 40; 1917, p. 38.
seed production, R 1913, p. 19; 1920, p. 32; 1921, p. 35; 1926, p. 16.
yields, R 1905, p. 38; 1916, p. 35; 1917, pp. 37, 38; 1924, pp. 13, 23; 1925, pp. 24, 25; 1926, p. 16; 1927, pp. 18, 26, 27; 1929, p. 24.
See also Chickpea.
- Peat bog—
draining, B 1, p. 13; B 7, p. 8; B 82, p. 26.
formation, B 7, p. 5; B 82, pp. 26, 27.
- Peat lands, improving, B 82, p. 27.
- Pedicularis euphrasioides*, R 1908, p. 57.
- Pegomyia brassicae* on cabbage, R 1915, p. 41.
- Pelargoniums, R 1919, p. 29; 1921, p. 15.
See also Geranium.
- Pelly River, R 1907, p. 18.
- Pennisetum japonicum*, R 1918, p. 33.
- Pentstemon digitalis*, culture, Sitka, R 1919, p. 27.

- Peonies, culture—**
- Fairbanks, R 1926, p. 19.
 - Sitka, R 1911, p. 23; 1915, p. 38; 1916, p. 10; 1918, p. 33; 1921, p. 14; 1927, p. 12.
- Peppergrass culture, Golovin, R 1903, p. 377.**
- See also* Cress.
- Peppermint culture, Sitka, B 7, p. 32; R 1914, p. 24.**
- Peppers, culture—**
- Rampart, R 1918, p. 50; 1920, p. 34.
 - Sitka, R 1917, p. 8.
- Perennials, cultural directions, R 1917, pp. 15, 16.**
- Petasites sagittata, R 1908, p. 57.**
- Petersburg—**
- commercial dairying, R 1929, p. 45.
 - weather data, R 1904, p. 356; 1905, p. 95; 1927, p. 36.
- See also* Farming.
- "Pete's Place," R 1901, p. 285.**
- Petrels, protection, C 1b, p. 17.**
- Pe-tsai. *See* Chinese cabbage.**
- Petunias, culture—**
- Fairbanks, R 1915, p. 52; 1916, p. 49.
 - Rampart, R 1916, p. 37; 1918, p. 52.
 - Sitka, B 82, p. 21; R 1914, p. 26; 1915, p. 38; 1920, p. 17; 1921, p. 14; 1926, p. 10.
- Phaca americana, R 1908, p. 57.**
- Phacelia campanularia, R 1918, p. 33.**
- Phascolus vulgaris, R 1909, p. 43.**
- Pheasantey. *See* Dianthus spp.**
- Philadelphus—**
- coronarius*, R 1919, p. 27.
 - grandiflorus*, R 1919, p. 27.
 - spp., R 1920, p. 16.
- See also* Moch orange.
- Phleum—**
- alpinum*, B 48, p. 13; R 1904, p. 280; 1908, p. 55.
 - pratense*. *See* Timothy.
- Phlox—**
- amœna*, R 1911, p. 23.
 - decussata*, R 1911, p. 23.
 - drummondii*, B 62, p. 37; R 1902, p. 243; 1917, p. 20.
 - drummondii grandiflora*, R 1914, p. 26; 1915, p. 38.
 - subulata*, R 1917, p. 20; 1918, p. 33.
 - suffruticosa*, R 1911, p. 23.
- Phlox culture—**
- Copper Center, R 1904, p. 331.
 - Rampart, R 1918, p. 53; 1919, p. 43.
 - Sitka, B 82, p. 22; R 1910, p. 28; 1911, p. 23; 1914, p. 26; 1915, p. 38; 1916, p. 10; 1917, p. 19; 1920, p. 17; 1927, p. 12.
- Photoperiodism studies, R 1921, p. 31.**
- Phragmidium—**
- occidentale* on thimbleberry, R 1915, p. 41.
 - rubi* on thimbleberry, R 1914, p. 27.
 - sp. on roses, R 1915, p. 41.
- Physalis sp. *See* Ground cherry.**
- Physiological constant for plant growth, B 48, p. 24.**
- Picea—**
- alba*. *See* Spruce, white.
 - sitchensis*. *See* Spruce, Sitka.
- Pickling, by natives, R 1913, p. 62.**
- Picric acid, use as explosive, B 6, p. 7; R 1922, p. 15.**
- Pilgrim Hot Spring. *See* Farming.**
- Pilot Station weather data, R 1925, p. 38; 1926, p. 38.**
- Pines—**
- growing regions, B 2, p. 15; B 7, p. 6; B 48, p. 28; B 82, p. 27; C 1a, p. 26.
 - growth on Wood Island, R 1902, p. 257.
- Pinks—**
- Chinese, B 82, p. 22; R 1915, p. 38; 1926, p. 19.
 - culture, Fairbanks, R 1914, p. 48; 1915, p. 52.
 - Japan. *See* Dianthus *hedewigiae*.
 - royal. *See* Dianthus *nobilis*.
- Pinus contorta. *See* Pines.**
- Pioneers in Alaska—**
- suggestions, B 1.
 - work, R 1901, p. 341.
- Piper, C. V., report. *See* Grassland investigations.**
- Pisareff, Victor, cooperation with stations, R 1914, p. 33; 1920, p. 7.**
- Plantago maritima. *See* Sea lettuce.**
- Planting to escape frost. *See* Frost.**
- Plants—**
- as sand binders, B 62, p. 49; R 1904, pp. 283, 284.
 - collected in Alaska, R 1908, p. 57.
 - deer destroy. *See* Deer.
 - diseases, B 48, p. 18; R 1914, p. 26; 1915, p. 39.
 - distribution. *See* Seed and plant distribution.
 - economic, B 48, pp. 28, 31.
 - for rockwork, R 1917, p. 18; 1926, p. 10.
 - growth in coast region, C 1b, p. 3.
 - heaving. *See* Heaving.
 - house, R 1918, p. 54; 1920, p. 17.
 - insect pests, R 1920, p. 20.
 - notes by De Candolle. *See* De Candolle.
 - protecting in winter, B 4, p. 12; R 1918, pp. 31, 32; 1926, pp. 28, 29; 1927, p. 13.
 - tagging, benefit, R 1915, p. 61.
- Plasmodiophora brassicae—**
- on Cruciferæ, R 1914, p. 27; 1915, p. 39; 1927, p. 10.
 - on potatoes, B 48, p. 18.
- Platinum sand resources, R 1902, p. 268.**
- Platycodon leichlini, R 1911, p. 23.**
- Pleistocene deposits, Copper Basin, R 1902, p. 266.**
- Pleurozyne rotata, R 1908, p. 58.**
- Plovers, protection, C 1b, p. 17.**
- Plowing—**
- deep for capillarity, R 1913, p. 36.
 - fall, B 6, p. 11; B 9, pp. 9, 13; R 1905, p. 13; 1910, p. 37; 1912, p. 28; 1916, p. 24; 1917, p. 58; 1920, p. 51; 1921, pp. 16, 24; 1926, p. 13.
 - spring, B 6, p. 11; R 1913, p. 40.
 - summer, R 1912, p. 49.
- Plows, description, R 1909, pp. 19, 44.**
- See also* Gangplow.
- Plums—**
- culture—
 - Kenai, R 1902, p. 247.
 - Matanuska, R 1929, p. 24.
 - Rampart, R 1911, p. 44.
 - Sitka, R 1903, p. 329; 1904, p. 294; 1905, p. 31; 1906, p. 27; 1907, pp. 22, 36; 1908, pp. 11, 26; 1909, p. 36; 1910, p. 23; 1911, p. 13; 1912, p. 24; 1914, p. 16; 1915, p. 31; 1917, p. 12; 1918, p. 28; 1919, p. 26; 1921, p. 13; 1922, p. 12; 1923, p. 16; 1924, p. 7; 1926, p. 4; 1927, p. 7; 1928, p. 3; 1929, p. 4.
 - diseases, R 1903, p. 329; 1906, p. 28.
 - Russian, R 1915, p. 32.
 - seasonal growth and condition, R 1910, p. 23.
- Pneumonia, in man, C 1b, p. 4.**
- Poa—**
- annua*, B 48, p. 28; R 1904, p. 282.
 - aquatica*. *See* Water grass.
 - arctica*, R 1904, p. 282; 1908, p. 57.
 - caspitosa*. *See* Tussock grass, silver.
 - cenisia*, B 48, p. 28.
 - eminis*, R 1904, p. 282.
 - flavicans*, B 48, p. 28.
 - flabellata*. *See* Tussock grass.
 - glumaris*, B 48, p. 28; B 62, p. 49; R 1904, p. 274; 1917, p. 76.
 - hispidula*, R 1904, p. 282.
 - lanata*, R 1904, p. 282.
 - leptocoma*, R 1904, p. 282.
 - nemoralis*, B 48, p. 28; R 1904, p. 282.
 - palustris*, R 1929, p. 46.
 - pratensis*. *See* Bluegrass, Kentucky.

INDEX TO PUBLICATIONS

39

- Poa**—Continued.
- serotina*, B 48, p. 28.
 - steanantha*, B 48, p. 28; R 1904, p. 282.
 - trivialis*—
 - culture, Copper Center, R 1908, p. 54.
 - growing regions, R 1904, p. 282.
 - Point Agassiz, R 1927, p. 5; 1929, p. 45.
 - Point Barrow—
 - country characteristics, R 1902, p. 292.
 - weather data, B 62, p. 51; R 1903, p. 389; 1904, p. 359; 1911, p. 77; 1916, pp. 82, 85.
 - See also* Day length; Soils.
 - Point Hope weather data, R 1912, p. 94; 1913, p. 78.
 - See also* Farming.
 - Point Retreat. *See* Farming.
 - Point Sherman. *See* Farming.
 - Po'emonium humile*, R 1908, p. 57.
 - Poles, use in drainage and ditching, B 1, p. 12; B 2, p. 21; B 7, p. 9.
 - Pollination by insects, R 1916, p. 28; 1917, p. 36.
 - Polygonanthus* sp., R 1918, p. 33.
 - Polygonaceae, B 48, p. 28.
 - Polygonum sachalinense*, culture—
 - Kensai, R 1902, p. 253; 1903, pp. 359, 360.
 - Wood Island, R 1902, p. 258.
 - Ponies exported from Iceland, B 48, p. 23.
 - Poplar—
 - balsam, B 48, p. 28; R 1900, p. 56; 1902, p. 267.
 - black, R 1918, p. 30; 1922, p. 13.
 - Bolle's silver, R 1915, p. 37; 1917, p. 15; 1918, p. 30; 1919, p. 26; 1922, p. 13.
 - Italian, R 1918, p. 30; 1922, p. 13.
 - Lombardy, B 7, p. 11.
 - growing regions, R 1901, p. 284.
 - Popof Island, B 62, p. 28.
 - Poppies, culture—
 - Copper Center, R 1904, p. 331; 1905, p. 54.
 - Fairbanks, R 1914, p. 48; 1915, p. 52; 1916, p. 49; 1917, p. 70; 1921, p. 31; 1926, p. 19.
 - Kensai, R 1905, p. 65.
 - Rampart, R 1905, p. 60; 1916, p. 37; 1917, p. 57; 1918, p. 53; 1919, p. 43; 1920, p. 35.
 - Sitka, R 1920, p. 17; 1926, p. 10; 1927, p. 12.
 - Wood Island, R 1903, p. 366.
 - Poppy—
 - Burbank, R 1915, p. 38.
 - California, B 82, p. 22; R 1910, p. 28; 1915, p. 38; 1917, p. 20.
 - Iceland, R 1910, p. 27; 1917, p. 19.
 - oriental, R 1910, p. 28; 1915, p. 38; 1916, p. 9; 1917, p. 19.
 - Shirley, R 1910, p. 28; 1915, p. 38.
 - Population. *See* Alaska.
 - Populus*—
 - alba bolleana*. *See* Poplar, Bolle's silver.
 - balsamifera*. *See* Poplar, balsam.
 - deltoides*, R 1922, p. 13.
 - italica*. *See* Poplar, Italian.
 - nigra*. *See* Poplar, black.
 - petrovskiana*, R 1922, p. 13.
 - sauveterre*, R 1922, p. 13.
 - simonii*, R 1922, p. 13.
 - Porcupine City. *See* Farming.
 - Porcupine Creek—
 - notes, R 1901, p. 316.
 - weather data, R 1928, p. 37.
 - Porcupines—
 - as fox feed, R 1929, p. 41.
 - crops attacked, R 1906, p. 60.
 - Pork—
 - importation, B 6, p. 20; R 1905, p. 23; 1923, p. 19.
 - market value, R 1916, p. 50; 1924, p. 25.
 - Porphyra laciniata*. *See* Algae, marine.
 - Port Walter. *See* Farming.
 - Portland Canal, R 1904, p. 270.
 - Portulacaceæ, B 48, p. 28.
 - Portulacas, culture, Sitka, B 82, p. 21.
 - Potassium sulphate, grain affected, B 7, p. 6; R 1910, p. 49.
 - Potatoes—
 - adaptability and importance, R 1910, p. 14; 1911, p. 17; 1912, p. 18; 1917, p. 6; 1922, p. 11; 1925, p. 2.
 - aerial tubers, B 9, p. 5; B 48, p. 18.
 - as cattle feed, R 1920, p. 51.
 - as hog feed, R 1912, p. 56; 1914, p. 51; 1915, p. 16; 1916, p. 47.
 - as sheep feed, R 1921, p. 23.
 - atmospheric conditions effect, R 1913, p. 32.
 - baking effect. *See* Baking.
 - boiling effect, R 1929, p. 17.
 - box for sprouting, R 1914, p. 65.
 - cold wave effect, R 1914, p. 49.
 - cooking qualities, R 1912, pp. 14, 15, 55.
 - cooperative growing and marketing, R 1920, pp. 46, 47; 1927, p. 5.
 - cost of production, R 1911, p. 48; 1921, p. 28; 1924, p. 14; 1925, p. 16.
 - cultural directions, B 2, p. 30; B 9; R 1910, pp. 14, 39; 1911, pp. 17, 47; 1914, p. 49; 1915, p. 75; 1917, p. 7.
 - culture—
 - Coldfoot, R 1904, p. 351; 1905, p. 82; 1907, p. 87.
 - Copper Center, R 1903, p. 352; 1904, p. 330; 1905, p. 53; 1906, p. 37; 1907, p. 52; 1908, p. 51; 1911, p. 66.
 - Fairbanks, R 1908, pp. 16, 44; 1909, pp. 20, 51; 1910, pp. 39, 57; 1911, p. 47; 1912, pp. 30, 49, 53; 1913, pp. 14, 32; 1914, pp. 31, 48; 1915, pp. 16, 52; 1916, p. 46; 1917, p. 68; 1918, pp. 14, 64; 1919, p. 51; 1920, p. 43; 1921, pp. 4, 28; 1923, p. 16; 1924, p. 23; 1925, p. 26; 1926, p. 16; 1927, p. 27; 1928, pp. 10, 14.
 - Kensai, R 1901, p. 262; 1902, p. 249; 1903, p. 355; 1904, p. 309; 1905, p. 65; 1906, p. 50; 1907, p. 26.
 - Kodiak, R 1910, p. 62; 1914, p. 71; 1915, p. 75; 1916, p. 65; 1917, p. 75; 1918, p. 87; 1919, p. 58.
 - Matanuska, C 1a, p. 27; R 1916, p. 68; 1917, p. 6; 1918, pp. 17, 79; 1919, p. 73; 1920, p. 56; 1921, p. 21; 1923, p. 16; 1924, p. 14; 1925, p. 15; 1926, p. 22; 1927, p. 19; 1928, pp. 20, 22; 1929, p. 24.
 - Rampart, R 1901, p. 273; 1905, p. 58; 1906, p. 45; 1907, pp. 30, 47; 1908, p. 40; 1909, pp. 20, 49; 1910, pp. 32, 51, 52; 1911, pp. 26, 41; 1912, pp. 36, 65; 1913, p. 46; 1914, pp. 38, 62; 1915, pp. 21, 68; 1916, p. 34; 1917, p. 54; 1918, pp. 13, 48; 1919, p. 42; 1920, p. 32; 1921, pp. 35, 43, 44; 1923, p. 16; 1924, p. 26.
 - Russian methods, B 9, pp. 3, 8; B 82, p. 50; R 1901, p. 262.
 - Sitka, B 62, p. 15; B 82, p. 21; R 1903, p. 327; 1904, p. 299; 1905, p. 38; 1906, p. 31; 1907, p. 39; 1908, pp. 13, 30; 1909, pp. 39, 40; 1910, p. 14; 1911, p. 17; 1912, p. 14; 1913, p. 10; 1915, p. 32; 1916, p. 8; 1918, p. 24; 1919, p. 23; 1920, pp. 12, 19; 1921, p. 13; 1923, p. 16; 1924, p. 4; 1925, p. 3; 1926, p. 6; 1927, p. 9; 1928, p. 8; 1929, p. 7.
 - Valdez, R 1909, p. 67.
 - Wood Island, R 1902, pp. 256, 257, 260, 261; 1903, p. 366; 1904, p. 334.

Potatoes—Continued.

description, R 1914, p. 63.
 diseases, B 9, pp. 5, 6, 12, 16; B 48, p. 18; R 1907, p. 39; 1915, pp. 40, 53; 1916, pp. 35, 47; 1917, p. 69; 1918, p. 79; 1919, p. 73; 1924, pp. 5, 23; 1926, p. 23; 1928, p. 21.
 drought affects, B 9, pp. 12, 16.
 fertilization, B 7, p. 9; B 9, pp. 9, 13; R 1900, p. 28; 1901, pp. 247, 248; 1903, p. 327; 1908, p. 44; 1909, p. 49; 1910, p. 51; 1911, pp. 26, 40; 1912, pp. 49, 50; 1913, p. 37; 1914, pp. 53, 54; 1919, pp. 58, 59; 1921, pp. 28, 29, 35; 1925, pp. 16, 26.
 frost effect, B 9, pp. 11, 16; R 1918, p. 66.
 frost protection, B 6, pp. 8, 9.
 growing—
 by Indians, B 9, p. 6.
 handicaps, B 9, pp. 1, 5, 7, 11, 16.
 in Alaska, B 9.
 in crates, R 1913, p. 33.
 in cribs, R 1918, pp. 13, 48.
 in increase plots, R 1917, p. 68; 1918, p. 64.
 harvesting, B 9, pp. 5, 7, 10, 15.
 importation, B 6, p. 20; R 1911, p. 17; 1912, pp. 13, 31; 1914, p. 54; 1917, p. 6; 1923, p. 19.
 in rotation, B 6, pp. 18, 19; B 9, p. 9; R 1914, pp. 29, 53; 1916, p. 51; 1920, p. 42; 1927, p. 18; 1928, p. 24; 1929, p. 25.
 insect pests, B 48, p. 18; R 1904, p. 349.
 introduction into Alaska, B 9, p. 1.
 introduction into Europe, B 9 p. 1.
 liquor making from, B 9, p. 6.
 long v. short rootstalks, R 1913, p. 47.
 lowland effect, R 1912, pp. 13, 14, 31.
 marketing and value, B 9, pp. 12, 16; C 1b, p. 12; C 1c, p. 23; R 1902, p. 290; 1903, p. 341; 1907, p. 14; 1911, pp. 29, 49, 50; 1912, pp. 31, 48, 53; 1913, pp. 14, 35; 1914, p. 31; 1915, p. 53; 1916, pp. 46, 50, 76; 1917, p. 68; 1918, p. 83; 1919, p. 77; 1920, p. 56; 1921, p. 28; 1924, p. 14; 1925, p. 16.
 milk flavor affected, B 9, p. 16.
 on new land, R 1900, p. 28.
 on old land, R 1903, p. 327.
 qualities desired, R 1925, p. 3.
 seed—
 balls, R 1916, p. 8; 1917, pp. 7, 8; 1918, p. 24; 1922, p. 12; 1923, p. 14; 1925, p. 3.
 fumigation, R 1915, pp. 40, 53, 68; 1916, p. 48; 1917, p. 68; 1924, p. 5.
 selection, R 1911, p. 41.
 single-eye v. normal, R 1915, pp. 21, 68; 1916, p. 34.
 single-row tests, R 1917, p. 69.
 sprouting—
 directions, B 9, pp. 2, 14; R 1911, p. 17; 1912, p. 14; 1913, p. 10; 1914, pp. 38, 49, 64; 1926, p. 7.
 effects, R 1910, pp. 14, 32, 51; 1912, p. 31; 1913, pp. 32, 33; 1925, p. 3; 1927, p. 19.
 storing, B 9, pp. 5, 10, 15; R 1912, p. 79.
 varieties, importance of early maturing, B 9, p. 2.
 variety tests, R 1908, pp. 30, 31; 1909, pp. 39, 49, 52; 1911, pp. 18, 42, 48; 1912, pp. 16, 53; 1913, p. 11; 1915, pp. 33, 54, 75; 1917, pp. 54, 69; 1918, p. 65; 1919, p. 73; 1920, pp. 32, 44; 1925, p. 16; 1926, pp. 7, 17, 22; 1928, pp. 14, 23.

Potatoes—Continued.

watery, B 2, p. 31; R 1910, p. 14; 1911, p. 17.
 yield, planting date effect, R 1928, p. 23.
 yields in Alaska, B 9, pp. 10, 12, 15, 16.

Potentilla—

emarginata, R 1908, p. 57.

fruticosa culture—

Matanuska, R 1927, p. 21.
 Sitka, R 1917, p. 15; 1918, p. 31; 1919, p. 28; 1921, p. 14.

nivea, R 1908, p. 57.

Poultry—

importation, B 6, p. 20; R 1914, p. 54; 1923, p. 19.
 meat, fish in dietary effect, B 48, p. 21.

See also under Farming at miscellaneous places, and specific kinds.

Powder, giant, as explosive, R 1912, p. 58.
Presidential party's visit to Alaska, R 1923, p. 1.

Primrose—

English. *See Primula vulgaris.*
 evening. *See Oenothera speciosa.*
 culture—

Rampart, R 1919, p. 44.
 Sitka, R 1910, p. 21; 1920, p. 18; 1926, p. 10; 1927, p. 12.

Primula—

acaulis, R 1918, p. 33; 1919, p. 27.
elatior, R 1918, p. 33.
obconica, R 1920, p. 18.
officinalis, R 1910, p. 27.
stricta, R 1908, p. 57.
veris, R 1915, p. 37.

vulgaris, R 1910, p. 27; 1915, p. 38; 1917, p. 20.

Prince of Wales Island. *See Farming.*
Prince William Sound. *See Agricultural areas; Survey, agricultural, Copper River.*
Prison labor. *See Labor.*

Products, cultivated and natural, B 48, pp. 12, 17.

Propagating house—

erection, R 1904, p. 266; 1906, p. 14; 1910, p. 54; 1911, pp. 34, 47; 1912, p. 58; 1916, p. 10; 1925, p. 27.

fire destruction, R 1927, p. 6.

See also Greenhouse.

Prunes, imported, R 1912, p. 78.

Prunus—

armeniaca, R 1929, p. 17.
avium, disease, R 1915, p. 41.
See also Cherries, sweet.
besseri, R 1905, p. 31; 1906, p. 28; 1908, p. 26; 1909, p. 36; 1910, p. 23.
cerasifera, R 1929, p. 17.
cerasus, disease, R 1915, p. 41.
See also Cherries, sour.
salicina, R 1929, p. 17.
spinosa, R 1927, p. 8.

See also Peach; Plums.

Pseudomonas campestris on Cruciferae, R 1915, p. 39.

Ptarmigan—

habitats, R 1900, p. 34.
 protection, C 1b, p. 17.

Puccinellia—

angustata, B 48, p. 28.
grossularia on Ribes and sedge, R 1915, p. 40.

sp.—
 growing regions, R 1904, p. 283.
See also Seashore grass.

tenuiflora, R 1908, p. 57.

Puffins, protection, C 1b, p. 17.

Pumpkins—

growth at Valdez, R 1909, p. 67.
 notes on growth in Alaska, B 7, p. 16.

Purgatory. *See Farming.*

Puyallup substation, land clearing costs, B 48, p. 22.

Pybus Bay. *See Farming.*

Pyramid Harbor weather data, B 48, pp. 7, 8.

Pyrethrum—

parthenifolium. See Goldenfeather.
roseum, R 1910, p. 28.
roseum hybridum, R 1917, p. 20.
Pyrola rotundifolia incarnata, R 1908, p. 57.

Pyrus—

baccata, R 1902, p. 243; 1903, p. 330;
 1905, p. 30; 1906, p. 26; 1907, p. 32;
 1908, pp. 22, 25; 1909, pp. 33, 35;
 1911, p. 12.

chinensis. See Pear, Chinese.

communis, R 1919, p. 26.

divaricata, R 1916, p. 8.

rivularis. See Crab apples.

Qu'Appelle weather data, B 48, pp. 7, 8.
 Quarantine, Federal, for berries, C 2, p. 1.

Quartz deposits, B 48, pp. 23, 25.

Quercus rubra, R 1922, p. 13.

See also Oak.

Quickstands, danger to man and beast, R 1912, p. 68.

Quince, Japanese, R 1914, p. 25.

Quinhangak. See Farming.

Quinon culture—

Copper Center, R 1906, p. 42; 1907, p. 53.

Rampart, R 1908, p. 42.

Sitka, R 1909, p. 43.

Rabbit—

cycle, R 1929, p. 41.

destruction to crops, B 82, p. 11; R 1901, pp. 272, 280; 1903, p. 348;
 1905, pp. 14, 54; 1913, pp. 15, 31,
 32; 1924, pp. 21, 23; 1925, p. 17;
 1929, p. 18.

protection, C 1b, p. 18.

Racks for curing grain and peas, B 6, p. 16.

Rader and Neal's report on Copper River station. See Report on Copper River station.

Radishes—

cultural directions, B 2, p. 25; B 7, p. 16; R 1901, p. 339; 1921, p. 11.

culture—

Copper Center, R 1903, p. 351; 1904, p. 330; 1907, p. 52; 1908, p. 51; 1911, p. 66.

Fairbanks, R 1910, p. 58; 1915, p. 51; 1917, p. 70; 1926, p. 19; 1928, p. 14.

Kenai, B 82, p. 33; R 1903, p. 357; 1904, p. 306; 1905, p. 63.

Kodiak, B 82, p. 38; R 1914, p. 72; 1915, p. 76; 1916, p. 65; 1919, p. 59; 1920, p. 62; 1927, p. 14.

Matanaska, R 1918, p. 80; 1927, p. 21.

Rampart, R 1905, p. 59; 1906, p. 46; 1907, p. 48; 1908, p. 42; 1909, p. 50; 1911, pp. 26, 45; 1914, p. 65; 1919, p. 12.

Sitka, B 62, p. 14; B 82, p. 21; R 1909, pp. 11, 42; 1910, p. 19; 1911, p. 21; 1912, p. 23;

1914, p. 21; 1915, p. 35; 1917, p. 9; 1918, p. 27; 1919, p. 22; 1921, p. 11; 1926, p. 6; 1927, p. 12; 1928, p. 8; 1929, p. 7.

Skagway, B 62, p. 17.

Wood Island, R 1902, pp. 257, 258; 1903, p. 366; 1904, p. 334.

growing regions, B 1, p. 7; B 48, p. 17.

insect pests, R 1907, p. 24; 1927, p. 12; 1928, p. 8; 1929, p. 7.

market value, R 1914, p. 81; 1916, p. 76.

Railroad commissioners, visit to Alaska, R 1912, p. 46.

Railroads—

colonizing by, R 1929, p. 38.
 in Alaska, C 1b, pp. 9, 16; C 1c, p. 26; R 1900, p. 45; 1904, p. 270; 1905, pp. 15, 21; 1908, p. 20; 1919, pp. 18, 78; 1922, p. 1; 1927, p. 1.

v. river navigation, C 1b, p. 6.

See also Transportation.

Rains—

animals affected, B 48, p. 32.
 farming and gardening affected, B 2, p. 11.
 grain affected, B 6, pp. 3, 10; B 82, p. 12; C 1b, pp. 3, 13.
 haymaking affected, B 3, p. 7.

Rampart House weather data, R 1911, p. 82; 1912, p. 94.

Rampart—

station and town, location, B 1, p. 7; C 1b, p. 9; R 1901, p. 274; 1910, p. 34; 1915, p. 17; 1917, p. 21; 1918, p. 10.

station buildings and improvements, R 1901, p. 267; 1904, pp. 266, 332; 1905, pp. 13, 55, 56; 1906, pp. 16, 17; 1907, pp. 29, 42; 1908, pp. 15, 33; 1909, pp. 17, 19; 1910, pp. 29, 44; 1911, pp. 23, 34; 1912, p. 58; 1913, pp. 19, 38; 1914, pp. 34, 55; 1915, p. 57; 1916, p. 24; 1917, p. 35; 1918, p. 34; 1920, p. 22; 1924, p. 27.

station closing, R 1925, p. 29.

station establishment, B 1, p. 7; R 1900, p. 57.

station land reservation, R 1900, p. 57; 1901, p. 267; 1903, p. 317.

topography. See Topography.

weather data, B 7, p. 4; C 1b, p. 3; R 1900, p. 58; 1905, pp. 55, 94;

1906, pp. 43, 70; 1907, pp. 42, 89; 1908, pp. 32, 73; 1909, pp. 43, 74; 1910, pp. 10, 43, 77; 1911, pp. 33, 79; 1912, pp. 33, 57, 94; 1913, pp. 37, 78; 1914, pp. 54, 94; 1915, pp. 54, 98; 1916, pp. 23, 82, 84, 89; 1917, pp. 34, 95; 1918, pp. 10, 33, 101; 1919, pp. 30, 87; 1920, pp. 20, 72; 1921, pp. 33, 56; 1922, p. 29; 1923, p. 35; 1924, pp. 25, 45; 1925, pp. 29, 39; 1926, p. 38; 1927, p. 36; 1928, p. 37; 1929, p. 54.

See also Climate; Farming; Frost-free period.

Ranunculus—

purshii, R 1908, p. 57.

repens. See Buttercups.

Rape culture—

Copper Center, R 1903, p. 350; 1906, p. 39; 1907, p. 53.

Kenai, R 1902, p. 253; 1903, p. 361; 1904, p. 307; 1906, p. 50.

Kodiak, R 1913, pp. 51, 56.

Sitka, B 82, pp. 11, 19.

Wood Island, R 1902, p. 258; 1903, p. 363.

Raspberries—

culture—

Copper Center, R 1906, p. 38; 1908, p. 56.

Fairbanks, R 1915, p. 51; 1916, p. 48; 1917, p. 70; 1918, p. 69; 1920, p. 45; 1921, p. 31; 1927, p. 28; 1928, p. 15; 1929, p. 17.

Kenai, R 1902, p. 247; 1903, p. 355; 1905, p. 65; 1906, p. 50.

Kodiak, R 1916, p. 65.

Matanaska, R 1918, p. 81; 1919, p. 76; 1920, p. 57; 1921, p. 22; 1923, p. 16; 1924, p. 15; 1925, p. 17; 1926, p. 28; 1927, p. 21; 1929, p. 24.

Rampart, R 1907, p. 49; 1908, p. 42; 1921, p. 43; 1925, p. 32.

Sitka, R 1901, p. 248; 1902, p. 242; 1903, p. 330; 1904, p. 295; 1905, p. 33; 1906, p. 29; 1907, p. 22, 38; 1908, pp. 12, 28;

1909, p. 38; 1910, p. 25; 1911, p. 15; 1912, p. 26; 1914, p. 14; 1915, p. 30; 1917, p. 12; 1918, p. 28; 1919, p. 25; 1920, p. 14;

1921, p. 13; 1924, p. 5; 1925, p. 7; 1926, p. 3; 1927, p. 8; 1928, p. 4; 1929, p. 5.

Valdez, R 1909, p. 60.

Wood Island, R 1904, p. 335.

diseases, R 1916, p. 6.

Raspberries—Continued.

growing regions, B 4, p. 2; B 48, p. 15; B 62, pp. 39, 40; C 1a, p. 28; R 1901, p. 289; 1902, p. 267; 1909, p. 10.
insect pests, R 1915, p. 51.
market value, R 1912, p. 78; 1914, p. 81; 1915, p. 51; 1916, pp. 48, 76; 1921, p. 31.

Raspberry canes, frost protection, R 1921, p. 31.

Raspberry Island. *See* Livestock raising.

Raspberry-salmonberry crossbreeding, R 1905, p. 9; 1906, p. 11; 1907, p. 22; 1908, p. 12; 1910, p. 25; 1911, p. 11; 1915, pp. 9, 31; 1918, p. 23; 1919, p. 25; 1920, p. 15.

Raspberry-thimbleberry crossbreeding, R 1915, pp. 9, 31.

Rattail grass culture, Copper Center, R 1908, p. 54.

Ravens—

poultry menace, R 1912, p. 27.

sheep menace, R 1917, p. 79.

Ray, P. H., address on Alaska, R 1900, p. 69.

Ray grass, B 62, p. 11.

See also Ryegrass, perennial.

Razoumof'skya douglasii tsugensis, R 1915, p. 41.

Reconnaissance of interior. *See* Jones, Isaac.

Reconnaissance of Matanuska. *See* Agricultural reconnaissance.

Red Cross. *See* American.

Red-hot poker. *See* Tritonia sp.

Red Star organization, R 1918, p. 9.

Redtop—

culture—

Copper Center, R 1902, p. 269; 1903, p. 349; 1904, p. 328; 1905, p. 51; 1906, p. 38; 1907, p. 58; 1908, p. 54.

Fairbanks, R 1912, p. 52; 1929, p. 15.

Kenai, R 1902, p. 252; 1903, pp. 359, 361; 1904, pp. 307, 308; 1905, p. 62; 1906, p. 48.

Kodiak, R 1913, p. 57; 1915, p. 24; 1916, p. 63.

Matanuska, R 1919, p. 71.

Rampart, R 1906, p. 47; 1907, pp. 30, 47; 1908, p. 39.

Sitka, R 1902, p. 241; 1903, p. 335; 1904, p. 301.

Wood Island, R 1902, p. 258.

growing regions, B 48, p. 4; R 1916, p. 12.

true. *See* Agrostis alba.

Reed—

fescue, culture, Copper Center, R 1908, p. 54.

grass, canary, culture—

Kenai, R 1906, p. 49.

Rampart, R 1909, p. 48; 1910, p. 51.

Reindeer—

at Unalaska, B 62, p. 33.

on St. Lawrence Island, R 1908, p. 67.

production in Alaska, C 1c, p. 25.

Rennet, use in cheese making, R 1907, p. 71.

Report on—

agricultural investigations in Alaska, B 48, pp. 4-27; B 62, pp. 2, 7; B 82, pp. 7, 46; R 1900, pp. 6, 44; 1901, pp. 251, 264; 1903, pp. 314, 320, 353.

Alaska—

by Walter H. Evans. *See* Evans, W. H.
by E. F. Glenn. *See* Glenn, E. F.
by Sheldon Jackson. *See* Jackson, S.

by Benton Killin. *See* Killin, B.
by C. V. Piper. *See* Grassland investigations.

botanical survey, B 48, p. 28; B 62, pp. 3, 48; R 1903, p. 314.

Copper River station, R 1902, p. 265; 1903, p. 343; 1904, p. 312.

Report on—Continued.

gardens in southeast Alaska, R 1912, p. 77.

grazing lands of south coast. *See* Grassland investigations.

Kenai, R 1904, p. 302.

reconnaissance of interior. *See* Jones, Isaac.

Skagway. *See* Sexton, George.

Tanana Valley, by J. L. Green. *See* Green, J. L.

Tanana Valley, by J. W. Neal, R 1910, pp. 65, 66, 67.

Wood Island, by S. A. Caldwell, R 1904, p. 333.

Wood Island, by C. P. Coe. *See* Coe, C. P.

work of Bureau of Education at Copper Center, R 1911, p. 65.

Reseda sp. *See* Mignonette.

Reservations. *See* Land reservation.

Resurrection Creek. *See* Farming.

Revillagigedo channel, R 1906, p. 54.

Rhamnus typhina, R 1904, p. 297.

Rheumatism—

man affected, C 1b, p. 4.

pigs affected, C 1b, p. 15; R 1915, p. 16.

Rhizotonia on potatoes, B 9, p. 16; R 1915, p. 53; 1918, p. 79; 1919, p. 73; 1926, p. 23; 1928, p. 21.

Rhodanthus culture, Holy Cross, B 62, p. 37.

Rhode Island bentgrass, culture, Kodiak, R 1915, p. 24.

Rhododendron culture, Sitka, R 1914, p. 25; 1917, p. 15; 1918, p. 31; 1921, p. 14.

Rhododendron—

taponicum, R 1908, p. 57.

macrophyllum, R 1922, p. 13.

Rhubarb—

cultural directions, B 2, p. 39; B 7, p. 26; R 1901, p. 339; 1917, p. 10;

1924, p. 4; 1925, p. 6.

culture—

Copper Center, R 1903, p. 352; 1904, p. 330; 1905, p. 52; 1906, p. 37; 1908, p. 56; 1911, p. 66.

Fairbanks, R 1909, p. 51; 1910, p. 58; 1912, p. 55; 1913, p. 34; 1915, p. 51; 1916, p. 48; 1928, p. 14.

Kenai, R 1901, p. 263; 1902, p. 249; 1905, p. 64; 1906, p. 51.

Matanuska, R 1918, p. 80; 1919, p. 77.

Rampart, R 1905, p. 59; 1909, p. 50; 1912, p. 67; 1917, p. 57.

Sitka B 62, p. 14; R 1903, p. 327; 1904, p. 300; 1914, p. 24; 1915, p. 36; 1917, p. 10; 1918, p. 28; 1919, p. 24; 1921, p. 12; 1924,

p. 4; 1925, p. 6; 1926, p. 5; 1927, p. 12; 1929, p. 7.

Skagway, B 62, p. 17.

Wood Island, R 1902, p. 257.

growing regions, B 48, p. 17; R 1923, p. 14.

market value, R 1914, p. 81; 1916, p. 76; 1925, p. 6.

storing, R 1917, p. 10.

Ribes—

alpinum. *See* Currant, alpine.

aureum, R 1915, p. 30.

bracteosum. *See* Currant, black, California.

floridum. *See* Currant, black, wild.

gordonianum, R 1922, p. 12.

grandiflora, R 1922, p. 12.

hudsonianum, R 1908, p. 57; 1914, p. 13.

lacustre. *See* Currant, black, swamp; Gooseberries.

laxiflorum, R 1914, p. 13.

nigrum. *See* Currant, black, European.

oxyacanthoides, R 1915, p. 40.

parviflorum. *See* Currant, black.

pauciflorum, R 1911, p. 15.

prostratum, R 1914, p. 13.

rubrum. *See* Currant, red.

Ribes—Continued.

sanguineum. See Currant, red-flowering.
spp. diseases, R 1915, p. 40.
spp., growing regions, B 48, p. 6.
Rice—
market value, R 1903, p. 341.
wild—
as food, B 48, p. 15; R 1904, p. 284.
as hog feed, R 1904, p. 284.
culture, Copper Center, R 1907, p. 56.
culture, Wood Island, R 1903, p. 364.

Richardson. See Farming.

Ricinus sp. See Castor-oil bean plant.
Riprapping construction, R 1919, p. 62.
River bottom lands, B 2, p. 16; C 1a, p. 27.
Road—

commission, R 1908, p. 8.
wagon, cost and need, C 1a, p. 29; R 1903, p. 342.

Roads and trails—

breaking, R 1903, p. 336.
Copper River Valley, R 1903, p. 342.
Fairbanks station, R 1905, p. 17; 1912, p. 57; 1918, p. 54; 1919, p. 47.
Forest Service, C 1b, p. 9.
Matanuska station, R 1924, p. 17.
military, R 1901, p. 307; 1903, p. 338.
Sitka station, B 82, p. 29; R 1919, p. 20.
Tahana Valley, R 1910, p. 67.
Valdez to Copper Center, R 1901, p. 308.
Valdez to interior, R 1902, p. 265.
See also Dawson; Eagle; Skagway; White Horse.

Robins attacking—

ornamentals, R 1910, p. 27; 1918, p. 30.
strawberries, R 1928, p. 4; 1929, p. 5.
wireworms, R 1904, p. 349.

Rocambole, cultural directions, B 2, p. 38.

Rock cress. See *Arabis alpina*.

Rockfoil. See *Saxifraga* sp.

Rockwork plants. See Plants for rock-work.

Roller feed mill, R 1918, p. 70.

Root—

carrots, R 1902, p. 281; 1909, p. 20; 1910, p. 34; 1911, pp. 28, 45; 1912, pp. 37, 58; 1913, p. 14; 1915, p. 92; 1919, p. 30.

crops, culture—

Fairbanks, R 1918, p. 67; 1910, p. 52; 1920, p. 44; 1921, p. 29.

Matanuska, R 1918, p. 79; 1919, p. 74; 1920, p. 57; 1921, p. 21; 1924, p. 14; 1925, p. 15; 1926, p. 25; 1927, p. 20.

crops, fertilization, B 7, p. 9.

crops, importation, R 1923, p. 19.

crops in rotation, B 6, p. 19.

maggots, B 7, p. 21; R 1907, p. 24; 1909, p. 11; 1912, pp. 20, 66; 1914, p. 32; 1915, p. 13; 1916, p. 9; 1917, p. 8; 1918, p. 26; 1920, p. 18; 1924, p. 2; 1925, p. 4; 1927, pp. 10, 12; 1928, pp. 6, 8.

Rosa—

acicularis, R 1908, p. 57.
nutkana, R 1914, p. 25; 1919, p. 29.
rugosa, cultural directions, R 1918, p. 31; 1920, p. 16; 1925, p. 7.

rugosa culture—
Matanuska, R 1918, p. 81; 1919, p. 76; 1920, p. 58; 1927, p. 21.

Rampart, R 1918, p. 9.

Sitka, R 1902, p. 243; 1903, p. 330; 1904, p. 297; 1905, p. 34; 1906, p. 30; 1907, pp. 25, 41;

1908, p. 32; 1909, p. 39; 1910, p. 26; 1912, p. 26; 1914, p. 25; 1917, p. 21; 1919, pp. 28, 29;

1920, p. 16; 1921, p. 14; 1922, p. 12; 1924, p. 7; 1925, p. 7.

Rosaceæ, B 48, p. 28.

Rose—

diseases, R 1915, pp. 40, 41.
dye from, R 1912, p. 26.
growth at Sitka, R 1915, p. 37; 1918, p. 32; 1920, p. 18; 1927, p. 13.
Japanese. See *Rosa rugosa*.
mallow. See *Lavatera* spp.
propagation, R 1916, p. 9; 1920, p. 16.
wild native. See *Rosa nutkana*.
See also *Rosa rugosa*.

Rosemary, R 1915, p. 37; 1917, p. 11.

Rose-of-heaven. See *Cali rosa*.

Ross, P. H., report on Kenai. See Report on Kenai.

Rotation—

Fairbanks, R 1913, p. 36; 1916, p. 51; 1919, p. 51; 1920, p. 42; 1921, p. 30; 1923, p. 13; 1925, p. 23; 1926, p. 15; 1927, p. 28.
hogs used, R 1914, pp. 28, 29.
Matanuska, R 1925, p. 13; 1926; p. 22; 1927, p. 18; 1928, p. 24; 1929, p. 25.
value, B 6, p. 19; R 1916, p. 51.

Rubus—

arcticus, R 1908, p. 57.
chamomorus. See "Molka" berries.
idaeus, R 1915, p. 30.
parviflorus. See Thimbleberries.
phaneroclasius, R 1926, p. 3.
spectabilis. See Salmonberries.
spp., growing regions, B 48, p. 6.
stellatus. See Dewberry.
strigosus. See Raspberries.

Ruby weather data, R 1918, p. 102; 1920, p. 73; 1921, p. 56.

Rudbeckia—

laciniata, R 1919, p. 27.
neumanii. See Black-eyed-susan.
speciosa bicolor, R 1915, p. 38.

Rumenotomy on cattle, R 1908, p. 63.

Rumex—

acetosa, B 48, p. 20.
acetosella, B 48, p. 20.
spp., B 48, p. 16.

Russia and Alaska compared, B 48, p. 24; R 1901, p. 277.

Russian—

experimental station, imperial, R 1924, p. 10.
settlement at Ninilchick. See Ninilchick.

system of culture, B 82, p. 50.

Russians in Alaska, B 8, p. 1; B 48, pp. 21, 33; B 82, p. 34.

Rusts of—

currants and gooseberries, R 1914, p. 27; 1915, p. 40.
grains, B 82, p. 12; R 1925, p. 11.

Rutabagas—

as stock feed, R 1902, p. 256; 1910, p. 62; 1919, p. 74; 1920, p. 51; 1921, p. 29.

cost of production, R 1924, p. 15; 1925, p. 15.

cultural directions, B 2, p. 40; B 7, p. 24; R 1901, p. 339.

culture—

Copper Center, R 1903, p. 352; 1904, p. 330; 1905, p. 52; 1906, p. 37; 1907, p. 52; 1908, p. 51; 1911, p. 66.

Fairbanks, R 1911, p. 47; 1918, p. 68; 1920, p. 14; 1929, p. 17;

Kenai, B 82, p. 33; R 1902, p. 249; 1903, p. 357; 1905, p. 64.

Kodiak, B 82, p. 37; R 1909, p. 62; 1910, p. 62; 1913, p. 56;

1914, p. 71; 1915, p. 74; 1927, p. 14.

Matanuska, R 1918, p. 79; 1919, p. 74; 1920, p. 57; 1921, p. 21;

1924, p. 15; 1925, p. 15; 1926,

p. 26; 1927, p. 20; 1928, p. 21.

Rutabagas—Continued.
culture—continued.

Rampart, R 1905, p. 59; 1906, p. 46; 1907, p. 48; 1908, p. 42; 1909, p. 50; 1912, p. 67; 1920, p. 31; 1921, p. 44.
Sitka, B 62, p. 14; B 82, p. 21; R 1903, p. 327; 1904, p. 300; 1905, p. 39; 1914, p. 21; 1915, p. 34; 1918, p. 26; 1919, p. 21; 1921, p. 12; 1924, p. 2; 1925, p. 6; 1926, p. 5; 1927, p. 12; 1928, p. 8; 1929, p. 7.
Skagway, B 62, p. 17.
Wood Island, R 1902, pp. 256, 257, 258, 260; 1903, p. 366; 1904, p. 334.

fertilization, R 1913, p. 56; 1914, p. 71.
insect pests, R 1907, p. 24; 1912, p. 67; 1915, p. 34; 1921, p. 12; 1927, p. 12.

market prices, R 1911, p. 49; 1916, p. 68; 1918, p. 83.
seed production, R 1920, p. 31.

Rye—

and peas for feed. *See Peas and rye.*
as breadstuff, R 1901, p. 269.
as nurse crop, R 1925, p. 9.
as pasture crop, R 1920, p. 52; 1923, p. 9; 1925, p. 9.
as soil renovator, R 1913, p. 36.

beach—

feeding value, R 1904, pp. 276, 285; 1916, pp. 11, 12; 1917, p. 77.
growing regions, B 48, p. 13; B 62, p. 49; R 1904, pp. 271, 272, 273, 274, 275, 283; 1928, p. 28.
on volcanic areas, B 5, p. 3; R 1914, p. 73; 1915, p. 78; 1916, p. 63.
propagation, R 1916, p. 11.
silage, B 8, p. 2; B 82, p. 24; R 1900, p. 30; 1916, p. 11; 1917, p. 76; 1918, p. 87; 1919, p. 15; 1920, p. 60; 1921, p. 45; 1924, p. 28.

culture—

Copper Center, R 1902, p. 270; 1904, p. 326; 1905, p. 45; 1906, pp. 42, 43; 1907, pp. 27, 57; 1908, pp. 53, 55.

Fairbanks, R 1908, p. 47; 1909, pp. 21, 53; 1910, p. 56; 1911, p. 51; 1912, pp. 30, 51; 1913, p. 30; 1914, pp. 30, 46; 1915, p. 48; 1916, pp. 40, 42; 1918, p. 62; 1923, p. 9; 1929, p. 11.

Kenai, R 1901, p. 255; 1902, p. 249; 1903, p. 357; 1904, p. 305.

Kodiak, R 1913, pp. 51, 55; 1913, p. 57; 1916, p. 64; 1918, p. 86.

Matanuska, R 1918, p. 77; 1919, p. 69; 1920, p. 52; 1921, pp. 2, 17; 1925, p. 9; 1926, p. 20; 1927, p. 18.

Rampart, R 1901, p. 268; 1902, p. 255; 1905, p. 57; 1906, pp. 44, 45; 1907, p. 30; 1908, pp. 34, 38; 1909, pp. 14, 15, 45, 48; 1911, p. 25; 1912, p. 59; 1914, pp. 37, 57; 1915, pp. 19, 21, 63; 1916, pp. 19, 29, 30; 1917, pp. 25, 40, 53; 1918, pp. 38, 47; 1920, p. 24; 1921, p. 36; Sitka, B 82, p. 16; R 1900, p. 19; 1901, p. 240; 1902, p. 235; 1903, p. 333.

Wood Island, R 1903, p. 363.
fall, R 1901, pp. 268, 271; 1910, p. 56; 1912, p. 51; 1913, pp. 31, 53; 1915, p. 49; 1916, p. 40.

fertilization, R 1901, p. 241; 1916, p. 64.

growth in Alaska, B 1, p. 7; B 48, p. 18; C 1a, p. 27; R 1910, p. 32.
growth in northern Europe, B 48, p. 23.
hay production, R 1905, p. 45; 1906, p. 42.

Rye—Continued.

hybridization, B 6, p. 39; R 1916, p. 29; 1917, p. 41.
mice damaged, R 1921, p. 36.
number of months to mature, R 1912, p. 60; 1914, p. 37.

on volcanic soil, R 1912, p. 70.
rabbit damaged, R 1903, p. 348.
Russian, R 1901, p. 255; 1914, pp. 46, 58; 1916, p. 30.

spring, R 1901, p. 269; 1905, pp. 45, 57; 1906, p. 42; 1908, p. 53; 1910, p. 56; 1914, pp. 37, 46, 57; 1915, pp. 19, 63; 1916, pp. 29, 42; 1917, pp. 25, 53; 1923, p. 9.

Swedish, R 1900, p. 19.
variety tests, R 1914, pp. 58, 59; 1916, p. 44.

winter, B 6, p. 24; R 1901, p. 255; 1902, p. 235; 1903, p. 357; 1904, p. 305; 1905, p. 45; 1906, p. 43; 1907, pp. 27, 57; 1908, pp. 47, 55; 1909, pp. 15, 21, 53; 1913, p. 30; 1914, pp. 30, 58; 1915, pp. 48, 63; 1916, p. 40; 1917, pp. 25, 40; 1918, pp. 38, 77; 1919, p. 69; 1920, pp. 24, 52, p. 13.

winter effects, C 1b, p. 13.

See also Wheat-rye.

Ryegrass—

English, culture—

Matanuska, R 1919, p. 71.
Rampart, R 1907, p. 30.

Italian, culture—

Copper Center, R 1908, p. 55.
Kenai, R 1905, p. 63.

Matanuska, R 1919, p. 71.

perennial, culture—

Copper Center, R 1902, p. 269; 1903, p. 350; 1905, p. 51; 1908, p. 54.

Kenai, R 1902, p. 252; 1903, pp. 359, 360; 1904, p. 308; 1905, p. 62; 1906, p. 49.

Rampart, R 1906, p. 47; 1907, p. 47.

Sitka, R 1902, p. 241; 1903, p. 334.

Wood Island, R 1902, p. 258.

Sable protection. *See Marten.*

Sage—

cultural directions, B 2, p. 46; B 7, p. 32.

culture—

Sitka, B 62, p. 15; R 1902, p. 243; 1903, p. 327; 1904, p. 306; 1914, p. 24; 1915, p. 37; 1917, p. 11; 1926, p. 6; 1927, p. 12.

Skagway, B 62, p. 17.

Sago, market value, R 1903, p. 341.

Saint James Mission, R 1900, p. 60.

Saint Lawrence Island. *See Farming.*

Saint Michael—

location, R 1900, p. 65.

survey. *See Survey.*

weather data, B 48, pp. 7, 8; B 62, p. 51; R 1900, p. 81; 1902, p. 304; 1907, p. 96; 1916, p. 82; 1926, p. 38; 1927, p. 37.

See also Farming.

Saint Paul weather data, C 1b, p. 2; R 1916, pp. 82, 89; 1917, p. 95; 1918, p. 102; 1919, p. 87; 1921, p. 57; 1922, p. 24; 1923, p. 36; 1924, p. 45; 1925, p. 39; 1926, p. 39; 1927, p. 37.

Salad plants, culture—

Rampart, R 1917, p. 55.

Sitka, R 1914, p. 22.

Salal berries, growing regions, B 48, p. 15.

Salicaceæ, B 48, p. 28.

Salix arctica, R 1908, p. 57.

See also Willows.

Salmon—

canning industry, C 1a, p. 26; B 9, p. 7; B 48, pp. 22, 26, 32; B 62, p. 42; R 1900, p. 35; 1901, p. 274.

volcanic ash effect, R 1913, p. 49.

Salmon River weather data, R 1922, p. 23.

- Salmonberries**—
crossing with raspberries. *See* Raspberry.
culture, Sitka, R 1907, p. 39; 1909, p. 10.
diseases, R 1914, p. 27; 1915, p. 40.
growing regions, C 1a, p. 28; B 48, pp. 15, 31; R 1903, p. 321; 1904, p. 275.
- Salpiglossis** culture—
Holy Cross, B 62, p. 37.
Rampart, R 1918, p. 53; 1919, p. 43.
Sitka, B 82, p. 22; R 1926, p. 10.
Salpiglossis sinuata. *See* Salpiglossis.
- Salsify**—
black, R 1914, p. 22.
cultural directions, B 2, p. 46; B 7, p. 31.
culture—
Fairbanks, R 1915, p. 51; 1929, p. 17.
Kenai, B 82, p. 33.
Kodiak, B 82, p. 38.
Matanuska, R 1919, p. 77.
Rampart, R 1905, p. 59; 1909, p. 50.
Sitka, B 62, p. 14; B 82, p. 20; R 1912, p. 22; 1914, p. 22; 1921, p. 12.
Wood Island, R 1903, p. 366.
- Salt**—
cheese flavor affected, R 1907, p. 72.
coarse, as fertilizer, B 2, p. 41; B 7, p. 29.
market value, R 1903, p. 341; 1907, p. 20.
marsh grass, R 1910, p. 59.
use in haymaking, R 1911, p. 59.
- Salt air**—
metal affected, R 1919, p. 64.
plants affected, R 1900, p. 63.
roofing affected, R 1915, p. 70.
- Salts**—
double manure, R 1914, p. 70.
Epsom, for cattle, R 1916, p. 60.
- Salvia grandiflora*, R 1917, p. 20.
- Salvias**, culture, Sitka, R 1914, p. 26.
- Sambucus*—
leioarpa, B 48, p. 28.
pubens, R 1910, p. 26; 1914, p. 25.
racemosa, B 48, p. 15.
sp., R 1917, p. 15.
See also Elderberries.
- Sanak Island**. *See* Farming.
- Sand**—
bars, boats affected, R 1900, pp. 47, 55.
binders. *See* Plants.
culture, Sitka, R 1902, p. 243; 1903, p. 330; 1904, p. 296; 1905, pp. 31, 32; 1906, p. 27; 1907, p. 35; 1909, p. 36.
dunes, B 5, p. 3.
lucern. *See* Alfalfa.
spit, location, R 1904, p. 272.
spurry. *See* Spurry.
use for storing vegetables, B 7, p. 25.
- Sand Point**. *See* Farming.
- Sandthorn**, Siberian, R 1905, p. 34; 1906, p. 30; 1907, p. 41; 1908, p. 32.
- Saponaria* sp., R 1904, p. 340.
- Sarat Chute**. *See* Farming.
- Sarcoptic mange** of swine, R 1916, p. 49.
- Sardines**, market value, R 1903, p. 341.
“Sarvis” berry. *See* June-berry.
- Sauerkraut**, native made, R 1913, p. 62.
- Sausage importation**, B 6, p. 20.
- Savastano*—
alpina. *See* Vanilla grass, Alpine.
odorata. *See* Vanilla grass.
- Savory**—
summer, R 1914, p. 24; 1926, p. 6; 1927, p. 12.
white, B 7, p. 32.
winter, R 1915, p. 37.
- Sawdust** in manure, plants affected, B 7, p. 9.
- Sawmills**, C 1b, p. 10; B 48, pp. 4, 12; R 1908, p. 18.
- Saw rig**, description, R 1926, p. 11.
- Saxifraga*—
reflexa, R 1908, p. 57.
tricuspidata, R 1908, p. 58.
sp., R 1918, p. 33.
- Saxifragaceæ**, B 48, p. 28.
- Scab** of—
apples, R 1915, p. 40.
potatoes, B 9, pp. 6, 16; R 1915, pp. 40, 53; 1916, p. 47; 1924, pp. 5, 23; 1928, pp. 21, 22.
swine, R 1916, p. 49.
- Scabies** of sheep, R 1904, p. 276.
- Scabiosa caucasica*. *See* Scabiosa.
- Scabiosa** culture—
Rampart, R 1916, p. 37; 1918, pp. 53, 54.
Sitka, R 1917, p. 20; 1918, p. 33; 1927, p. 12.
- Scale** on greenhouse plants, R 1920, p. 20.
- Scandinavians** in Alaska, C 1a, p. 28; R 1927, p. 5.
- Scarlet**—
flax culture, Rampart, R 1918, p. 54.
sage, culture, Sitka, R 1927, p. 12.
- Schizanthus* sp. *See* Butterfly flower.
- Schools** in Alaska, C 1b, p. 16; C 1c, p. 21.
- Schwatka**. *See* Johnny’s Village.
- Scientific Society of Helsingfors**. *See* Finland, agriculture.
- Sclerotinia fuckeliana**, R 1914, p. 26.
- Scorzonera**. *See* Salsify, black.
- Scotch broom**, R 1906, p. 54.
- Scotland**, notes, B 48, pp. 7, 8, 25.
- Scouring rush**, R 1916, p. 62.
- Scow**—
as means of transportation, R 1900, p. 49.
building industry, R 1900, p. 46.
- Scurvy** at Copper Center, R 1901, p. 306.
- Sea air**. *See* Salt air.
- Sea lettuce**, B 7, p. 19.
- Sea lion protection**, C 1b, p. 17.
- Sea pink**. *See* *Armeria formosa*.
- Seakale**, B 2, p. 40; B 7, p. 28.
- Seal oil** for fruit preserving, B 48, p. 15.
- Seals**, reduction in numbers, B 62, p. 44.
- Seashore grass**, R 1904, p. 272.
- Seasons** for hunting, C 1b, p. 17.
- Seattle Post-Intelligencer**, R 1901, p. 277.
- Seattle to Unalaska**, distance, time, C 1c, p. 17; R 1928, p. 28.
- Seatack location**, B 8, p. 3.
- Seaweed**—
as cattle feed, R 1908, p. 62.
as fertilizer, B 1, p. 15; B 2, pp. 21, 23; B 4, p. 5; B 7, pp. 9, 23; B 48, p. 20; B 62, p. 21; B 82, p. 50; R 1900, pp. 24, 25, 28, 29.
- Secretary of Agriculture**, visit to Alaska, R 1923, p. 1.
- Sedge**—
bighead. *See* *Carex macrocephala*.
diseases, R 1915, p. 40.
feeding value, R 1904, p. 276; 1917, p. 77; 1928, pp. 18, 19, 20.
growing regions, B 48, pp. 4, 13, 31; R 1904, pp. 271, 274, 284.
- tall beach**—
growth at Healy and Lignite, R 1928, p. 29.
silage, B 8, p. 2; R 1917, p. 76; 1918, p. 87; 1921, p. 45; 1924, p. 28.
- Seed**—
and plant distribution, B 62, pp. 10, 44; R 1900, p. 70; 1901, pp. 239, 336, 340; 1902, p. 274; 1903, p. 318; 1905, pp. 10, 60; 1906, p. 10; 1916, p. 52; 1917, p. 71; 1918, p. 68; 1919, pp. 7, 39, 53; 1920, pp. 13, 45; 1922, p. 16; 1923, p. 17; 1927, pp. 6, 21; 1928, p. 3.
- broadcasting disadvantages, B 6, p. 12.
fumigation, B 6, p. 15; R 1918, p. 50.
See also Potatoes, seed fumigation.
- germination, B 1, p. 8; B 2, p. 15; B 7, p. 6.

- Seed**—Continued.
 production in Alaska, R 1913, p. 19;
 1919, p. 39; 1920, p. 31.
 testing, B 2, p. 24; B 7, p. 14.
- Seeding**—
 early, advisability, B 6, pp. 11, 12;
 R 1905, p. 13; 1909, p. 16; 1910,
 p. 37.
 rate with drill, B 6, pp. 12, 14.
- Seldovia** weather data, R 1918, p. 102;
 1919, p. 87; 1920, p. 73.
See also Farming.
- Self-binder.** *See* Binder.
- Seminovsky Island.** *See* Farming.
- Senecio**—
discoides, R 1908, p. 57.
lugens, R 1908, p. 58.
vulgaris, B 48, p. 20.
- Sentinel Island.** *See* Farming.
- Septoria**—
ribis on gooseberries, R 1915, p. 41.
rubi on salmonberries, R 1914, p. 27.
- Service berry.** *See* June-berry.
- Settlers**—
 cooperative work with, R 1919, p. 7.
 in Alaska, information for, C 1a, C 1b,
 C 1c.
- Seward**—
 commercial dairying, R 1929, p. 45.
 frost-free period. *See* Frost-free pe-
 riod, Anchorage.
 weather data, B 7, p. 3; C 1b, p. 2;
 R 1908, p. 75; 1909, p. 78; 1910, p.
 84; 1911, p. 79; 1912, p. 95; 1913,
 p. 79; 1914, p. 94; 1915, p. 98;
 1916, pp. 82, 84, 89; 1917, p. 95;
 1918, p. 102; 1919, p. 88; 1920, p.
 73; 1921, p. 56; 1922, p. 23; 1923,
 p. 35; 1924, p. 45.
See also Farming.
- Sexton, George**, report on Skagway, B 62,
 pp. 15-17.
- Shageluk.** *See* Farming.
- Shallots**—
 cultural directions, B 2, p. 37; B 7, p.
 25; R 1921, p. 10.
 growth at Holy Cross, R 1905, p. 78.
- Shaw Island**, weather data, R 1926, p. 39;
 1927, p. 37.
- Shearwaters**, protection in Alaska, C 1b,
 p. 17.
- Sheds**, construction, R 1925, pp. 20, 27;
 1926, p. 11; 1927, p. 24.
- Sheep**—
 dipping, R 1913, p. 60.
 diseases, R 1904, pp. 276, 278; 1914,
 p. 77; 1928, p. 27.
 dogs destructive to, R 1917, p. 79;
 1921, p. 46; 1924, p. 16.
 habitats in Alaska, B 48, p. 31.
 Iceland, R 1900, p. 28.
 insect pests, R 1913, p. 60.
 long v. short-wooled, C 1b, p. 15; R
 1911, p. 32; 1921, p. 7.
 loss by drowning, R 1903, p. 322; 1904,
 p. 276.
 production in Finland. *See* Finland,
 agriculture.
 protection in Alaska, C 1b, p. 17.
 raising—
 as industry, R 1921, p. 23.
 at Healy and Lignite, R 1928, p.
 31; 1929, p. 46.
 at Kodiak, R 1903, p. 322; 1910,
 pp. 41, 64; 1911, pp. 32, 63;
 1912, p. 76; 1913, pp. 23, 59;
 1914, pp. 41, 76; 1915, pp. 23,
 80; 1916, p. 61; 1917, p. 79;
 1918, pp. 20, 90; 1919, p. 61;
 1920, p. 61; 1921, pp. 6, 7, 46.
 at Matanuska, R 1920, pp. 4, 51;
 1921, p. 23; 1922, p. 9; 1923,
 p. 25; 1924, p. 16; 1926, p. 28;
 1927, p. 23; 1929, p. 31.
 by Alaska Commercial Company,
 B 48, p. 21; B 82, p. 40; R
 1904, p. 277.
- Sheep**—Continued.
 raising—continued.
 on Aleutian Islands, R 1928, p.
 27.
 on Frye ranch, R 1904, p. 276;
 1907, p. 61; 1908, p. 65.
 sale of surplus, R 1915, p. 80; 1916,
 p. 62; 1917, p. 80.
 volcanic ashes effect, R 1912, pp. 43,
 68, 76; 1913, p. 23.
- Shellfish** fertilizing value, R 1902, p. 258.
 Shelter belts. *See* Windbreaks.
- Shelter Island.** *See* Farming.
- Shelton** weather data, R 1907, p. 97.
- Shepherd's purse growth**, B 48, p. 16.
- Shield** for worm control. *See* Tar paper.
- Shiplap** market value, B 82, p. 25.
- Shishmaref** weather data, R 1920, p. 73.
- Shoemaking** by Alaskans, B 48, p. 26.
- Shootingstar culture.** *See* *Dodecatheon*
meadia.
- Shrimp Bay** weather data, R 1914, p. 94;
 1915, p. 98; 1916, p. 90.
- Shrubs**—
 culture—
 Matanuska, R 1921, p. 22.
 Sitka, R 1915, p. 37; 1917, p. 14;
 1918, p. 30; 1919, p. 27; 1921,
 p. 14; 1929, p. 7.
 in the coast region, B 48, p. 6.
 Shumagin Islands, location, B 62, p. 28.
- Shunagnak**—
 location, R 1909, p. 71.
 soils. *See* Soils.
 weather data, R 1915, p. 99; 1916,
 p. 90.
See also Farming.
- Siberia** agricultural experiment station, R
 1920, p. 7.
- Siboule**, cultural directions, B 2, p. 37; B
 7, p. 25.
- Silage**—
 cost of production, R 1925, p. 20.
 feeding value, R 1904, p. 285.
 for cattle, R 1911, p. 62; 1912, p. 74;
 1916, p. 60; 1925, p. 20.
 for sheep, R 1914, pp. 76, 77; 1915,
 p. 80; 1916, p. 61.
 making at—
 Fairbanks, R 1923, p. 13.
 Kodiak, B 8, p. 2; R 1907, p. 61;
 1908, p. 64; 1909, p. 58; 1910,
 p. 63; 1911, pp. 59, 60; 1914,
 p. 72; 1915, p. 76; 1916, p. 57;
 1917, p. 76; 1918, p. 87; 1919,
 p. 56; 1920, p. 60; 1921, p. 48;
 1923, p. 13; 1924, p. 28.
 Matanuska, B 8, p. 2; R 1922,
 p. 6; 1923, p. 13; 1925, p. 20;
 1928, p. 21; 1929, p. 25.
 Mendenhall, B 82, p. 24.
 Sitka, B 1, p. 14; B 82, p. 23;
 R 1900, p. 30; 1901, p. 250;
 1903, p. 318; 1923, p. 13.
 Yakutat, B 48, pp. 14, 33.
- moldy**—
 cattle affected, R 1915, p. 79.
 sheep affected, R 1916, p. 62.
 waste fertilizing value, B 1, p. 15.
- Silos**—
 at Kalsin Bay, R 1908, p. 59; 1910,
 p. 40.
 at Kenai, B 82, p. 34; R 1905, p. 66.
 at Kodiak, R 1908, p. 19; 1910, p.
 60; 1911, pp. 30, 53; 1919, p. 18;
 1924, p. 38.
 at Matanuska, R 1922, p. 13; 1926,
 p. 29.
 at Sitka, B 1, p. 14; R 1900, pp. 29,
 30; 1901, p. 250; 1902, p. 233.
 at Yakutat, B 62, p. 24.
 early, in Alaska, B 8, p. 3; B 48,
 p. 19; B 82, pp. 24, 25.
- Silver**, natural, R 1919, p. 31.
- Silverbush**—
 feeding value, R 1928, p. 18.
 notes, R 1908, p. 57.

- Silvertop. See *Deschampsia cespitosa*.
 Simeonofski Island, B 8, p. 4.
See also Farming.
- Sirup, sugar beet. See Molasses.
- Sitka—
 commercial dairying, R 1929, p. 45.
 day length. *See* Day length.
 location, settlement, B 48, pp. 26, 27;
 B 62, p. 47; R 1912, p. 10; 1926,
 p. 1.
 station—
 buildings and improvements, B 62,
 p. 8; B 82, pp. 28, 48, 49; R
 1901, pp. 240, 248, 249; 1902,
 pp. 233, 243, 244; 1903, p. 318;
 1904, p. 266; 1906, p. 14;
 1917, p. 21; 1920, p. 5; 1922,
 p. 13; 1924, p. 8; 1927, p. 6.
 Castle Hill, B 62, p. 40; B 82,
 pp. 6, 28.
 establishment, B 62, p. 3; B 82,
 p. 6; R 1903, pp. 314, 315.
 land clearing, B 82, p. 25; R
 1902, p. 244; 1903, p. 317;
 1904, p. 266; 1913, p. 13.
 land reservation and survey, B 62,
 pp. 9, 39; R 1903, p. 314.
 staff changes, R 1929, p. 1.
 weather data, B 48, pp. 7, 8; B 62,
 p. 51; B 82, p. 53; R 1900, p. 78;
 1901, p. 352; 1902, pp. 234, 296,
 297; 1903, p. 385; 1904, pp.
 265, 355; 1905, p. 94; 1906, p. 69; 1907,
 p. 88; 1908, p. 72; 1909, p. 74;
 1910, pp. 9, 76; 1911, p. 79; 1912,
 p. 95; 1913, p. 79; 1914, p. 95;
 1915, p. 99; 1916, pp. 82, 84, 90;
 1917, p. 95; 1918, p. 103; 1919, p.
 88; 1920, p. 74; 1921, pp. 7, 57;
 1922, p. 23; 1923, p. 36; 1924,
 pp. 1, 46; 1925, pp. 1, 39; 1926,
 p. 39; 1927, p. 37; 1928, pp. 3,
 37; 1929, pp. 3, 55.
See also Farming; Frost-free period,
 Anchorage; Soils.
- Skagway**—
 commercial dairying, R 1929, p. 45.
 soils. *See* Soils.
 to White Horse trail, R 1900, p. 45.
 to White Horse, survey. *See* Survey.
 weather data, C 1b, p. 2; B 82, p. 53;
 R 1900, p. 79; 1902, p. 299; 1903,
 p. 385; 1904, p. 356; 1905, p. 95;
 1906, p. 71; 1907, p. 90; 1908, p.
 74; 1909, p. 76; 1910, p. 85; 1911,
 p. 83; 1912, p. 95; 1913, p. 79;
 1916, p. 82; 1918, p. 103; 1919,
 p. 88; 1920, p. 74; 1921, p. 57;
 1922, p. 23; 1923, p. 36; 1924, p.
 46; 1925, p. 39; 1926, p. 39; 1927,
 p. 38; 1928, p. 37; 1929, p. 55.
See also Farming.
- Skins, animal**, laws governing sale, C 1b,
 p. 17.
Skins, animal, market value, R 1901, p.
 345.
Skunk cabbage—
 as pot herb, B 48, p. 16.
 cattle affected, B 62, p. 27.
See also Cabbage.
- Slabs for drainage and ditching, B 1, p. 12;
 B 2, p. 20; B 7, p. 8; R 1901, p. 249.
 Sleds for breaking trails, R 1903, p. 337.
Slime mold. *See* *Plasmodiophora brassicae*.
"Slocan." *See* Algae, marine.
"Slope." *See* Algae, marine.
- Slugs**—
 control, R 1920, p. 20.
 on pansies, R 1910, p. 27.
Sluice boxes. *See* Boxes.
- Smallpox** in Alaska, C 1b, p. 4.
Smilax culture, Sitka, R 1919, p. 29; 1921,
 p. 15.
Smith, Middleton, editorial on Alaska, R
 1902, p. 291.
Smiths Lake, R 1905, p. 17.
Smut of grain, B 6, p. 15; R 1915, pp. 44,
 74; 1924, p. 18; 1925, pp. 11, 22; 1929,
 p. 11.
- Snapdragon culture**—
 Fairbanks, R 1915, p. 52; 1916, p. 49;
 1921, p. 31; 1926, p. 19.
 Rampart, R 1916, p. 37; 1918, p. 53;
 1919, p. 43.
 Sitka, B 82, p. 22; R 1914, p. 26; 1915,
 p. 38; 1917, p. 20; 1926, p. 10; 1927,
 p. 12.
- Sneezeweed**. *See* Sneezewort.
- Sneezewort culture**—
 Matanuska, R 1927, p. 21.
 Sitka, R 1911, p. 22; 1915, p. 37;
 1917, p. 16; 1927, p. 12.
- Snipe protection in Alaska**, C 1b, p. 17.
Snowball. *See* *Viburnum tomentosum*.
- Snowberry culture**, Sitka, R 1924, p. 8;
 1925, p. 7.
- Snowfall**—
 coast region, C 1b, p. 4.
 Fairbanks, R 1921, p. 23; 1924, p. 18;
 1929, p. 9.
 interior, C 1b, p. 4; B 7, p. 4.
 Kenai, C 1b, p. 15.
 Ketchikanstock, R 1901, p. 301.
 Kodiak, R 1921, p. 45.
 Matanuska, R 1920, p. 48; 1921, p. 16;
 1924, p. 9; 1928, p. 17.
 Point Barrow, R 1902, p. 292.
 Rampart, R 1918, p. 10; 1920, p. 20.
 relation to ground moisture, R 1923,
 p. 3; 1924, p. 9; 1925, p. 9.
 Valdez side of mountains, R 1903, p.
 336.
- Snow-in-summer**. *See* *Cerastium tomentosum*.
- Snow-on-the-mountain culture**, Sitka, R
 1927, p. 12.
- Soap as insecticide**, R 1906, p. 57; 1920,
 p. 20.
- Sod ground productivity**, B 82, p. 23.
- Sod houses**, B 48, p. 26.
- Sodium nitrate as fertilizer**, B 2, p. 41;
 B 7, p. 10; R 1910, pp. 33, 49; 1912;
 pp. 50, 67; 1913, p. 37; 1914, p. 70; 1916,
 pp. 51, 52; 1924, pp. 15, 28; 1925, p. 15.
- Soil**—
 acidity, correcting, B 2, p. 14; B 7, pp.
 5, 6, 10.
 aeration. *See* Aeration.
 binders, B 62, p. 49; R 1904, p. 284;
 1912, p. 71.
 erosion by snow water, R 1918, p.
 56.
 erosion of volcanic, R 1912, pp. 70,
 71; 1914, p. 66; 1915, p. 69.
 erosion prevention, R 1928, p. 9.
 fertility maintenance, B 6, p. 18; R
 1905, p. 13; 1910, p. 38; 1912, pp.
 48, 49; 1913, p. 35; 1914, pp. 52,
 53; 1916, pp. 17, 63; 1925, p. 13.
See also Moisture conservation;
 Rotation.
- Soils**—
 Alaskan, B 2, p. 14; B 6, p. 5; B
 7, p. 5; B 48, p. 10; C 1b, p. 5;
 R 1903, p. 321; 1914, pp. 52, 53.
 alluvial, B 7, p. 5.
 analyses, B 48, p. 11; R 1904, pp.
 286, 287; 1905, p. 25.
 coarse materials and fine earth in, B
 48, pp. 10, 11.
 coast region, B 48, p. 30.
 Copper River Valley, R 1902, p. 266;
 1903, p. 339.
 Dunbar, R 1929, pp. 38, 39.
 evaporation, prevention, R 1917, p. 16.
 Fairbanks, R 1914, p. 52.
 Frigid Zone, R 1910, p. 33; 1912, p.
 49; 1913, pp. 35, 36.
 frost depth in. *See* Frost, ground.
 Healy and Lignite, R 1928, p. 29.
 interior, B 6, p. 5.
 Kusilof, R 1929, p. 40.
 landslide effects. *See* Landslide.
 Matanuska Valley, C 1a, p. 27; C 1c,
 p. 8.
 moisture—
 clover effects, R 1920, p. 42.
 determinations, B 62, p. 18.

Soils—Continued.

new, B 1, pp. 8, 14.
 Point Barrow, R 1902, p. 292.
 sandy, fertilizing, R 1914, p. 53.
 Shungnak, R 1915, p. 92.
 Sitka, R 1905, p. 25.
 Skagway, B 62, pp. 15, 16.
 southeastern Alaska, B 9, p. 7.
 southwestern Alaska, B 9, p. 4.
 stations, B 4, p. 5; B 6, p. 5.
 Tanana Valley, B 9, p. 9.
 temperature charts, B 62, pp. 18, 19.
 temperatures at—
 Copper Center, R 1902, p. 295;
 1903, p. 382; 1904, p. 354;
 1905, p. 92.
 Eagle, R 1900, pp. 73, 77; 1901,
 p. 350; 1902, p. 296.
 Fort Yukon, R 1900, pp. 73, 77;
 1901, pp. 350, 351.
 Holy Cross, R 1901, p. 351.
 Kenai, R 1900, pp. 73, 76; 1901,
 pp. 348, 349; 1902, p. 295;
 1903, p. 383; 1904, p. 353;
 1905, p. 93; 1906, p. 68.
 Rampart, R 1900, p. 58.
 Sitka, B 62, p. 18; R 1900, pp.
 73–76; 1901, pp. 345–348; 1902,
 p. 294; 1903, p. 382; 1904,
 p. 352; 1905, pp. 91, 92; 1906,
 p. 67.
 Skagway, B 62, p. 18.
 "warm," B 6, p. 5; B 7, p. 6; R 1901,
 pp. 242, 299.
 water-logged, reclamation, B 1, p. 15.
 Yukon Valley, B 62, p. 38.
See also Ashes, Icianic.

Solanum commersonii, R 1909, p. 40.

Solidago orophila, R 1908, p. 57.

Solomon weather data, R 1908, p. 80;
 1909, p. 82.

See also Farming.

Sorbaria assurgens, R 1929, p. 17.

Sorbus—

acuparia, R 1922, p. 13.

sambucifolia, B 48, p. 28.

South Fork River, R 1901, p. 286.

See also Topography.

South slopes v. north, advantages. *See*
 North v. south slopes.

Southeastern Alaska Fair Association,
 R 1923, p. 25.

Soybean—

culture—
 Copper Center, R 1907, p. 53.

Fairbanks, R 1921, p. 31; 1928,
 p. 12.

in interior Alaska, R 1923, p. 13.

Matanuska, R 1927, p. 19.

Sitka, R 1928, p. 9.

photoperiodism, R 1921, p. 31.

silage, R 1923, p. 13.

Spearmint culture, Sitka, R 1914, p. 24.

Spelt culture—

Copper Center, R 1903, p. 348.

Matanuska, R 1918, p. 76.

Wood Island, R 1903, p. 363.

Spergula—

arvensis, B 48, p. 20.

maxima, B 82, p. 19.

spp. *See* Spurry.

Sphaerotheca—

humuli on currants and salmonberries,

R 1915, p. 40.

mors-uvae on gooseberries, R 1914, p.

27; 1915, p. 40.

pannosa on roses, R 1915, p. 40.

Spiders on greenhouse plants, R 1920, p. 20.

Spinach—

beet. *See* Swiss chard.

cultural directions, B 2, p. 38; B 7,

p. 25; R 1901, p. 339.

culture—

Copper Center, R 1904, p. 330;

1905, p. 52.

Fairbanks, R 1917, p. 70; 1928,

p. 14.

Spinach—Continued.

culture—continued.

Kenai, B 82, p. 33; R 1901, p.
 263; 1902, p. 248; 1903, p. 357;
 1904, p. 306.

Kodiak, B 82, p. 38.

Rampart, R 1905, p. 59; 1909, p.
 50; 1911, p. 45; 1919, pp. 12,
 41; 1920, p. 33.

Sitka, B 62, p. 15; B 82, p. 20;
 R 1900, p. 23; 1910, p. 19;
 1912, p. 23; 1914, p. 23; 1915,
 p. 36; 1918, p. 27; 1921, p. 12;

1924, p. 4; 1925, p. 6; 1926,
 p. 6; 1927, p. 12; 1928, p. 8;
 1929, p. 7.

Skagway, B 62, p. 17.

Wood Island, R 1902, p. 257.

Spiraea—

aruncus, R 1911, p. 23.

aurea, R 1904, p. 297.

bumalda anthony waterer, R 1922,
 p. 12.

daridit, R 1917, p. 20.

filipendula, R 1917, p. 20.

opulifolia aurea, R 1922, p. 12.

salicifolia, R 1904, p. 296; 1917, p.
 15; 1918, p. 31.

sorbifolia, R 1904, p. 297.

thunbergii, R 1910, p. 26; 1917, p. 15;
 1918, p. 15; 1919, p. 31; 1919,
 p. 25; 1917, p. 15; 1918, p. 31; 1919,
 p. 28; 1921, p. 22.

venusta, R 1911, p. 23; 1915, p. 38;
 1917, p. 20.

Spruce—

as windbreak, B 2, p. 18; B 7, p. 11.
 black, C 1b, p. 5.

growing regions, C 1b, p. 3; B 6, pp.
 6, 8; B 7, p. 6; B 48, p. 4; B 62,
 p. 33; R 1900, pp. 53, 55, 57; 1901,
 p. 284; 1902, p. 267; 1910, p. 39.

gun, B 48, p. 12.

roots, use in weaving, B 48, p. 15.

Sitka, B 2, p. 14; B 48, p. 5.

transplanting, B 2, p. 18.

white, R 1903, p. 24.

Spurry—

as cattle feed, R 1909, p. 62; 1919,
 p. 58.

culture—

Kodiak, R 1919, p. 58.

Wood Island, R 1902, p. 258;
 1904, p. 333.

fertilization, R 1913, p. 56.

sand, R 1909, p. 62; 1913, p. 56.

Squash—

cultural directions, B 2, p. 45; B 7,
 p. 31.

culture—

Fairbanks, R 1916, p. 48.

Rampart, R 1917, p. 57; 1919,
 p. 41.

market value, R 1912, p. 78.

Squaw Harbor. *See* Farming.

Squirrels—

crops damaged, R 1904, p. 341.

protection in Alaska. C 1b, p. 18.

Stack burning, R 1911, p. 59; 1917, p. 58.

Stamp mills, B 48, p. 23.

Steam Whaling Company. *See* Pacific.

Steamers—

arrival at Aleutian Islands, R 1928,
 p. 28.

landing places, B 48, p. 27; B 62, p.

42; B 82, pp. 9, 42.

Steel Creek, R 1901, pp. 285, 299.

Stewart Divide, location, R 1903, p. 338.

Stewart River Valley. *See* Farming.

Stikine River, B 48, pp. 14, 19.

*Stock beet*s. *See* Mangels.

Stocks—

dwarf German, R 1902, p. 243.

evening-scented, R 1914, p. 26.

six weeks, R 1926, p. 10.

sweet-scented, R 1927, p. 12.

Stocks—Continued.

ten weeks, B 82, p. 22; R 1904, p. 341; 1917, p. 20; 1919, p. 43; 1920, p. 17; 1924, p. 8.

Stokesia cyanca culture, Sitka, R 1917, p. 20.

Stomach troubles in humans in Alaska, C 1b, p. 4.

Stone for drainage and ditching, B 1, p. 13; B 2, p. 20; B 7, p. 8; R 1900, p. 16.

Storm covers for shocks, B 82, p. 12.

Straw—
as cattle feed, B 8, p. 2.
freight rates, B 6, p. 20.

Strawberries—

cultural directions, B 4; R 1918, p. 52.
culture—
Copper Center, R 1905, p. 54; 1908, p. 56.

Fairbanks, R 1910, p. 58; 1912, p. 56; 1913, p. 34; 1914, p. 48; 1915, p. 51; 1916, p. 48; 1917, p. 70; 1918, p. 69; 1920, p. 45; 1921, p. 30; 1922, p. 10; 1927, p. 28; 1928, p. 15; 1929, p. 17.

Kenai, R 1902, p. 247; 1903, p. 355; 1905, p. 65.

Kodiak, R 1916, p. 65; 1920, p. 62.

Matanuska, R 1916, p. 68; 1919, p. 76; 1920, p. 58; 1921, p. 22; 1924, p. 16; 1925, p. 17; 1926, p. 29; 1927, p. 21; 1929, p. 24.

Rampart, R 1907, p. 49; 1908, p. 43; 1915, p. 22, 67; 1916, p. 37; 1917, pp. 27, 55; 1918, p. 51; 1919, p. 42; 1920, p. 35; 1921, p. 43; 1922, p. 10; 1924, p. 26; 1925, p. 32.

Sitka, R 1902, p. 243; 1903, p. 320; 1904, p. 295; 1905, pp. 9, 33; 1906, pp. 11, 29; 1907, pp. 23, 41; 1908, pp. 12, 28-30; 1909, pp. 11-14, 38; 1910, pp. 10, 12; 1911, p. 10; 1912, p. 10; 1913, p. 7; 1914, p. 11; 1915, pp. 8, 29; 1916, p. 6; 1917, p. 13; 1918, p. 22; 1919, p. 20; 24; 1920, p. 13; 1921, p. 13; 1922, p. 10; 1923, p. 17; 1924, p. 6; 1925, p. 1; 1926, p. 2; 1927, p. 9; 1928, p. 3; 1929, p. 5.

Interior Alaska, B 4, p. 10.

diseases, R 1915, p. 40, 41.

growing commercially, B 4, p. 2.

history in Alaska, B 4, p. 2.

hybridization, B 4, pp. 6-10; R 1908, pp. 29, 30; 1909, p. 11; 1910, p. 12; 1911, p. 10; 1912, p. 10; 1913, p. 7; 1915, p. 67; 1916, p. 6; 1919, p. 24.

improved, production, B 4.

market value, R 1909, p. 30; 1914, p. 81; 1916, p. 76.

rabbit damaged, R 1925, p. 17.

winter protecting, B 4, p. 12.

Strawberry—

"bright" growth, B 7, p. 19.
Hollis, description, B 4, p. 6.
wild, of the coast region, B 4, p. 3; R 1906, p. 12; 1909, p. 11.
wild, of the interior, B 4, p. 4.

Strawberry Point weather data, R 1925, p. 40.

See also Agricultural areas.

Strelma weather data, R 1918, p. 103; 1919, p. 88.

Stubble land, R 1926, p. 13.

Stumps, removing, B 1, pp. 9, 10; B 6, p. 6; R 1901, pp. 251, 252; 1907, p. 30.

Sugar—

market value, C 1b, p. 12; C 1c, p. 23; R 1903, p. 341; 1907, p. 20.

sirup for bees, R 1906, p. 14.

Sugar beets—

analyses, R 1918, pp. 17, 78; 1919, p. 75; 1926, pp. 17, 24.
cost of production, R 1925, p. 15; 1926, p. 18.

culture—

Fairbanks, R 1918, p. 67; 1919, p. 52; 1926, p. 17.

Kenai, R 1904, p. 307.

Kodiak, R 1916, p. 64.

Matanuska, R 1918, pp. 17, 78; 1919, p. 74; 1920, pp. 10, 57; 1921, p. 21; 1925, p. 15; 1926, pp. 23, 27, 29.

Rampart, R 1911, p. 44; 1913, p. 48; 1918, p. 51; 1919, p. 41; 1920, p. 32; 1921, p. 43.

fertilization, R 1926, p. 17.

molasses from. *See* Molasses.

rotation with, B 6, p. 19.

seed production, R 1920, p. 32.

See also Beets; Mangels.

Sulphate of—

copper as fungicide and insecticide, R 1920, p. 20.
notash. *See* Potassium sulphate.

Sulphur—

dip for sheep, R 1913, p. 60.
fungicidal value, R 1915, p. 40; 1920, p. 20.

Sulphuric acid for determining fat in milk, R 1907, pp. 67, 72.

Sulphurous gases, vegetation affected. *See* Vegetation.

Sulzer weather data, R 1916, p. 90; 1917, p. 96.

See also Farming.

Sumdum. *See* Farming.

Summit weather data, R 1906, p. 73.

Sun—

intensity at—

Fort Yukon, R 1900, pp. 56, 57.

Matanuska, R 1920, p. 10.
maximum elevation, winter, Sitka, R 1915, p. 38.

midnight. *See* Arctic day and night.

potato sprouts affected, R 1927, p. 20.

Sunflowers—

as cattle feed, R 1926, p. 18.

culture—

Fairbanks, R 1907, p. 16; 1919, p. 52; 1923, p. 13; 1926, p. 18; 1928, p. 12; 1929, p. 15.

Kodiak, R 1918, p. 87; 1919, p. 58.

Matanuska, R 1919, p. 71; 1920, p. 55; 1922, p. 7; 1923, p. 13; 1924, p. 15.

Petersburg, R 1915, p. 83.

Rampart, R 1920, p. 36.

Sitka, R 1911, p. 22; 1918, p. 33.

silage, B 8, p. 2; R 1919, pp. 58, 71;

1920, p. 55; 1923, p. 13; 1924, p. 15.

Sunrise weather data, R 1904, p. 357; 1905, p. 97; 1906, p. 72; 1907, p. 91; 1908, p. 76; 1909, p. 78; 1910, p. 85; 1911, p. 83; 1912, p. 95; 1913, p. 79; 1914, p. 95; 1916, p. 82.

See also Farming.

Sunshine, hours daily, Matanuska, C 1c, p. 7.

Supplies, hauling costs. *See* Charges for packing.

Surface packing, crops affected, R 1927, p. 15.

Survey—

agricultural—

Chiniak Point, R 1929, p. 41.

Circle, R 1900, p. 52.

coast region, B 48, pp. 4-28; B 62, pp. 3, 48.

Copper River and Prince William Sound, R 1900, p. 33; 1901, p. 303; 1902, p. 265.

Dawson to Eagle, R 1900, p. 49.

Dunbar, R 1929, p. 38.

Eagle and neighborhood, R 1900, p. 50.

Eagle to Valdez, R 1901, p. 283.

Survey—Continued.
agricultural—continued.

- Fortymile country, R 1901, p. 298.
- Healy and Lignite, R 1928, p. 29.
- Kodiak, R 1929, p. 41.
- Kusilof region, R 1929, p. 40.
- Kuskokwim Valley, R 1900, p. 34.
- Nome and St. Michael, R 1900, p. 65.
- Pashikshak Bay vicinity, R 1929, p. 41.
- Skagway to White Horse, R 1900, p. 45.
- southern boundary to Kodiak and Long Island, B 48, pp. 29-35.
- Tanana Valley and tributaries, R 1900, p. 61; 1901, pp. 301, 309; 1910, pp. 65-69.
- Ugak Bay lands, R 1929, p. 43.
- White Horse to Dawson, R 1900, p. 47.
- Yukon Valley, B 48, pp. 35, 36; B 62, p. 37; R 1900, pp. 53, 62, 65; 1901, pp. 273, 276, 277; 1927, p. 6.
- botanical.** See Report on botanical survey.
- bunch-grass range at Healy and Lignite, R 1928, p. 29.
- Copper Center. See Copper Center station land reservation and survey.
- dairy situation, R 1929, p. 44.
- Fairbanks station. See Fairbanks station land reservation and survey.
- forest lands, C 1b, p. 8.
- Fort Yukon, R 1900, pp. 7, 55; 1903, p. 317.
- See also Survey, agricultural, Yukon Valley.
- garden, southeastern Alaska, R 1912, pp. 45, 77.
- grazing possibilities of Aleutian Islands, R 1928, p. 26.
- homesteads, R 1923, pp. 17, 19; 1924, p. 38.
- Kenai. See Kenai station land reservation and survey.
- Kodiak. See Kodiak station land; Survey, agricultural.
- Matanuska. See Matanuska station land reservation.
- public lands, R 1901, p. 342.
- Rampart. See Rampart station land reservation.
- Sitka. See Sitka station land reservation and survey.
- Surveying, a ditch, directions, B 7, p. 8.
- Surveyors' charges in Alaska, B 62, p. 45; B 82, p. 52.
- Susitna River navigation possibilities, B 62, p. 30.
- Susitna Valley—
 - accessibility, settlement, C 1b, p. 10.
 - width, B 82, p. 41; R 1901, p. 298.
- See also Agricultural areas; Farming.
- Swainsonas, culture, Sitka, R 1919, p. 29.
- Swampberries, growing regions, R 1902, p. 267.
- Swan protection in Alaska, C 1b, p. 17.
- Swanson Harbor. See Farming.
- Sweden, weather data, B 48, pp. 7, 8.
- Swedes. See Rutabagas.
- Swedish Royal Agricultural Society, R 1900, p. 19.
- Sweet alyssum culture—
 - Fairbanks, R 1915, p. 52.
 - Kenai, R 1905, p. 65.
 - Rampart, R 1916, p. 37; 1917, p. 57; 1918, p. 54; 1919, p. 43; 1920, p. 35.
 - Sitka, B 82, p. 22; R 1902, p. 243; 1910, p. 29.
- Sweet basil culture, Sitka, R 1926, p. 6.
- Sweet flag. See *Acorus japonicus*.
- Sweet marjoram culture, Sitka, R 1914, p. 24; 1926, p. 6.
- Sweet peas, culture—
 - Fairbanks, R 1914, p. 48; 1915, p. 52; 1916, p. 49; 1917, p. 70; 1921, p. 31.

Sweet peas, culture—Continued.

- Kenai, R 1905, p. 65.
- Rampart, R 1905, p. 60; 1918, p. 53; 1919, p. 43.
- Seward, R 1913, p. 70.
- Sitka, B 82, p. 21; R 1902, p. 243; 1910, p. 28; 1914, p. 26; 1915, p. 38; 1920, p. 17; 1926, p. 10; 1927, p. 12.
- Sweet-william culture—**
 - Fairbanks, R 1926, p. 19.
 - Sitka, B 82, p. 22; R 1911, p. 22; 1915, p. 38; 1917, p. 18; 1927, p. 12.
- Sweetbriar.** See Eglantine.
- Sweetclover.** See Clover.
- Swine—**
 - cannibalism in, R 1918, p. 70.
 - cost of production, R 1916, pp. 16, 50.
 - diseases, C 1b, p. 15; R 1912, pp. 48, 56; 1915, p. 16; 1916, p. 49; 1922, p. 10; 1929, p. 32.
 - feeding, C 1c, p. 11; R 1912, p. 56; 1917, p. 71; 1924, p. 25; 1929, p. 31.
 - Hampshire introduction, R 1920, p. 2.
 - house, description, R 1914, p. 52.
 - market value, R 1900, p. 29; 1911, pp. 51, 67; 1912, p. 56; 1915, p. 54; 1916, p. 50.
 - meat, dietary effects, B 48, p. 21.
 - raising—
 - Fairbanks, C 1b, p. 15; R 1909, pp. 28; 1912, pp. 48, 56; 1914, pp. 28, 51; 1915, pp. 16, 54; 1916, pp. 16, 49, 50; 1917, p. 71; 1918, p. 69; 1920, p. 2; 1921, pp. 31, 32; 1922, p. 10; 1923, p. 25; 1924, pp. 24, 25; 1925, p. 27; 1926, p. 11; 1927, p. 29.
 - Haines, R 1910, p. 71.
 - Matanuska, R 1918, p. 83; 1919, p. 78.
 - Rampart, R 1929, p. 31.
 - Wood Island, R 1906, p. 61.
 - sale of surplus, R 1915, p. 16; 1921, p. 32; 1924, p. 25.
 - use in rotation system, R 1914, p. 28.
 - Swiss chard—**
 - culture—
 - Fairbanks, R 1928, p. 14; 1929, p. 17.
 - Rampart, R 1911, pp. 26, 45; 1917, p. 56; 1918, p. 51; 1920, p. 33.
 - Sitka, R 1912, p. 21; 1918, p. 26; 1919, p. 21; 1921, p. 8; 1924, p. 4; 1925, p. 6; 1926, p. 5; 1927, p. 12; 1928, p. 8; 1929, p. 7.
 - market value, R 1916, p. 76.
 - Sycamore trees, R 1924, p. 7.
 - Symporicarpus—**
 - racemosus. See Snowberry.
 - vulgaris, R 1922, p. 12.
 - Syringa—**
 - amurensis, R 1929, p. 17.
 - vulgaris, R 1917, p. 15.
 - See also Lilacs.
 - Tacotna weather data, R 1919, p. 89.
 - See also Farming.
 - Talkeetna weather data, R 1919, p. 89; 1920, p. 74; 1921, p. 57; 1922, p. 24; 1923, p. 37; 1924, p. 46; 1925, p. 40; 1926, p. 40; 1927, p. 38; 1928, p. 38; 1929, p. 55.
 - Tanana Crossing—**
 - location, R 1905, p. 86.
 - weather data, R 1904, p. 360; 1905, p. 99; 1906, p. 74.
 - See also Farming.
 - Tanana, location, R 1901, p. 274; 1925, p. 10.
 - Tanana Mines Railroad, R 1905, p. 15.
 - Tanana River, R 1901, p. 302; 1905, p. 18.
 - Tanana Valley—
 - agricultural associations, R 1921, p. 32; 1929, p. 10.

- Tanana Valley—Continued.
 climate. *See Climate.*
 colonizing, R 1929, p. 37.
 crop production, R 1921, p. 32.
 day length. *See Day length.*
 fair association, R 1929, p. 10.
 frost-free period. *See Frost-free period.*
 grazing lands, R 1901, p. 309; 1911, pp. 49, 50.
 possibilities, R 1901, p. 309.
 settlement, R 1900, p. 61; 1901, p. 301; 1905, p. 18; 1910, p. 67.
 survey. *See Survey.*
 weather data, R 1910, p. 85; 1911, p. 83; 1912, p. 96; 1913, p. 80; 1914, p. 95; 1915, p. 99; 1916, pp. 82, 94; 1917, p. 96; 1918, p. 103; 1919, p. 89; 1920, p. 74; 1921, p. 58; 1922, p. 24; 1923, p. 36; 1924, p. 46; 1925, p. 40; 1926, p. 40; 1927, p. 38; 1928, p. 38; 1929, p. 55.
See also Agricultural areas; Farming; Soils; Topography.
- Tanks, septic, R 1919, p. 62.
 Tapke's method for smut control, R 1929, pp. 11, 12.
- Tar paper—
 coldframe covering, B 7, p. 13.
 market value, B 82, p. 25.
 shields for plants, B 7, p. 21; R 1916, p. 9; 1917, p. 8; 1919, p. 21; 1920, p. 18; 1925, p. 4.
- Taraxacum*—
dens-leonis. *See Dandelions.*
taraxacum, R 1908, p. 57.
- Tare culture. *See Vicia sativa.*
- Tarred felt for insect control, R 1915, pp. 33, 41.
- Tatekluk, R 1900, p. 34.
- Taxation in Alaska, C 1c, p. 23.
- Taylor weather data, R 1907, p. 97.
- Tazima location, R 1901, pp. 292, 304.
See also Farming; Topography.
- Tchatowkin weather data, B 62, p. 51.
See also Johnny's Village.
- Tea—
 Hudson Bay, B 48, p. 15.
 Labrador, B 48, p. 15.
 market value, R 1903, p. 341.
 Teaming as industry, R 1914, p. 43.
- Telkhil weather data, R 1904, p. 360; 1905, p. 98; 1906, p. 73; 1907, p. 93.
- Telegraph lines in Alaska, C 1b, p. 16; C 1c, p. 25; R 1901, pp. 275, 295, 306.
- Telephone service, R 1918, p. 72; 1919, pp. 12, 32, 64, 65.
- Teller Reindeer Station weather data, R 1902, p. 305; 1903, p. 389.
- Temperature—
 Alaska, B 62, p. 51; R 1901, p. 278.
 Alaska and Washington, D. C., compared, B 2, p. 10.
 haymaking affected, B 3, p. 7.
 minimum for cereals, B 6, p. 4.
 physiological constant for plants, B 48, p. 24.
See also Climate; Soils, temperatures; Weather data.
- Tenakee. *See Farming.*
- Terns, protection in Alaska, C 1b, p. 17.
- Terra cotta piping costs, C 1a, p. 16.
- Terrestrial magnetism. *See International Polar Expedition.*
- Tetragonia expansa*, R 1915, p. 36.
- Thane weather data, R 1916, p. 91.
 "The Barns," R 1901, p. 295.
 "The Dome," R 1901, pp. 284, 299.
- Thimbleberries—
 diseases, R 1914, p. 27; 1915, p. 41.
 growing regions, B 48, p. 15.
See also Raspberry-thimbleberry.
 "Thirty Mile," R 1900, p. 47.
- Thlakusk,² B 48, p. 16.
- Thlinkeit Indians. *See Indians.*
- Threshing machine, first in northwest, R 1907, p. 18.
- Thrift. *See Armeria formosa.*
- Thuja*—
plicata, B 48, p. 28.
gigantea, B 48, p. 6.
See also Cedar.
- Thyme—
 cultural directions, B 2, p. 46; B 7, p. 32.
 culture—
 Sitka, B 62, p. 15; R 1914, p. 24; 1915, p. 37; 1917, p. 11; 1926, p. 6.
 Skagway, B 62, p. 17.
- Ticks, sheep, R 1913, p. 60.
- Tidal wave, pigs affected, B 48, p. 21.
 Tide flats, B 48, pp. 5, 12; R 1904, p. 273.
- Tiekkell River, R 1901, p. 295.
- Tilia americana*, R 1922, p. 13.
- Tiling for drains. *See Drain tiles.*
- Timber—
 culture attempts, R 1900, p. 66.
 forest preservation, R 1903, p. 322.
 growing regions, C 1b, pp. 3, 5, 8; B 48, pp. 12, 32; R 1905, pp. 17, 23.
 laws governing, C 1b, p. 9.
- Timothy—
 culture—
 Copper Center, R 1902, p. 269; 1903, p. 349; 1904, p. 328; 1905, p. 50; 1906, p. 38; 1907, pp. 27, 53; 1908, p. 55.
 Fairbanks, R 1908, p. 47; 1909, p. 56; 1910, p. 57; 1911, p. 51; 1912, pp. 33, 51; 1928, p. 12.
 Kenai, R 1902, p. 252; 1903, pp. 359, 360; 1904, pp. 307, 308; 1905, pp. 62, 63; 1906, pp. 48, 49.
 Kodiak, R 1913, p. 57; 1916, p. 63.
 Matanuska, R 1918, p. 77; 1919, p. 71; 1920, p. 55; 1922, p. 7; 1927, p. 20.
 Rampart, R 1906, p. 47; 1907, pp. 30, 47; 1908, p. 39; 1909, p. 48; 1910, p. 51; 1911, p. 43.
 Sitka, B 82, pp. 11, 19; R 1902, p. 241; 1903, p. 334; 1904, p. 301; 1928, p. 9; 1929, p. 8.
 Wood Island, R 1903, p. 364; 1904, p. 334.
 feeding value, B 48, pp. 13, 14; R 1917, p. 77.
 fertilization, R 1913, p. 57.
 growing regions, B 48, pp. 4, 6, 13; R 1904, p. 280.
 market value, R 1912, p. 48; 1916, p. 51.
 wild. *See Phleum alpinum.*
- Tin, natural, R 1902, p. 268.
- Toadflax culture, Sitka, R 1918, p. 33; 1919, p. 27.
- Toads, insecticidal value, R 1904, p. 337.
- Tobacco—
 culture—
 Fairbanks, R 1921, p. 31.
 Holy Cross, B 62, p. 37.
 Rampart, R 1920, p. 36.
 Sitka, R 1918, p. 33.
 insecticidal value, B 7, p. 21; R 1915, p. 13; 1920, p. 20; 1925, p. 4; 1928, p. 8.
 photoperiodism, R 1921, p. 31.
- Toglik. *See Farming.*
- Tok Valley, R 1901, p. 291.
- Tolovana River and Valley, R 1910, p. 68.
- Tolsona. *See Farming.*
- Tomatoes—
 culture—
 Coldfoot, R 1907, p. 86; 1909, p. 72.
 Copper Center, R 1903, p. 350.
 Fairbanks, R 1910, p. 58; 1911, p. 47; 1913, p. 34; 1914, p. 48; 1915, pp. 15, 51; 1916, p. 48; 1917, p. 70; 1918, p. 68; 1920, p. 45; 1926, p. 19; 1928, p. 14; 1929, p. 17.

Tomatoes—Continued.
culture—continued.

Hot Springs, R 1908, p. 21.
Matanuska, R 1920, p. 58.
Rampart, R 1907, p. 49; 1916, p. 36; 1917, p. 56; 1918, p. 56; 1919, p. 42; 1920, p. 34.
Sitka, R 1903, p. 328; 1915, p. 37; 1917, p. 8; 1919, p. 29; 1921, p. 12; 1926, p. 5; 1928, p. 8.
market value, R 1907, p. 15; 1909, p. 30; 1911, p. 49.

Tongas. *See* Indians.

Tongass National Forest, C 1b, p. 8.
Tongue, mark value, R 1903, p. 341.
Tonsino, R 1901, pp. 294, 305; 1902, p. 265.
Tonsino weather data, R 1907, p. 93; 1914, p. 95; 1915, p. 99.

See also Farming.

Topography—

Aleutian Islands and vicinity, B 48, p. 5; R 1928, p. 27.
Chesotchina River country, R 1901, p. 304.
Chiniak, R 1929, p. 42.
Circle, R 1900, p. 52.
coast region, B 62, p. 42; B 82, p. 9.
Copper River country, R 1901, pp. 303-309; 1902, p. 266; 1903, p. 338.
Dawson, R 1900, p. 47.
Dunbar, R 1929, p. 38.
Eagle to Valdez, R 1901, pp. 288-297.
Fortymile country, R 1901, p. 285.
Franklin Gulch, R 1901, pp. 285, 299, 300.
general, B 48, pp. 5, 30; B 62, p. 42.
Healy, R 1928, p. 29.
Juneau, B 48, p. 4.
Kimball's Pass, R 1901, pp. 294, 295, 305; 1902, p. 265.
Kodiak Island, B 5, p. 1; R 1904, p. 273; 1918, p. 84.
Kusilof, B 62, p. 48.
Kuskokwim Valley, R 1900, p. 34.
Liberty Creek country, R 1901, p. 284.
Lignite, R 1928, p. 29.
Matanuska Valley, C 1c, p. 8; R 1917, p. 81; 1918, p. 16.
Nenana Valley, R 1910, p. 68.
Rampart, R 1900, pp. 57, 58; 1901, p. 274; 1918, p. 10.
South Fork, R 1901, p. 286.
Tanana, R 1901, pp. 289, 290, 301, 302; 1910, p. 67.
Tazlina, R 1901, p. 292.
Tok Valley, R 1901, p. 291.
Ugak Bay country, R 1929, p. 43.
Yukon Flats, R 1900, p. 53.

Totanianika River country, R 1910, p. 68.
Totem poles, B 48, p. 26.

Tractors—

v. horses, B 6, p. 13; R 1917, p. 29; 1918, p. 14.

value, R 1919, p. 12; 1922, p. 15.

Tracy, J. E., report on vegetable and flower gardens. *See* Report on gardens.

Trails. *See* Roads

Trans-Alaskan military road. *See* Roads and trails.

Transactions, Highland and Agricultural Society of Scotland, B 48, p. 9.

Transportation facilities—

Aleutian Islands, R 1928, p. 28.
courtesies of companies, R 1900, p. 44; 1901, p. 264; 1915, p. 27.
general, B 62, p. 42; B 82, p. 9; C 1a, pp. 12, 28; C 1b, p. 9; R 1901, p. 275; 1916, p. 61.

interior, R 1900, p. 44; 1903, p. 336; 1904, p. 311.

Kachemak Bay country, B 82, p. 42.

Kodiak Island, B 48, p. 27.

Kusilof, R 1929, p. 40.

mail affected. *See* Mails.

Matanuska, C 1c, p. 12.

nursery stock affected, R 1906, p. 10; 1907, p. 21; 1908, p. 56; 1909, p. 9;

1916, p. 7; 1917, p. 13; 1920, p. 13;

1922, p. 11.

Transportation facilities—Continued.

Rampart, R 1910, p. 34.

See also Railroads; Roads and trails.
Transporting supplies. *See* Charges for packing.

Tree onion, cultural directions, B 2, p. 38; B 7, p. 25.

Tree Point *See* Farming.

Trees—

culture, Sitka, R 1915, p. 37; 1917, p. 15; 1918, p. 30; 1919, p. 26; 1924, p. 7.

transplanting, B 2, p. 18; B 7, p. 11.

Trifolium—

hybridum. See Clover, alsike.

incarnatum. See Clover, crimson.

lupinaster. See Lupinaster.

pratense. See Clover, red.

repens. See Clover, white.

Trisetum—

cernuum, B 48, p. 28; R 1904, p. 282.
spicatum, R 1908, p. 57.

subspicatum, B 48, p. 13.

subspicatum molle, R 1904, p. 282.

Tritonia sp., R 1917, p. 20.

Trondhjem weather data, B 48, pp. 7, 8.

Tsimplsheans. See Indians.

Tsuga—

heterophylla. See Hemlock.

mertensiana. See Hemlock.

pattonii, B 48, p. 28.

Tuberculin tests, intradermic and subcutaneous, B 5, p. 9.

Tuberculosis in—

cattle, B 5; B 8, p. 7; R 1916, p. 13; 1918, pp. 19, 89; 1919, pp. 8, 61; 1920, pp. 3, 61; 1921, p. 46; 1923, p. 23.

man, C 1b, p. 4.

Tuklukyet. See Nuklukayet.

Tulipa sylvestris. See Tulips.

Tulips—

cultural directions, R 1910, p. 29.

culture—

Fairbanks, R 1927, p. 28.
Sitka, C 2, p. 5; R 1920, p. 17;

1924, p. 8; 1925, p. 8; 1926, p. 8; 1927, p. 13; 1929, p. 7.

growth in United States, R 1923, p. 17.

Tuluksk. See Farming.

Tundra. R 1902, p. 292; 1914, p. 43.

Turf, fertilizing value, R 1919, p. 79.

Turkscap. See *Lilium superbium*.

Turn-Again-Arm Trading Co. See Farming, Resurrection Creek.

Turnips—

as stock feed, R 1910, p. 62; 1914, p. 50; 1919, p. 74; 1920, pp. 44,

57.

cost of production, R 1925, pp. 15, 25, 26.

cultural directions, B 2, p. 26; B 7, p. 17; R 1901, p. 339; 1912, p. 20; 1921, p. 12.

culture—

Copper Center, R 1903, p. 351; 1904, p. 330; 1905, p. 52; 1906, p. 37; 1907, p. 52; 1908, p. 51; 1911, p. 66.

Fairbanks, R 1908, p. 45; 1910, p. 58; 1912, p. 55; 1914, pp. 32,

50; 1915, pp. 14, 52; 1917, p. 69; 1918, p. 67; 1919, p. 52;

1920, p. 44; 1921, p. 29; 1925, p. 25.

Kenai, B 82, p. 33; R 1901, p. 263; 1902, p. 249; 1903, p. 357;

1905, p. 64.

Kodiak, R 1909, p. 62; 1910, p. 62; 1913, p. 56; 1915, p. 74;

1916, p. 65; 1919, p. 58; 1927, p. 14.

Matanuska, R 1916, p. 68; 1918, pp. 79, 80; 1919, p. 74; 1920,

p. 57; 1925, p. 15; 1926, p. 26; 1928, p. 21.

- Turnips—Continued.**
culture—continued.
Rampart, R 1901, p. 272; 1905, p. 59; 1906, p. 46; 1907, p. 48; 1908, p. 42; 1909, p. 50; 1911, pp. 27, 44; 1912, p. 66; 1913, p. 47; 1914, pp. 38, 65; 1915, p. 67; 1916, p. 36; 1919, p. 12; 1920, pp. 31, 34; 1924, p. 26.
Sitka B 62, p. 15; B 82, p. 21; R 1900, p. 23; 1903, p. 328; 1904, p. 300; 1905, p. 39; 1907, p. 40; 1908, p. 31; 1909, p. 41; 1910, p. 19; 1912, p. 19; 1914, p. 20; 1915, p. 34; 1917, p. 9; 1918, p. 25; 1919, p. 21; 1920, p. 19; 1921, p. 12; 1924, p. 2; 1926, p. 5; 1927, p. 12; 1928, p. 8; 1929, p. 7.
Skagway, B 62, p. 17.
Wood Island, R 1903, p. 366.
diseases, R 1915, p. 39.
fertilization, R 1913, p. 56.
growth north of Arctic Circle, R 1914, p. 32.
in rotation, R 1925, p. 24.
insect pests, R 1907, p. 24; 1918, p. 26; 1928, p. 8.
marketing and value, R 1911, p. 49; 1914, p. 81; 1916, p. 76; 1918, p. 83.
on volcanic soil, R 1912, p. 69.
seed—
distribution, R 1916, p. 52.
production, R 1913, p. 19; 1914, p. 65; 1915, p. 52; 1916, p. 46; 1920, p. 31; 1925, p. 32.
storing, R 1921, p. 12.
variety tests, R 1915, p. 34.
Turtlehead. See *Chelone glabra*.
Tussock grass culture, Kodiak, R 1918, p. 87.
Tussock grass, silver, Kenai, R 1905, p. 63.
Twelve-Mile-Road House. See Farming.
Twilight of the North, R 1901, p. 282.
Tyonek weather data, B 82, p. 54; R 1900, p. 80; 1902, pp. 301, 302; 1903, p. 387; 1904, p. 358; 1905, p. 96; 1906, p. 72; 1907, p. 92; 1908, p. 76; 1909, p. 78; 1916, p. 82.
See also Farming.
Typhoid fever in Alaska, C 1b, p. 4.
Ugak Bay. See Survey; Topography.
Ukamak Island, B 82, p. 40.
Ulex europeus. See Furze.
Ulmus—
americana, R 1922, p. 13.
campestris, R 1922, p. 13.
pupila, R 1922, p. 13.
scabra, R 1922, p. 13.
Umbelliferae, B 48, p. 28.
Unalakleet. See Farming.
Unalaska—
distance to Seattle, R 1928, p. 28.
vegetation, R 1904, p. 275.
weather data, B 48, pp. 7, 8; B 62, p. 51.
See also Farming.
Unga Island. See Farming.
Unimak Island, B 48, p. 21.
United States Department of Agriculture
commission to Alaska, B 48, pp. 1, 2, 3.
United States, northwestern crop failures, C 1b, p. 14.
Upper South Fork Valley, grazing, R 1901, p. 288.
Uspulun, grains affected, R 1924, pp. 18, 19, 20.
Utah-Idaho Sugar Co., R 1926, pp. 17, 24.
Uyak Bay. See Farming.
Vaccinium—
canadense, R 1901, p. 284.
macrocarpon. See Cranberry, eastern.
ovalifolium. See Cranberry.
oxycoccus. See Cranberry, bog.
parviflorum, R 1914, p. 15.
uliginosum mucronatum. See Huckleberries.
Vaccinium—Continued.
vitis-idaea. See Cranberry, native.
vitis-idaea minus, R 1929, p. 11.
Valdez—
agricultural capabilities, settlement, R 1900, p. 34; 1901, pp. 306, 307.
distance from Copper Center, R 1902, p. 265.
weather data, R 1909, p. 77; 1910, p. 85; 1911, p. 83; 1912, p. 96; 1913, p. 80; 1914, p. 96; 1915, p. 100; 1916, p. 82, 84, 91; 1917, p. 96; 1918, p. 104; 1919, p. 89; 1920, p. 75; 1921, p. 58; 1922, p. 24; 1923, p. 37; 1924, p. 47; 1926, p. 40; 1927, p. 38; 1928, p. 38; 1929, p. 56.
See also Farming; Roads and trails.
Valeriana—
capitata, R 1908, p. 58.
rubra, R 1917, p. 20.
Vanilla grass—
Alpine, R 1904, p. 280.
growing regions, uses, R 1904, p. 280.
Veal importation, B 6, p. 20.
Vegetable culture—
Copper Center, R 1903, p. 350; 1904, p. 330; 1905, pp. 12, 51; 1906, p. 36; 1907, p. 50; 1908, p. 49.
Fairbanks, R 1908, p. 44; 1909, p. 51; 1910, p. 58; 1911, p. 47; 1912, p. 55; 1913, p. 33; 1914, p. 48; 1915, p. 50; 1916, p. 48; 1917, p. 70; 1918, p. 68; 1920, p. 45; 1921, p. 29; 1923, p. 14; 1926, p. 19; 1928, p. 14.
Kenai, B 82, pp. 30, 32; R 1901, p. 262; 1902, pp. 245, 247; 1903, p. 355; 1904, p. 305; 1905, p. 63.
Kodiak, B 82, p. 37; R 1914, p. 72; 1915, p. 76; 1916, p. 65; 1919, p. 59; 1927, p. 14.
Matanuska, R 1918, p. 80; 1919, p. 76; 1920, p. 58; 1921, p. 21; 1924, p. 16; 1927, p. 21.
Rampart, R 1901, p. 272; 1905, p. 58; 1906, p. 46; 1907, p. 47; 1908, p. 41; 1909, pp. 20, 49; 1910, p. 53; 1911, pp. 26, 44; 1912, p. 66; 1913, p. 46; 1914, pp. 38, 64; 1915, p. 67; 1916, p. 35; 1917, p. 55; 1918, pp. 13, 47; 1919, p. 40; 1920, pp. 31, 33; 1921, pp. 43, 44; 1923, p. 14.
Sitka B 62, p. 13; B 82, p. 20; R 1900, p. 22; 1901, p. 247; 1902, p. 241; 1903, p. 323; 1904, p. 297; 1905, pp. 9, 34; 1906, p. 30; 1907, p. 24; 1911, p. 16; 1912, p. 16; 1913, p. 8; 1914, p. 17; 1915, p. 32; 1916, p. 9; 1917, p. 8; 1918, p. 25; 1919, p. 20; 1920, p. 18; 1921, p. 7; 1924, p. 2; 1926, p. 4; 1927, p. 10; 1928, p. 5; 1929, p. 5.
Skagway, B 62, p. 16.
Wood Island, R 1903, p. 364.
Vegetables—
abnormal flowering in, B 48, p. 17.
cultural directions, B 2; B 7; R 1901, p. 337; 1917, p. 55.
distribution, R 1922, p. 11.
importations, B 6, p. 20; R 1905, p. 23; 1914, p. 54; 1923, p. 19.
insect pests, B 62, p. 23; R 1901, pp. 262, 272.
on volcanic soil, R 1912, p. 69.
rabbit damaged, R 1901, p. 272.
storing in sand, B 7, p. 25.
Vegetation—
Aleutian Islands, vicinity, R 1928, p. 27.
Copper River Valley, R 1902, p. 267.
gas and volcanic ash effect, R 1912, p. 41; 1913, p. 55; 1914, p. 73.
soil conversion, B 2, p. 14; B 7, p. 5.
See also Ashes, volcanic soils and vegetation.
Velvet grass culture—
Copper Center, R 1905, p. 51; 1906, p. 38; 1907, p. 58; 1908, p. 54.

Velvet grass culture—Continued.

Rampart, R 1906, p. 47; 1907, p. 47; 1909, p. 48; 1910, p. 51.
Sitka, B 82, p. 19.

Venturia—

inæqualis, R 1915, p. 40.
pomi on apples, R 1914, p. 27.

Veratrum insecticidal value, R 1924, p. 2.

Verbena culture—

Holy Cross, B 62, p. 37.
Sitka, B 82, p. 22; R 1914, p. 26; 1915, p. 38; 1917, p. 20; 1927, p. 12.

Vetch—

and grass as feed, R 1928, p. 12.
and oats as feed. *See* Oats and vetch.
and rye as nurse crop, R 1926, p. 26.
annual, R 1923, p. 11.
as forage crop, B 82, p. 19; R 1921, p. 4.

as cattle and sheep feed, R 1925, p. 20; 1926, p. 26; 1929, p. 30.

as horse feed, R 1917, p. 27.

as soil builder, B 6, p. 18; B 7, p. 10;

R 1925, p. 25; 1926, p. 26.

barley and oat as feed. *See* Barley, oats, and vetch.

cost of production, R 1924, p. 14; 1925, p. 20.

culture—

Fairbanks, R 1909, p. 57; 1923, p. 11; 1924, p. 23; 1925, p. 25; 1927, p. 27; 1928, p. 12; 1929, p. 15.

Kenai, R 1904, p. 307.

Kodiak, R 1913, pp. 50, 56; 1917, p. 75; 1919, p. 58; 1920, pp. 59, 62.

Matanuska, R 1923, p. 11; 1924, p. 14; 1926, p. 26; 1927, p. 18; 1928, p. 21.

Rampart, R 1911, p. 43; 1913, p. 43; 1914, p. 57; 1915, pp. 19, 60; 1917, pp. 26, 37; 1918, pp. 12, 37; 1919, p. 38; 1920, pp. 7, 24; 1921, pp. 4, 36; 1923, p. 11; 1925, p. 31.

Sitka, B 82, pp. 11, 19; R 1909, p. 43; 1928, p. 9.

Wood Island, R 1903, p. 363; 1904, p. 333.

fertilization, R 1913, p. 50.

hairy, R 1904, p. 307; 1916, p. 34; 1923, p. 11.

hay production, R 1915, p. 60.
in rotation, R 1923, p. 13; 1925, pp. 14, 24; 1926, p. 15; 1927, p. 18; 1928, p. 24.

market value, R 1924, p. 14.
oats, and peas. *See* Oats, peas, and vetch.

on volcanic soil, R 1913, p. 56.
perennial, R 1923, p. 11.

pods, notes, R 1915, p. 60.
propagation, R 1916, pp. 21, 34; 1922, p. 6; 1923, p. 11.

purple-flowered, R 1915, p. 60; 1924, p. 23.

sand, R 1904, p. 333.

seed—
inoculation, R 1925, p. 25.
production, R 1915, p. 60; 1916, p. 21; 1921, pp. 4, 36; 1923, p. 11.

spring, R 1904, p. 307; 1923, p. 11.
variations, R 1915, p. 19.

winter, R 1920, p. 24.

woolly, R 1923, p. 11.

yellow-flowered, R 1915, p. 60; 1927, p. 27.

yields, R 1924, p. 14; 1928, p. 21.

Vetticost. *See* Cornsalad.

Viburnum—

opulus, R 1917, p. 15; 1921, p. 15.
See also Cranberry, high-bush.

opulus sterilis, R 1922, p. 12.

plicatum, R 1922, p. 12.
tomentosum culture, Sitka, R 1907, p. 25; 1909, p. 39; 1910, p. 26; 1914, p. 25; 1917, p. 15.

Vicia—

cracca. *See* Vetch.

faba. *See* Beans, Windsor.

gigantea, B 48, p. 13.

purpurea. *See* Vetch, purple.

sativa, B 82, p. 19; R 1916, p. 34.

stitchensis, R 1904, p. 284.

villosa, B 82, p. 19; R 1916, p. 34.

Viola—

cornuta, R 1917, p. 20; 1918, p. 33.

tricolor, R 1918, p. 33.

See also Pansies.

Violets, R 1915, p. 39.

Virgin Bay, R 1900, p. 34.

Virginia creeper culture, Sitka, R 1902, p. 243.

Virsing, growth at Skagway, R 1904, p. 338.

Viscaria sp., culture, Rampart, R 1920, p. 36.

Visitors to Alaska, R 1912, p. 46; 1914, p. 42; 1923, p. 1; 1929, p. 3.

Vitis veitchii, R 1902, p. 243.

Volcano—

fish affected. *See* Salmon.

of Mt. Katmai. *See* Mount Katmai.

of Unimak Island. *See* Unimak Island.

Vologda, B 48, p. 24.

Wages paid in Alaska. *See* Work.

Wainwright National Park, R 1923, p. 25.

Wales weather data, R 1907, p. 98; 1918, p. 104; 1927, p. 39.

Walkers Fork River, R 1901, p. 286.

Walks, renewing, R 1927, p. 6.

Wallflowers, culture—

Rampart, R 1921, p. 44.

Sitka, R 1902, p. 243; 1910, p. 29; 1917, p. 20.

Walrus protection in Alaska, C 1b, p. 17.

Wandering Jew culture, Rampart, R 1918, p. 54; 1919, p. 44.

War. *See* World War.

War work in Alaska, R 1918, p. 9.

Washington, D. C., precipitation, B 48, p. 9.

Washington State weather data, B 48, pp. 7, 8.

Wasilla, location, R 1918, p. 19.

See also Farming.

"Waste" land, defined, R 1900, p. 67.

Water—

action in Alaskan soils, B 2, p. 14.

barley consumption, R 1915, p. 56.

capacity and tenacity of Alaskan soils,

B 48, p. 10.

cress. *See* Cress.

depth found—

Cook Inlet, R 1907, p. 73.

Fairbanks, R 1914, pp. 28, 52; 1918, p. 55.

Holy Cross, R 1900, p. 42.

Kenai, B 82, p. 34; R 1907, p. 73.

Kodiak, R 1912, p. 68.

Matanuska, R 1917, p. 82; 1924, p. 17; 1929, p. 35.

Rampart, R 1919, p. 31.

grass culture—

Kenai, R 1903, pp. 359, 360.

Sitka, R 1902, p. 241.

Wood Island, R 1902, pp. 258, 259.

hot seed germination affected, R 1924, pp. 19, 20.

system installation—

Fairbanks, R 1918, p. 70; 1919, p. 47.

Kodiak, R 1909, pp. 24, 58; 1914, p. 67; 1917, p. 80.

Matanuska, R 1924, pp. 17, 18.

Rampart, R 1913, pp. 20, 39; 1914, pp. 35, 56; 1919, p. 31.

wheat consumption, R 1915, p. 56;

1927, p. 25.

wheel for irrigation, R 1907, pp. 15, 81.

Watermelons. *See* Melons.

Weare, settlement, R 1900, pp. 59, 61.

Weasel protection in Alaska, C 1b, p. 18.

Weather—

data. *See specific places.*
rôle in agriculture, R 1904, p. 265;
1909, p. 7; 1910, p. 9; 1911, p. 9;
1912, p. 10; 1914, p. 9; 1916, p. 5;
1918, p. 7; 1922, p. 2; 1923, p. 3;
1924, p. 1.

Weaving industry, B 48, p. 15.

Weed growth and eradication, B 9, p. 15;
B 48, p. 20; R 1914, p. 34; 1925, p.
23; 1927, p. 25; 1928, p. 21; 1929, p.
18, 28.

Weigela culture, Sitka, R 1917, p. 14;
1924, p. 8; 1925, p. 7; 1929, p. 7.
Welsh onion. *See Siboule.*

Wells. *See Water, depth found.*

Whale Island weather data, R 1924, p. 47;
1927, p. 39; 1928, p. 38; 1929, p. 56.

Wheat—
and oats for silage. *See Oats and
wheat.*
as sheep feed, R 1921, p. 23.
baking quality, R 1917, p. 64.
classification, B 6, p. 20.
cost of production, R 1924, p. 9; 1925,
p. 12.

culture—
Copper Center, B 6, p. 3; R 1902,
pp. 268, 270; 1903, p. 346;
1904, p. 322; 1905, pp. 41-44;
1906, pp. 39, 43; 1907, pp. 27,
54, 57; 1908, p. 52.

Fairbanks, R 1908, p. 47; 1909,
pp. 21, 52, 53, 55; 1910, pp.
55, 56; 1912, pp. 30, 50; 1913,
pp. 28, 30; 1914, pp. 30, 46;
1915, pp. 14, 45; 1916, p. 16,
41; 1917, p. 63; 1918, pp. 61,
62; 1919, p. 47; 1920, p. 39;
1921, pp. 3, 28; 1922, p. 2;
1923, p. 4; 1924, p. 21; 1925,
p. 21; 1926, p. 14; 1927, p. 4,
25; 1928, p. 13; 1929, p. 11.

Kenai, B 82, p. 31; R 1901, p.
256; 1902, p. 249; 1903, pp.
357, 358; 1904, p. 305.

Kodiak, B 82, p. 36; R 1913, p.
52; 1914, p. 70; 1916, p. 64;
1917, p. 75.

Matanuska, R 1918, pp. 74, 77;
1919, p. 70; 1920, p. 53; 1921,
p. 17; 1922, pp. 2, 3; 1923,
p. 4; 1924, p. 9; 1925, pp. 10,
12; 1926, p. 20; 1927, p. 17;
1928, pp. 20, 22; 1929, p. 24.

Rampart, B 6, p. 3; R 1901, p.
27; 1902, p. 255; 1905, pp.
57, 58; 1906, pp. 44, 45; 1907,
pp. 30, 44, 45; 1908, pp. 34,
35; 1909, pp. 14, 45, 48; 1910,
pp. 32, 45; 1911, p. 25; 1912,
p. 59; 1913, p. 44; 1914, pp.
37, 57; 1915, pp. 20, 61, 62;
1916, pp. 19, 21, 28, 29, 30,
31; 1917, pp. 23, 40, 43; 1918,
p. 38; 1919, pp. 10, 32; 1920,
pp. 5, 24, 25; 1921, pp. 5, 34,
36; 1922, p. 2; 1924, p. 26.

Sitka, B 82, pp. 14-16; R 1900,
pp. 16-18; 1901, pp. 241, 339;
1902, p. 236; 1903, p. 333;
1925, p. 9.

Wood Island, R 1902, p. 258;
1903, p. 363.

diseases, R 1924, p. 21.
earliness requisite, R 1925, p. 10.

fall sown, R 1914, p. 46; 1915, p.
46.

fertilization, R 1900, p. 16; 1904, p.
322; 1912, p. 49; 1914, p. 70; 1920,
p. 25; 1921, p. 34; 1927, p. 18.
germination, R 1924, pp. 22, 23; 1929,
p. 14.

growing possibilities, B 1, pp. 7, 8; B
6, p. 1; B 48, p. 18; R 1902, p.
271; 1907, p. 17.

hay production, R 1914, p. 70; 1919,
p. 51.

head-row tests, R 1918, p. 61.

Wheat—Continued.

hybridization, B 6, pp. 30, 36, 38; R
1915, p. 62; 1916, pp. 28, 29; 1917,
pp. 23, 43; 1918, p. 44; 1919, p.
10, 33; 1920, p. 25; 1925, p. 21;
1926, p. 14; 1929, p. 14.

importation, B 6, p. 20; R 1922, p. 2;
in rotation, R 1917, p. 64; 1920, pp.
39, 42; 1924, p. 21; 1925, pp. 14,
24; 1926, p. 15; 1927, p. 18; 1928,
p. 24; 1929, p. 25.

increase plats, R 1918, p. 62.
market and marketing, R 1913, p. 16;
1920, p. 39; 1924, p. 9; 1925, p. 12.

maturity, season of, C 1b, pp. 12, 13;
R 1914, p. 37; 1921, p. 4.

milking home-grown, B 6, p. 20; C 1b,
p. 14; R 1918, p. 14.

moisture content differences, R 1929,
p. 12.

on new land, B 1, p. 15.

rabbit damaged, R 1924, p. 21.

rye, R 1902, p. 236.

seed—
production, R 1922, p. 2.
sale, R 1917, p. 64; 1918, p. 68.

straw as cattle feed, R 1929, p. 31.

stubble as green manure, R 1915, p. 46;
variety tests, B 6, p. 23; R 1914, p. 58;
1916, pp. 44, 67; 1918, pp. 61, 62;
1921, p. 17; 1924, pp. 10, 21, 22;
1925, p. 10; 1926, pp. 20, 21; 1928,
pp. 13, 22.

water requirements, R 1915, p. 56;
1927, p. 25.

water-soaked effect, R 1915, p. 46.

See also Corn-wheat.

Wheatgrass—

culture—
Copper Center, R 1906, p. 38;
1907, pp. 27, 57; 1908, p. 55.

Fairbanks, R 1909, p. 57; 1910, p.

57; 1928, p. 12.

Matanuska, R 1924, p. 15; 1927,
p. 20.

growing regions, R 1904, p. 283.

Wheel. *See Pansy wheel; Water wheel.*

White Horse, location; settlement, R 1900,
pp. 45, 46, 47.

See also Survey.

White Mountain weather data, R 1922, p.
25; 1923, p. 37; 1924, p. 47; 1925, p. 40;
1926, p. 40; 1927, p. 39; 1928, p. 39;
1929, p. 56.

White Pass and Yukon Railroad, C 1b, p.
16.

Whitetop—

culture, Fairbanks, R 1912, p. 52.

description, R 1904, p. 281.

Whortleberries, B 48, p. 35; R 1903, p. 375.

Wickersham. *See Farming.*

Wildcats, R 1910, p. 71.

Willow Creek. *See Farming.*

Willows—
as cattle feed, R 1912, p. 75.

as soil builders, R 1912, p. 71.

as windbreak, B 2, p. 18; B 7, p. 11.
culture, Sitka, R 1905, p. 34; 1906,

p. 30; 1907, p. 41; 1908, p. 32;
1909, p. 39; 1913, p. 13; 1914, p. 25.

diseases, R 1914, p. 27.

growing regions, B 2, p. 16; B 7, p. 6;
B 48, p. 6; R 1900, p. 56; 1902, p.
267; 1904, p. 275.

Windbreaks for—
gardens, B 2, p. 17; B 7, p. 11.

grain, R 1904, p. 305.

Windflower, Pennsylvania. *See Anemone
pennsylvanica.*

Windham. *See Farming.*

Window boxes, B 7, p. 14.

Winds—
chinook. *See Chinook winds.*

damage at Kodiak, R 1920, pp. 59, 60.

destructive, direction, B 2, p. 17.

grains affected, B 82, p. 12.

haymaking affected, B 3, p. 7.

- Winds—Continued.
- mountain effects on, B 2, pp. 11, 12, 13; B 6, p. 4; B 7, p. 2; B 48, p. 30.
 - north, B 2, p. 18.
 - southerly, B 2, p. 18.
 - vegetables affected, B 7, p. 11.
- Wineberries—
culture, Sitka, R 1926, p. 3.
growing regions, B 48, p. 15.
- Winnipeg weather data, B 48, pp. 7, 8.
- Winter turnips. *See Rutabagas.*
- Wire netting as trellis, R 1926, p. 10.
- Wireless stations in Alaska, C 1b, p. 16.
- Wireworms on potatoes, R 1904, p. 349.
- Wiseman—
location, R 1919, p. 79.
weather data, R 1920, p. 75; 1921, p. 58.
See also Farming.
- Wistaria culture, Sitka, R 1924, p. 8.
- Witches' broom on—
cherries, R 1915, p. 41.
hemlock, R 1915, p. 41.
- Wolf Creek, R 1901, pp. 288, 301.
- Wolves—
and wolverines, protection, C 1b, p. 18.
depredations by, R 1904, p. 277; 1909, p. 65; 1928, p. 31.
- Wonder Lake weather data, R 1925, p. 41; 1927, p. 39; 1929, p. 56.
- Wood ashes as fertilizer, R 1904, p. 336.
- Wood Island weather data, R 1900, p. 81; 1902, pp. 302, 303; 1903, p. 386; 1904, p. 358; 1905, p. 97; 1906, p. 71; 1907, p. 91.
See also Farming.
- Wood reed grass, R 1904, p. 281.
- Wood River country, R 1910, p. 68.
- Woodchopper Creek. *See Farming.*
- Wool—
exported from Iceland, B 48, p. 23.
moisture effect. *See Atmosphere.*
production at stations, R 1910, p. 41; 1911, pp. 32, 64; 1915, p. 80; 1916, p. 62; 1917, p. 80; 1918, pp. 20, 90; 1920, p. 61; 1929, p. 31.
- Work, obtaining wages, B 48, p. 34; C 1b, p. 10; R 1900, p. 59; 1907, p. 15.
- World War—
influence on Alaska, B 8, p. 6; C 1b, pp. 10, 15; R 1918, p. 84; 1922, p. 1.
- work in Alaska, R 1918, p. 9.
- Wormwood culture, Sitka, R 1915, p. 37.
- Wortmans, weather data, R 1907, p. 92.
- Wrangell—
commercial dairying, R 1929, p. 45.
weather data, B 48, pp. 7, 8; B 62, p. 51; R 1908, p. 73; 1909, p. 75; 1916, p. 82; 1918, p. 104; 1919, p. 90; 1920, p. 75; 1921, p. 58; 1925, p. 41; 1927, p. 40; 1928, p. 39; 1929, p. 57.
- See also Day length; Farming.*
- Xeranthemum sp., R 1904, p. 340.
- Yak—
description, R 1914, p. 34.
habitat, R 1909, p. 27; 1912, p. 45; 1914, p. 33; 1920, p. 3; 1929, p. 19.
See also Cattle-yak.
- Yaktag, R 1902, p. 268.
- Yakutat and Southern Railroad, R 1904, p. 270.
- Yakutat Plains, R 1904, p. 270.
- Yakutat weather data, R 1918, p. 104; 1919, p. 90; 1920, p. 75; 1921, p. 58; 1922, p. 25; 1923, p. 37; 1924, p. 47; 1925, p. 41; 1926, p. 40; 1927, p. 40; 1928, p. 39.
See also Agricultural areas; Farming; Grazing lands.
- farrow—
description, R 1917, p. 16.
notes, B 48, p. 28.
See also Achillea millefolium.
- Yellowlegs, protection in Alaska, C 1b, p. 17.
- Yukon flats, R 1900, p. 53; 1901, p. 273.
- Yukon land survey. *See Survey.*
- Yukon Valley—
accessibility, settlement, C 1b, p. 9; R 1900, pp. 62, 65; 1901, p. 273.
agricultural possibilities, B 62, p. 37; R 1901, pp. 276-283; 1926, p. 1; 1927, p. 6.
See also Agricultural areas; Day length; Farming; Topography.
- Yukon weather data, R 1900, p. 82; 1902, p. 306; 1903, p. 388; 1904, p. 360; 1909, p. 80; 1910, p. 82; 1911, p. 76; 1915, p. 96; 1918, p. 97; 1919, p. 83; 1920, p. 69; 1921, p. 53; 1922, p. 20; 1923, p. 32; 1924, p. 42; 1925, p. 36; 1926, p. 34; 1927, p. 32; 1928, p. 34.
- Zinnias culture—
Rampart, R 1920, p. 35.
Sitka, R 1915, p. 38; 1917, p. 21; 1921, p. 14; 1927, p. 12.