

Alaska Exotic Plant Information Clearinghouse Upgrades: Addition of species-specific absence records and records of first collection in Alaska



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Overview:

This report summarizes work funded by the USDA Forest Service, Forest Health and Protection Unit for upgrades to the [Alaska Exotic Plant Information Clearinghouse](#) (AKEPIC) project. The AKEPIC project is a SQL database of non-native plant occurrences, as well as an online mapping application and associated webpages serving geospatial and species information for non-native plants in Alaska and neighboring Canadian territories. While AKEPIC is managed by the Alaska Natural Heritage Program (AKNHP), it represents a long-standing collaboration among federal, state and local organizations, which aims to inform the efficient management of natural resources in Alaska.

Specific objectives of the work summarized here are 1) the addition of a presence field to the AKEPIC database to explicitly record the presence or absence of invasive species targeted by single species surveys and 2) the addition of records to the AKEPIC database that document the first known occurrence of a non-native species in Alaska. Species-specific absence records will allow land managers to easily determine where a species has been looked for and by extension, may minimize duplication of survey effort. The addition of records of first collection for all non-native species known to occur in Alaska will allow users to determine where and when a given species was first documented in the state

and among other applications, use residence time to separate ephemeral populations from infestations experiencing high rates of spread.

Methods:

Objective 1) Species-specific Absence Records

The original approach for this objective was to isolate absence records for four pilot species (or species complexes) by recoding the appropriate records with species-specific absence codes. These candidate taxa were: *Alliaria petiolata*, *Centaurea stoebe*, *Elodea* species, and *Heracleum mantegazzianum* and the proposed species-specific absence codes were 'NO_ELODE', 'NO_CEST8', 'NO_ALPE4' and 'NO_HEMA17', respectively. However, consultation with the AKNHP data manager (Nancy Norvell) and our web design consultants (Axiom Data Science) discouraged this approach as it failed to maintain relational integrity within the database. The addition of a boolean-type (e.g. 0/1) presence field was recommended instead. Within this boolean field, presence is indicated with a value of '1' and absence with a value of '0'. On creation, this presence field was given a default value of '1'. Then, records for which the species code was 'NONE', which indicates the absence of a single, high-priority or all non-native species, the presence field was changed to '0'. Finally, the database was searched for records coded as 'NONE' and identified as 'Single species survey'. This subset of data was then reviewed to identify those records that specified the species that the survey was targeting. For these records the species code was changed from NONE to the target species code and the presence field was changed to "0" to indicate the absence of a specific species. With these modifications, users will be able to query the database for absence records of single species by filtering for records where the survey type is 'Single species survey', the species code refers to their species of interest and the presence field is '0'.

Objective 2) Records of First Collection

The location and date of first collection was researched for the taxa currently considered non-native to Alaska. This effort required comparison of the species information contained in AKEPIC to herbarium databases, online record databases, historic floras and various literature sources. For species where the earliest record of collection predated the information in AKEPIC, a new, earlier (first) record was created for import to the database. A first record was created if the species identity was verified, the collection was dated (year minimum) and if there was a clear locality that could be referenced.

Sources

Collections by early botanists in Alaska are scattered across multiple herbaria and/or are not databased, making them difficult to locate and verify. Specimens cited in Hultén (1941-1950) and others (Appendix I) were collected by or reviewed by the authors for verification. Herbaria records were preferentially used as source material since identifications can change over time with new expert review. However, when references in the literature or flora could not be associated with a herbarium specimen, the literature was cited. As these early taxonomic identifications formed the foundation for the flora of Alaska, we hold their identifications valid.

Search terms in online databases included the species name and defined the locality to the state level of ‘Alaska’; species synonyms were searched in a separate query with the same locality. Specimens were primarily searched for at the Consortium of Pacific Northwest Herbaria (CPNH: <http://www.pnwherbaria.org/>). This database queries over 2.2 million specimens from 33 Pacific Northwest regional herbaria and the New York Botanic Garden Herbarium (NY). Notable regional databases included in the CPNH are: ALA (University of Alaska, Fairbanks – Museum of the North), BABY (B. A. Bennett Herbarium, Yukon Government), UAAH (University of Alaska Anchorage), and WTU (University of Washington). Separate queries were run at the Smithsonian Herbarium (US: <http://collections.mnh.si.edu/search/botany/>) and at the Global Biodiversity Information Facility (GBIF) (<http://www.gbif.org/occurrence/search>). When a record in Hultén (1941-1950) indicated an international herbarium, the appropriate herbarium was searched for the record for verification.

A limitation of database searches for first records is the exclusion of hidden collections. For example, half of the vascular plant collection (~7000 specimens) at the University of Alaska Anchorage Herbarium (UAAH) has not been databased and there is a backlog of 500 specimens dating from pre-1960. These non-databased materials may include first record non-native species and indeed, one specimen (*Lathyrus pratensis* from 1932) was pulled from a pile of backlogged specimens because it had been previously recognized as a first record for the state. The Smithsonian Herbarium (US) holds the plant collection from the Harriman Expedition of 1899 and many ‘first records’ cited in Hultén (1941-1950), however these collections have yet to be databased. Additionally, the Alaska State Museum Herbarium in Juneau (JBCC) contains many of Hultén’s original collections; however, these records are not databased and therefore not accessible for review or inclusion within the scope of work defined.

Care was taken to review each institution’s data sharing policy for compliance. The information extracted for the work described herein is used in accordance to their user agreements (viz. to be included in the AKEPIC database). Specimens held at University of Alaska Fairbanks Museum of the North (ALA) were not used as their staff have specifically requested for their data to not be served in AKEPIC even if ALA is cited as the source. In these circumstances, an alternative source was used as the ‘first record’ and therefore these species do not represent the earliest record. Despite this data sharing policy, several records from ALA were still cited because the data originated from:

1. A project or survey performed by the Alaska Natural Heritage Program, therefore owned by the program.
2. National Park Service property. These data are explicitly owned by the NPS and are intended for public use and can be used without data sharing agreements or fees (*pers. comm.* Stephanie Stephens).
3. Personal communication, where the data were given to AKEPIC before the specimen was deposited at ALA.

Determining Locality

Older records (ca. pre-1970s) were often general in describing the locality of the collection. For example, records cited in Hultén (1941-1950) stated only the village or town such as ‘Hot Springs at Tanana’ or were nebulous such as ‘Yukon River’. Anderson (1916, 1918, and 1919) usually only noted general

locality information, simply stating 'Juneau' or 'Sitka'. Sometimes literature included a description of the habitat such as roadside or shoreline and such data were captured. For general localities, the GEOLocate software program (<http://www.museum.tulane.edu/geolocate/web/WebGeoref.aspx>) was used to generate estimated GPS coordinates which became the default coordinates for that location. For example, 'Juneau, Alaska' had a default coordinates of 58.30194 N, 134.419 W for all indeterminate Juneau localities.

Some early records described location more specifically with modifiers referencing a geographic landform (e.g. mountain, hill, river, or stream) or cultural feature (e.g. road, railroad, airport, milepost, marker, intersection, or landmark). These records were located using a combination of USGS topo maps, GEOLocate, and GoogleEarth maps to pinpoint a locality. Some old herbarium specimens collected during the gold rush era would cite the locality as it was known at the time. For example, locations from Nome in the early 1900s used phrases such as 'Submarine' or 'Sandspit near Cape Nome Roadhouse'. These records required further investigation by researching old newspapers or U.S. Army Corps of Engineer reports and maps. The exact localities could often be derived from these descriptive reports and crude maps. By this methodology, 'Submarine' was discovered to be a beach in Nome, now located near the current airport, and named as such because the beach was approximately 30 ft. below sea level and was a popular spot for gold panning. If there was any doubt in accuracy of the location, the village or town default coordinates were chosen as the locality.

Data Entry in AKEPIC

Several conventions were followed to prepare the records of first collection for upload to the AKEPIC database, which has both required fields and formats.

- Survey Date was recorded to the date if possible; collections specified to year only were recorded as the first day of that year (e.g. 1/1/1898).
- Project Name was recorded as "Alaska Records of First Collection Project" to provide a value on which these records could be filtered from the larger dataset.
- The Site Code field was not populated as this information was not historically collected and/or provided on herbarium specimens.
- The Observers field was populated from the last name(s) and first initial listed on the herbarium label or the literature cited, unless otherwise noted.
- The Affiliation field was populated from the dropdown values when possible, but was typically recorded as 'Other' with the specific affiliation listed in the Project Discussions field.
- Based on the early nature of these collections, Visit Type was recorded as 'Reconnaissance' and was assumed to not represent a revisit
- Many early botanists did extensive collecting in a locality to document the entire flora; therefore the Study Type field was labeled as 'Exhaustive species inventory'.
- The Disturbance Type field was populated in accordance with the accepted values from the original descriptions.

- For records collected before 1990, the Collection Method and Accuracy fields were populated as ‘Historical Data’; for records collected after 1990, the Collection Method and Accuracy fields were described as ‘GPS’ and ‘0-30 m,’ respectively.
- The ‘Infested Area’ and ‘Percent Cover’ were not often indicated in records of first collection. However as these incipient populations were likely to be restricted with respect to both area of occupancy and number of individuals, values of ‘0.001 ac’ and 1%, respectively were assumed.
- The Herbarium field was populated with values available in the dropdown menu. Where a herbarium code was not captured, it was recorded as ‘Other’ and described in the Notes field.
- In addition to information addressed above, the ‘Notes’ field contains the source of the record. If from literature, the full citation was recorded and if the record was from a herbarium specimen, the herbarium code (e.g., University of Alaska Anchorage Herbarium: UAAH) was recorded along with the accession number for reference (e.g., UAAH 3096).

Results:

Species-specific Absence Records

The reclassification of single-species absence records produced absence records for a total of 2,049 records representing 38 species (Appendix II) with *Elodea* species and *Vicia cracca* records accounting for almost 73% percent of the total records. These modified records currently reside in a development version of the AKEPIC database. When the user interface of the AKEPIC Data Portal is modified to allow visualization of the species-specific absence records, this development database will be transitioned to the production environment.

Records of First Collection

Of the 359 plant species currently documented within and considered non-native to Alaska, existing AKEPIC records represented the first record of collection for 183 species; new records were created for 176 species (Appendix III). More than one record may exist for a species if multiple collections were found for a given year, or if an earlier record was found in the course of research (e.g. *Agrostis gigantea* *A. stolonifera*, *Amsinckia lycopoides*, *Bidens cernua*, *Bromus hordeaceus*, *Descurainia sophia*, *Geranium bicknellii*, *Hordeum jubatum*, *Matricaria discoidea*, *Melilotus officinalis*, *Melilotus sativa* ssp. *sativa*, *Myosotis scorpioides*, *Plantago major*, *Rumex obtusifolius*, *Senecio vulgaris*, *Spergula arvensis*, *Vaccaria hispanica*, *Vicia cracca* ssp. *cracca*) and for this reason, 195 records exist for the 176 species.

The Museum of the North Herbarium (ALA) exclusively holds the first record of collection for 28 species not native to Alaska (Table 1). Unfortunately, these records cannot be added to the AKEPIC database because ALA considers the service of their data through the AKEPIC Data Portal to be in violation of their data use agreement. In several (eight of 28) cases, the ALA record predates the earliest accessible record by less than ten years, however many ALA records document the record of first collection for a species decades earlier than the next accessible record. For example, both *Elymus sibiricus* and *Sagina procumbens* were collected 67 years earlier than what can be documented for the purposes of this project.

Scientific Name	Earliest accessible year of record	Earliest ALA year of record
<i>Artemisia biennis</i> Willd.	1968	1951
<i>Artemisia vulgaris</i> L.	Not available	2003
<i>Astragalus cicer</i> L.	2011	2000
<i>Borago officinalis</i> L.	Not available	1998
<i>Calystegia sepium</i> (L.) R. Br.	2006	2004
<i>Campanula glomerata</i> L.	Not available	1972
<i>Campanula rapunculoides</i> L	2007	1960
<i>Centaurea cyanus</i> L.	2008	1999
<i>Centaurea montana</i> L.	2005	1965
<i>Digitalis purpurea</i> L.	2004	1959
<i>Elymus sibiricus</i> L.	1999	1932
<i>Fallopia japonica</i> (Houtt.) Ronse Decr.	1981	1980
<i>Gnaphalium uliginosum</i> L.	1941	1931
<i>Hieracium aurantiacum</i> L.	1969	1961
<i>Hieracium pilosella</i> L.	2004	2002
<i>Hieracium umbellatum</i> L.	1996	1986
<i>Lonicera tatarica</i> L.	2010	1969
<i>Nemophila menziesii</i> Hook. & Arn.	2011	1995
<i>Nymphaea odorata</i> Ait. ssp. <i>odorata</i>	2014	1997
<i>Persicaria lapathifolia</i> (L.) Gray	1952	1925
<i>Persicaria maculosa</i> Gray	1940	1925
<i>Ribes uva-crispa</i> L.	2013	2010
<i>Sagina procumbens</i> L.	2005	1938
<i>Senecio viscosus</i> L.	2007	1968
<i>Silene armeria</i> L.	2008	1985
<i>Sonchus arvensis</i> ssp. <i>uliginosus</i> (Bieb.) Nyman	1993	1980
<i>Sorbaria sorbifolia</i> (L.) A. Braun	2005	1969
<i>Veronica peregrina</i> ssp. <i>peregrina</i> L.	2007	1998

Collections held by the Museum of the North (ALA) yet accessed in accordance with alternate ownership or users agreement (see Methods) are:

- *Caragana arborescens* Lam.
- *Descurainia sophia* (L.) Webb ex Prantl
- *Erucastrum gallicum* (Willd.) O.E. Schulz
- *Euphrasia nemorosa* (Pers.) Wallr.
- *Gaillardia pulchella* Foug.
- *Rheum rhabarbarum* L.
- *Silene chalcedonica* (L.) E. H. L. Krause

- *Sonchus arvensis* ssp. *uliginosus* (Bieb.) Nyman
- *Viola tricolor* L.
- *Vicia villosa* Roth

Discussion

This project promotes the efficient and effective management of non-native species in Alaska in two ways. The service of species-specific absence records allows land managers to focus surveys in areas that have not been visited and thus minimize their duplication effort and commitment of resources. Similarly, the inclusion of records of first collections in the database allows users to calculate residence times of species and when considered in conjunction with current population and ranges, allows the separation of ephemeral from more aggressive introductions.

We are currently working with our website designers to modify the AKEPIC Data Portal interface to allow query of the species-specific absence records. This task was not included in the current scope of work and is being funded through AKNHP base funding. As discussed earlier, when modifications to the AKEPIC Data Portal are complete, the development database will be transitioned to the production environment and species-specific absence records will then become readily available online. In the meantime, AKNHP will advertise the availability of the development database through the CNIPM listserv and monthly teleconference and provide it as an excel spreadsheet on request.

As time and funding allows AKNHP will reformat the data manual and field data and data entry sheets to address the new protocols and data structure introduced by this project. In the interim we will continue to require that submitters identify the species targeted in single species surveys and make necessary adjustments to these records during the quality control and assurance performed by AKNHP. The date of first collection, general location (e.g. Alaska or Canada Only) and status (e.g. present or threat) will be added to all species on the non-native plant species list.

Appendix I: Literature sources for records of first collection in Alaska.

Anderson, J.P. 1916. Notes on the flora of Sitka, Alaska. Proceedings of Iowa Academy of Science. 23:427-482

Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.

Anderson, J.P. 1919. Supplement list of plants from southeastern Alaska. Proceedings of Iowa Academy of Science. 26: 327-331.

Anderson, J.P. 1946. Flora of Alaska and adjacent parts of Canada, I-VIII.: V. Dicotyledoneae: Salicaceae (except *Salix*)-Caryophyllaceae. Iowa State College Journal of Science. 20: 213-257.

Anderson, J.P. 1947. Flora of Alaska and adjacent parts of Canada, I-VIII.: VI. Crassulaceae-Fabaceae. Iowa State College Journal of Science. 21: 363-423.

Hultén, E. 1937 Flora of the Aleutian Islands and westernmost Alaska Peninsula with notes on the flora of Commander Islands. Stockholm 397pp

Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.

- Hultén, E. 1968. Flora of Alaska and neighboring territories: a manual of the vascular plants.
Stanford University Press.
- Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska.
University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
- Rothrock, J.T. 1868. Sketch of the flora of Alaska. Annual Rep. Smiths. Inst. 1867. Pp 433-463
- Scamman, E. 1940. A list of plants from interior Alaska. Rhodora 42: 309-349.

Appendix II: Number and identity of single-species absence records.

Scientific Name	Species Code	Number of Absence Records
<i>Elodea</i> species	ELODE	835
<i>Vicia cracca</i> ssp. <i>cracca</i>	VICRC	658
<i>Prunus padus</i>	PRPA5	129
<i>Cirsium arvense</i>	CIAR4	75
<i>Heracleum mantegazzianum</i>	HEMA17	73
<i>Fallopia convolvulus</i>	FACO	46
<i>Centaurea stoebe</i>	CEST8	44
<i>Phalaris arundinacea</i>	PHAR3	43
<i>Melilotus albus</i>	MEAL2	27
<i>Hieracium aurantiacum</i>	HIAU	25
<i>Crepis tectorum</i>	CRTE3	17
<i>Leucanthemum vulgare</i>	LEVU	13
<i>Taraxacum officinale</i>	TAOF	9
<i>Plantago major</i>	PLMA2	6
<i>Fallopia japonica</i>	FAJA2	5
<i>Lotus corniculatus</i>	LOC06	5
<i>Ranunculus acris</i>	RAAC3	5
<i>Ranunculus repens</i>	RARE3	5
<i>Lythrum salicaria</i>	LYSA2	3
<i>Phleum pratense</i>	PHPR3	3
<i>Viola tricolor</i>	VITR	3
<i>Caragana arborescens</i>	CAAR18	2
<i>Capsella bursa-pastoris</i>	CABU2	2
<i>Descurainia sophia</i>	DESO2	2
<i>Linaria vulgaris</i>	LIVU2	2
<i>Bromus tectorum</i>	BRTE	1
<i>Cirsium vulgare</i>	CIVU	1
<i>Elymus repens</i>	ELRE4	1
<i>Impatiens glandulifera</i>	IMGL	1
<i>Lupinus polyphyllus</i> ssp. <i>polyphyllus</i>	LUPOP2	1
<i>Polygonum aviculare</i>	POAV	1
<i>Prunus virginiana</i>	PRVI	1
<i>Sonchus arvensis</i>	SOAR2	1
<i>Sorbus aucuparia</i>	SOAU	1
<i>Symphytum officinale</i>	SYOF	1
<i>Tanacetum vulgare</i>	TAVU	1
<i>Trifolium pratense</i>	TRPR2	1
<i>Trifolium repens</i>	TRRE3	1

Total number of absence records:

2049

Appendix III: Records of first collection prepared for upload to the AKEPIC database

Collection Date	Taxonomic Code	Scientific Name with Authority	Collector(s)	Latitude	Longitude	Location Notes	Source Information
9/5/1913	ACPT	<i>Achillea ptarmica</i> L.	Enander	58.3000	-134.4100		Herbarium: S (Sweden)
1/1/1939	AGCR	<i>Agropyron cristatum</i> (Linnaeus) Gaertn.	Irwin, D.	64.8500	-147.8000		Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
8/8/1941	AGCA5	<i>Agrostis capillaris</i> L.	Anderson, J.	62.3200	-150.0900		WTU (160477)
1/1/1902	AGGI2	<i>Agrostis gigantea</i> Roth	Irwin, D.	57.0500	-135.3300	Sitka Agriculture Research Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
1/1/1902	AGGI2	<i>Agrostis gigantea</i> Roth	Irwin, D.	60.5000	-151.2000	Kenai Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
1/1/1941	AGST2	<i>Agrostis stolonifera</i> L.	Anderson, J.	58.3000	-134.4100		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1918	AGST2	<i>Agrostis stolonifera</i> L.	Anderson, J.	58.3019	-134.4190		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
7/17/1941	ALGE2	<i>Alopecurus geniculatus</i> L.	Anderson, J.	58.3977	-134.5612		WTU (160423)
1/1/1934	ALPR3	<i>Alopecurus pratensis</i> L.	Anderson, J.	59.4500	-135.3100		Date estimated from collection number. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1918	AMRE	<i>Amaranthus retroflexus</i> L.	Anderson, J.	57.0500	-135.3300		Noted infrequent. Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.

Collection Date	Taxonomic Code	Scientific Name with Authority	Collector(s)	Latitude	Longitude	Location Notes	Source Information
1/1/1918	AMLY	<i>Amsinckia lycopooides</i> Lehm.	Anderson, J.	58.3019	-134.4190		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
1/1/1941	AMLY	<i>Amsinckia lycopooides</i> Lehm.	Anderson, J.	59.4500	-135.3100		Herbarium: US. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
9/11/1913	AMME	<i>Amsinckia menziesii</i> (Lehm.) A. Nels. & J.F. Macbr.	Enander	59.4500	-135.3100		Herbarium: S (Sweden). Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1899	ANCO2	<i>Anthemis cotula</i> L.	Fisher, W.	57.7900	-152.4000		Herbarium: US (694944)
1/1/1941	ANTI	<i>Anthemis tinctoria</i> L.	Hulten, E.	57.0500	-135.3300		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/18/1929	ANOD	<i>Anthoxanthum odoratum</i> L.	Heller, A.	57.0500	-135.3300		WTU (90164)
1/1/1829	ARGL	<i>Arabis glabra</i> (L.) Bernh.	Mertens, H.	57.0500	-135.3300		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1902	AREL3	<i>Arrhenatherum elatius</i> (L.) Beauv. ex J. & K. Presl	Irwin, D.	57.0500	-135.3300		Seeded for Hay. Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
1/1/1968	ARBI2	<i>Artemisia biennis</i> Willd.	Hulten, E.	63.9000	-145.3000		Cited in: Hultén, E. 1968. Flora of Alaska and neighboring territories: a manual of the vascular plants. Stanford University Press.
1/1/1940	ASPR	<i>Asperugo procumbens</i> L.	Anderson, J.	60.9000	-149.6000		Date estimated from collection number. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.

Collection Date	Taxonomic Code	Scientific Name with Authority	Collector(s)	Latitude	Longitude	Location Notes	Source Information
1/1/1946	ATHO	<i>Atriplex hortensis</i> L.	Anderson, J.	64.8000	-147.7000		Cited in: Anderson, J.P. 1946. Flora of Alaska and adjacent parts of Canada, I-VIII.: V. Dicotyledoneae: Salicaceae (except <i>Salix</i>)- Caryophyllaceae. Iowa State College Journal of Science. 20: 213-257.
8/20/1939	ATPA4	<i>Atriplex patula</i> L.	Looff, E.	57.0800	-154.4100		UBC (V190468)
1/1/1941	AVFA	<i>Avena fatua</i> L.	Hulten, E.	58.3019	-134.4190	Various places in Alaska	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1918	AVSA	<i>Avena sativa</i> L.	Anderson, J.	58.3000	-134.4000		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
1/1/1937	BEPE2	<i>Bellis perennis</i> L.	Hulten, E.	53.8700	-166.5300		Cited in: Hultén, E. 1937 Flora of the Aleutian islands and westernmost Alaska Peninsula with notes on the flora of Commander Islands. Stockholm 397pp
9/7/1970	BEIN2	<i>Berteroia incana</i> (L.) DC.	Williams, M.	61.2150	-149.9100		Herbarium: SRP (15565)
7/28/1909	BICE	<i>Bidens cernua</i> L.	Hitchcock, C.	65.0011	-150.6338	Tanana (Manley) Hot Springs	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/5/1941	BICE	<i>Bidens cernua</i> L.	Anderson, J.	65.0011	-150.6300		WTU (293108)
1/1/1925	BRJU	<i>Brassica juncea</i> (L.) Czern.	Anderson, J.	57.0500	-135.3300		Date estimated from collection number. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1931	BRNA	<i>Brassica napus</i> L.	Norberg, I.	58.1100	-135.4400		Date estimated from collection number. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1925	BRRA	<i>Brassica rapa</i> L.	Anderson, J.	57.0500	-135.3300		Date estimated from collection number. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.

Collection Date	Taxonomic Code	Scientific Name with Authority	Collector(s)	Latitude	Longitude	Location Notes	Source Information
1/1/1941	BRBR5	<i>Bromus briziformis</i> Fisch. & C.A. Mey	Anderson, J.	60.1042	-149.4422	Seward	Herbarium: US. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/28/1929	BRHO2	<i>Bromus hordeaceus</i> L.	Miller, W.	64.5000	-165.4160	Nome. Probably introduced from the states, <i>Bromus</i> sp.	UAAH (7591)
7/28/1945	BRHO2	<i>Bromus hordeaceus</i> L.	Eyerdam, W.	57.7900	-152.4070		WTU (293741)
7/20/1914	BRINI	<i>Bromus inermis</i> ssp. <i>inermis</i> Leyss.	Eastwood	59.4583	-135.3100		Date estimated from collection number. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1941	BRRA2	<i>Bromus racemosus</i> L.	Porsild, A.	64.9378	-154.6919	Kokrines Mountains	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1918	BRSE	<i>Bromus secalinus</i> L.	Anderson, J.	58.3019	-134.4100		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
7/23/1923	BRTE	<i>Bromus tectorum</i> L.	Anderson, J.	59.4167	-135.9330		Herbarium: NY (00664371)
1/1/1918	CASA2	<i>Camelina sativa</i> (L.) Crantz	Anderson, J.	57.0500	-135.3300		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
1/1/1918	CABU2	<i>Capsella bursa-pastoris</i> (L.) Medik.	Anderson, J.	58.3019	-134.4190		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
8/16/1995	CAAR18	<i>Caragana arborescens</i> Lam.	Duffy, M.	64.7900	-147.7300		AKNHP Floristic Inventory, ALA (13819)
8/4/1993	CAST5	<i>Carex stipata</i> Muhl. ex Willd.	Duffy, M.	56.0100	-130.0600	Mile 8 N of Hyder, muddy beaver pond.	ALA (8950), AKNHP Rare Plant Survey
1/1/1918	CATE26	<i>Castilleja tenuis</i> (Heller) Chuang & Heckard	Anderson, J.	59.4583	-135.3130		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.

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9/3/2008	CECY2	<i>Centaurea cyanus</i> L.	Cortes-Burns, H.	61.2151	-149.8853		UAAH (6617)
7/20/1899	CEFOV2	<i>Cerastium fontanum</i> ssp. <i>vulgare</i> (Hartman) Greuter & Burdet	Coville, F.; Kearney, T.	57.7900	-152.4070		Herbarium: US (373758)
9/11/1913	CEGL2	<i>Cerastium glomeratum</i> Thuill.	Enander	59.4583	-135.3138		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1902	CHALA	<i>Chenopodium album</i> L.	Gorman	59.6449	-153.6366		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/4/1995	CHSI2	<i>Chenopodium simplex</i> (Torr.) Raf.	Duffy, M.	64.8622	-147.6106	Yukon-Tanana Uplands, Birch Hill ski lift area, upper slope of bluffs just E of ski lift.	ALA (V120541), AKNHP Rare Plant Survey
1/1/1925	CIAR4	<i>Cirsium arvense</i> (L.) Scop	Anderson, J.	58.3019	-134.4190		Date estimated from collection number. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1941	CIVU	<i>Cirsium vulgare</i> (Savi) Ten.	Hulten, E.	55.9169	-130.0240		Date estimated from collection number. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
8/1/1891	CLDO2	<i>Clinopodium douglasii</i> (Benth.) Kuntze	Anonymous	58.3019	-134.4190		WTU (15111)
7/1/1931	COLI2	<i>Collomia linearis</i> Nutt.	Anderson, J.	64.8569	-147.8020		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
8/20/1932	COCO7	<i>Cotula coronopifolia</i> L.	Henderson, L.	56.4708	-132.3760		Herbarium: OSC (ORE91500)
7/21/1970	CRTE3	<i>Crepis tectorum</i> L.	Williams, M.	64.2578	-146.1220		Herbarium: OSC (135528)

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7/8/1902	CRTO4	<i>Cryptantha torreyana</i> (Gray) Greene	Macoun	59.4583	-135.3138		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
8/31/1983	CYSC4	<i>Cytisus scoparius</i> (L.) Link	Muller, M.	57.2197	-134.8910		Herbarium: NY (00785669)
1/1/1902	DAGL	<i>Dactylis glomerata</i> L.	Irwin, D.	57.0531	-135.3300	Sitka Agriculture Research Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
8/12/1945	DEEL	<i>Deschampsia elongata</i> (Hook.) Munro	Schaack, G.	52.8319	173.2000	Aleutian Islands, Attu Islands, Vicinity of Massacre Bay, Peaceful Valley.	WTU (152652)
6/20/1991	DESO2	<i>Descurainia sophia</i> (L.) Webb ex Prantl	Lipkin, R.	66.4333	-141.5160	Salmon Fork of the Black River headwaters, near mouth of Runt Cr., E end of Pink Bluff	AKNHP Floristic Inventory, ALA (129058)
8/11/1920	DESO2	<i>Descurainia sophia</i> (L.) Webb ex Prantl	Thornton, C.	64.5059	-165.4233	Nome, Submarine Beach.	Herbarium: ID (6047). Observed at roadside and mining area.
7/21/1993	DUARA	<i>Dulichium arundinaceum</i> (L.) Britton var. <i>arundinaceum</i>	Duffy, M.	56.0990	-133.1490	Prince of Wales Island, Neck Lake, easternmost part of lake.	ALA (V114670), AKNHP Rare Plant Survey
1/1/1918	ELRE4	<i>Elymus repens</i> (L.) Gould	Anderson, J.	58.3019	-134.4190	Juneau	Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
1/1/1918	ERCI6	<i>Erodium cicutarium</i> (L.) L'Hér. ex Ait.	Anderson, J.	58.3019	-134.4190	Juneau	Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.

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8/1/1994	ERGA	<i>Erucastrum gallicum</i> (Willd.) O.E. Schulz	Duffy, M.; Tande, J.	61.2900	-149.5800	Cook Inlet lowlands, landfill, roadside at entrance intersection	ALA (V119192)
7/4/2004	ERCA14	<i>Erysimum capitatum</i> (Douglas ex Hook.) Greene	Lapina, I.	57.9228	-152.7911	Seward Highway, Bird Point, bike trailside.	UAAH (158); observed at trailside
8/12/2000	EUNE3	<i>Euphrasia nemorosa</i> (Pers.) Wallr.	Jorgensen, J.	59.4900	-135.3600	KLGO National Park Service	ALA (40233); observed at footbridge
1/1/1931	FACO	<i>Fallopia convolvulus</i> (L.) A. Love	Anderson, J.	61.5000	-149.2000		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
8/16/1981	FAJA2	<i>Fallopia japonica</i> (Houtt.) Ronse Decr.	Muller, M.	56.2497	-134.6440	Baranof Island, southeast part. Port Alexander.	WTU (282254); observed at boardwalk
8/1/1995	GAPU	<i>Gaillardia pulchella</i> Foug.	Duffy, M.; Raynolds, M.	64.8200	-147.7900	Yukon-Tanana Uplands, cooling pond SW of power plant, central island.	AKNHP Floristic Survey, ALA (13719). Observed in disturbed open willow scrub and mixed mesic meadow.
7/22/1969	GABI3	<i>Galeopsis bifida</i> Boenn.	Naughton, C.	57.7900	-152.4070	Kodiak; Standard Oil Dock.	Herbarium: WWB (12316); observed growing in dirt filled cracks between planking in dock.
1/1/1864	GATE2	<i>Galeopsis tetrahit</i> L.	Kellogg	57.0531	-135.3300	Sitka	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1969	GEBI2	<i>Geranium bicknellii</i> Britt.	Hulten, E.	64.8500	-147.8000	Fairbanks	Cited in: Hultén, E. 1968. Flora of Alaska and neighboring territories: a manual of the vascular plants. Stanford University Press.
7/30/1924	GEBI2	<i>Geranium bicknellii</i> Britt.	Flory	59.4275	-136.0820		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.

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1/1/1941	GERO	<i>Geranium robertianum</i> L.	Hulten, E.	58.3019	-134.4190	Juneau	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
6/26/1939	GLHE2	<i>Glechoma hederacea</i> L.	Anderson, J.	56.4600	-132.3700	Wrangell	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/24/1931	GNUL	<i>Gnaphalium uliginosum</i> L.	Anderson, J.	62.9870	-156.0660	Takotna	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
8/29/1994	HEAN3	<i>Helianthus annuus</i> L.	Duffy, M.; Tande, J.	65.0056	-150.6310	Tanana Hot Springs	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1. Observed on disturbed, gravelly roadside.
1/1/1941	HEMA3	<i>Hesperis matronalis</i> L.	Purer	55.0616	-131.5410	Annette Island	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1969	HIAU	<i>Hieracium aurantiacum</i> L.	Hulten, E.	58.3019	-134.4190	Glacier Highway, Juneau	Cited in: Hultén, E. 1968. Flora of Alaska and neighboring territories: a manual of the vascular plants. Stanford University Press.
7/5/2006	HIP12	<i>Hieracium piloselloides</i> Vill.	Arhangelsky, K.	56.6787	-132.9191	PETERSBURG QUAD: Mitkof Island, intersection of State Highway 7 and Papke's Landing Road.	UAAH (62); observed at roadside with fill importation
6/6/1992	HIUM	<i>Hieracium umbellatum</i> L.	Grow, G.	66.6615	-150.6670	Bettles Quad, Dalton Hwy.	UAAH (2226); observed on forest floor
1/1/1906	HOLA	<i>Holcus lanatus</i> L.	Irwin, D.	61.9550	-145.3050	Copper Center Agriculture Research Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.

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10/17/1923	HOJU	<i>Hordeum jubatum</i> L.	Johnston	56.6005	-169.6306	St. George Island, near Sheephouse	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1. One older record for HOJU exists, but location description is too vague to include as first record: 8/2/1889, Russell, Yukon River, Historical Data, source is identical citation as this record.
1/1/1918	HOVU	<i>Hordeum vulgare</i> L.	Anderson, J.	58.3019	-134.4190	Juneau	Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449. Observed at roadside.
7/10/1981	HYPE	<i>Hypericum perforatum</i> L.	Looff, E.	57.1320	-154.2630	Kodiak Island. Olga Bay, Cannery Station.	WTU (314337); observed on grassy slope on southeastern exposure
1/1/1919	HYRA3	<i>Hypochaeris radicata</i> L.	Anderson, J.	58.3019	-134.4190	Juneau	Cited in: Anderson, J.P. 1919. Supplement list of plants from southeastern Alaska. Proceedings of Iowa Academy of Science. 26: 327-331.
8/5/1932	LATA	<i>Lactuca tatarica</i> (L.) C.A. Mey.	Henderson, L.	65.1710	-152.0780	Tanana, Yukon River	Herbarium: OSC (ORE95180)
1/1/1950	LAAL	<i>Lamium album</i> L.	Anderson, J.	58.3019	-134.4190	Juneau	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
6/18/1944	LASQ	<i>Lappula squarrosa</i> (Retz.) Dumort.	Anderson, J.	62.3019	-145.3010	Gakona	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1919	LACO3	<i>Lapsana communis</i> L.	Anderson, J.	58.3019	-134.4190	Juneau	Cited in: Anderson, J.P. 1919. Supplement list of plants from southeastern Alaska. Proceedings of Iowa Academy of Science. 26: 327-331.
1/1/1932	LAPR	<i>Lathyrus pratensis</i> L.	Gasser, G.	64.8500	-147.8000	Experiment station. Assume Fairbanks.	UAAH (7592)

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8/1/2005	LECA5	<i>Lepidium campestre</i> (L.) W.T. Aiton.	Lapina, I.	61.1228	-149.8633	ANCHORAGE QUAD: Anchorage, southeast corner of intersection O'Malley Rd and Old Seward HWY,	UAAH (00167)
1/1/1919	LEDE	<i>Lepidium densiflorum</i> Schrad.	Anderson, J.	59.4583	-135.3130	Frequent in Skagway	Cited in: Anderson, J.P. 1919. Supplement list of plants from southeastern Alaska. Proceedings of Iowa Academy of Science. 26: 327-331.
8/6/1989	LERA2	<i>Lepidium ramosissimum</i> A. Nels.	Shumway, E.	58.3019	-134.4190	Mountain near Juneau	WTU (112754)
8/1/1936	LEVU	<i>Leucanthemum vulgare</i> Lam.	Looff, E.	57.7900	-152.4072	Alitak, Kodiak Island	Herbarium: OSC (40790)
1/1/1941	LIVU2	<i>Linaria vulgaris</i> P. Mill.	Scamman, E.	64.8500	-147.8000	Fairbanks	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1. Garden escape.
8/1/1935	LOMU	<i>Lolium multiflorum</i> Lam.	Rudd, J.	54.1356	-165.7700	Akutan, Aleutian Islands.	WTU (101969)
1/1/1902	LOPE	<i>Lolium perenne</i> L.	Irwin, D.	57.0531	-135.3300	Sitka Agriculture Research Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
7/30/1941	LOPR7	<i>Lolium pratense</i> (Huds.) S.J. Darbyshire	Anderson, J.	62.9886	-156.0640	Takotna	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/9/1931	LUPOP2	<i>Lupinus polyphyllus</i> Lindl.	Anderson, J.	61.6070	-149.0700	Matanuska Valley	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/20/1914	MAGL2	<i>Madia glomerata</i> Hooker	Anderson, J.	59.4583	-135.3130	Skagway	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.

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7/25/1932	MADI6	<i>Matricaria discoidea</i> DC.	Smith, L.	57.0531	-135.3300	Sitka	Herbarium: OSC (ORE96804)
1/1/1881	MADI6	<i>Matricaria discoidea</i> DC.	McKay	58.9481	-158.4920	Nushagak	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1930	MELU	<i>Medicago lupulina</i> L.	Anderson, J.	58.3019	-134.4190	Juneau	Date estimated from collection number. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1918	MEPO3	<i>Medicago polymorpha</i> L.	Anderson, J.	57.0531	-135.3300	Common weed in Sitka	Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
1/1/1915	MESAF	<i>Medicago sativa</i> L. ssp. <i>falcata</i> (L.) Arcang.	Irwin, D.	64.8500	-147.8000	Fairbanks Experimental Research Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
7/28/1909	MESAS	<i>Medicago sativa</i> L. ssp. <i>sativa</i>	Hitchcock, A.	65.0056	-150.6310	Hot Springs at Tanana	Herbarium: NY. Hultén 1941. <i>Medicago sativa</i> ssp <i>falcata</i> was formally accepted as <i>Medicago falcata</i> . At time of publication (1941) the <i>M. falcata</i> and <i>M. sativa</i> were seen as different species based on flower color. This collection was determined as <i>M. sativa</i> , which now is <i>M. sativa</i> ssp. <i>sativa</i> .
1/1/1912	MESAS	<i>Medicago sativa</i> L. ssp. <i>sativa</i>	Irwin, D.	64.8500	-147.8000	Fairbanks Experimental Research Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
1/1/1920	MEAL2	<i>Melilotus albus</i> Medik.	Irwin, D.	57.7900	-152.4000		Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.

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1/1/1920	MEOF	<i>Melilotus officinalis</i> (L.) Lam.	Irwin, D.	57.7900	-152.4000		Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
1/1/1913	MEOF	<i>Melilotus officinalis</i> (L.) Lam.	Irwin, D.	65.5050	-150.1700		Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
1/1/1918	MESP3	<i>Mentha spicata</i> L.	Anderson, J.	58.3019	-134.4190	Southeast AK, not specific. Introduced, escaped from cultivation.	Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
7/1/1909	MIGR	<i>Microsteris gracilis</i> (Hook.) Greene	Scheuber	59.2286	-135.4440	Haines and Chilcat	Herbarium: US. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1919	MYSC	<i>Myosotis scorpioides</i> L.	Haley	57.1222	-170.2750	St. Paul Island	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1918	MYSC	<i>Myosotis scorpioides</i> L.	Anderson, J.	58.3019	-134.4190	Southeast AK, not specific. Introduced, escaped from cultivation.	Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
7/15/1933	MYSC	<i>Myosotis scorpioides</i> L.	Williams, R.	56.8113	-132.9510	Petersburg	WTU (28068)
7/1/1962	MYSY	<i>Myosotis sylvatica</i> Ehrh. ex Hoffmann	Travers, C.	63.3411	-150.7340	Mile 67, road. Mt. McKinley Nat. Park. Alpine tundra	Herbarium: ID (44497)
1/1/1918	NECA2	<i>Nepeta cataria</i> L.	Anderson, J.	57.0531	-135.3300	Sitka, probably introduced from feed	Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.

Collection Date	Taxonomic Code	Scientific Name with Authority	Collector(s)	Latitude	Longitude	Location Notes	Source Information
8/11/1931	NEPA3	<i>Neslia paniculata</i> (L.) Desv.	Anderson, J.	61.6070	-149.0700	Palmer	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/30/1974	PACR80	<i>Papaver croceum</i> Ledeb.	Taylor, R.; Taylor, G.	64.5000	-146.9800	Highway roadside, couple of miles southeast of Fairbanks.	Herbarium: WWB (17244); observed at roadside in gravel and sand
1/1/1913	PARH2	<i>Papaver rhoeas</i> L.	Eaton	61.5158	-144.4300	Chitina Valley	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
8/3/1952	PELA22	<i>Persicaria lapathifolia</i> (L.) Gray	Schofield, W.	58.6883	-156.6610	King Salmon, King Salmon Creek	WTU (182026); observed near creek
10/3/1940	PEMA24	<i>Persicaria maculosa</i> Gray	Brown, E.	57.0531	-135.3300	Sitka	Herbarium: PLU (715)
8/2/1909	PHCA5	<i>Phalaris canariensis</i> L.	Hitchcock, C.	64.8500	-147.8000	Fairbanks, rare weed along street.	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1. Observed at roadside.
1/1/1905	PHAR3	<i>Phalaris arundinacea</i> L.	Irwin, D.	60.5500	-151.2580	Kenai Agriculture Research Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
1/1/1918	PHPH3	<i>Phleum pratense</i> L.	Anderson, J.	58.3019	-134.4190	Juneau, introduced around canneries.	Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
7/18/2012	PLSCH	<i>Plagiobothrys scouleri</i> var. <i>hispidulus</i> (Greene) Dorn	Duffy, M.	61.5197	-149.0883	Alaska Plant Materials Center grounds, Bodenburg Loop, Palmer. Growing as a weed in raised beds and	UAAH (3546)

Collection Date	Taxonomic Code	Scientific Name with Authority	Collector(s)	Latitude	Longitude	Location Notes	Source Information
						agricultural fields.	
1/1/1919	PLLA	<i>Plantago lanceolata</i> L.	Anderson, J.	58.3019	-134.4190	Juneau, sparingly introduced	Cited in: Anderson, J.P. 1919. Supplement list of plants from southeastern Alaska. Proceedings of Iowa Academy of Science. 26: 327-331.
7/1/1909	PLMA2	<i>Plantago major</i> L.	Hitchcock, C.	65.0056	-150.6310	Manly Hot Springs	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
8/18/1904	PLMA2	<i>Plantago major</i> L.	Piper, C.	60.5540	-151.2580	Kenai	WTU (16124)
1/1/1891	POAN	<i>Poa annua</i> L.	Wright	57.0531	-135.3300	Sitka	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/21/1940	POCO	<i>Poa compressa</i> L.	Anderson, J.	58.3019	-134.4190	Juneau, roadside	WTU (293085). Observed at roadside.
1/1/1902	POPR	<i>Poa pratensis</i> L. ssp. <i>pratensis</i>	Irwin, D.	57.0531	-135.3300	Sitka Agriculture Research Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
1/1/1918	POTR2	<i>Poa trivialis</i> L.	Anderson, J.	58.3019	-134.4190		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
8/5/1956	POAC3	<i>Polygonum achoreum</i> S.F. Blake	Thomas, J.	59.4160	-146.3330	Middleton Island	WTU (171922)
8/24/1918	POAV	<i>Polygonum aviculare</i> L.	Thornton, C.	64.5059	-165.4233	Nome, roadside	Herbarium: ID (6051). Observed at roadside and mining area.
9/5/1913	POHY	<i>Polygonum hydropiper</i> L.	Enander	58.3019	-134.4190	Juneau	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
5/12/1980	PRPA5	<i>Prunus padus</i> L.	Muller, M.	57.0531	-135.3300	Sitka, downtown. East side of Castle	WTU (289244); observed in disturbed area

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						Hill.	
6/22/1945	RAAC3	<i>Ranunculus acris</i> L.	Hardy, R.	52.8727	173.2613	Attu Island, Sarana Bay.	WTU (97288)
8/24/1881	RARE3	<i>Ranunculus repens</i> L.	McKay	58.9481	-158.4920	40 miles above Nushagak	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
8/1/1936	RASA2	<i>Raphanus sativus</i> L.	Norberg	60.5797	-145.7170		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/10/2003	RHRH2	<i>Rheum rhabarbarum</i> L.	Carlson, M.; Bethe, A.	59.5015	-135.3593	Coast Mtns., Chilkoot Unit, Dyea. Dyea road, ca. 0.5 mile from end, site 246.	ALA (74788)
1/1/1946	RONA2	<i>Rorippa nasturtium-aquaticum</i> (L.) Hayek	Anderson, J.	65.0011	-150.6338		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
8/1/1994	ROSY	<i>Rorippa sylvestris</i> (L.) Bess.	Duffy, M.; Tande, J.	61.2931	-149.5875	Anchorage Quad, Cook Inlet lowlands; landfill, roadside at entrance.	UAAH (2836)
7/1/1909	RUCR	<i>Rumex crispus</i> L.	Hitchcock, C.	65.0011	-150.6338	Tanana Hot Springs	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1937	RULO2	<i>Rumex longifolius</i> DC.	Hulten, E.	58.3019	-134.4190	Juneau	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
9/10/1913	RUOB	<i>Rumex obtusifolius</i> L.	Enander	59.4583	-135.3130	Skagway	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.

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7/12/1913	RUOB	<i>Rumex obtusifolius</i> L.	Griggs	59.4381	-151.7110	Seldovia	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/5/1941	SCPH	<i>Schedonorus phoenix</i> (Scop.) Holub	Anderson, J.	65.0056	-150.6310	Manley Hot Springs	WTU (160492)
1/1/1916	SEVU	<i>Senecio vulgaris</i> L.	Anderson, J.	57.0531	-135.3300	Sitka	Cited in: Anderson, J.P. 1916, Notes on the flora of Sitka, Alaska. Proceedings of Iowa Academy of Science. 23:427-482
1/1/1919	SEVU	<i>Senecio vulgaris</i> L.	Anderson, J.	58.3019	-134.4190	Common weed in Juneau	Cited in: Anderson, J.P. 1919. Supplement list of plants from southeastern Alaska. Proceedings of Iowa Academy of Science. 26: 327-331.
9/4/2008	SIAR	<i>Silene armeria</i> L.	Cortes-Burns, H.; Hampy, K.	61.1586	-149.8013	Smoke Jumper Trailhead, Campbell Tract, Anchorage	UAAH (1228)
8/29/1994	LYCH3	<i>Silene chalcedonica</i> (L.) E. H. L. Krause	Duffy, M.; Tande, J.	61.2900	-149.5800	Cook Inlet lowlands, north end of landfill.	ALA (16519)
8/26/1937	SILA21	<i>Silene latifolia</i> Poir.	Thornton, C.	64.4375	-165.0000	Sandspit near Cape Nome Roadhouse. Near sea level.	Herbarium: ID (6073)
1/1/1938	SINO	<i>Silene noctiflora</i> L.	Sharples, A.	58.3019	-134.4190		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/28/1909	SIAR4	<i>Sinapis arvensis</i> L.	Hitchcock, A.	65.1719	-152.0780	Hot Springs at Tanana	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1918	SIAL2	<i>Sisymbrium altissimum</i> L.	Anderson, J.	58.3019	-134.4190		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.

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1/1/1918	SIOF	<i>Sisymbrium officinale</i> (L.) Scop.	Anderson, J.	57.0531	-135.3300		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
1/1/1918	SONI	<i>Solanum nigrum</i> L.	Anderson, J.	57.0500	-135.3300		Herbarium: NY (00821454)
7/25/1917	SOPH	<i>Solanum physalifolium</i> Rusby	Anderson, J.	58.3000	-134.4000		Herbarium: NY (00821279)
1/1/1918	SOAR2	<i>Sonchus arvensis</i> L.	Anderson, J.	58.3019	-134.4190		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
8/7/1993	SOARU	<i>Sonchus arvensis</i> ssp. <i>uliginosus</i> (Bieb.) Nyman	Duffy, M.	55.9100	-130.0100	Salt marsh meadow	ALA (8965)
1/1/1918	SOAS	<i>Sonchus asper</i> (L.) Hill	Anderson, J.	58.3019	-134.4190		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
1/1/1941	SOOL	<i>Sonchus oleraceus</i> L.	Anderson, J.	58.3019	-134.4190	Mendenhall	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1939	SOAU	<i>Sorbus aucuparia</i> L.	Jones	56.4708	-132.3766		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/24/1931	SPAR	<i>Spergula arvensis</i> L.	Anderson, J.	64.8500	-147.8000	College, Fairbanks.	Herbarium: NY (NY-VP-563233)
1/1/1867	SPAR	<i>Spergula arvensis</i> L.	Rothrock, J.	58.3019	-134.4190		Cited in: Rothrock, J.T. 1868. Sketch of the flora of Alaska. Annual Rep. Smiths. Inst. 1867. Pp 433-463
1/1/1940	SPRU	<i>Spergularia rubra</i> (L.) J.& K. Presl	Scamman, E.	64.8500	-147.8000		Cited in: Scamman, E. 1940. A list of plants from interior Alaska. Rhodora 42: 309-349
1/1/1816	STME2	<i>Stellaria media</i> (L.) Vill.	Hulten, E.	53.8736	-166.5366		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1941	TAVU	<i>Tanacetum vulgare</i> L.	Hulten, E.	57.0531	-135.3300		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.

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1/1/1916	TAOF	<i>Taraxacum officinale</i> F.H. Wigg.	Anderson, J.	57.0531	-135.3300	Sitka	Cited in: Anderson, J.P. 1916. Notes on the flora of Sitka, Alaska. Proceedings of Iowa Academy of Science. 23:427-482
1/1/1919	THAR5	<i>Thlaspi arvense</i> L.	Anderson, J.	58.3019	-134.4190		Cited in: Anderson, J.P. 1919. Supplement list of plants from southeastern Alaska. Proceedings of Iowa Academy of Science. 26: 327-331.
8/28/2003	TRDU	<i>Tragopogon dubius</i> Scop.	Lapina, I.	61.0561	-149.7970	Potter Station, Anchorage. Railroad embankment.	UAAH (136)
1/1/1941	TRDU2	<i>Trifolium dubium</i> Sibthorp	Anderson, J.	58.3019	-134.4190		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1901	TRHY	<i>Trifolium hybridum</i> L.	Irwin, D.	65.5050	-150.1700	Kenai Agriculture Research Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
8/9/1932	TRLU	<i>Trifolium lupinaster</i> L.	Palmer	65.5050	-150.1700	Rampart station. Between Rampart and Tanana	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/28/1909	TRMI4	<i>Trifolium microcephalum</i> Pursh	Hitchcock, A.	65.0056	-150.6310	Hot Springs at Tanana	Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1902	TRPR2	<i>Trifolium pratense</i> L.	Irwin, D.	57.0531	-135.3300	Sitka Agriculture Research Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
1/1/1902	TRRE3	<i>Trifolium repens</i> L.	Irwin, D.	57.0531	-135.3300	Sitka Agriculture Research Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.

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1/1/1947	TRVA	<i>Trifolium variegatum</i> Nutt.	Anderson, J.	63.4711	-162.0531		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
7/1/1937	TRIN11	<i>Tripleurospermum inodorum</i> (L.) Sch. Bip.	Went	64.8500	-147.8000		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1918	TRAЕ	<i>Triticum aestivum</i> L.	Anderson, J.	58.3019	-134.4190	Roadsides in Juneau.	Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449. Observed at roadsides.
1/1/1916	VAHI2	<i>Vaccaria hispanica</i> (P. Mill.) Rauschert	Anderson, J.	57.0531	-135.3300		Cited in: Anderson, J.P. 1916, Notes on the flora of Sitka, Alaska. Proceedings of Iowa Academy of Science. 23:427-482
1/1/1909	VAHI2	<i>Vaccaria hispanica</i> (P. Mill.) Rauschert	Hitchcock, C.	65.0011	-150.6338		Herbarium: US. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1918	VEAR	<i>Veronica arvensis</i> L.	Anderson, J.	58.3019	-134.4190		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
1/1/1941	VECH	<i>Veronica chamaedrys</i> L.	Anderson, J.	57.0531	-135.3300		Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1918	VEPE3	<i>Veronica persica</i> Poir.	Anderson, J.	58.3019	-134.4190		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
1/1/1918	VESES	<i>Veronica serpyllifolia</i> ssp. <i>serpyllifolia</i> L.	Anderson, J.	58.3019	-134.4190		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
1/1/1918	VESP80	<i>Veronica spicata</i> L. ssp. <i>spicata</i>	Anderson, J.	58.3019	-134.4190		Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.

Collection Date	Taxonomic Code	Scientific Name with Authority	Collector(s)	Latitude	Longitude	Location Notes	Source Information
1/1/1906	VICRC	<i>Vicia cracca</i> L. ssp. <i>cracca</i>	Irwin, D.	61.9550	-145.3050	Copper Center Agriculture Research Station	Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
1/1/1941	VICRC	<i>Vicia cracca</i> L. ssp. <i>cracca</i>	Anderson, J.	64.8500	-147.8000		Year estimated from JP Anderson collection number. Cited in: Hultén, E. 1941-1950. Flora of Alaska and Yukon, 1-10. Lunds Universitets Årsskrift N.F., Avd. 2, 37:1-46:1.
1/1/1909	VICRC	<i>Vicia cracca</i> L. ssp. <i>cracca</i>	Irwin, D.	65.5050	-150.1700		Cited in: Irwin, Don L. 1945. Forty-seven years of experimental work with grasses and legumes in Alaska. University of Alaska Agriculture. Bulletin No. 12. College, Alaska.
1/1/1918	VISAN2	<i>Vicia sativa</i> ssp. <i>nigra</i> (L.) Ehrh.	Anderson, J.	57.0531	-135.3300	Sitka. A few plants introduced at Sitka. Probably introduced with feed.	Cited in: Anderson, J.P. 1918. Plants of southeastern Alaska. Proceedings of Iowa Academy of Science. 25:427-449.
1/1/1931	VIVI	<i>Vicia villosa</i> Roth	Anderson, J.	61.5997	-149.1120		Cited in: Anderson, J.P. 1947. Flora of Alaska and adjacent parts of Canada, I-VIII.: VI. Crassulaceae-Fabaceae. Iowa State College Journal of Science. 21: 363-423.
8/7/1995	VITR	<i>Viola tricolor</i> L.	Duffy, M.; Raynolds, M.	64.8200	-147.5800	Yukon-Tanana Uplands, S end of golf course at Montgomery Road.	AKNHP Floristic Survey, ALA (13764)