INTRODUCTORY STATEMENT

This inventory, No. 130, is a record of the plant material (Nos. 119267 to 123341) received by the Division of Plant Exploration and Introduction during the period from January 1 to March 31, 1937. More than 4,000 introductions are recorded in this inventory, which is nearly twice as many as have ever been received before during a like period. They represent the wide collections from two exploring parties, each of which was primarily concerned with the collection of vegetable varieties in the several areas. In making these collections, both parties were instructed to keep in mind the choice of varieties that showed health and vigor of growth, even if the food quality of the plant was poor. Any and all types of vegetables were collected except those very recently introduced into the area. All were to be considered as potential breeding materials for the Southeastern Vegetable Breeding Station, Charleston, S. C., and for various State experiment stations.

H. L. Westover, forage crop specialist, and F. L. Wellman, vegetable pathologist, traveled through Turkey for this purpose, and Walter Koelz, a former explorer of the Department, collected in northern India.

In addition to these projects, the results of two other collecting trips appear in this inventory; those of W. A. Archer and Raymond Stadelman, who collected peanuts and tobaccos for special breeding studies, traveling through various Latin-American countries and observing both small noncommercial cultures and plants in the wild.

Other materials besides those covered by their main projects included useful crop plants and some ornamentals from all these areas.
Initial identifications of the seeds and determination of the nomenclature have been made by Paul Russell, who has had general supervision of this inventory.

B. Y. Morrison,
Principal Horticulturist, in Charge.

Division of Plant Exploration and Introduction,
Washington, D. C., May 22, 1941.
INVENTORY

NOTE.—This inventory is a historical record of plant material introduced for Department and other specialists. It is not to be considered as a list of plant material for distribution.

119267. APLOPAPPUS CUNEIFOLIUS Nutt. Asteraceae.
From Chile. Seeds collected by Clarence Elliot, of England, and presented by Ralph A. Fenton, of Oswego, Oreg. Received January 6, 1937.
A shrubby yellow-flowered composite with stiff alternate leaves; native to Chile.

119268. CARICA PENTAGONA Heilborn. Papavaceae.
From Ecuador. Cuttings presented by Luis A. Gattoni D., Quito. Received January 19, 1937.
Babaco. This is the most remarkable and valuable of the several interesting species of Carica cultivated in Ecuador, because of its large, very acid fruits, from which an excellent sauce is made, the relatively low temperatures which the plant can stand, and because of its habit of producing seedless fruits.
The plant is seen only under cultivation where it is a small tree about 3 m. high; the leaves are glabrous, like those of Carica chrysopetala, but with fewer and broader lobes. The fruits are about 30 cm. long and 7 to 12 cm. in diameter, truncate at the base and sharply acute at the apex. The flesh is about 1 cm. thick, white, distinctly fragrant, and very acid. It is eaten only after it is cooked. The large cavity in the center contains a quantity of white cottony substance and occasionally a few seeds.
For previous introduction see 62552.

119269 to 119271—Continued.
Nos. 119269 and 119271 were from Pillahuata, Paucartambo Valley, at 2,800 m. altitude, December 5, 1936.
119270. RUBUS sp. Rosaceae.
119271. REUS sp. Rosaceae.

119272. SACCHARUM. Poaceae.
Sugarcane.
From Barbados, West Indies. Seeds presented by the Department of Agriculture, Barbados, through E. W. Brandes, Bureau of Plant Industry. Received January 15, 1937.

119273. CITRUS LIMONIA Osbeck. Rutaceae.
Lemon.
From India. Seeds collected by Walter Koelz, Bureau of Plant Industry. Received January 4, 1937.
No. 1650. Gulgul, gombru. From Bandrolie, Kuala, Punjab, at 5,000 feet altitude, November 14, 1936. A remarkable lemon; the tree withstands a temperature of 18° F. and is covered with snow a month or so in the winter. It is quick-growing; one 3-year-old tree (3 feet high when planted) is now bearing and is 8 feet high. The fruit is large, of good flavor, and will keep in ordinary storage for over a year. The tree is quite ornamental, principally on account of its large strongly scented flowers.

119274 to 119286. GLADIOLUS spp. Iridaceae.
From the Union of South Africa. Seeds presented by A. Cheverton Buller, Dwarsrivier Hoek. Stellenbosch District. Cape Province. Received January 13, 1937.
119274. GLADIOLUS ALATUS L.
A gladiolus with flowers of a delightful fragrance, not unlike that of the sweet briar. The three upper segments are bright...
GLADIOLUS TRISTIS, Jacq. A South African gladiolus with a very slender stem 1% to 2 feet high, about 3 linear leaves and 1 to 3 whitish flowers in a lax curved spike. The lower segments are purplish at the throat.

GLADIOLUS DEBILIS, Ker. A South African gladiolus with a very slender stem 1 to 1% feet high, about 3 linear leaves and 1 to 3 whitish flowers in a lax curved spike. The outermost segments are about three-fourths of an inch long and the inner ones are marked with a carmine, 3-lobed spot at the base of each.

GLADIOLUS GRANDIS, Ker. A South African gladiolus with a stout stem 3 feet or more in length and usually 4 rigid sword-like leaves up to 2 feet long. The many-flowered spike reaches a foot or more in length. The flowers are a rich yellow, grained and overlain with red, particularly about the margins of the segments.

GLADIOLUS VITTATUS, Hortem. A gladiolus about 1 foot high with several narrow linear leaves 6 to 9 inches long and numerous pink or whitish flowers in a stout curved spike. The nearly erect flowers are about 1 inch long, the limbs slightly reflexed, and the three lower segments with a purple central blotch. Native to South Africa.

GLADIOLUS WATERMIERI, L. Bolus. A species with 3 or 4 leaves about 10 inches long, conically two-nerved, and very fragrant flowers 1½ inches long. The upper segments are usually greenish, flushed with pinkish buff, with conspicuous purple veins.

GLADIOLUS ORCHIDIFLORUS, Ker. A species with 3 or 4 leaves about 10 inches long and numerous pink or whitish flowers in a lax spike. The outermost segments are marked with a carmine, 3-lobed spot at the base of each.

GLADIOLUS BLANDUS, Ait. A South African gladiolus related to G. tristis, this has 3 strongly terete leaves 12 to 18 inches long, straight, and funnel-shaped. It is a native of the Cape of Good Hope.

GLADIOLUS BREVIFOLIUS, Jaq. A South African gladiolus with firm linear leaves 1½ to 2 feet long and a very slender simple flower stem of equal length, with 4 to 12 pink or lilac flowers in a lax spike. The lower segments are purplish at the throat.

GLADIOLUS GRANDIS, Ker. A South African gladiolus with a very slender stem 1 to 1½ feet high, about 3 linear leaves and 1 to 3 whitish flowers in a lax curved spike. The lower segments are purplish at the throat.

GLADIOLUS DEBILIS, Ker. A South African gladiolus with a very slender stem 1 to 1½ feet high, about 3 linear leaves and 1 to 3 whitish flowers in a lax curved spike. The outermost segments are about three-fourths of an inch long and the inner ones are marked with a carmine, 3-lobed spot at the base of each.

GLADIOLUS ORCHIDIFLORUS, Ker. A species with 3 or 4 leaves about 10 inches long, conically two-nerved, and very fragrant flowers 1½ inches long. The upper segments are usually greenish, flushed with pinkish buff, with conspicuous purple veins.

GLADIOLUS WATERMIERI, L. Bolus. A species with 3 or 4 leaves about 10 inches long, conically two-nerved, and very fragrant flowers 1½ inches long. The upper segments are usually greenish, flushed with pinkish buff, with conspicuous purple veins.

GLADIOLUS VITTATUS, Hortem. A gladiolus about 1 foot high with several narrow linear leaves 6 to 9 inches long and numerous pink or whitish flowers in a stout curved spike. The nearly erect flowers are about 1 inch long, the limbs slightly reflexed, and the three lower segments with a purple central blotch. Native to South Africa.

GLADIOLUS WATERMIERI, L. Bolus. A species with 3 or 4 leaves about 10 inches long, conically two-nerved, and very fragrant flowers 1½ inches long. The upper segments are usually greenish, flushed with pinkish buff, with conspicuous purple veins.

GLADIOLUS ORCHIDIFLORUS, Ker. A species with 3 or 4 leaves about 10 inches long, conically two-nerved, and very fragrant flowers 1½ inches long. The upper segments are usually greenish, flushed with pinkish buff, with conspicuous purple veins.
### JANUARY 1 TO MARCH 31, 1937—Continued.

#### 119299 to 119304


*Karree-boom.* A small bushy tree with gray bark and long-stemmed leaves, with linear-lanceolate leaflets 4 to 6 inches long. It is a valuable hardwood tree for regions of limited rainfall. Native to the Cape of Good Hope.

For previous introduction see 115811.

119300. **RHUS VIMINALIS** Ait. Anacardiaceae. *Sumac.* *Karree-boom.* An evergreen tree up to 30 feet high, native to South Africa in semiarid regions at over 4,000 feet altitude. Sheep and goats browse on the foliage.

For previous introduction see 114495.

119301. **VIBINIUM FASTUOSUM** (Jacq.) Stapf. Asteraceae.

A showy annual a foot or more high, with lanceolate or obovate, irregularly lobed leaves 1 to 2 inches long and terminal solitary bright-orange flower heads up to 4 inches across. Native to South Africa.

For previous introduction see 106099.

119302. **LEBECKIA SERICEA** (Ait.) Thunb. Fabaceae. From the Union of South Africa. Seeds presented by M. Henrici, Officer in Charge, Veld Reserve, Fauresmith, Orange Free State. Received January 21, 1937.

A densely branched shrub about 3 feet high, with trifoliolate leaves, linear-oblong leaflets up to 1½ inches long, and numerous small, deep-yellow flowers. Native to South Africa.

119303 to 119308


From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 5, 1937.

119305. No. 811. From a field near Antalya, June 4, 1936.

119306. No. 1070. From a field 40 km. northwest of Izmir, June 10, 1936.

119307. No. 1071. From a field 10 km. west of Soma, June 10, 1936.

119308. No. 1110. From the Kirkagach bazar, June 11, 1936.

119309. No. 1170. From a field 90 km. west of Balikesir, June 16, 1936.

119310. No. 1232. From the Bursa bazar, June 18, 1936.

119311. No. 1281. From a field 10 km. east of Bandirma, June 18, 1936.

119312. No. 1292. From a field 6 km. east of Bursa, June 19, 1936.

Nos. 119313 and 119314. From fields near Ankara, June 25, 1936.

119313. No. 1358.

119314. No. 1360.

119315. No. 1376. From the Marash bazar, July 2, 1936.

Nos. 119316 to 119318. From the Marash bazar, July 2, 1936.


119317. No. 1388. *Abistan Yasik.*

119318. No. 1396. *Yoksul.*

119319. No. 1465. From a field 45 km. north of Gaziantep, July 3, 1936.

119320. No. 1465-A. White wheat from the village of Hodja Bay, about 15 km. southeast of Urfa, July 6, 1936.

Nos. 119321 and 119322. From fields east of Birejik, July 5, 1936.

119321. No. 1514. Field 5 km. east.


Nos. 119323 and 119324. From the village of Hodja Bay, 15 km. south of Urfa, July 6, 1936.

119323. No. 1523. Red wheat.


119325. No. 1552. From the Urfa bazar, July 6, 1936.

119326. No. 1573. From a field 40 km. northeast of Urfa, July 7, 1936.

Nos. 119327 to 119331. From the Diyarbekir bazar, July 8, 1936.

119327. No. 1613.

119328. No. 1616. Field 25 km. east.

119329. No. 1617.

119330. No. 1677. From a field 52 km. east of Diyarbekir, July 10, 1936.

Nos. 119333 and 119334. From the Elaziz bazar, July 13, 1936.

119333. No. 1696.

119334. No. 1704.

119335. No. 1768. From a field 20 km. southeast of Elaziz, July 13, 1936.

Nos. 119336 to 119340. From the Malatya bazar, July 16, 1936.

119336. No. 1823. White wheat for macaroni.
119300 to 119407—Continued.

119337. No. 1835.
119338. No. 1837. Soft white wheat.
119339. No. 1841. Strong red wheat.
119340. No. 1842. White wheat for macaroni.

Nos. 119341 to 119343. From fields north of Malatya, July 17, 1936.
119341. No. 1881. Field 50 km. north.
119342. No. 1893. Field 30 km. north.
119343. No. 1894. Field 42 km. north.

119344. No. 1910. From a field 28 km. southeast of Elaziz, July 13, 1936.

Nos. 119345 and 119346. From fields 25 km. north of Nigde, July 26, 1936.

119347. No. 2100. From a field on the slopes of Alma Dag, 25 km. southeast of Ankara, August 1, 1936.

119348. No. 2103. From a field 15 km. southeast of Ankara, August 1, 1936.

Nos. 119349 and 119350. From 106 km. east of Sivas, August 5, 1936.
119349. No. 2118.
119350. No. 2123.

Nos. 119351 to 119353. From the Sivas bazar, August 5, 1936.
119351. No. 2155.
119352. No. 2156.
119353. No. 2157.

119354 to 119356. From fields southeast of Susur, August 7, 1936.
119354. No. 2178. Field 46 km. southeast.
119355. No. 2179. Field 80 km. southeast.
119356. No. 2181. Field 46 km. southeast.

Nos. 119357 and 119358. From the Erzinjan bazar, August 8, 1936.
119357. No. 2250. Medium wheat.
119358. No. 2253.

Nos. 119359 and 119360. From fields east of Erzinjan, August 9, 1936.
119359. No. 2262. Field 114 km. east.
119360. No. 2271. Field 94 km. east.

119361. No. 2495. From a field 8 km. southwest of Shebinkarahisar, August 13, 1936.
119362. No. 2573. From a field 7 km. west of Terme, August 22, 1936.
119363. No. 2610. From a field 8 km. west of Samasun, August 23, 1936.
119364. No. 2661. From a field near Merzifon, August 25, 1936.

Nos. 119365 to 119370. Wheat from Konya, obtained at the Izmir Fair, August 22, 1936.

119369. No. 2936. Beardless white wheat.
119370. No. 2937. White wheat.

Nos. 119371 and 119372. Wheat screenings from Turgutlu, obtained at the Izmir Fair, August 22, 1936.
119371. No. 2942.
119372. No. 2943.

Nos. 119373 to 119377. From the Kutahya bazar August 28, 1936.
119373. No. 2989. Medium wheat.
119375. No. 2997. A soft wheat; shriveled from too much rain.
119378. No. 3022. A variety developed by Numan Bay at Eskishehir and being distributed to farmers. August 29, 1936.

Nos. 119379 to 119383. From the Amasya bazar October 6, 1936.
119379. No. 3058.
119380. No. 3059.
119382. No. 3065.
119383. No. 3066.

Nos. 119384 to 119388. From the Yozgat bazar October 9, 1936.
119388. No. 3098. Hard wheat.
119389. No. 3107. From a field 58 km. north of Kalejik, October 12, 1936.

Nos. 119390 to 119394. From the Chan-kiri bazar, October 12, 1936.
119390. No. 3109.
119391. No. 3110.
119392. No. 3111.
119393. No. 3112.
119394. No. 3113. Wheat No. 2.

Nos. 119395 and 119396. From the Icelbolu bazar, October 12, 1936.
119395. No. 3114.
119396. No. 3115.

Nos. 119397 to 119399. From the Kastamonu bazar, October 14, 1936.
119397. No. 3186. Originally from the village of Arach.
119398. No. 3187. Originally from the village of Arach.
119399. No. 3188. Devrekant.

Nos. 119400 and 119401. From the Adapazari bazar, October 20, 1936.
119400. No. 3228.
119401. No. 3231.
119402. No. 3274. Bintane variety from the Adapazari Experiment Station, October 20, 1936.

Nos. 119403 and 119404. From the Edirne bazar, October 22, 1936.
JANUARY 1 TO MARCH 31, 1937

119300 to 119407—Continued.

119403. No. 3280.
119404. No. 3281.
119405. No. 3329. The type commonly
grown in the vicinity of Aydin. May
26, 1936.
119406. No. 3368. From a field 40 km.
east of Bursa, June 19, 1936.
119407. No. 3373. From a field near
Bursa, June 19, 1936.
119408 to 119416. NICOTIANA TABACUM
From Colombia. Seeds collected by Raymond
Stadelman, Bureau of Plant Industry. Re-
ceived January 5, 1937.
Samples of Colombian tobacco presented
by Hernando Garcia B., Herbario Nacional,
Bogota.
119408. Bucaramanga.
119409. Castillo negro.
119410. Castillo, negro.
119411. Chocoa.
119412. Cuba Espinaluno.
119413. Giron.
119414. La Fuente.
119415. Habano.
119416. Los Santos.
119417 to 119445. HORDEUM spp. Poa-
ceae. From Turkey. Seeds collected by H. L. West-
over and F. L. Wellman, Bureau of Plant
Industry. Received January 5, 1937.
This material was all collected in the sum-
mer and autumn of 1936.
119417. HORDEUM BULBOSUM L.
No. 1935. From Birejik, July 22.
119418 to 119443. HORDEUM VULGARE L.
Barley.
119418. No. 550. From the Isparta
bazar, June 2.
119419. No. 730. From a field near
Mugla, May 28.
119420. No. 805. From a field near
Bujak, June 3.
119421. No. 1121. From the Kirkagach
bazar, June 11.
119422. No. 1259. From the Bursa
bazar, June 18.
119423. No. 1277. From a field 60 km.
southwest of Bursa, June 18.
119424. No. 1285. From a field 45 km.
northeast of Bandirma, June 18.
119425. No. 1359. From near Ankara,
June 25; abundant in places on dry
hills.
119426. No. 1467. From a field 40 km.
north of Gaziantep, July 3.
119427. No. 1551. From the Urfa bazar,
July 6.
Nos. 119428 and 119429. From the
Diyarbekir bazar, July 8.
119428. No. 1621. 119429. No. 1625.
Nos. 119430 and 119431. From the
Elaziz bazar, July 13.
119417 to 119445—Continued.
119430. No. 1695. 119431. No. 1713.
Nos. 119432 and 119433. From the
Malatya bazar, July 16.
119432. No. 1831. White barley.
119433. No. 1840.
119434. No. 2180. From a field 80 km.
southeast of Susheri, August 7.
119435. No. 2592. From a field 20 km.
west of Samsun, August 23.
Nos. 119436 and 119437. Hull-less
barley from Konya, obtained at the
Izmir Fair, September 22.
119436. No. 2939. 119437. No. 2940.
119438. No. 2987. From the Kutahya
bazar, September 28.
Nos. 119439 and 119440. From the
Amasya bazar, October 8.
119439. No. 3061. 119440. No. 3063.
119441. No. 3099. From the Yozgat
bazar, October 9.
119442. No. 3148. From the Kastamonu
bazar, October 14; originally from the
village of Arach.
119443. No. 3335. From a field near
Burdur, June 3.
119444. HORDEUM sp.
No. 630. From Ephesus, May 24.
119445. HORDEUM sp.
No. 2769. From 35 km. south of Bursa
on Ulu Dag at 6,500 feet altitude, Septem-
ber 8.
119446 to 119473.
From Venezuela. Seeds collected by Ray-
mond Stadelman, Bureau of Plant Industry. Re-
ceived January 6, 1937.
119446. LYCOPORESCON ESCULENTUM MILL.
Solanaceae. Tomato.
From El Gamera, Sarare River, Apure.
119447 to 119473. NICOTIANA TABACUM L.
Solanaceae. Common tobacco.
119447 to 119449. From Posetas (Rio
Doradas), Tachira.
119448. No. 349. Ambalema.
119450. No. 351. Habano. From Las
Caobas (Rio Uribante), Apure.
119451. No. 352. Habano. From Guaca
(Rio Uribante), Zamora.
119452. No. 353. Caribe. From Tuto-
mito (Rio Apure), Apure.
119453. No. 354. Orega de mula. From
Arturago (Rio Apure), Zamora.
119454. No. 355. From La Tigra (Rio
Apure), Zamora.
Nos. 119455 to 119457 were collected
along the Rio Apure in the State of
Zamora.
119455. No. 356. From Palmarito.
119456. No. 357. From Palmarito.
119457. No. 358. From San Vicente.
Nos. 119458 and 119459 were collected
along the Rio Apure in the State of
Zamora.
PLANT MATERIAL INTRODUCED

119466 to 119586—Continued.

119458. No. 359. From Nutrias.
119459. No. 360. From Santo Domingo.

Nos. 119460 and 119461 were collected along the Rio Apure in the State of Apure.
119460. No. 361. From Apurito.
119461. No. 362. From Banco Largo.


Nos. 119463 to 119471 were collected alone: the Rio Apure in the State of Apure.
119464. No. 365. From Los Pajaros.
119465. No. 366. From El Cochino.
119466. No. 367. From Panelita.
119467. No. 368. *Oreja de tigre.* From Los Indios.
119468. No. 369. From Picacho de Manati.

Nos. 119472 and 119473 were collected at Caicara del Orinoco, State of Bolivar.
119472. No. 373.
119473. No. 374.

119474 to 119586.

From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 6, 1937.

This material was all collected in the summer and autumn of 1936.

119474 to 119478. AVENA SATIVA L. *Oats.*

119474. No. 1172. From a field 80 km. west of Balikesir, June 16.
119475. No. 1284. From a field 8 km. east of Bandirma, June 18.
119477. No. 2101. From a field 25 km. southeast of Alma Dag, August 1.
119478. No. 3282. From the Bdirne bazar, October 22.

119479 to 119535. MEDICAGO SATIVA L. *Alfalfa.*

119479. No. 1847. From 11 km. west of Malatya, July 16.
119480. No. 1859. From the city park, Malatya, July 16.
119481. No. 1886. From 65 km. north of Malatya, July 17.
119482. No. 2106. From near Zara, June 5.

Nos. 119483 and 119484. Collected east of Sivas, August 5.
119483. No. 2108. From 84 km. east.
119484. No. 2122. From 106 km. east.
119485. No. 2203. From 80 km. southeast of Susher, August 7.
119486. No. 2496. From 8 km. southwest of Shebinkarahisar, August 18.
119487. No. 2586. From 8 to 20 km. west of Samsun, August 23.
119488. No. 2614. From Samsun, August 21.

Nos. 119489 and 119490. Collected southwest of Samsun, August 24.
119489. No. 2618. From 54 km. southwest.
119490. No. 2619. From 35 km. southwest.
119491 and 119492. MEDICAGO SATIVA L. *Alfalfa.*

119491. No. 558. From the Isparta bazar, June 2.
119492. No. 616. From the Ismir bazar, June 23.

119493. MEDICAGO ORBICULARIS (L.) All. *Medick.*

No. 673. From near Milas, June 26.

For previous introduction see 107559.

119494 to 119499. MEDICAGO SATIVA L. *Alfalfa.*

119494. No. 1157. From the Balikesir bazar, June 17.
119495. No. 1241. From the Bursa bazar, June 18.
119496. No. 1305. From the Bursa bazar, June 20.
119498. No. 1726. Wild alfalfa from 20 km. southeast of Elaziz, July 13.
119499. No. 1795. From 35 km. southwest of Elaziz, July 14.

119500. MELILLOTUS OFFICINALIS (L.) Lam. *Medick.*

No. 1828. From the Malatya bazar, July 16.

119501 to 119535. MEDICAGO SATIVA L. *Alfalfa.*

119501. No. 1871. From 50 km. north of Malatya, July 17.
119503. No. 1936. From Birejik, July 22.
119505. No. 2206. From the Sivas bazar, August 5.
119506. No. 2249. From the Erzinjan bazar, August 8.
119507. No. 2261. Wild alfalfa, found abundantly between Terjan and Erzerum, August 8.
119508. No. 2272. From 20 to 40 km. east of Erzinjan, August 9.
### JANUARY 1 TO MARCH 31, 1937

119474 to 119586—Continued.

#### 119510. No. 2351. Wild alfalfa from 10 km. north of Gemushane, August 10.

#### 119511. No. 2351. From the Trabzon bazar, August 11.

#### 119512. No. 2453. From Alma Dag, 25 km. southeast of Ankara, August 11.

#### 119513. No. 2502. From 8 km. west of Mesudiye, August 8.

#### 119514. No. 2634. From 20 km. southeast of Amasya, August 25.

#### 119515. No. 2636. From 50 km. southeast.

#### 119516. No. 2665. From 35 km. south of Tokat, August 26.

#### 119517. No. 2698. From the Amasya bazar, August 25.

#### 119518. No. 2722. From Urgup, August 28.

#### 119519. No. 2753. Wild alfalfa from Ulu Dag, 15 km. south of Bursa, September 8.

#### 119520. No. 2978. Wild alfalfa from Ephesus, September 25.

#### 119521. No. 2996. From the Kutahya bazar, September 28.

#### 119522. No. 3018. From a field at Kutahya, September 28.

#### 119523. No. 3069. From the Amasya bazar, October 6.

#### 119524. No. 3070. From Enisalan, October 6.

#### 119525 to 119528. Collected at Erzinjan, October 16.

#### 119525. No. 3215.

#### 119526. No. 3217.

#### 119527. No. 3218.

#### 119528. No. 3219.

#### 119529. No. 3220. From Konya, October 16.

#### 119530. No. 3221. From Kayseri, October 16.

#### 119531. No. 3222. From Erzurum, October 16.

#### 119532. No. 3222. From Erzincan, October 16.

#### 119533. No. 3223. From Yeshilkoy, October 16.

#### 119534. No. 3224. From Mush (Mus), October 16.

#### 119535. No. 3226. From the Edirne bazar, October 22.

119474 to 119586—Continued.

#### 119541 to 119548. SECALE CEREALE L. Poaceae. Rye.


#### 119542. No. 1980. From 106 km. east of Sivas, August 5.


#### 119544. No. 2036. From the Sivas bazar, August 27.

#### 119545. No. 2044. From the Sivas bazar, August 27.

#### 119546. No. 2102. From a field on the slopes of Alma Dag, 25 km. southeast of Ankara, August 1.

#### 119547 to 119586. ZEA MAYS L. Poaceae. Corn.

#### 119547. No. 1245. From the Bursa bazar, June 18.

#### 119548. No. 1389. From the Marash bazar, July 2.

#### 119549. No. 1556. From the Urfa bazar, July 6.


#### 119551. No. 1843. From the Malatya bazar, July 16.

#### 119552. No. 1907. From Diyarbekir, July 8. This type is eaten roasted.

#### 119553. No. 2036. From the Nigde bazar, July 27.

#### 119554. No. 2036. From the Sivas bazar, August 5.

#### 119555. No. 2239. From the Erzinjan bazar, August 8.

#### 119556. No. 2365. From the Trabzon bazar, August 11.

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#### 119558. No. 2365. From the Trabzon bazar, August 11.

#### 119559. No. 2365. From the Trabzon bazar, August 11.

#### 119560. No. 2416. From the Rize bazar, August 13.

#### 119561. No. 2416. From the Rize bazar, August 13.

#### 119562. No. 2429. From a field 50 km. northwest of Suhel, August 18.

#### 119563. No. 2512. From the field near Trabzon, August 14.

#### 119564. No. 2549. From the Samsun bazar, August 21.

#### 119565. No. 2571. From 10 km. west of Charshamba, August 22.

#### 119566. No. 2571. From 10 km. west of Charshamba, August 22.

A collection of hybrid alfalfas.
PLANT MATERIAL INTRODUCED

119571. No. 2751. From the slopes of Ulı Dag, 20 km. south of Bursa, September 7.

119572. No. 2938. From Urfa, obtained at the Izmir Fair, September 22.

119573. No. 2924. From Yalova, September 6.

119574. No. 2927. Popcorn from the Yalova bazar, September 12.


119576. No. 3029. From Eskishehir, September 29.

119577. No. 3067. From the Amasya bazar, October 6.

119578. No. 3101. From the Yozgat bazar, October 9.

119579. No. 3116. From the Inebolu bazar, October 13.


119581. No. 3201. From the Chankiri bazar, October 13.

119582. No. 3230. From the Adapazari bazar, October 20.

119583. No. 3275. From the Adapazari Experiment Station, October 20.

Nos. 119584 and 119585. From the Bdirne bazar, October 22.

119586. No. 3276. Popcorn.

119587. No. 3278.

119588. No. 3374. From the Balikesir bazar, June 6.


119593 to 119705. From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 11, 1937. This material was all collected in the summer and autumn of 1936.

119593 to 119598. AEGILOPS spp. Poaceae.

119599 to 119608. AGROPYRON spp. Poaceae.


119609 to 119610. AGROSTIS CRISTATUM (L.) Gaertn. Created wheatgrass.

119614. No. 2875. Beach grass from 1 km. west of Yalova, September 12.

For previous introduction see 115323.

119615. AGROSTIS ORIENTALE LASIANTHUM Boiss.

For previous introduction see 108846.

119616. AGROSTIS PANORMITANUM Parl.


119617. AGROSTIS SPICA-VENTI L.

An annual grass, usually about 20 inches high, with feathery panicles 4 to 8 inches long. Native to Europe.
For previous introduction see 109222.
119609. No. 1644. From 70 km. south of Diyarbekir, July 9.
119611. AGROSTIS VERTICILLATA Vill.
No. 1548. From 11 km. west of Malatya, July 16.
119612. AGROSTIS sp.
No. 2813. From Yalova Kaplijaları, September 11.
119613. AGROSTIS sp.
No. 2817. From Yalova Kaplijaları, September 11.
119614. ALOPECURUS PRATENSIS L. Poaceae. Meadow foxtail.
No. 617. From Ephesus, May 24.
119615. ANDROPOGON ISCHAEMUM L. Poaceae. Grass.
No. 2561. From 41 km. east of Samsun, August 22.
119616. ANTHOXANTHUM ODORATUM L. Poaceae. Sweet vernal grass.
No. 671. From south of Chine, June 26.
119619 to 119622. ARRHBNANTHERUM ELATIUS (L.) Beauv. Poaceae. Tall oatgrass.
119619. No. 1169. From 10 km. west of Balikesir, June 16.
119620. No. 1288. From 31 km. northeast of Bandirma, June 18.
119621. No. 2080. From Alma Dag, 36 km. southeast of Ankara, August 1.
119622. No. 2192. From 100 km. southeast of Susheri, August 7.
119623 to 119625. BRACHTPODIUM PINNATUM (L.) Beauv. Poaceae. Grass.
119623. No. 2112. From 100 km. east of Sivas as 6,000 feet altitude on rocky soil, August 5.
119624. No. 2192. From 100 km. southeast of Susheri, August 7.
119625. No. 2676. From 39 km. south of Tokat, August 26.
119626. BRIZA MAXIMA L. Poaceae. Big quaking grass.
No. 1190. From 5 km. west of Balikesir, June 16. An annual grass with erect or decumbent culms up to 2 feet high and large showy spikelets. Native to southern Europe.
For previous introduction see 111268.
119627 and 119628. BRIZA HUMILIS Bieb. Poaceae. Quaking grass.
An annual grass with ascending stems about 1 foot high. Native to the Near East.
119627. No. 3405. From 3 km. west of Ankara, June 25.
119593 to 119705—Continued.

119647. No. 2748. From Ulu Dag, 35 km. south of Bursa, August 7. A form with stiff grayish-green leaves; seldom eaten.


119649. **FESTUCA** sp. No. 724. From a lake bottom, 50 km. southeast of Mugla, May 28.

119650. **FESTUCA** sp. No. 2746. From Ulu Dag, 35 km. south of Bursa, September 7.

119651. **FESTUCA** sp. No. 2788. From Ulu Dag, 35 km. south of Bursa, September 9.

119652. **FESTUCA** sp. No. 2832. From Yalova Kaplijalari, September 11.

119653. **GAUDINIA** Poaceae. *PRAGILIS* (L.) Beauv. Grass. No. 1173. From 10 km. west of Balikesir, June 16. An annual ascending crass, up to 2 feet high, with thick, rough-hairy leaves. It is confined almost entirely to the Mediterranean countries. For previous introduction see 111686.


119655 to 119657. **LOLIUM** spp. Poaceae.

119655. **LOLIUM PERENNE** L. Perennial ryegrass. No. 1131. From lowlands south of Kirkagach, June 11.


119657. No. 2578. From 7 km. west of Terme, August 22.

119658. **MELICA CILIATA** L. Poaceae. No. 1168. From 10 km. west of Balikesir, June 16. For previous introduction see 111686.


119660 to 119665. **ORTZOPSIS** spp. Poaceae.

119660 and 119661. **ORTZOPSIS COEULESCENS** (Desf.) Hack. For previous introduction see 117384.

119661. No. 656. From 25 km. southeast of Izmir, June 29.


119662 and 119663. **ORTZOPSIS HOCIFORMIS** (Bieb.) Hack. A perennial grass with a thick short rhizome and stems 3 feet or more high. The panicles are a foot or more long. It is native to southern and southeastern Europe. For previous introduction see 78797.

119663. **ORTZOPSIS MALLIACEA** (L.) Benth. and Hook. For previous introduction see 109536.

119664. No. 2560. From 4 km. east of Samsun, August 22.

119665. No. 2948. From Kemal Pasha, September 23.

119666 to 119670. **PHALARIS** spp. Poaceae. **Grass.**

119666. **PHALARIS BRACHYSTACHYS** Link. No. 1647. An annual grass from 20 km. south of Diyarbekir, July 9.


119668 to 119670. **PHALARIS TUBEROSEA** L. For previous introduction see 111738.

119668. No. 1565. From 30 km. north-east of Urfa, July 7.

119669. No. 1649. Found growing in large clumps 20 km. south of Diyarbekir, July 9.

119670. No. 2907. From 2 km. south of Biga, September 19.

119671 to 119676. **PHLEUM** spp. Poaceae. **Timothy.**

119671 and 119672. **PHLEUM ARENARIUM** L. For previous introduction see 109345.

119671. No. 1641. From 30 km. south of Diyarbekir, July 9.

119672. No. 2284. From 25 km. east of Erzinjan, August 9.

119673. **PHLEUM PRATENSE** L. No. 2578. From 7 km. west of Terme, August 22.

119674 to 119676. **PHLEUM SUBULATUM** (Savi) Aschers. and Graebn. For previous introduction see 109547.

119674. No. 1094. From south of Akhisar, June 11.

119675. No. 1187. From 50 km. west of Balikesir, June 16.

119676. No. 2603. From 3 km. west of Samsun, August 23.

119677 to 119688. **POA** spp. Poaceae. **Grass.**

119677 to 119682. **POA BULBOSA** L. For previous introduction see 109547.

119677. No. 633. From the Izmir district, June 25.

119678. No. 1577. From 30 km. northeast of Urfa, July 7.

119679. No. 1887. From 42 km. north of Malatya, July 17.

119680. No. 20°0. From 45 km. north of Nigde, July 26.

119681. No. 2771. From 6,500 feet altitude on Ulu Dag, 35 km. south of Bursa, September 8.

119682. No. 3308. From 10 km. west of Gaziantep, May 1.
119593 to 119705—Continued.

119683. Poa sp.
No. 1115. From 2 km. south of Kiltepe, June 11.
119684. Poa sp.
No. 1199. From 65 km. west of Balikesir, June 16.
119685. Poa sp.
No. 2068. From Alma Dag, 25 km. southeast of Ankara, August 1.
119686. Poa sp.
No. 2071. From Alma Dag, 25 km. southeast of Ankara, August 1.
119687. PoAsp.
No. 2337. From 55 km. south of Trabzon, August 10.
119688. PoA sp.
No. 2682. From 41 km. south of Tokat, August 26.
No. 1443. From 60 km. north of Gaziantep, July 2. An annual grass with soft bristly green or yellowish spikes up to 6 inches long. A common weed on our Pacific coast. For previous introduction see 109143.
119690 to 119705.

From New Zealand. Seeds presented by Richard Norman, Otago, through Mrs. John Waldron, National Geographic Society, Washington, D. C. Received January 13, 1937.

119593 to 119705—Continued.

No. 806. From 20 km. south of Burdur, June 3.
119702. Stipa sp.
No. 775. From 35 km. west of Isparta, June 2.
119703. Stipa sp.
No. 1068. From the Bergama ruins, June 10.
119704. Stipa sp.
No. 1762. From 40 km. southeast of Elazig, July 15.
119705. Stipa sp.
119706. BRASSICA OLERACEA CAPITATA L. Brassicaceae. Cabbage.
From Kenya Colony, Africa. Seeds and bulbs purchased from the Mount Elgon Nurseries, Kama Kolin, Mount Elgon, Kitale. Received January 11, 1937.

119707. CLERODENDRUM MYRICOIDES R. Br. Verbenaceae.
A tender erect evergreen shrub 3 to 5 feet high, with 2- to 4-lobed oblong leaves 2 to 6 inches long and small bicolored blue and white flowers in short terminal panicles. Native to tropical Africa.

119708. AMMOCARIS HETEROOSTYLA (Bullock) Mil.-Redh. and Schw. Amaryllidaceae.
Bulbs of an amaryllid with glaucous green, strap-shaped, spreading leaves about 10 inches long and up to 18 erect, mildly fragrant flowers in an umbel; the narrow segments are 2 to 3 inches long. The fresh flowers are creamy white with a pinkish tube; as they age, usually in 2 or 3 days, they become dull rose over all. Native to South Africa.

119709 to 119804.

From Buenos Aires, Argentina. Seeds and bulbs collected by W. A. Archer, Bureau of Plant Industry. Received January 4, 1937.
Collected in markets and seed stores in Buenos Aires, November 25 to 27, 1936, and, unless otherwise stated, received as seeds.
119709 to 119720.

ALLIUM CEPA L. Liliaceae. Onion.
119709. No. 4538. Colorado de Madeira.
119710. No. 4539. Oignon Jaune de Danvers.
119712. No. 4541. Amarilla de Trebéon.
119709 to 119804—Continued.

119716. No. 4545. Colorada Viva de APOSTO.
119717. No. 4546. Amarilla Chata de Furtis.
119720. No. 4501. Amarilla Chata Inversa.
119721 and 119722. BRASSICA OLERACEA CAPITATA L. Brassicaceae. Cabbage.
119722. No. 4505. Col Negro Romano.
Native seed.

119723. TARA SPINOSA (Molina) Britton and Rose {Caesalpinia pectinata Cav.}. Caesalpiniaceae.
119723. No. 4559. Tara. A tall upright spiny shrub or small tree, often used as a hedge. in Peru. The foliage is deep green with the leaflets smooth and polished on the upper surface. The greenish-yellow flowers, in cylindrical open spikes, are not very conspicuous, but the pods are produced in large clusters and the exposed surfaces show bright scarlet for a long time before maturing. The pods contain a high percentage of tannin. For previous introduction see 64915.

119724. CICER ARBITINUM L. Fabaceae, Chickpea.

119725. No. 4508. Radichota Fina do Cortar.
Native seed.

119726 to 119735. CLTRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.
119726. No. 4494. Florida Favorita.
Native seed.
119732. No. 4514. A mixed sample. 
119733. No. 4531. De Cremona. 
119734. No. 4532. Larga de Valencia. 
119735. No. 4533. Colorada Redonda. 
119736 to 119738. CUCUMIS MELO L. Cucurbitaceae. Cucumber.
119736. No. 4491. Cantaloup de Argel. 
119737. No. 4492. Campedn del Mercado. 
119738. No. 4493. Asucarado de Tours. 
119741. No. 4517. Valenciano l o n g o , Carne Amarillo. 

119743. No. 4518. Malta de Invierno, Carne Colorado. 
119746. No. 4521. Redondo Esritso. 
119747. No. 4522. Vaucuse é CavailIon. 
119749. No. 4535. Campéon del Mercado. 
119750. No. 4536. Asucarado de Tours. 
119752. No. 4562. A cultivated melon. 
119753. No. 4563. A cultivated melon. 
119754 and 119755. CUCUMIS SATIVA L. Cucurbitaceae. 
119755. No. 4497. Chico de Rusa.

119756 to 119768. CUCURBITA spp. Cucurbitaceae. Squash.
119756 to 119758. CUCURBITA MAXIMA Duchesne. Cucurbitaceae. 
119756. No. 4496. Zapallito Redondo de Tronco. A variety common in the market; it is filled with meats, etc., for roasting.
119758. No. 4503. Esplaoi Chato. 
119759. No. 4504. Zapallito Redondo de Tronco. The same as No. 4496 (E. I. 119756).
119760. No. 4527. Courge Sucrètre de Brésil. 
119762 to 119764. CUCURBITA MOSCHATA Duchesne. Cucurbitaceae. 
119762. No. 4566. From the Province of Salta. 
119763. No. 4565. A form with curved fruits.
119764. No. 4483. A cultivated pumpkin.
119765 to 119766. CUCURBITA PEPO L. Cucurbitaceae. 
119765. No. 4526. Courge a la Moelle. 


119709 to 119804—Continued.

No. 4481. A cultivated sunflower.


119775. PINUS sp. Fabaceae. No. 4558.


119785 to 119786. PHASEOLUS COCCINEUS L. Scarlet runner bean. No. 4468. No. 4471.

119787. PHASEOLUS LUNATUS L. Lima bean. No. 4469. Chauca. Used as food, also as stock feed.

119788 to 119792. PHASEOLUS VULGARIS L. Common bean. No. 4470. No. 4471.

119793 to 119796. PISUM SATIVUM L. Fabaceae. No. 4475. Damasco. Fruit small, about 1 inch in diameter.


119804. ZEPHYRANTHES sp. No. 4554. Bulbs, native to Puerto Berthoni, Argentina. A variety with yellow flowers.

119805 to 119809. XANTHOSOMA spp. Araceae. From Puerto Rico. Tubers presented by Atherton Lee, Puerto Rico Federal Experiment Station, Mayaguez. Received January 27, 1937.

119806. XANTHOSOMA CARACU Koch and Bouché. Yautia. A yautia remarkable for the large and uniform size of its tubers. For previous introduction see 98519.

119807. XANTHOSOMA SAGITTAELOLUM (L.) Schott. Yautia. A white-fleshed yautia of very good quality. For previous introduction see 51388.

119808. XANTHOSOMA sp. No. 4560. Maiz Vestido.

119809. XANTHOSOMA sp. No. 4561-A. Maiz Arco Iris.

119810 to 119815. ARACHIS HYPOGAEA L. Fabaceae. Peanut. Nos. 119810 to 119813 were from Posadas, Argentina, December 5, 1936. Cultivated peanuts.


119816 and 119817. CUCUMIS MELO L. Cucurbitaceae. Cultivated melons from Posadas, Argentina, December 5, 1936.
119810 to 119823—Continued.

No. 4435-A. From Santa Anna, Brazil, November 13, 1936. A plant commonly found in this region growing in muck or in moist sand. Flower stalk 2 to 3 feet long, with bulbous base, bearing 5 or 6 flowers. Petals orange-red with green markings at base.

119819. *Citrullus vulgaris*  
No. 4604. Esponja enredadera. From a shop in Posadas, Argentina, December 5, 1936. A plant commonly found in this region growing in muck or in moist sand. Flower stalk 2 to 3 feet long, with bulbous base, bearing 5 or 6 flowers. Petals orange-red with green markings at base.

119824. *Cucurbita pepo*  

119825. *Nicotiana tabacum*  

119826. *Nicotiana tabacum*  

119827. *Cucumis melo*  
No. 4614. On the road between Posadas and Boquínland, Argentina, December 8, 1936. A slender, strong-growing vine, native to Brazil, with leaves divided into 5 to 7 lanceolate segments and fragrant greenish-white flowers 4 inches across. The rays of the crown are blue at the tip, white in the middle, and purple at the base, while the styles are light purple. The orange-colored fruits are 2 inches long and 1/2 inches in diameter. The edible pulp is red.

For previous introduction see 79175.

119824 to 119834—Continued.

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry. Received January 15, 1937.

No. 4614. On the road between Posadas and Boquínland, Misiones, Argentina, December 8, 1936. A slender, strong-growing vine, native to Brazil, with leaves divided into 5 to 7 lanceolate segments and fragrant greenish-white flowers 4 inches across. The rays of the crown are blue at the tip, white in the middle, and purple at the base, while the styles are light purple. The orange-colored fruits are 2 inches long and 1/2 inches in diameter. The edible pulp is red.

For previous introduction see 79175.

No. 1825. From Saharanpur, United Provinces.  

119830. *Ixora coccinea* L. Rubiaceae. Scarlet ixora.  
No. 1825. From Saharanpur, United Provinces.  

119831. *Kigelia pinnata* (Jacq.) DC. Bignoniaceae.  
No. 1831. The “sausage tree” of eastern tropical Africa; becomes 30 to 50 feet high, with rough ternate leaves made up of 7 to 9 elliptic-oblong leaflets and large claret-colored flowers in long spikes, followed by sausage-like fruits 12 to 18 inches long.

For previous introduction see 106507.

No. 1832. *Sarak*. From Lahore, Punjab, November 29, 1936. Fruits 1 1/2 to 2 inches in diameter, red and yellow; flesh sweet, nonastringent, of agreeable flavor.

From Saharanpur, United Provinces. A medium-sized Indian tree with pinnately compound leaves of 6 to 12 oblong leathery leaflets 6 to 12 inches long and fragrant orange-red flowers in compact panicles.

For previous introduction see 98093.

No. 1823. From the Government Gardens, Saharanpur, United Provinces, December 1, 1936. An evergreen shrub 4 feet high, with heads of lovely scarlet flowers, followed by crimson berries.

119835 to 119866.  
From the Union of Soviet Socialist Republics. Plants presented by Dr. N. I. Sharapov, Institute of Plant Industry, Leningrad. Received January 25, 1937.

No. 1674.

119836 to 119840. *Amygdalus persica* L. Peach.  
No. 224. Khidiatovsky.
119835 to 119866—Continued.


119838. No. 0647. Shapitaly.


119840. No. 0195. Turnip-shaped.

119841 to 119843. AMYGDALUS PERSICA L. Peach.

Variety Ferganensis.

119842. No. 849. A white-fleshed form.

119843. No. 0439. An early yellow form.

119844. AMYGDALUS PERSICA NECTARINA Ait. Nectarine.

119845 and 119846. AMYGDALUS PERSICA PLATYCARPA (Decaisne) Ricker. Flat peach.

119847 to 119866. PRUNUS spp. Amygdalaceae.

119847 to 119857. PRUNUS ARMENIACA L. Apricot.

119848. No. 210-T.

119849. No. 7070. Shirpaivan.


119851. No. 1770. Uimautsky.

119852. No. 0416. Tadj-Eai.


119854. No. 1163. Smrassky. From Transcaucasia.


119857. No. 1189. Mwsandjhali.

119858. PRUNUS MANDSHURICA (Maxim.) Koehne.

No. 1720. A small Manchurian tree up to 15 feet high, with spreading branches, ovate acuminate leaves, solitary pinkish flowers an inch or more across, and yellow subglobose fruits an inch in diameter.

For previous introduction see 76743.

119859 to 119865. PRUNUS ARMENIACA L. Apricot.

119859. No. 210-T.

119860. No. 1070. Shirpaivan.

119861. No. 1770. Uimautsky.

119862. No. 0416. Tadj-Eai.


119864. No. 1163. Smrassky. From Transcaucasia.


119868. No. 1720. A small Manchurian tree up to 15 feet high, with spreading branches, ovate acuminate leaves, solitary pinkish flowers an inch or more across, and yellow subglobose fruits an inch in diameter.

For previous introduction see 76743.

119869. SOLANUM spp. Solanaceae.

From Paraguay. Tubers collected by W. A. Archer, Bureau of Plant Industry. Received January 27, 1937.

No. 4662. Papa silvestre. From San Miguel Curuzú, 3 km. north of Villa Encarnación, December 14, 1936.


119871. Cold leaf Orinoco.


119873. Madole tabaco.

119874. Maryland broadleaf.

119875. Rustico Peruano, originally from the Hacienda Chumbenique.

119875 to 119889. From Paraguay. Seeds and plants collected by W. A. Archer, Bureau of Plant Industry. Received January 27, 1937.


No. 4771. Abacachi del pais. Plants from San Lorenzo, December 24, 1936. Said to have originated in Brazil, but cultivated in Paraguay for over a century. Fruit small, about 6 inches in diameter, and 8 to 9 inches long; flesh white, very sweet and juicy; core very small, eyes do not extend into meat. The fruit here is eaten with a spoon, by merely cutting off one end.

119878 to 119881. ARACHIS spp. Fabaceae. Peanut.

119878. ARACHIS MARGINATA Gardn. No. 4655. From San Miguel Curuzú, 3 km. north of Villa Encarnación, December 14, 1936. A perennial species, native to Brazil.

119879 to 119881. ARACHIS HYPOGAEA L. Mixed varieties of cultivated peanuts; integuments, white, red, and black. Purchased in the market at Villa Rica, December 17, 1936.

119881. No. 4707. Rustico Peruano, originally from the Hacienda Chumbenique.

119882 to 119889. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

For previous introduction see 117678.
PLANT MATERIAL INTRODUCED

119875 to 119889—Continued.

Nos. 119883 and 119884. From Jatātu, 8 km. north of Villa Rica, December 16, 1936.


Nos. 119885 to 119889. From San Lorenzo, December 25, 1936. Cultivated tobacco.


119887. No. 4764. Para pagar su cuenta.

119888. No. 4765. Mixed varieties; probably includes one that has anise odor.


119890 to 119910.

From India. Seeds collected by Walter Koels, Bureau of Plant Industry. Received January 8, 1937.

119890. ACACIA NILOTICA (L.) Wild, Mimosaceae.

No. 1805. Kikas. From Lahore, Punjab, November 28, 1936. A handsome tree, found in both dry and wet situations, which provides a dense shade.

119891. ALLIUM CEPA L. Liliaceae. Onion.


119893. BRASSICA OLERACEA BOTRYTIS L. Brassicaceae. Cauliflower.

No. 1822. Phuljob. Purchased in Saharanpur, United Provinces, December 1, 1936. Said to be Waterchon, a German variety that thrives here, producing large white heads.


Miro. From Saharanpur, United Provinces. December 1, 1936.

119894. No. 1818. Very pungent orange fruit 2½ inches wide and 1¾ inches long. Said to have come from Patrala.

119895. No. 1819. Moderately pungent, red, top-shaped fruit, 1¾ inches high. Said to have come from the Punjab.


No. 1800. Tarhuz. From Lahore, Punjab, November 28, 1936, said to have come from Quetta. Fruit elongate, 1 foot long, very pale green with blotched strip of darker green. The light part is apt to have pale-green tubercles. Rind hard; flesh very sweet and of good quality. Apparently a good keeper.


No. 1798. Sarkanda, kamma. From Pathankot, Punjab, November 22, 1936. An ornamental grass 15 feet high, found growing in clumps; used here for thatching.

For previous introduction see 109496.

119890 to 119910—Continued.

119898. MALUS sp. Malaceae.

No. 1803. Sacra. From Lahore, Punjab, November 28, 1936. A sweet yellow crab, with a red cheek, 1½ inches in diameter.

119899. MEDICAGO SATIVA L. Fabaceae. Alfalfa.

No. 1806. Senye: Clara. From Lahore, Punjab, November 28, 1938. Said to be a variety that grows from 8 to 10 years.

119900 to 119905. ORYZA SATIVA L. Poaceae. Rice.

Nos. 119900 to 119902 were from Lahore, Punjab, November 28 and 29, 1936.


119902. No. 1811. Begami. A second-class table rice which yields 1,600 to 2,000 pounds per acre. Said to mature in 110 to 120 days.

Nos. 119903 to 119905 were from Kala Shah Kaku, Punjab, November 29, 1936.

119903. No. 1812. Basmati. This form originated in Gujaravala District in 1927. Superior to local basmati. Matures in 110 to 112 days; yields 2,000 to 2,240 pounds per acre. Considered the best table rice in Punjab; remarkably white and fragrant.

119904. No. 1813. Masik khanji. A strain, developed by the Government rice specialists, that matures in 100 to 107 days, and yields 2,000 to 2,200 pounds per acre. Grain fine, white, fragrant. Used as an adulterant for basmati, a superior rice.

119905. No. 1814. Palman sufed 246. A strain, developed by the Government rice specialists, that matures in 90 to 95 days, yielding 2,240 to 2,560 pounds per acre. Used to adulterate basmati, a superior rice.

119906. PUNICA GRANATUM L. Punicaeae. Pomegranate.

No. 1796. Anam. From Lahore, Punjab, November 20, 1936, but said to have come from Afghanistan. A deep-crimson fruit the size of a large orange with an abundance of very agreeable crimson juice.

119907. SALIX sp. Salicaceae.

No. 1826. From Saharanpur, United Provinces. December 1, 1936. An attractive sturdy tree with shiny elliptical leaves 3½ to 4 inches long; found growing along canal banks; blooms in the fall.

119908 and 119909. SPINACIA OLERACEA L. Chenopodiaceae. Common spinach.


119909. No. 1828. Purchased at Saharanpur, United Provinces, December 1, 1936. Said to be from seeds imported from France and to be a large round-leaved type with prickly leaves.

From Argentina. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received January 15, 1937.

119911. **ARACHIS HYPOGAEA** L. Fabaceae. Peanut.

No. 4634. From Posadas, Misiones, December 12, 1936. A cultivated peanut.


No. 4618. From near Bonpland, Misiones, December 9, 1936. A prostrate herb with spreading leaves, 3 to 6 inches long, pinnately veined from a prominent deliquescent midrib. Native to tropical Africa.

119913. **CUCUMIS MELO** L. Cucurbitaceae.

No. 4793. From Posadas, Misiones, December 12, 1936. Flow- ers yellow; fruit faintly striped. Fruit is about an inch long, are borne in many-flowered, pendulous clusters.

119914. **CUCUMIS sp.** Cucurbitaceae.

No. 4794. From near Bonpland, Misiones, December 7, 1936. A prostrate herb with pendulous clusters. Twining, ornamental plants, native to the Andes as far south as Peru. The thin spreading leaves are 3 to 6 inches long, and the orange-red to red flowers, about an inch long, are borne in many-flowered, pendulous clusters.

For previous introduction see 101216.


No. 4608. From the streets of Posadas, Misiones, December 7, 1936. Plants 2 to 3 feet high, producing a basal rosette of le- aves in young stage; flowers pale greenish outside, white within or sometimes lavender tinged.

119916. **VERBENA LACINIATA** (L.) Brlg. Verbenaceae.


119917. **VERBENA PLATENSIS** Spreng. Verbenaceae.

No. 4625. Along the road between Posadas and Candelaria, Misiones, December 10, 1936. A shrubby verbena with lax spikes of fragrant crimson flowers.


From India. Seeds presented by the Imperial Institute of Agricultural Research, Botanical Sub-Station, Pusa. Received January 22, 1937.

119920 to 119931—Continued.

From Argentina. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received January 15, 1937.

119920 to 119924. **ARACHIS HYPOGAEA** L. Fabaceae. Peanut.


No. 4772. **Sorgo azucarado**. Seed secured from Carandaity, Chaco, and presented by the Jardin Botanico, Santissima, Trinidad, near Asuncion, December 24, 1936.

119929 and 119930. **ZEA MAYS** L. Poaceae. Corn.

Purchased in the market at Villa Rica, December 17, 1936.

119929. No. 4708.

119930. No. 4709.

119931. **ZEPHYRANTHES sp.** Amaryllidaceae.

No. 4756. Bulbs of a native Paraguayan plant with white flowers.

119932 to 119935. From Cuba. Seeds presented by F. G. Wallingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received February 1, 1937.

119932. No. 4795. 119933. No. 4796.

119936 to 119938. From near Bonpland, Misiones, December 9, 1936. A good pasture grass, used as erosion control by farmers in this region; resists freezing.

119933. No. 4797.

119934. No. 4798.


119936. No. 4700.

119937. No. 4701.

119938. No. 4702.


For previous introduction see 101216.

119936. **CROTALARIA sp.** Fabaceae.

From Cuba. Seeds presented by F. G. Wallingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received February 1, 1937.

119937. **BAURINIA MACRANTHA** Oliver. Caesalpiniaceae.

From the Horticultural Section, Ministry of Agriculture, Cairo, Egypt. A pubescent shrub 4 to 5 feet high, with thin leathery compound leaves and very large flowers, 2 or 3 together, on short terminal peduncles; the obovate petals are over 2 inches long, pinnately veined from a prominent deltoid-ascendent midrib. Native to tropical Africa.

For previous introduction see 48236.


From the Botanic Garden, Rio de Janeiro, Brazil. A tree about 50 feet high, with digitate leaves and large showy yellow flowers. Native to Brazil.
PLANT MATERIAL INTRODUCED

119939 to 120029.

From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 9, 1937.

This material was all collected in the spring and summer of 1936.

119939. LATHYRUS GORGONI Parl. Fabaceae.

No. 1341. From Adana, June 10.


119940. Vicia lathyroides L.

No. 608. From east of Milas in open pine forest, May 27. An annual vetch, native to Europe.

119941. Vicia monanthos (L.) Desf.

No. 699. From open pine woods east of Milas, May 27.

119942. Vicia lathyroides L.

No. 701. From 30 km. east of Milas, May 27.

119943. Vicia sativa L. Common vetch.

No. 705. From 35 km. east of Milas, May 27.

119944. Vicia LATHYROIDES L.

No. 736. From 45 km. southeast of Mugla, May 28.


No. 781. From 40 km. west of Isparta, June 2.

119946. Vicia lathyroides L.

No. 1062. From 20 km. west of Soma, June 10.

119947. Vicia peregrina L.

No. 1065. From 15 km. east of Bergama, June 10.

119948. LATHYRUS sp. Fabaceae.

No. 824. From along the road between Isparta and Antalya, June 8.


No. 1068. From 20 km. west of Soma, June 10.


No. 1099. From 35 km. west of Isparta, June 2.

119951. Vicia peregrina L.

No. 1125. From 2 km. south of Kirksgach, June 11.

119952. Vicia serratifolia integrifolia Beck.

No. 1197. From 30 km. west of Balkesir, June 10.


119954. Vicia monanthos (L.) Desf.

No. 1197. From 30 km. west of Balkesir, June 10.

119955. Vicia lathyroides L.

No. 1307-A. From 20 km. east of Bursa.


No. 1331. From Adana, June 10. A form with yellow flowers.


No. 1382. From Adana, June 10. A form with attractive white and yellow flowers.

119958. LATHYRUS sp. Fabaceae. Pea.

No. 1351. From Adana, June 10.

119959. LATHYRUS sp. Fabaceae. Pea.

No. 1427. From 37 km. north of Gaziantep, July 2.


No. 1440. From 37 km. north of Gaziantep, July 2.


No. 1442. From 20 km. north of Gaziantep, July 2.

119962. LATHYRUS sp. Fabaceae. Pea.

No. 1466. From 37 km. north of Gaziantep, July 2.


No. 1468. From 30 km. southeast of Marash, July 2.

119964. LATHYRUS ERECTUS L. Fabaceae. Pea.

No. 1473. From 37 km. north of Gaziantep, July 3.

119965. LATHYRUS sp. Fabaceae. Pea.

No. 1474. From 37 km. north of Gaziantep, July 3.


No. 1476. From 37 km. north of Gaziantep, July 3.

119967 to 119969. LATHYRUS spp. Fabaceae. Pea.

119967. LATHYRUS sp.

No. 1593. From 35 km. west of Diyarbekir, July 7.

119968. LATHYRUS sp.

No. 1594. From 50 km. west of Diyarbekir, July 7.

119969. LATHYRUS ERECTUS L. Fabaceae.

No. 1709. From 35 km. southwest of Elaziz, July 14.


No. 1952. From Birejik, July 22.


119972 to 119974. LATHYRUS spp. Fabaceae. Pea.
119939 to 120029—Continued.

119972. LATHYRUS GORGONI Parl.

119973. LATHYRUS sp.
No. 2068. From Alma Dag, 25 km. southeast of Ankara, August 1.

119974. LATHYRUS ERECTUS Lags.
No. 2081. From Alma Dag, 25 km. southeast of Ankara, August 1.

No. 2858. From Yalova Kaplijalari, September 12.

119976. LATHYRUS sp. Fabaceae. Pea.
No. 3342. From the Bergama ruins, June 10.

No. 1307. From 20 km. east of Bursa, June 19.

119978. Ononis sp. Fabaceae.
No. 1129. From Bergama, June 10.

119979 to 120029—Continued.

119991. Vicia tetrasperma (L.) Moench.
No. 1198. From 70 km. west of Balikesir, June 16.

119992. Vicia serratifolia integrifolia Beck.
No. 1204. From 30 km. west of Balikesir, June 16.

119993. Vicia hispiga (L.) S. F. Gray.
No. 1308. From 40 km. east of Bursa, June 19.

119994. Vicia sativa L. Common vetch.
No. 1325. From Adana, June 10.

119995. Vicia serratifolia integrifolia Beck.
No. 1340. From Adana, June 10.

119996. Vicia sativa L. Common vetch.
No. 1346. From Adana, June 10.

119997. Vicia sp.
No. 1404. From Gaziantep, July 2.

119998. Vicia sp.
No. 1422. From 37 km. north of Gaziantep, July 2.

119999. Vicia sp.
No. 1457. From 30 km. southeast of Marsh, July 2.

120000. Vicia sp.
No. 1685. From the Elaziz bazar, July 13.

120001. Vicia Faba L. Broadbean.
No. 1938. From Birejik, July 22.

120002. Vicia sativa L. Common vetch.

120003. Vicia sativa L. Common vetch.

120004. Vicia sp.

120005. Vicia sp.
No. 2014. From 20 km. north of Nigde, July 26.

120006. Vicia sp.
No. 2070. From Alma Dag, 25 km. southeast of Ankara, August 1.

120007. Vicia sp.
No. 2107. From 84 km. east of Sivas, August 5.

120008. Vicia sp.
No. 2109. From 84 km. east of Sivas, August 5.

120011. Vicia sp.
No. 2169. From 100 km. northeast of Sivas, August 1.
120012. Vicia Serratifolia integrifolia Beck.
No. 2171. From 100 km. northeast of Sivas, August 6.

120013. Vicia Faba L. Broadbean.
No. 2241. From the Erzinjan bazar, August 8.

120014. Vicia sp.
No. 2268. From 136 km. east of Erzinjan, August 9.

120015. Vicia sp.
No. 2283. From 114 km. east of Erzinjan, August 9.

120016. Vicia Faba L. Broadbean.
No. 2342. From the Trabzon bazar, August 11.

120017. Vicia sp.
No. 2383. From 35 km. north of Gemushane on wooded mountain slopes, August 10.

120018. Vicia sp.
No. 2388. From 16 km. east of Trabzon, August 12.

120019. Vicia sp.
No. 2432. From 10 km. east of Ordu, August 19.

120020. Vicia sp.
No. 2493. From 8 km. southwest of Shebinkarahlsar, August 18.

120021. Vicia Angustifolia Grufberg.
No. 2572. From 7 km. west of Terme, August 22.

120022. Vicia sp.
No. 2585. From 20 km. west of Samsun, August 23.

120023. Vicia Serratifolia integrifolia Beck.
No. 2585–A. From 20 km. west of Samsun, August 23.

No. 2611. From a barley field 20 km. west of Samsun, August 23.

120025. Vicia Serratifolia integrifolia Beck.
No. 2675. From 10 km. south of Tokat, August 26.

120026. Vicia sp.
No. 3345. From Ephesus, June 12.

120027. Lens esculenta Moench. Faba-ceae.
No. 3421. From dry rocky soil 3 km. northeast of Ankara, June 26.

120028. Vicia sp. Fabaceae.
No. 3426. From Alma Dag, 25 km. southeast of Ankara, June 28.

No. 3482. From the Sivas bazar, August 5.

120030. Myrica sp. Myricaceae.
From Paraguay. Plant collected by W. A. Archer, Bureau of Plant Industry. Received February 13, 1937.

120031 and 120032.
From the Canal Zone. Seeds presented by W. R. Lindsay, Canal Zone Experiment Gardens, Summit. Received February 8, 1937.

120031. Legythis elliptica Kunth. Legythidaceae.
A spreading shrub or tree up to 40 feet high, with thick elliptic leaves about 6 inches long and racemes of large reddish flowers. Native to Colombia.

120032. Phyllanthus emblica L. Euphorbiaceae.
Nelli. A dense spreading tree with linear leaves about half an inch long; the globose fruits, when green, are rich in tannin; when ripe they are cooked to make an acid sauce. Native to tropical Asia.

For previous introduction see 116531.

120033 to 120250.
From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 7, 1937.

This material was all collected in the spring and autumn of 1936.

120033. Arctedia squamata L. Apiaceae.
No. 1347. From Adana, June 10.

120034. Medicago hispida Gaertn.
No. 1333. From the mountains between Manisa and Ismir, June 11.

120035. Medicago Tuberculata (Retz.) Wild.
No. 1326. From Adana, June 10.

120036 to 120042. Medicago hispida Gaertn.
120036. No. 1333. From Adana, June 10.
120037. No. 1339. From Adana, June 10.
120038. No. 1601. From 2 km. east of Siverek, July 7.
120039. No. 1669. From 16 km. east of D Diyarbekir, July 10.
120040. No. 1794. From 5 km. southwest of Elaziz, July 14.
120041. No. 1904. From 44 km. south of Malatya, July 17.

120043 and 120044. Medicago scutellata (L.) Mill. Snail medick.
120043. No. 761. From Denizli, June 12.
120044. No. 1323. From Adana, June 10.

120045. Medicago sp.
No. 1355. From Adana, June 10.
120033 to 120250—Continued.

120046 to 120048. MELILOTUS ALBA Desr. White sweetclover.

120046. No. 2266. From 73 km. east of Erzinjan, August 9.

120047. No. 2584. From 28 km. west of Samsun, August 23.

120048. No. 2860. From Yalova Kapljalari, September 12.

120049 to 120055. MELILOTUS INDICA (L.) All.


120052. No. 1337. From Adana, June 10.


120054. No. 1114. From Kirkagach, June 11.

120055. No. 1088. From 40 km. northwest of Izmir, June 10.

120056 to 120059. MELILOTUS OFFICINALIS (L.) Lam.


120059. No. 1853. From 23 km. west of Malatya, July 16.

120060. MELILOTUS sp. No. 767. From 2 km. north of Denizli, May 31.

120061. MELILOTUS sp. No. 1164. From 30 km. west of Balikesir, June 16.

120062. MELILOTUS sp. No. 1165. From 30 km. west of Balikesir, June 16.

120063 to 120069. TRIFOLIUM spp. Fabaceae. Clover.

120063. From 2 km. north of Denizli, May 31.

120064. No. 1189. From 30 km. west of Balikesir, June 16. A clover with large purplish flowers.

120065. No. 1212. From 30 km. west of Balikesir, June 16. This clover grows abundantly on dry plains and hills of western Turkey.

120066. No. 1328. From Adana, June 10.

120067. No. 1423. From 40 km. north of Gaziantep, July 2.

120068. No. 1934. From Birejik, July 22.

120069. No. 2912. From 50 km. east of Chanak Kale, September 19.

120070. No. 1517. From 25 km. northwest of Urfa, July 5.


120072. No. 700. From 30 km. east of Milas, May 27; a yellow-flowered clover.

120073. No. 1127. From 40 km. west of Izmir, June 10.

120074. No. 2679. From 46 km. south of Tokat, August 26.

120075. No. 2770. A pink-flowered clover from Ulu Dag, 6,500 feet altitude, 35 km. south of Bursa, September 8.

120076. No. 2829. From Yalova Kapljalari, September 11.

120077. No. 1946. From Birejik, July 22.

120078. No. 2120. From 84 km. east of Sivas, August 5.

120079. No. 2205. From 100 km. southeast of Sishem, August 7.

120080. No. 2282. From 94 km. east of Erzinjan, August 9.

120081. No. 2324. From 35 km. north of Gemushane, August 10.

120082. No. 2332. A white-flowered form common in the mountains between Gemushane and Trabzon, August 10.


120084. No. 2489. From 66 km. south of Giresun, August 17.
PLANT MATERIAL INTRODUCED

120033 to 120250—Continued.

120095. No. 2556. From 51 km. east of Samsun, August 22.
120096. No. 2598. From 31 km. west of Samsun, August 23.
120097. No. 2837. From Yalova Kapılıjarı, September 11.
120098. No. 2859. From Yalova Kapılıjarı, September 12.
120099. No. 2426. From 75 km. south of Giresun.
120100 to 120119.

TRIFOLIUM REPENS L.
White clover.
120102. No. 1411. From 50 km. north of Gaziantep, July 2.
120103. No. 1576. A variety with small white flowers from between Siverek and Diyarbekir, July 7.
120104. No. 1640. From 70 km. south of Diyarbekir, July 9.
120105. No. 1757. From 30 km. south-east of Elaziz, July 13.
120106. No. 1856. From 23 km. west of Malatya, July 16.
120107. No. 1862. From 11 km. west of Malatya, July 16.
120109. No. 2121. From 100 km. east of Sivas at 6,000 feet altitude, August 5.
120110. No. 2321. From 35 km. north of Gemushane, August 10.
120111. No. 2340. From meadows 70 km. south of Trabzon, August 10.
120112. No. 2341. A very large type found 60 km. south of Trabzon, August 10.
120113. No. 2428. From 86 km. south of Giresun, August 17.
120114. No. 2593. From 31 km. west of Samsun, August 23.
120115. No. 2727. A strain with large white flowers, from Ulu Dag at 6,500 feet altitude, 35 km. south of Bursa, August 8.
120116. No. 2810. From Yalova Kapılıjarı, August 11.
120117. No. 3391. A strain with very small pink flowers from Ankara, June 28.
120119. No. 798. From Dinar, 25 km. north of Antalya, June 3. A small-flowered type, very abundant in the wet meadows in this region.
120120. TRIFOLIUM sp.

No. 816. From 25 km. east of Antalya, June 4. A small-flowered white clover, found in wet places. The main stems are coarse and 3 feet long.

Nos. 120127 to 120134. Collected between 30 and 40 km. east of Milas, May 27.

TRIFOLIUM HIRUTUM All.

120127. TRIFOLIUM sp.
No. 694.
120128. TRIFOLIUM sp.
No. 697. A very small strain.
120129. TRIFOLIUM LAPPAEUM L.
No. 702. From between Kulluk and Milas.
120130. TRIFOLIUM HIRUTUM All.
No. 704.
120131. TRIFOLIUM sp.
No. 712.
120132. TRIFOLIUM sp.
No. 713. From open pine wood.
120133. TRIFOLIUM sp.
No. 707. A strain with small flowers.
120134. TRIFOLIUM sp.
No. 710.
120135. TRIFOLIUM sp.
No. 731. From the mountains 30 km. southeast of Mugla, May 28.
120136 to 120138. TRIFOLIUM HIRUTUM All.
120136. No. 746. From 10 km. south of Denizli, May 30.
120137. No. 794. From 25 km. north of Antalya, June 3.
120138. No. 807. From 46 km. north of Antalya, June 3.
120139. TRIFOLIUM sp.
No. 818. Found on dry gravelly soil, 20 km. east of Antalya, June 4.
120140. TRIFOLIUM LAPPAEUM L.
No. 1063. From 40 km. northwest of Izmir, June 10.
Nos. 120141 and 120142 were from Ephesus, June 12.
120141. TRIFOLIUM sp.
No. 1136.
120142. TRIFOLIUM sp.
No. 1139.
Nos. 120143 to 120147. Collected between 30 and 65 km. west of Balikesir, June 16.
120033 to 120250—Continued.
120143. TRIFOLIUM sp.
   No. 1174.
120144. TRIFOLIUM HIRTUM All.
   No. 1177. A wild red clover.
120145. TRIFOLIUM sp.
   No. 1178.
120146. TRIFOLIUM HIRTUM All.
   No. 1192.
120147. TRIFOLIUM sp.
   No. 1211. A form with white flowers.
120148. TRIFOLIUM sp.
   No. 1299. From 50 km. west of Bursa, 
   June 18.
120149. TRIFOLIUM sp.
   No. 1303. From 20 km. east of Bursa, 
   June 19. A form with bright-pink 
   flowers.
120150. TRIFOLIUM PRATENSE L.
   Red clover.
   No. 1305. From 20 km. west of Megol, 
   June 19. A form with large white 
   flowers.
120151. TRIFOLIUM PURPUREUM Lois.
   No. 1306. Found abundantly between 
   Izmir, Bergama, and Soma, June 10. 
   Nos. 120152 to 120155 were from 
   Adana, June 10.
120152. TRIFOLIUM sp.
   No. 1322. A white clover.
120153. TRIFOLIUM sp.
   No. 1338.
120154. TRIFOLIUM sp.
   No. 1343.
120155. TRIFOLIUM sp.
   No. 1349. 
   Nos. 120156 to 120173. Collected be-
   tween 30 and 40 km. north of Gaziantep, 
   July 2.
120156. TRIFOLIUM HIRTUM All.
   No. 1409.
120157. TRIFOLIUM sp.
   No. 1410.
120158. TRIFOLIUM PURPUREUM Lois.
   No. 1412.
120159. TRIFOLIUM sp.
   No. 1416. A Persian clover found in 
   a valley.
120160. TRIFOLIUM sp.
   No. 1417. Persian clover.
120161. TRIFOLIUM sp.
   No. 1419.
120162. TRIFOLIUM sp.
   No. 1421.
120163. TRIFOLIUM sp.
   No. 1424.
120164. TRIFOLIUM sp.
   No. 1428.
120165. TRIFOLIUM sp.
   No. 1429.
120166. TRIFOLIUM sp.
   No. 1432.
120167. TRIFOLIUM sp.
   No. 1433.
120168. TRIFOLIUM sp.
   No. 1436.
120169. TRIFOLIUM sp.
   No. 1437.
120170. TRIFOLIUM sp.
   No. 1438.
120171. TRIFOLIUM sp.
   No. 1448. A form with purplish 
   flowers.
120173. TRIFOLIUM sp.
   No. 1449. 
   Nos. 120174 to 120177. Collected 30 
   km. southeast of Marash, July 2.
120174. TRIFOLIUM sp.
   No. 1455.
120175. TRIFOLIUM sp.
   No. 1458.
120176. TRIFOLIUM sp.
   No. 1459.
120177. TRIFOLIUM PURPUREUM Loisel.
   No. 1462. 
   Nos. 120178 to 120180. Collected 37 
   km. north of Gaziantep, July 3.
120178. TRIFOLIUM sp.
   No. 1477.
120179. TRIFOLIUM PURPUREUM Loisel.
   No. 1481.
120180. TRIFOLIUM sp.
   No. 1483.
120181. TRIFOLIUM sp.
   No. 1515. From 5 km. east of Birejik, 
   July 5.
120182. TRIFOLIUM sp.
   No. 1598. From 5 km. east of Hil-
   van, July 7.
120183. TRIFOLIUM sp.
   No. 1602. From 30 km. west of Di-
   yarbekir, July 7.
120184. TRIFOLIUM sp.
   No. 1609. From 3 km. northeast of 
   Siverek, July 7.
120185. TRIFOLIUM sp.
   No. 1608. From 18 km. northeast of 
   Siverek, July 7. Found growing abun-
   dantly on basalt formation.
   Nos. 120186 to 120190. Collected 
   around Diyarbekir, from July 7 to 9.
Nos. 120186 to 120205—Continued.

120186. TRIFOLIUM PUBPUBBUM Loisel. No. 1611. From 30 km. west of the town.

120187. TRIFOLIUM PUBPUBBUM Loisel. No. 1642. From 26 km. south of the town.

120188. TRIFOLIUM sp. No. 1643. From 25 km. south of the town.

120189. TRIFOLIUM LAPPACEUM L. No. 1650. From 25 km. south of the town.

120190. TRIFOLIUM sp. No. 1672. From 52 km. east of the town.


Nos. 120192 to 120204. Collected 25 km. southeast of Ankara, August 1.

120192. TRIFOLIUM HIRTUM All. No. 1754. From 40 km. southeast of Elaziz, July 13.

Nos. 120193 and 120194. Collected 44 km. north of Malatya, July 17.

120193. TRIFOLIUM sp. No. 1878.

120194. TRIFOLIUM sp. No. 1899. An annual clover, found on dry rocky soil.


Nos. 120197 to 120204. Collected 25 km. southeast of Ankara, August 1.

120197. TRIFOLIUM sp. No. 2054.

120198. TRIFOLIUM HIRTUM All. No. 2065.

120199. TRIFOLIUM sp. No. 2063.

120200. TRIFOLIUM sp. No. 2069.

120201. TRIFOLIUM sp. No. 2082.

120202. TRIFOLIUM sp. No. 2084.

120203. TRIFOLIUM sp. No. 2090.

120204. TRIFOLIUM sp. No. 2091.

Nos. 120205 and 120206. Collected 84 km. east of Sivas, August 5.

120205. TRIFOLIUM sp. No. 2105.

120206. TRIFOLIUM sp. No. 2119.

120207. TRIFOLIUM sp. No. 2284.

120208. TRIFOLIUM sp. No. 2289.

Nos. 120209 to 120212. Collected 35 to 40 km. north of Gemushane, August 10.

120209. TRIFOLIUM sp. No. 2295.

120210. TRIFOLIUM sp. No. 2297.

120211. TRIFOLIUM REPENS L. No. 2305.

120212. TRIFOLIUM sp. No. 2315.

120213. TRIFOLIUM ANGUSTIFOLIUM L. No. 2420. From the hills near Trabzon, August 14.

Nos. 120214 and 120215. Collected 86 and 106 km. south of Giresun, August 17.

120214. TRIFOLIUM LAPPACEUM L. No. 2421.

120215. TRIFOLIUM sp. No. 2424.

Nos. 120216 and 120217. Collected between 20 and 40 km. east of Samsun, August 22.

120216. TRIFOLIUM sp. No. 2562.

120217. TRIFOLIUM PRATENSE L. No. 2564.

120218. TRIFOLIUM sp. No. 2577. From 7 km. west of Termo, August 22.

120219. TRIFOLIUM sp. No. 2600. From 31 km. west of Samsun, August 23.

Nos. 120220 and 120221. Collected between 10 and 40 km. south of Tokat, August 26.

120220. TRIFOLIUM sp. No. 2672.

120221. TRIFOLIUM sp. No. 2674.

Nos. 120222 and 120223. From Yalova Kaplijalari, September 9 and 11.

120222. TRIFOLIUM sp. No. 2732.

120223. TRIFOLIUM sp. No. 2808.

120224. TRIFOLIUM sp. No. 2259. From Erzinjan, August 9.

120225. TRIFOLIUM sp. No. 2260. From Erzerum, August 9.
120033 to 120250—Continued.

120226. *TBIFOLIUM LAPPACEUM* L.
   No. 2599. From 5 km. west of Sam-
   sun, August 23.
120227. *TBIFOLIUM PRATENSE* L.
   No. 2638. From 50 km. southeast of
   Amasya, August 25.
120228. *TBIFOLIUM* sp.
   No. 2688. From 46 km. south of
   Tokat, August 26.
120229. *TBIFOLIUM* sp.
   No. 2750. From Ulu Dag, September
   7.

Nos. 120230 to 120238. From Yalova
Kapilijalari, September 11 and 12.
120230. *TBIFOLIUM* sp.
120231. *TBIFOLIUM HIBTUM* All.
120232. *TBIFOLIUM HIBTUM* All.
120233. *TBIFOLIUM* sp.
120234. *TBIFOLIUM* sp.
120235. *TBIFOLIUM PUBPUBEUM* Loisel.
120236. *TBIFOLIUM LAPPACBUM* L.
120237. *TBIFOLIUM* sp.
120238. *TBIFOLIUM LAPPACBUM* L.

120239. *TBIFOLIUM PUBPUBEUM* Loisel.
   No. 2901. From the ruins of the old
   city of Troy, August 18.
120240. *TBIFOLIUM PUBPUBEUM* Loisel.
   No. 3303. From 25 km. south of Gazi-
   antep, June 1.
120241. *TBIFOLIUM ANGUSTIFOLIUM* L.
   No. 3328. From the Agricultural In-
   stitute, Ankara, June 20.
120242. *TBIFOLIUM* sp.
   No. 3332. From 10 km. south of Den-
   isli, May 30.
120243. *TBIFOLIUM* sp.
   No. 3347. From near Izmir, June 14.
120244. *TBIFOLIUM* sp.
   No. 3349. From 30 km. west of Bali-
   kesir, June 16.
120245. *TBIFOLIUM* sp.
   No. 3361. A strain with dark-red
   flowers; from the slopes of Mount Olym-
   pus, Ulu Dag, 10 km. south of Bursa,
   June 19.

Nos. 120246 to 120248. Collected on
the dry rocky slopes of Alma Dag, from
3 to 25 km. southeast of Ankara, June
26 to 28.

120246. *TBIFOLIUM* sp.
120247. *TBIFOLIUM HIBTUM* All.
120248. *TBIFOLIUM* sp.

120249. *TBIFOLIUM* sp.
   No. 1600. From 35 km. west of Dyar-
   bekir, July 7.
120250. *TBIFOLIUM* sp.
   No. 2334. From mountain meadows
70 km. south of Trabzon, August 10.

120251. *BETA VULGARIS* L. Chenopodi-
aceae.
   From Italy. Seeds presented by the R.
   Stazione Sperimentale di Bieticultura, Ro-
   vigo. Received February 1, 1937.
   *Cesena,* a sugar beet.

120252. *ALLIUM AMPELOFRASUM* L. Lili-
aceae.
   From Algeria. Bulbs presented by Dr.
   René Maire, Directeur Service Botanique,
   Universite d’ Alger, Algiers. Received Febru-
   ary 11, 1937.
   A wild onion, about 2 feet high, with pur-
   ple flowers. Native to southern Europe. Re-
   ceived under the varietal name “combazia-
   num,” for which a place of publication has
   not been found.

120253 to 120278. *LYCopersicon Escu-
   From Turkey. Seeds collected by H. L.
   Westover and F. L. Wellman, Bureau of Plant
   Industry. Received January 14, 1937.
   This material was collected in the spring
   and summer of 1936.
120253. No. 526. From the Mugla bazar,
   May 28.
120254. No. 588. From the Izmir bazar,
   May 23.
120255. No. 1234. From the Bursa bazar,
   June 16.
120256. No. 1543. From the Urfu bazar,
   July 6.
120257. No. 1689. From the Erzinjan bazar,
   July 16.
120258. No. 1836. From the Malatya ba-
   zar, July 16.
120259. No. 2027. From the Nigde bazar,
   July 27.
120260. No. 2133. From the Sivas bazar,
   August 5.
120261. No. 2221. From the Erzinjan ba-
   zar, August 8.
120262. No. 2255. From the Erzinjan ba-
   zar, August 8.
120263. No. 2374. From the Trabzon ba-
   zar, August 11.
120264. No. 2532. From the Samsun bazar,
   August 21.
120265. No. 2595. From 36 km. west of
   Samsun, August 23.
   A very small wild tomato.
PLANT MATERIAL INTRODUCED

120253 to 120278—Continued.

120266. No. 2718. From the Amasya bazaar, August 25.
120267. No. 2740. From 6 km. west of Yalova Kaplijalari, September 6.
120268. No. 2743. From 1 km. south of Gemlik, September 6.
Small fruits found growing in an uncultivated olive orchard.
120269. No. 2888. From the Chanak Kale bazar, September 18.
120270. No. 2906. From 75 km. southwest of Chanak Kale, September 18. A red-plum type, sweet with tough skin, from the ruins of the old city of Troy.
120271. No. 3003. From the Kutahya bazar, September 26.
120272. No. 3053. From the Amasya bazar, October 6.
120273. No. 3083. From the Yozgat bazar, October 9.
120274. No. 3133. From the Inebolu bazar, October 13.
120275. No. 3172. From the Kastamonu bazar, October 14.
120276. No. 3211. From the Chankiri bazar, October 15.
120277. No. 3254. From the Adapazari bazar, October 20.
120278. No. 3283. From the Edirne bazar, October 22.
120279 to 120281.
From British Honduras. Seeds purchased from William A. Schipp, botanical collector, Corozal. Received February 8, 1937.
120279. ACANTHORHIZA ACULEATA (Liebm.) Wendl. Phoenicaceae. Rootspine palm.
120280. CHAMAEDOBEA sp. Phoenicaceae. Palm.
120281. THRINAX sp. Phoenicaceae. Palm.
A magnificent fan-leaved palm, found only in the northern part of the colony, in calcareous soils.
120282 to 120490—Continued.
From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 13, 1937.
This material was all collected in 1936.
No. 2220. From the Erzincan bazar, August 8.
No. 3153. From the Kastamonu bazar, October 14.
120284 to 120332. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.
120284. No. 556. From the Isparta bazar, June 2.
120285. No. 579. From the Antalya bazar, June 4.
Nos. 120286 and 120287. From the İzmir bazar, May 23.
120286. No. 607. A sweet melon of good quality.
120287. No. 611. A melon with large black seeds.
120288. No. 1153. From the Balikesir bazar, June 16.
120289. No. 1160. From the Balikesir bazar, June 17.
120290. No. 1250. From the Bursa bazar, June 16.
120291. No. 1370. From the Marash bazar, July 2.
Nos. 120292 to 120294. From the Urfa bazar, July 6.
120292. No. 1541. 120294. No. 1554.
120293. No. 1550.
Nos. 120295 to 120297. From the Dİyarbakir bazar, July 8 and 10.
120295. No. 1612. Fruit small, round; skin dark green with green markings; flesh red, of fair quality; early ripening; from Tarsus.
120296. No. 1654. Fruit small, round, early; flesh red; seeds black; said to be grown in the Mersin district.
120297. No. 1668. A famous variety; in 1935, one fruit is reported to have weighed about 160 pounds.
120299. No. 1903. From the Malatya bazar, July 17, but grown on dry hills along the Euphrates River. Fruit round, a foot in diameter, early; flesh red and of good quality; skin tough, grass green with darker markings.
120300. No. 2032. From the Nigde bazar, July 27.
120301. No. 2128. From the Sivas bazar, August 5.
Nos. 120302 and 120303. From the Erzincan bazar, August 8.
120302. No. 2226.
120303. No. 2257. Fruit 6 inches in diameter; skin very thin, dark green; flesh light salmon color, fair to medium sweet.
120304. No. 2370. From the Trabzon bazar, August 11.
120305. No. 2404. From 55 km. east of Trabzon, August 15. Fruit medium small; skin dark green; rind thin; flesh pink with salmon streaks, of good quality.
120307. No. 2520. From the Samsun bazar, August 21.
120308. No. 2787. Originally from Bursa, September 8. Flesh creamy white, of fair quality; seeds few, large and white.
120309. No. 2804. From Ordu, August 15. Fruit long and slender, like a cucumber; skin green, netted; flesh red, of fair quality.
120282 TO 120490—Continued.

120311. No. 2878. From the Yalova bazar, September 12. Fruit small, 4 inches in diameter; flesh red, of good quality. 

Nos. 120312 to 120318. From the Turgutlu bazar, September 23. 

120312. No. 2958. Fruit small, round, of fair quality, with cloudy yellowish splotches on a green background. 

120313. No. 2959. Fruit small, round, dark green; rind tough; quality fair. 

120314. No. 2960. Fruit elliptical with reticulated green markings; quality poor. 

120315. No. 2961. Fruit elliptical with green reticulations, medium sized; quality fair; rind very tough. 

120316. No. 2962. Fruit long; flesh of poor quality; skin dark green, tough, marked with lighter green reticulations. 

120317. No. 2963. Fruit dark green, elongated; flesh yellow, of poor quality. 

120318. No. 2964. Fruit long; flesh of poor quality; skin dark green, marked with lighter green reticulations. 

Nos. 120319 to 120321. From the Kutahya bazar, September 28. 

120320. No. 3057. From the Amasya bazar, October 6. 

120321. No. 3087. From the Yozgat bazar, October 9. 

Nos. 120322 and 120323. From the Inebolu bazar, October 13. 

120322. No. 3137. Istanbul variety. 

120323. No. 3138. 

Nos. 120324 and 120325. From the Kastamonu bazar, October 14. 

120324. No. 3156. 120325. No. 3171. 

120326. No. 3189. From the Chanak Kale bazar, October 15. 

120327. No. 3382. From the Istanbul bazar, June 22. A very small and early fruit with slightly pink flesh. 

Nos. 120328 to 120332. From the Balikesir bazar, September 19. 

120328. No. 2256. From Erzinjan, August 8. Fruit small, about 5 inches in diameter; skin smooth, yellow with slight markings; flesh creamy to white, of good quality and very fragrant. 

120329. No. 2631. From a village between Samsun and Merzifon, August 23. Fruit long; skin cream colored with light netting; flesh solid, medium sweet, of good flavor. 

120330. No. 2632. From the Istanbul bazar, June 22. A very small and early fruit with slightly pink flesh. 

Nos. 120336 and 120337. From the Amasya bazar, August 25.
PLANT MATERIAL INTRODUCED

120282 to 120490—Continued.

120355. No. 2957. Casaba type. Fruit large, skin yellow, wrinkled; quality poor.
120356. No. 2965. Casaba type. From the Izmir (Smyrna) bazar, September 23. Fruit large; skin green, wrinkled; quality good.
120358. No. 2983. Casaba type. From Kirkagach, September 26. Fruit large; skin yellow, wrinkled, with handsome green spotting; flesh of very good quality, flavor, and texture.
120359 and 120360. From the Eskisehir bazar, September 29.
120359. No. 3023. Grown in the Sakarya Valley. Fruit elliptical, 9 by 5 inches; skin smooth, shiny, yellow-brown, tough; flesh greenish, not sweet.
120360. No. 3024. Fruit pumpkin-shaped; skin smooth, yellow with a few green stripes, medium tough; flesh green, slightly sweet, of poor quality.
120361. No. 3075. From the Turhal bazar, October 7. Fruit elongated, netted; flesh green, quality fair.
Nos. 120362 to 120364. From the Ankara market, September 2.
120365. No. 548. From the Isparta bazar, June 2.
Nos. 120366 and 120367. From the Antalya bazar, June 3.
120366. No. 574. 120367. No. 575.
120368. No. 604. From the Izmir bazar, May 23.
120369. No. 1146. From the Balikesir bazar, June 18. A Casaba type of melon which had been kept all winter.
120370. No. 1152-E. From Balikesir.
Nos. 120371 and 120372. From the Bursa bazar, June 18.
120373. No. 1305. From the Marash bazar, July 2.
120374. No. 1535. From the Urfa bazar, July 6.
Nos. 120375 and 120376. From the Elaziz bazar, July 10.
120375. No. 1693. Diyarbekir melon.
120376. No. 1703. A very sweet melon.
120377. No. 1824. From the Malatya bazar, July 18.
120378. No. 2057. From the Nigde bazar, July 27.
120379. No. 2138. From the Sivas bazar, August 5.
Nos. 120380 to 120382. From the Erzincan bazar, August 8.

120380 to 120490—Continued.

120380. No. 2213. 120382. No. 2217.
120381. No. 2216.
120383. No. 2377. From the Trabzon bazar, August 11.
120384. No. 2408. From 45 km. east of Trabzon, August 12. Fruit long, oval; skin yellow, slightly netted; flesh deep greenish, pink near the seeds; quality fairly good, becoming mealy with age.
Nos. 120385 to 120387. From the Samsun bazar, August 21.
120385. No. 2523.
120386. No. 2551. Fruit about 4 inches in diameter; skin smooth, tan with brown stripes. A very attractive and fragrant fruit.
120387. No. 2552.
120388. No. 3004. From the Kutahya bazar, September 28.
120389. No. 3054. From the Amasya bazar, October 6.
120390. No. 3065. From the Yozgat bazar, September 29.
120391. No. 3048. From the Amasya bazar, October 6.
120392. No. 3136. From the Inebolu bazar, October 13.
120393. No. 3159. From the Kastamou bazar, October 14.
120394. No. 3191. From the Chankiri bazar, October 15.
Nos. 120395 and 120396. From the Adapazari bazar, October 20.
120395. No. 3272. Fruit pumpkin-shaped; skin canary yellow.
120396. No. 3273. Fruit pumpkin-shaped; skin orange yellow with green spots.

120397 to 120435. CUCUMIS SATIVUS L. Cucurbitaceae. Cucumber.
120398. No. 557. From the Isparta bazar, June 2.
Nos. 120399 and 120400. From the Antalya bazar, June 4.
120399. No. 586. 120400. No. 593.
120401. No. 615. From the Izmir bazar, May 23.
120403. No. 537. From the Mugla bazar, May 28.
120404. No. 562. From Isparta, June 2.
Nos. 120405 to 120407. From the Isparta bazar, May 23.
120405. No. 575. 120407. No. 621.
120406. No. 603.
120408. No. 1248. From the Bursa bazar, June 18.
Nos. 120409 and 120410. From the Marash bazar, July 2.
120409. No. 1471.
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120282 to 120490—Continued.


Nos. 120411 and 120412. From the Urfa bazar, July 6.

120411. No. 1544.

120412. No. 1548. Fruit long, slender, striped.

Nos. 120413 to 120415. From the Diyarbekir bazar, July 10.

120413. No. 1653.

120414. No. 1658. Fruit long, whitish.

120415. No. 1661.

120416. No. 1699. From the Elaziz bazar, July 12.

120417. No. 1821. From the Malatya bazar, July 16.

Nos. 120418 and 120419. From the Nigde bazar, July 27.

120418. No. 2040. 120419. No. 2048.

120420. No. 2235. From the Erzinjan bazar, August 8.

120421. No. 2137. From the Sivas bazar, August 5.

120422. No. 2240. From the Erzinjan bazar, August 8.

120423. No. 2541. From the Samsun bazar, August 21.

Nos. 120424 and 120425. From the Trabzon bazar, August 11.

120424. No. 2346. A climbing type.

120425. No. 2372.

120426. No. 2890. From the Chanak Kale bazar, September 18.

120427. No. 2908. From the Kutahya bazar, September 26.

120428. No. 3043. From the Amasya bazar, October 6.

120429. No. 3086. From the Yozgat bazar, October 9.

120430. No. 3131. From the Inebolu bazar, October 13.

Nos. 120431 and 120432. From the Kastamonu bazar, October 14.

120431. No. 3169. 120432. No. 3182.

120433. No. 3204. From the Chankiri bazar, October 15.

Nos. 120434 and 120435. From the Adapazarı bazar, October 20.

120434. No. 3234. A large cucumber.

120435. No. 3256. A small cucumber.

120436 to 120445. **CUCURBITA MAXIMA** Duchesne. Cucurbitaceae. Squash.

120436. No. 1230. From the Bursa bazar, June 18.

120437. No. 1542. From the Urfa bazar, July 6. A large squash.

120438. No. 2245. Chestnut squash. From the Trabzon bazar, August 11.

120439. No. 3205. From the Chankiri bazar, October 15.

120440. No. 3249. From the Adapazarı bazar, October 20.

120441. No. 3298. From the Edirne bazar, October 22.

120442. No. 570. From the Izmir bazar, May 28.

120443. No. 680. From the Antalya bazar, June 4.

120444. No. 2705. From the Burasga bazar, August 25.

120445. No. 3180. From the Kastamonu bazar, October 14.

120446 to 120455. **CUCURBITA MOSCHATA** Duchesne. Cucurbitaceae. Cushaw.

Nos. 120446 and 120447. From the Mugla bazar, May 28.

120446. No. 533. 120447. No. 542.

120448. No. 610. From the Izmir bazar, May 23.

120449. No. 1214. From the Bursa bazar, June 18.

120450. No. 2251. From the Erzinjan bazar, August 8.

120451. No. 2348. A large squash from the Trabzon bazar, August 11.

120452. No. 3143. From the Inebolu bazar, October 13. A very small fruit whose flesh smells like pumpkins.

120453. No. 3250. From the Adapazarı bazar, October 20.

120454 to 120455. **CUCURBITA PEPO** L. Cucurbitaceae. Pumpkin.

120454. No. 539. From the Mugla bazar, May 28.


Nos. 120456 and 120457. From the Antalya bazar, June 4.


Nos. 120459 and 120460. From the Bursa bazar, June 18.

120459. No. 1215. 120460. No. 1218.

Nos. 120461 and 120462. From the Marash bazar, July 2.

120461. No. 1377. 120462. No. 1380.

Nos. 120463 and 120464. From the Urfa bazar, July 6.


Nos. 120465 and 120466. From the Diyarbekir bazar, July 10.

120465. No. 1655. 120466. No. 1663.

120467. No. 1700. From the Elaziz bazar, July 14.


120469. No. 2046. From the Nigde bazar, July 27.

120470. No. 2145. From the Sivas bazar, August 5.

Nos. 120471 and 120472. From the Erzinjan bazar, August 8.

120471. No. 2227. 120472. No. 2237.

120473. No. 2361. From the Trabzon bazar, August 11.
PLANT MATERIAL INTRODUCED

120474. No. 2900. From the Chanak Kale bazar, August 18.
120475. No. 2905. A white pumpkin.
120476. No. 3007. A black pumpkin.
120478. No. 3129. From the Inebolu bazar, October 12.
120479. No. 3181. 120481. No. 3177.
120480. No. 3154.
120482. No. 3196. From the Chankiri bazar, October 15.
120484. No. 3292, From the Edirne bazar, October 22.
120485. No. 1709. From the Elaziz bazar, July 13.
120487. No. 2052. From the Nigde bazar, July 27.
120488. No. 3263. From the Adapazari bazar, October 20.
120489. No. 1238. From the Bursa bazar, June 18.
120490. No. 1367. From the Marash bazar, July 2.
120496. No. 3241. From the Adapazari bazar, October 20.
120498. No. 1391. From the Marash bazar, July 2.
120499. No. 2138. From the Sivas bazar, August 4.
120500 and 120501. LINUM USITATISSIMUM L. Linaceae. Flax.
120502. No. 622. From the Izmir bazar, May 23.
120503 to 120511. LINUM USITATISSIMUM L. Linaceae. Flax.
120512. No. 1217. From the Bursa bazar, June 18.
120513. No. 2464. From a field near Trabzon, August 15.
120514. No. 2553. From 4 km. east of Samsun, August 22.
120515. No. 2613. From a field near Basra, August 23.
120516. No. 2663. From Tokat, August 26.
120517. No. 2734. From 5 km. west of Yalova, September 6.
120518. No. 2908. A tall tobacco.
120520. No. 2926. From near Chesme, Smyrna region, September 12.
120521. No. 2981. From Ephesus, September 25.
120522 to 120524. CITRUS spp. Rutaceae.
120522. CITRUS AURANTIIFOLIA (Christm.) Swingle. Lime.
120523. CITRUS AURANTIUM (Christm.) Swingle. Lemon.
120524. CITRUS × RUTAEGRA Var. CITRUS ANDINA. Citron.
120523 to 120524—Continued.

120532. CITRUS NOBILIS DELICIOSA (Ten.) Swingle. Mandarin orange.
Beledy mandarine.

120534. CITRUS SINENSIS (L.) Osbeck. Orange.

120525. KEITELEERIA DAVIDIANA (Bertrand) Beissner. Pinaceae. From France. Seeds presented by A. Gerard, La Fosse, par Montrieux-sur-Loir, Loir-et-Cher. Received February 11, 1937. A coniferous tree, native to western China, closely allied to the firs. It sometimes becomes 100 feet tall, is of pyramidal habit, and has handsome glossy-green firlike foliage. For previous introduction see 111742.

120526. CAMPOMANESIA FERNZLIANA (Berg.) Glaziou. Myrtaceae. Guabiroba. From Brazil. Seeds presented by Graham Bell Fairchild, Anapolis, Goyaz. Received February 5, 1937. A low bush 1 to 2 feet high. The fruit is very good, juicy, and very sweet. The skin is tough, leathery, and bitter, but this is no drawback, as the seeds and pulp pop out when squeezed. It grows in the open scrubby plains of central Brazil and is called guifera in Matto Grosso. For previous introduction see 44784.

120527 to 120529. GLADIOLUS spp. Iridaceae. From the Union of South Africa. Seeds presented by A. Cheverton Buller, Dwarsriviers Hoek, District of Stellenbosch, Cape Province. Received February 9, 1937.

120527. GLADIOLUS CALLISTUS Bolus f. A tall plant, 30 to 40 inches high, with 4 to 7 narrow, sword-shaped leaves 1 to 2 feet long, and 2 stem leaves. The flowers, white suffused with lavender pink and 9 to 12 in number, are produced in 1 to 3 branches. Native to South Africa.

120528. GLADIOLUS GRACILIS Jacq. A plant with about 3 rigid, subterete leaves a foot long and very slender stems up to 2 feet high, bearing 2 to 6 pale-lilac scentless flowers in a lax secund spike. Native to South Africa. For previous introduction see 113570.

120529. GLADIOLUS VILLOSUS Ker. The simple stems of this gladiolus are up to 2 feet long, and the sheaths are very hairy, the lowest without any leaf blade. The upper sheaths enclose linear, thick, rigid leaves up to 12 inches long. The bright-red or lilac flowers are in a lax secund spike. Native to South Africa. For previous introduction see 105297.

120530 to 120640. From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received February 9, 1937.

120530. No. 598. From the Ismir bazar, May 23.

120532 to 120537. LENS ESCULENTA Moench. Fabaceae. Lentil.

120532. No. 566. From the Isparta bazar, June 2.

120533. No. 1615. From the Diyarbekir bazar, July 8.


120535. No. 1839. From the Malatya bazar, July 18.

120536. No. 2675. From 10 km. south of Tokat, August 26.

120537. No. 2881. From the Chanak Kale bazar, September 18.

120538 to 120616. PHASEOLUS spp. Fabaceae. Scarlet-runner bean.

120538 to 120542. PHASEOLUS COCCINEUS L. Fabaceae. Scarlet-runner bean.

120538. No. 3151. From the Kastamonu bazar, October 14.

120539. No. 1158. From the Bursa bazar, June 17.

120540. No. 1242. From the Bursa bazar, June 18.

120541. No. 1536. From the Urfa bazar, July 9.

120542. No. 2214. From the Erzinjan bazar, August 9.

120543 to 120613. PHASEOLUS VULGARIS L. Common bean.

120543. No. 547. From the Mugla bazar, May 28.


120545. No. 552. 120548. No. 563.

120546. No. 554.

120549. No. 600. From the Antalya bazar, June 4.

120550. No. 605. 120553. No. 620.

120551. No. 608. 120554. No. 624.

120552. No. 618. No. 120555 and 120556. From the Balikesir bazar, June 17.

120555. No. 1155. 120556. No. 1156.

120557 to 120563. From the Bursa bazar, June 18.

120557. No. 1223. 120561. No. 1236.

120558. No. 1225. 120562. No. 1237.

120559. No. 1226. 120563. No. 1240.

120560. No. 1229.

120564. No. 1553. From the Urfa bazar, June 6.

120565 to 120567. From the Marash bazar, July 7.

120565. No. 1303. 120566. No. 1382.

120566. No. 1386.
PLANT MATERIAL INTRODUCED

120530 to 120640—Continued.

120568. No. 1540. From the Urfa bazar, July 6.
Nos. 120569 and 120570. From the Diyarbekir bazar, July 9 and 10.
120568. No. 1614. 120570. No. 1662.
Nos. 120571 to 120574. From the Elaziz bazar, July 13.
120571. No. 1701. A long bean.
120573. No. 1707. A yellow bean.
120574. No. 1711.
Nos. 120575 to 120577. From the Malatya bazar, July 16.
120575. No. 1813. A late bean.
120576. No. 1809.
120577. No. 1837.
Nos. 120578 to 120580. From the Nigde bazar, July 27.
120578. No. 2024. 120580. No. 2053.
120579. No. 2028.
120581. No. 2135. From the Sivas bazar, August 5.
120582. No. 2056. From the Nigde bazar, July 27.
Nos. 120583 and 120584. From the Sivas bazar, August 5.
Nos. 120585 to 120587. From the Erzinjan bazar, August 8.
120585. No. 2224. 120587. No. 2236.
120586. No. 2234.
Nos. 120588 to 120591. From the Trabzon bazar, August 11.
120588. No. 2352. A pole bean.
120589. No. 2355.
120590. No. 2364.
120591. No. 2371.
Nos. 120592 to 120594. From the Samsun bazar, August 21.
120592. No. 2524. 120594. No. 2540.
120593. No. 2535.
120595. No. 2622. From a small patch growing among corn, 63 km. southwest of Samsun, August 24.
120596. No. 2547. From the Samsun bazar, August 21.
120597. No. 2624. Found growing among brush 54 km. southwest of Samsun, August 24.
120598. No. 2701. From the Amasya bazar, August 26.
120599. No. 2883. From the Chanak Kale bazar, August 18.
Nos. 120600 and 120601. From the Amasya bazar, October 6.
120600. No. 3070. 120601. No. 3072.
Nos. 120602 to 120604. From the Inebolu bazar, October 13.
120602. No. 3118. 120603. No. 3119.
120604. No. 3120. A stringless bean.

120530 to 120640—Continued.

120605. No. 3232. Dag so gani. From the Adapazari bazar, October 20.
Nos. 120606 and 120607. From the Chanak Kale bazar, October 15.
120606. No. 3198. 120607. No. 3200.
Nos. 120608 to 120613. From the Edirne bazar, October 22.
120608. No. 3289. 120611. No. 3300.
120610. No. 3299. 120613. No. 3302.
Nos. 120614 to 120616. From the Inebolu bazar, October 12. A collection of late varieties.
120614. PHASEOLUS sp. No. 3121.
120615. PHASEOLUS sp. No. 3121-A.
120616. PHASEOLUS sp. No. 3121-B.

120617 to 120632. PISUM spp. Fabaceae. Pea.

120617 to 120622. PISUM ELATIUS Bleb. For previous introduction see 117261.
120617. No. 738. From 19 km. south of Denizli, on a plateau, May 30.
120618. No. 823. From between Isparta and Antalya, June 3.
120619. No. 3346. From Ephesus, June 12. A wild edible pea with 6 to 8 peas in a pod.
120620. No. 1962. From Birejik, July 22. A variety with 4 to 9 peas in a pod; found growing on very poor soil.
120622. No. 3344. From 2 km. south of Kirkagach, June 11.

120623 to 120638. PISUM SATIVUM L. For previous introduction see 117261.
120623. No. 545. From Mugla bazar, June 28.
120624. No. 1258. From the Bursa bazar, June 18.
Nos. 120625 and 120626. From the Amasya bazar.
120627. No. 3123. From the Inebolu bazar, October 13.
120628. No. 3229. From the Adapazari bazar, October 20.
120629. PISUM ELATIUS Bleb. No. 1317. From the hills near Muda-nya, June 21.

120630. PISUM SATIVUM L. No. 3257. From the Adapazari bazar, October 20.
120631. PISUM sp. No. 1458. From 45 km. north of Gaziantep, July 3.
From Algeria, Africa. Seeds presented by Dr. René Maire, University of Algiers, Algiers. Received February 11, 1937.


For previous introduction see 116123.

120649. CASTANOPHIS CAUDATA Franch. Fagaceae.

A large evergreen shrub or small tree with shining entire ovate leaves. Native to central China.

120649. CASTANOPHIS SCLEOROPHYLLA (Lindl.) Schottky. Fagaceae.

For previous introduction see 116148.

120650. LITHOCARPUS GLABRA (Thunb.) Rehd. Fagaceae.

An evergreen tree, sometimes 60 feet high, with oblong-lanceolate leaves 3 to 7 inches long. Native to Japan.

120650. LITHOCARPUS HENRY (Seemen) Rehd. and Wils. Fagaceae.

An evergreen tree, sometimes 60 feet high, with oblong-lanceolate leaves 3 to 7 inches long. Native to Japan.

120651. LITHOCARPUS CHENII Nakai. Fagaceae. Oak.

An oak which becomes 90 feet high, with lanceolate leaves about 5 inches long. It is allied to Quercus glandulifera. Native to Chekiang Province, China.


A small evergreen oak of the Erlaus section, up to 45 feet high, with obovate to oblong leaves about 6 inches long, sinuate and shallow lobed. Native to China.


An oak which becomes 90 feet high, with lanceolate leaves about 5 inches long. It is allied to Quercus glandulifera. Native to Chekiang Province, China.


A small evergreen oak of the Erlaus section, up to 45 feet high, with obovate to oblong leaves about 6 inches long, sinuate and shallow lobed. Native to China.


A white oak up to 70 feet high, native to Japan, Chosen, and China. The oblong-ovate leaves are lustrous bright green and hold the color until late in the autumn. It is usually shrubby under cultivation.


A narrow-leaved oak with attractive bright-green leaves.

120656. Quercus MYSINEAPOLEA Blume. Fagaceae.

From Chia-hua-shan, Anhwei Province.

120657. Quercus GLANDULIFERA Blume (Q. serrata Thunb.). Fagaceae. Oak.

A white oak up to 70 feet high, native to Japan, Chosen, and China. The oblong-ovate leaves are lustrous bright green and hold the color until late in the autumn. It is usually shrubby under cultivation.

For previous introduction see 103774.


A large oak up to 80 feet high, forming pure stands between 2,000 and 5,000 feet altitude in central and eastern China. The bark is pale yellowish gray and deeply furrowed; the dark-green, crenately serrate leaves with bristlelike teeth are oblong to oblong-lanceolate; the roundish acorns are almost sessile.

For previous introduction see 89066.

120660 to 120680. From Turkey. Seeds and bulbs collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 9, 1937. This material was all collected in 1936 and, unless otherwise stated, was received as seeds.


120660 to 120820—Continued.

120714. No. 3124. From the Inebolu bazar, October 13.


120715. No. 530. From the Mugla bazar, May 28.

Nos. 120716 to 120718. From the Izmir bazar, May 23.

120716. No. 572. A bell-shaped pepper.

120717. No. 589. A small slender pepper.


120719. No. 1253. From the Bursa bazar, June 18.

120720. No. 1372. A mild pepper from the Marash bazar, July 2.

Nos. 120721 to 120723. From the Urfa bazar, July 6.

120721. No. 1558. An elongated pepper.

120722. No. 1560.


Nos. 120725 and 120726. From the Elaziz bazar, July 13.

120725. No. 1690.

120726. No. 1691.

Nos. 120727 and 120728. From the Malatya bazar, July 18.

120727. No. 2163. From the Sivas bazar, August 5.

Nos. 120731 to 120733. From the Erzianj bazar, May 8.

120731. No. 2229. A cylindrical pepper.

120732. No. 2230. An elongated pepper.

120733. No. 2242. An elongated pepper.

Nos. 120734 and 120735. From the Trabzon bazar, August 11.

120734. No. 2359. A bell-shaped pepper.

120735. No. 2366.

120736. No. 2417. From Rize, August 13. A sweet pepper; fruits round, about the size of a cherry, brilliant tomato-red; brought in from nearby Russian gardens; eaten both raw and cooked.

Nos. 120737 and 120738. From the Samsun bazar, August 21.

120737. No. 2525. An elongated pepper.

120738. No. 2538. A large pepper.

120739. No. 2893. From the Chanak Kale bazar, September 18.

120740. No. 2985. From the Kutahya bazar, September 28.

Nos. 120741 and 120742. From the Amasya bazar, October 6.

120741. No. 3044.

120742. No. 3051. An elongated pepper.

Nos. 120743 and 120744. From the Chankiri bazar, October 15.

120660 to 120820—Continued.

120743. No. 3184.

120744. No. 3209.

Nos. 120745 to 120747. From the Adapazari bazar, October 20.

120745. No. 3261. A small red pepper.

120746. No. 3265. A large pepper.

120747. No. 3267. A large hot pepper.

Nos. 120748 and 120749. From the Edirne bazar, October 22.

120748. No. 3285. A hot pepper.


Nos. 120750 and 120751. From the Bilecik bazar, June 17.

120750. No. 3361. A small pepper.


120752. No. 3360. From the Bursa bazar, June 18.


No. 1227. Garbanzos. From the Bursa bazar, June 18.

120754 to 120774. Daucus carota L. Apiaceae.

120754. No. 573. From the Isparta bazar, June 2.

120755. No. 592. From the Izmir bazar, June 23.

120756. No. 1244. From the Bursa bazar, June 18.

120757. No. 1384. From the Marash bazar, July 2.

120758. No. 1561. From the Urfa bazar, July 6.

120759. No. 1705. From the Elaziz bazar, July 13.

120760. No. 1832. From the Malatya bazar, July 16.

Nos. 120761 and 120762. From the Nigde bazar, July 27.

120761. No. 2041.

120762. No. 2055.

120763. No. 2134. From the Sivas bazar, August 5.

120764. No. 2231. From the Erzianj bazar, August 8.

120765. No. 2542. From the Samsun bazar, August 21.

120766. No. 2714. From the Amasya bazar, August 25.

120767. No. 2808. From the Chank Kale bazar, September 18.

120768. No. 3002. From the Kutahya bazar, September 28.

120769. No. 3020. From the Eskişehir bazar, September 29.

120770. No. 3081. From the Yozgat bazar, October 9.

Nos. 120771 and 120772. From the Inebolu bazar, October 13.

120771. No. 3125.

120772. No. 3135.

120773. No. 3178. From the Kastamonu bazar, October 14.

120774. No. 3258. From the Adapazari bazar, October 20.
PLANT MATERIAL INTRODUCED

120680 to 120820—Continued.

120775 to 120799. SOLANUM MELONGENA L. Solanaceae. Eggplant.

120776. No. 608. From the Mugla bazar, May 28.
120777. No. 591. From the Antalya bazar, June 3.
120779. No. 1255. From the Bursa bazar, June 18.
120780. No. 1378. From the Marash bazar, July 2.
120781 and 120782. From the Urfa bazar, July 6.
120781. No. 1532. A white eggplant.
120782. No. 1549.
120783. No. 1667. From the Diyarbekir bazar, July 10.
120785. No. 1820. From the Malatya bazar, July 16.
120786. No. 2034. From the Nigde bazar, July 27.
120787. No. 2223. From the Erzinjan bazar, August 8.
120788. No. 2526. From the Samsun bazar, August 21.
120789. No. 2700. From the Amasya bazar, August 25.
120790. No. 2892. From the Chanak Kale bazar, September 18.
120791. No. 3013. From the Kutahya bazar, September 28.
120792 and 120793. From the Amasya bazar, October 6.
120792. No. 3035.
120793. No. 3042.
120794. No. 3088. From the Yozgat bazar, October 9.
120795. No. 3155. From the Kastamonu bazar, October 14.
120796. No. 3210. From the Chankir bazar, October 15.
120797. No. 3236. From the Adapazari bazar, October 20.
120798. No. 3291. From the Edirne bazar, October 22.
120799. No. 3293.
120800 to 120820. SPINACIA OLERACEA L. Chenopodiaceae. Common spinach.
120800. No. 528. From the Mugla bazar, May 28.
120801 and 120802. From the Ismir bazar, May 23.
120801. No. 612.
120802. No. 617.
120803. No. 1368. From the Marash bazar, July 2.
120804 and 120805. From the Elaziz bazar, July 13.
120804. No. 1683.
120805. No. 1687.
120806. No. 1829. From the Malatya bazar, July 16.

120680 to 120820—Continued.

Nos. 120807 and 120808. From the Nigde bazar, July 27.
120807. No. 2037.
120808. No. 2043.
Nos. 120809 and 120810. From the Erzinjan bazar, August 8.
120809. No. 2232.
120810. No. 2244.
120811. No. 2368. From the Chanak Kale bazar, August 11.
120812. No. 2534.
120813. No. 2537.
120814. No. 2584. From the Chanak Kale bazar, September 18.
120815. No. 2588. From the Kutahya bazar, September 28.
120816. No. 3128. From the Inebolu bazar, October 13.
Nos. 120817 and 120818. From the Kastamonu bazar, October 14.
120817. No. 3150.
120818. No. 3152.
120819. No. 3202. From the Chankir bazar, October 15.
120820. No. 3235. From the Adapazari bazar, October 20.

120821 to 120823.

From Ecuador. Seeds collected by Mrs. Ynes Mexia, Bureau of Plant Industry. Received January 28, 1937.
120821. TEPHEROSIA TOXICARIA (Swartz) Pers. Fabaceae.
No. 8486-A. December 23, 1936. Barbasco. From Playa Rica, Provincia Esmeraldas, Parroquia Concepción, at 350 feet altitude, where it rains throughout the year, with the temperature ranging from 70° to 90° F.
For previous introduction see 116245.
120822. OCHROMA GRANDIFLORA Rowlee. Bombacaceae.
120823. (Undetermined.)
No. 8480. December 16, 1936. From Playa Rica, Provincia Esmeraldas, Parroquia Concepción, at 350 feet altitude. An ornamental vine, with cream-white flowers, which climbs to the tops of forest trees. The climate is rainy throughout the year and the temperature ranges from 70° to 90° F.


From India. Seeds collected by Walter Koehl, Bureau of Plant Industry. Received February 5, 1937.
No. 1650. Gul gul, gombru. From Bandrol, Kulu, Punjab, November 14, 1936, at 5,000 feet altitude. A citrus tree which stands 18° F. with little apparent injury; in some sections snow covers it for a month. The tree is a moderately rapid grower, bears fairly early, and the fruit is of good flavor and has excellent keeping quality.
120825 to 121052.

From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 18, 1937.

This material was all collected in the summer and autumn of 1936.


120825. No. 12825. From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 18, 1937. This material was all collected in the summer and autumn of 1936.


120825. No. 12825. From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 18, 1937. This material was all collected in the summer and autumn of 1936.

120826. No. 12826. From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 18, 1937. This material was all collected in the summer and autumn of 1936.

120836. No. 2880. From the Chanak Kale bazar, August 18.

120837. No. 3016. From the Kutahya bazar, September 28.

120838. No. 3049. From the Amasya bazar, October 9.

120839. No. 3082. From the Yozgat bazar, October 9.

120840. No. 3207. From the Chankiri bazar, October 15.

120851. No. 3158. From the Eastamonu bazar, October 14.

120852. No. 3207. From the Chankiri bazar, October 15.

120825 to 121052—Continued.

120853. No. 3251. From the Adapazari bazar, October 20.

120854. No. 3294. From the Edirne bazar, October 22.

120855. Allium sp. Liliaceae.

No. 2895. From the Chanak Kale bazar, August 18.

120856 to 120870. Anthemis Graveolens L. Apiceae. Dill.

120856. No. 578. From the Ismir bazar, May 23.

120857. No. 590. From the Antalya bazar, June 4.

120858. No. 1233. From the Bursa bazar, June 18.


120860. No. 1833. From the Malatya bazar, July 18.

120861. No. 2054. From the Nigde bazar, July 27.

120862. No. 2243. From the Erziljan bazar, August 8.

120863. No. 2360. From the Trabzon bazar, August 11.

120864. No. 2538. From the Samsun bazar, August 21.

120865 and 120866. From the Amasya bazar.


120866. No. 3245. From the Adapazari bazar, October 20.

120867. No. 3157. From the Balikesir bazar, June 16.

120868. No. 3161. From the Bursa bazar, June 18.

120869. No. 3161. From the Balikesir bazar, June 16.

120870. No. 3161. From the Balikesir bazar, June 16.


Nos. 120871 and 120872. From the Ismir bazar, May 23.


120873. No. 594. From the Antalya bazar, June 3.

120874. No. 2362. From the Trabzon bazar, August 11.

120875. No. 2521. From the Samsun bazar, August 21.

120876. No. 2885. From the Chanak Kale bazar, September 18.

120877. No. 2885. From the Chanak Kale bazar, September 18.

120878. No. 3037. From the Amasya bazar, October 6.

120879. No. 3139. From the Isebolu bazar, October 13.

120880. No. 3154. From the Kastamonu bazar, October 14.

120881. No. 3245. From the Adapazari bazar, October 20.

PLANT MATERIAL INTRODUCED

120825 to 121052—Continued.

120839. No. 3130. From the Inebolu bazar, May 23.

120840. No. 582. From the Izmir bazar, May 23.


120842. No. 573. From the Izmir bazar, May 23.

120843. No. 1660. From the Diyarbekir bazar, July 10. A form with glaucous leaves. It is not grown for the heads, but is used to wrap meats.

120844. No. 1819. From the Malatya bazaar, July 16.

120845. No. 2080. From the Nigde bazar, July 27.

120846. No. 2158. From the Sivas bazar, August 5.

120847. No. 2238. From the Erzinjan bazar, August 8.

120848. No. 2356. Leaf type.

120849. No. 2363. Head type.

120850. No. 2518.

120851. No. 2519.

120852. No. 2704. From the Amasya bazar, August 25.

120853. No. 3011. From the Kutahya bazar, September 28.

120854. No. 3034. From the Amasya bazar, October 6.

120855. No. 3174. From the Chankiri bazar, October 15.

120856. No. 3247. From the Adapazari bazar, October 20.


120858. *Brassica* CAMPESTRIS L. Rutabaga.

120859. No. 569. From the Isparta bazar, August 21.


120862. *Brassica* sp. No. 1140. Mustard from Ephesus, June 12.


120866. *Brassica* sp. No. 3269. From the Adapazari bazar, October 20.


120825 to 121052—Continued.

120936. No. 593. From the Izmir bazar, May 25.
120937. No. 1251. From the Bursa bazar, June 15.
120938. No. 1626. From the Diyarbekir bazar, July 9.
120940. No. 1510. From the Malatya bazar, July 16.
120941. No. 2039. Head lettuce from the Nigde bazar, July 27.
Nos. 120942 and 120943. From the Sivas bazar, August 5.
120942. No. 2139. 120943. No. 2150.
120944. No. 2246. A mixed sample from the Erzinjan bazar, August 8.
Nos. 120945 and 120946. From the Trabzon bazar, August 11.
120945. No. 2343. 120946. No. 2369.
Nos. 120947 and 120948. From the Samsun bazar, June 21.
120949. No. 2703. From the Amasya bazar, August 25.
Nos. 120950 and 120951. From Yalova Kaplıcaları, September 12.
120950. No. 2854. Wild lettuce.
120951. No. 2857. Wild lettuce.
120952 and 120953. From the Chanak Kale bazar, September 18.
120952. No. 2886. Head lettuce.
120953. No. 2889. Leaf lettuce.
120954. No. 2990. From the Kutahya bazar, September 28.
120955. No. 3036. From the Amasya bazar, October 6.
120956. No. 3090. From the Yozgat bazar, October 9.
120957 and 120958. From the Inebolu bazar, October 13.
120957. No. 3127. Leaf lettuce.
120958. No. 3134. Head lettuce.
Nos. 120959 to 120961. From the Kastamonu bazar, October 14.
120959. No. 3163. Leaf lettuce.
120960. No. 3169. Head lettuce.
120961. No. 3167.
Nos. 120962 and 120963. From the Chankir bazar, October 15.
120962. No. 3192. 120963. No. 3195.
120964. No. 3244. From the Adapazarı bazar, October 20.
120965. No. 3284. From the Edirne bazar, October 22.
120967. No. 1290. From the Marash bazar, July 2.

120825 to 121052—Continued.

120969. No. 1224. From the Bursa bazar, June 18.
120970 to 120980. Lepidium sativum L. Brassicaceae. Garden cress.
120970. No. 1256. From the Bursa bazar, June 15.
120971. No. 1686. From the Elaziz bazar, July 17.
120972. No. 2045. From the Nigde bazar, July 27.
120973. No. 2245. From the Erzinjan bazar, August 8.
120974. No. 2357. From the Trabzon bazar, August 11.
120975. No. 2516. From the Samsun bazar, August 21.
120976. No. 2712. From the Amasya bazar, August 25.
120977. No. 3001. From the Kutahya bazar, September 25.
120978. No. 3040. From the Amasya bazar, October 6.
120979. No. 3079. From the Yozgat bazar, October 9.
120980. No. 3239. From the Adapazarı bazar, October 20.
120982. No. 571. From the Izmir bazar, June 23.
120983. No. 572. From the Isparta bazar, June 2.
120984. No. 1149. From the Balikesir bazar, June 2.
120985. No. 1252. From the Bursa bazar, June 15.
120986. No. 1373. 120987. No. 1392.
120988. No. 1546. From the Urfa bazar, July 6.
Nos. 120989 and 120990. From the Diyarbekir bazar.
120993. No. 2029. From the Nigde bazar, July 27.
120994. No. 2212. From the Erzinjan bazar, August 8.
120995. No. 2144. From the Sivas bazar, August 5.
120996. No. 2350. From the Trabzon bazar, August 17.
120997. No. 2538. From the Samsun bazar, August 21.
PLANT MATERIAL INTRODUCED

120825 to 121052—Continued.

120898. No. 2711. From the Amasya bazar, August 25.
120909. No. 2894. From the Chanak Kale bazar, August 18.
121000. No. 2994. From the Kutahya bazar, September 28.
121001. No. 3041. From the Amasya bazar, October 6.
121002. No. 3077. From the Yozgat bazar, October 9.
121003. No. 3160. From the Kastamonu bazar, October 14.
121004. No. 3190. From the Chankiri bazar, October 15.
121005. No. 3252. From the Adapazari bazar, October 20.
121006. No. 3297. From the Edirne bazar, October 22.
121007 to 121047. RAPHANUS SATIVUS L.
121007. No. 543. From the Mugla bazar, May 28.
121008. No. 568. From the Isparta bazar, June 2. A large radish.
121009. No. 574. From the Izmir bazar, May 23. A black radish.
121010. No. 582. A white radish from the Antalya bazar, June 4.
Nos. 121011 and 121012. From the Izmir bazar, May 23.
121011. No. 583. A long radish.
121012. No. 587. A small round radish.
121013. No. 592. From the Antalya bazar, June 2.
121014. No. 1254. From the Bursa bazar, June 18.
Nos. 121015 and 121016. From the Marash bazar, July 2.
121015. No. 1362. A small radish.
121016. No. 1374. A large radish.
121017. No. 1545. From the Urfa bazar, July 6.
121018. No. 1664. From the Diyarbekir bazar, July 10. A large radish.
Nos. 121019 and 121020. From the Malatya bazar, July 18.
121019. No. 1812. A small red radish.
121020. No. 1830. A large radish.
Nos. 121021 to 121023. From the Nigde bazar, July 27.
121021. No. 2032. A long red radish.
121022. No. 2042. A white radish.
121023. No. 2051. A long white radish.
121024. No. 2129. From the Sivas bazar, August 5. A large round radish.
Nos. 121025 and 121026. From the Erzinjan bazar, August 8.
121025. No. 2219.

121026. No. 2248. A small red radish.
Nos. 121027 and 121028. From the Trabzon bazar, August 11.
121027. No. 2344.
121028. No. 2347. A small red radish.
Nos. 121029 and 121030. From the Samsun bazar, August 21.
121029. No. 2528.
121030. No. 2545. A white radish.
Nos. 121031 and 121032. From the Amasya bazar, August 25.
121031. No. 2802. A long red radish.
121032. No. 2713. A small radish.
121034. No. 2857. From Chanak Kale bazar, September 18.
Nos. 121036 and 121037. From the Kutahya bazar, September 28.
121036. No. 3010. A white radish.
121037. No. 3014. A red radish.
121038. No. 3047. From the Amasya bazar, October 6. A red radish.
121039. No. 3091. From the Yozgat bazar, October 9.
Nos. 121040 and 121041. From the Kastamonu bazar, October 14.
121040. No. 3153. A red radish.
121041. No. 3175.
121042. No. 3141. From the Inebolu bazar, October 13.
121043. No. 3203. From the Chankiri bazar, October 15.
Nos. 121044 to 121046. From the Adapazari bazar, October 20.
121044. No. 3237. A red radish.
121045. No. 3246. A white radish.
121046. No. 3248. A black radish.
121047. No. 3288. From the Edirne bazar, October 22. A large radish.
121048. RAPHANUS sp.
No. 2514. From Samsun, August 21.
121049. RAPHANUS sp.
No. 2325. From 75 km. north of Gemushane, August 10.
121050. RAPHANUS sp.
No. 3375. From Yenisehir, June 19.
121051. RAPHANUS sp.
No. 2400. From the sea coast between Trabzon and Rize, August 12.
121052. SOLANUM sp. Solanaceae.
No. 2805. From the Bursa bazar, September 10. A fruit used as a vegetable, quartered and boiled with meat; ripens in the fall, which is unusual.
121053 to 121077.
From Paraguay and Argentina. Collected by W. A. Archer, Bureau of Plant Industry. Received February 18, 1937.

Unless otherwise stated the material was received as seeds.


121054 to 121071. ARACHIS HYPOGAEA L. Fabaceae. Peanut.
No. 4990. Colorado. Strain A. H. 1053-B. From Santa Fe, Monte Caseros.
No. 4991. Rastrero. Strain A. H. 1051-1. From Santa Fe, Reconquista.
No. 4999. Imperial. Strain A. H. 1120-A. From the Tucumán Experiment Station.
No. 5000. Strain A. H. 1122-1. From Cordón, Entre Ríos.
No. 5001. Strain A. H. 1131-1. From Chajari, Entre Ríos.

121072 to 121074. NICOTIANA TABACUM L. Solanaceae. Common tobacco.
No. 4879. A mixed sample from Cabaña, Paraguay.
Nos. 121073 and 121074. Cultivated tobacco from Bonpland, Misiones, Argentina, December 1936.
No. 4950. Chileno grande colorado.

121053 to 121077—Continued.

121074. No. 4949. Chileno grande amarillo.

121075. ZEA MAYS L. Poaceae. Corn.
No. 4922. From the Jardín Botánico, Santissima, Trinidad, Paraguay, January 6, 1937. A soft corn, cultivated and grown especially for a certain type of bread; also for roasting ears.

121076. ZEPHYRANTHES sp. Amaryllidaceae.
No. 4944. From the Jardín Botánico, Santissima, Trinidad, Paraguay, January 9, 1937. Bulbs of a cultivated species thought to be native.

121077. NOTHOSCOBDUM sp. Liliaceae.
No. 4945. From the Jardín Botánico, Santissima, Trinidad, Paraguay, January 9, 1937. Bulbs of a native species.

121078 to 121085.
From New Zealand. Seeds presented by the Plant Research Bureau, Grasslands Division, Department of Scientific and Industrial Research, Palmerston North. Received February 11, 1937.

For previous introduction see 111886.

121079. DACTYLIIS GLOMERATA L. Poaceae. Orchid grass.
121080. LOLLUM MULTIFLORUM Lam. Poaceae. Italian ryegrass.
No. Ba. 229.
121081 and 121082. LOLLUM PEBEBB L. Poaceae. Perennial ryegrass.
121083. TRIFOLIUM PRATENSE L. Fabaceae. Red clover.
Montgomery Extra Late Flowering. No. Aa. 415.
121084 and 121085. TRIFOLIUM REPENS L. Fabaceae. White clover.
121084. No. Ac. 2377.
121085. No. Ac. 2297.

121086 to 121290.
From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 9, 1937. This material was collected in the summer and autumn of 1936.

121086. ANTHYLLIS VULNEBABIA L. Fabaceae. Kidneyvetch.
No. 2455. From Alma Dag, 25 km. southeast of Ankara, August 1.
For previous introduction see 93068.
121087. ANTHYLLIS sp. Fabaceae.
No. 1763. From 32 km. southeast of Elazig, July 13.
121088. ANTHYLLIS VULNEBABIA L. Fabaceae. Kidneyvetch.
No. 709. From 30 km. east of Milas, June 27.
121086 to 121290—Continued.

121089. AGRESTROBIUM sp. Fabaceae.
No. 2666. From 46 km. south of Tokat, August 26.

121090 to 121106. ASTRAGALUS spp. Fabaceae. Milkvetch.
121091. ASTRAGALUS sp. No. 2666. From 46 km. south of Tokat, August 26.
121092. ASTRAGALUS sp. No. 739. From 10 km. north of Tavas, May 30.
121093. ASTRAGALUS sp. No. 808. From 35 km. north of Antalya, June 3.
121094. ASTRAGALUS sp. No. 1083. From the ruins at Bergama, June 10. A shrub with large yellow flowers.
121095. ASTRAGALUS sp. No. 1749. From 30 km. southeast of Elaziz, July 13.
121096. ASTRAGALUS sp. No. 1873. From 50 km. north of Malatya, July 17.
121097. ASTRAGALUS sp. No. 2117. From 84 km. east of Sivas, August 5.
121098. ASTRAGALUS sp. No. 2408. From 29 km. west of Rize, August 13.
121099. ASTRAGALUS sp. No. 2456. From Alma Dag, 25 km. southeast of Ankara, August 1.
121100. ASTRAGALUS sp. No. 2768. From Ulu Dag, 35 km. south of Bursa, September 8.
121101. ASTRAGALUS sp. No. 2766. From Ulu Dag, 35 km. south of Bursa, September 8.
121102. ASTRAGALUS sp. No. 2812. From Yalova Kaplıcalar, September 12.
121103. ASTRAGALUS sp. No. 2813. From 20 km. south of Diyarbekir, July 9.
121104 to 121112. Cicer sp. Fabaceae.
121105. Cicer sp. No. 1596. From 30 km. west of Diyarbekir, July 7.
121110. COLUTEA sp. Fabaceae.
No. 3416. From 3 km. northeast of Ankara, June 26. A shrub with large yellow flowers and papery pods.
121111 to 121119. CORONILLA spp. Fabaceae.
121114. CORONILLA sp. No. 3193. Garbanzo. From the Chankırî bazar, October 15.
121115. CORONILLA sp. No. 1914. From 20 km. west of Diyarbekir, July 9.
121116. CORONILLA sp. No. 1791. From 10 km. southwest of Elaziz, July 14.
121117. CORONILLA sp. No. 2719. From Alma Dag, August 27.
121119. CORONILLA sp. No. 797. From 25 km. north of Antalya, August 3.
121120. CYTISUS sp. Fabaceae.
No. 2768. From Ulu Dag, 35 km. south of Bursa, September 8.
121121. CYTISUS sp. Fabaceae.
No. 2812. A shrub from Yalova Kaplıcalar, September 11.
121122 to 121128. GENISTA spp. Fabaceae.
121123. GENISTA sp. No. 2389. From 50 km. east of Trabzon, August 12.
121124. GENISTA sp. No. 2430. From 12 km. east of Ordu, August 19.
121125. GENISTA sp. No. 2555. From 9 km. east of Samsun, August 22.
121126. GENISTA sp. No. 2698. A shrub with yellow flowers from 106 km. south of Samsun, August 25.
121127. GENISTA sp. No. 2819. A spiny leafless shrub from Yalova Kaplıcalar, September 11.
121086 to 121290—Continued.

**121127. GENISTA sp.**
No. 2744. A shrub from near Gemlik, September 6.

**121128. GENISTA sp.**
No. 2821. A leafless shrub from Yalova Kapilikalari, September 11.

121129 to 121131. **HEDYSARUM spp. Fabaceae.**

**121129. HEDYSARUM sp.**
No. 2744. A shrub from near Gemlik, September 6.

**121130. HEDYSARUM sp.**
No. 2162. From 59 km. east of Sivas, August 6.

**121131. HEDYSARUM sp.**
No. 3451. From 10 km. southeast of Ankara, June 28.

**121132. INDIGOFERA sp. Fabaceae.**
No. 1430. From 75 km. northwest of Izmir, June 10.

**121133 to 121135. LATHYRUS spp. Fabaceae. Pea.**

**121133. LATHYRUS APHACA L.**
No. 618. From Ephesus, May 24.

**121134. LATHYRUS ERECTUS Lag.**
No. 804. From Bujak, June 3.

**121135. LATHYRUS sp.**
No. 1106. From the mountains between Manisa and Izmir, June 11.

**121136. LATHYRUS ERECTUS Lag.**
No. 1113. From 2 km. south of Kirkagach, June 11.

**121137. LATHYRUS ERECTUS Lag.**
No. 1181. From 30 km. west of Bilecik, June 16.

**121139. LATHYRUS sp.**
No. 1195. From 30 km. west of Bilecik, June 16.

**121140. LATHYRUS APHACA L.**
No. 1342. From Adana, June 10.

**121141. LATHYRUS SATIVUS L.**
No. 1354. From Adana, June 10.

**121142. LATHYRUS sp.**
No. 1461. From 30 km. southeast of Marash, July 2.

**121143. LATHYRUS sp.**
No. 1603. From 20 km. east of Siverek, July 7.

**121144. VICIA KRYVILLA (L.) Willd. Fabaceae. Vetch.**
No. 1793. From 35 km. southwest of Elazig, July 14.

**121145. LATHYRUS ERECTUS Lag. Fabaceae.**
No. 1880. From 44 km. north of Malatya, July 17.

121086 to 121290—Continued.

**121146 to 121148. VICIA spp. Fabaceae. Vetch.**

**121146. VICIA PSEUDRINA L.**
No. 1940. From Birejik, July 12.

**121147. VICIA SERIOCARPUS MICROPHYLLUS Boiss.**
No. 1949. From Birejik, July 12.

**121148. VICIA LATHYROIDES L.**
No. 2058. From Alma Dag, 25 km. southeast of Ankara, August 1.

**121149. LATHYRUS APHACA L. Fabaceae.**
No. 2494. From 8 km. southwest of Sheblankarhisar, August 18.

**121150. LATHYRUS sp. Fabaceae.**
No. 2574. From 7 km. west of Termi, August 22.

**121151. VICIA HYBRIDA L. Fabaceae. Vetch.**
No. 2587. From 8 km. west of Samsun, August 23.

**121152 to 121154. LATHYRUS GORGONI Parl. Fabaceae.**

**121152. No. 3304. From 25 km. south of Gaziantep, June 1.**

**121153. No. 3305. From 10 km. west of Gaziantep, June 1.**

**121154. No. 3403. From 3 km. west of Ankara, June 25.**

**121155. VICIA LATHYROIDES L. Fabaceae. Vetch.**
No. 3423. From a dry rocky slope 3 km. northeast of Ankara, June 26.

**121156. PISUM SATIVUM L. Fabaceae. Pea.**
No. 644. From near Aydin, June 25.

**121157 to 121160. LATHYRUS sp. Fabaceae. Pea.**

**121157. LATHYRUS ERECTUS Lag.**
No. 1113. From 2 km. south of Kirkagach, June 11.

**121158. LATHYRUS ERECTUS Lag.**
No. 1181. From 30 km. west of Bilecik, June 16.

**121159. LATHYRUS sp.**
No. 1195. From 30 km. west of Bilecik, June 16.

**121160. LATHYRUS APHACA L.**
No. 1342. From Adana, June 10.

**121161. LATHYRUS SATIVUS L.**
No. 1354. From Adana, June 10.

**121162. LATHYRUS APHACA L.**
No. 1461. From 30 km. southeast of Marash, July 2.

**121163. LATHYRUS sativus L.**
No. 1793. From 35 km. southwest of Elazig, July 14.

**121164. LATHYRUS ERECTUS Lag. Fabaceae.**
No. 1880. From 44 km. north of Malatya, July 17.

**121165. LATHYRUS SATIVUS L.**
No. 1940. From Birejik, July 12.

**121166. VICIA SATIVA L. Fabaceae. Common vetch.**
No. 753. From 8 km. north of Tavas, May 30.

**121167. LATHYRUS GORGONI Parl. Fabaceae.**
No. 727. From a lake bottom 50 km. southeast of Mugla, May 28.

**121168. LATHYRUS GORGONI Parl.**
No. 749. From 10 km. north of Tavas, May 30.

**121169. LATHYRUS SATIVUS L.**
No. 1880. From 44 km. north of Malatya, July 17.

**121170. LATHYRUS SATIVUS L.**
No. 1940. From Birejik, July 12.

**121171. LATHYRUS GORGONI Parl.**
No. 749. From 10 km. north of Tavas, May 30.
121086 to 121290—Continued.

121164. LATHYRUS APHACA L.
No. 1074. From 40 km. northwest of Izmir, June 10. A small pea found in a wheat field.

121165. LATHYRUS ANNUUS Hoejer.
No. 1095. From 2 km. south of Kirkagach, June 11.

121166. LATHYRUS GORGONI Parl.
No. 1097. From 2 km. south of Kirkagach, June 11.

121167. LATHYRUS CASSIUS Boiss.
No. 1439. From 37 km. north of Gaziantep, July 2.

121168. LATHYRUS sp.
No. 1472. From 37 km. north of Gaziantep, July 3.

121169. LATHYRUS CASSIUS Boiss.
No. 1480. From 30 km. southeast of Marash, July 3.

121170. LATHYRUS APHACA L.
No. 1609. From 30 km. west of Diyarbekir, July 7.

121171. LATHYRUS ODORATUS L.
No. 1741. From 25 km. southeast of Elaziz, September 13. A form with large yellow flowers.

121172. LATHYRUS ERECTUS Lag.
No. 1750. From 40 km. southeast of Elaziz, July 13.

121173. LATHYRUS ERECTUS Lag.
No. 1769. From 30 km. southeast of Elaziz, July 13.

121174. LATHYRUS APHACA L.
No. 1792. From 35 km. southwest of Elaziz, July 14.

121175. LATHYRUS ERECTUS Lag.
No. 2061. From Alma Dag, 25 km. southeast of Ankara, August 1.

121176. LATHYRUS HIRSUTUS L.
No. 2113. From 106 km. east of Sivas, August 5.

121177. LATHYRUS ERECTUS Lag.
No. 2114. From 84 km. east of Sivas, August 5.

121178. LATHYRUS HIRSUTUS L.
No. 2170. From 84 km. northeast of Sivas, August 6.

121179. LATHYRUS HIRSUTUS L.
No. 2201. From 60 km. east of Trabzon, August 17.

121180. VICIA SATIVA L. Fabaceae.
No. 2427. From 50 km. south of Giresun, August 17.

121181. LATHYRUS APHACA L.
No. 1792. From 35 km. southwest of Elaziz, July 14.

121182. LUTUS sp. Fabaceae.
No. 782. En route from Isparta to Antalya, June 3.

121183. LUTUS sp.
No. 1032. From the hills near Mardin, June 10.

121184. LUTUS sp.
No. 1319. From the hills near Mardin, June 10.

121185. LUTUS sp.
No. 1353. From Adana, June 10.

121186. LUTUS sp.

121187. LUTUS sp.
No. 2390. From 50 km. east of Trabzon, August 12.

121188. LUTUS sp.
No. 2822. From Yalova Kaplijalari, August 11.

121189. LUTUS sp.
No. 3388. From 3 km. west of Ankara, June 25.

121190. LUTUS sp.
No. 1209. From 50 km. west of Balikesir, June 16.

121191. LUTUS sp.
No. 1882. From 18 km. north of Malatya, July 17.

121192. LUTUS sp.
No. 2104. From 106 km. east of Sivas, October 5.

121193. LUTUS sp.
No. 2454. From Alma Dag, 25 km. southeast of Ankara, August 1.

121194. LUTUS sp.
No. 2809. From Yalova Kaplijalari, September 11.

121195. LUTUS sp.
No. 2980. From 90 km. southeast of Ankara, June 10.

121196. LUTUS sp.
No. 3390. From 3 km. west of Ankara, June 25.

121197. LUTUS sp.
No. 3390. From 3 km. west of Ankara, June 25.

121198. LUTUS sp.
No. 3390. From 3 km. west of Ankara, June 25.

121199. LUTUS sp.
No. 3390. From 3 km. west of Ankara, June 25.
121086 to 121290—Continued.

121203. MEDICAGO RADIATA L.
No. 1759. From 40 km. southeast of Elaziz, July 13.

121204. MEDICAGO SÁTIVA L. Alfalfa.
No. 2306. From 40 km. north of Gemužhane, August 10.

121205. MEDICAGO SÁTIVA L. Alfalfa.
No. 2634-A. From 15 km. from Amasya.

121206. MEDICAGO sp.
No. 1606. From 20 km. west of Diyarbekir, July 7.

121207. MELILOTUS sp. Fabaceae.
No. 1126. From the mountains between Manisa and Izmir, June 11.

121208 to 121217. ONOBRYCHIS spp. Fabaceae.

121208. ONOBRYCHIS ORNATA (Willd.) Desv.
No. 1662. From 20 km. east of Diyarbekir, July 10. An erect perennial over 6 inches high, native to Asia Minor.

121209. ONOBRYCHIS LAM. Fabaceae.
No. 133. From 25 km. north of Bursa, June 11. A perennial with thick ascending stems about 18 inches long, native to Asia Minor.

121210. ONOBRYCHIS ORNATA (Willd.) Desv.
No. 3453. From 15 km. southeast of Ankara, June 28.

121211. ONOBRYCHIS CAPUT-GALLI (L.) Lam.
No. 625. From Ephesus, June 24.

121212. ONOBRYCHIS SEQUINENTATA (Sibth. and Smith) D'Ury.
No. 751. From 15 km. south of Denizli, June 30. An annual with erect stems about a foot high, native to southern Europe.

121213. ONOBRYCHIS sp.
No. 1460. From 30 km. southeast of Marash, July 2.

121214. ONOBRYCHIS sp.
No. 1479. From 45 km. north of Gaziantep, July 3.

121215. ONOBRYCHIS TOURNEFORTII (Willd.) Desv.
No. 1906. From 45 km. north of Gaziantep, July 3. A hardy herbaceous perennial, native to Asia Minor.

121218. ONOBRYCHIS CAPUT-GALLI (L.) Lam. Fabaceae.
No. 1313. From 25 km. north of Bursa, June 20.

121219. ONOBRYCHIS sp. Fabaceae.
No. 1315. From 25 km. north of Bursa, June 20.

121220. ONOBRYCHIS sp. Fabaceae.
No. 1320. From the hills near Mudanya, June 21.

121221. ONOBRYCHIS sp. Fabaceae.
No. 133. From Birejik, July 22.

121222. ONOBRYCHIS CAPUT-GALLI (L.) Lam. Fabaceae.
No. 605. From open pine forest east of Milas, May 27. A slender spreading annual with pinnate leaves and very small yellow flowers.

For previous introduction see 65028.

121223. ONOBRYCHIS sp. Fabaceae.
No. 1479. From 25 km. northwest of Izmir, June 10.

For previous introduction see 85594.

121224. OBNITHOPUS COMPRÉSSUS L. Fabaceae.
No. 695. From open pine forest east of Milas, May 27. A slender spreading annual with pinnate leaves and very small yellow flowers.

For previous introduction see 65028.

121225 to 121229. SECURIGERA SECURIOACCA (L.) Deg. and Doerfl. Fabaceae.

121225. No. 664. From 5 km. west of Tireh, June 25.

121226. No. 682. From 30 km. southwest of Izmir, June 25.

121227. No. 1112. From 2 km. south of Kirkagach, June 11.


121229. No. 1456. From 30 km. southeast of Marash, July 2.

121230. SOPHORA sp. Fabaceae.
No. 817. From 25 km. southeast of Izmir, May 25.

121231. THERMOPSIS sp. Fabaceae.
No. 1061. From 3 km. east of Antalya, June 4.

121232 to 121250. TRIFOLIUM spp. Fabaceae.

121232. TRIFOLIUM sp. Clover.
No. 1073. From 50 km. northwest of Izmir, June 10.

121233. TRIFOLIUM sp.
No. 1324. From Adana, June 19.

121234. TRIFOLIUM sp.
No. 1352. From Adana, June 19.

121235. TRIFOLIUM PDRPBEDM Loisel.
No. 1475. From 37 km. north of Gaziantep, July 3.

121236. TRIFOLIUM sp.
No. 1479. From 25 km. northwest of Gaziantep, July 3.
PLANT MATERIAL INTRODUCED

121086 to 121290—Continued.

121237. TRIFOLIUM sp.  
No. 1520. From 25 km. northwest of Urfa, July 5.

121238. TRIFOLIUM sp.  
No. 1604. From 3 km. east of Silvelek, July 7.

121239. TRIFOLIUM sp.  
No. 1605. From 3 km. northeast of Silvelek, July 7.

121240. TRIFOLIUM sp.  
No. 1748. From 35 km. southeast of Elaziz, July 13.

121241. TRIFOLIUM sp.  
No. 1803. From 35 km. southwest of Elaziz, July 14.

121242. TRIFOLIUM sp.  
No. 1857. From 15 km. west of Malatya, July 16.

121243. TRIFOLIUM sp.  
No. 1922. From Birejl, July 21.

121244. TRIFOLIUM sp.  
No. 1943. From Birejik, July 22.

121245. TRIFOLIUM sp.  

121246. TRIFOLIUM sp.  

121247. TRIFOLIUM sp.  
No. 2116. From 84 km. east of Sivas, August 22.

121248. TRIFOLIUM sp.  
No. 2174. From 3 km. northeast of Ankara, July 13.

121249. TRIFOLIUM sp.  
No. 2615. From 20 km. west of Yalova Kaplijalari, September 12.

121250. TRIFOLIUM sp.  
No. 2210. From 60 km. southeast of Susheri, August 7.

121251 to 121253. TRIGONELLA spp. Fabaceae.  
121251. TRIGONELLA FOENUGREICUM L. Fenugreek.  
No. 768. From about 4 km. north of Denizli, May 31.

121252. TRIGONELLA FOENUGREICUM L. Fenugreek.  
No. 2125. From the Sivas bazar, August 24.

121253. TRIGONELLA FOENUGREICUM L. Fenugreek.  
No. 3400. From dry plains around Ankara, June 25.

121254. TRIGONELLA FOENUGREICUM L. Fenugreek.  
No. 1518. From 25 km. northwest of Urfa, July 5.

121255. TRIGONELLA FOENUGREICUM L. Fenugreek.  
No. 1789. From 10 km. southeast of Elaziz, July 14.

121256. TRIGONELLA FOENUGREICUM L. Fenugreek.  
No. 1790. From 10 km. southeast of Elaziz, July 14.

121257. TRIGONELLA FOENUGREICUM L. Fenugreek.  
No. 1927. From 40 km. southwest of Elaziz, July 18.

121258. TRIGONELLA sp.  
No. 2565. From 51 km. east of Samsun, August 22.

121259. TRIGONELLA sp.  
No. 2732. From Yalova Kaplijalari, September 6.

121260. TRIGONELLA sp.  
No. 2876. From 1 km. west of Yalova Kaplijalari, September 12.

121261. TRIGONELLA sp.  

121262. TRIGONELLA sp.  
No. 3417. From 3 km. northeast of Ankara, June 26.

121263 to 121265. VICIA spp. Fabaceae.  
121263. VICIA FABAL. Broadbean.  
No. 3068. From the Amasya bazar, October 6.

121264. VICIA ERYVILIA (L.) Willd.  
No. 1166. From 30 km. west of Baleskesir, June 16.

121265. VICIA ANGUSTIFOLIA Grufberg.  
No. 665. From near Soke, May 25.

121266. VICIA FABAL. Broadbean.  
No. 1120. From the mountains between Manisa and Izmir, June 11.

121267. VICIA SATIVA L. Common vetch.  
No. 1124. From the mountains between Manisa and Izmir, June 11.

121268. VICIA HIRSUTA (L.) S. F. Gray.  
No. 1168. From 30 km. west of Baleskesir, June 16.

121269. VICIA SATIVA L. Common vetch.  
No. 1188. From 30 km. west of Baleskesir, June 16.

121270. VICIA SATIVA L. Common vetch.  
No. 1207. From 30 km. west of Baleskesir, June 16.

121271 to 121275. VICIA ANGUSTIFOLIA Grufberg.  
No. 1227.  
No. 1327.  
No. 1330.  
No. 1335.  Dream flowers.

121274. VICIA LUTEA HIRTA (Balb.) Loisel.  
No. 1336.  
No. 1344.  
No. 1876. From 44 km. north of Malatya, July 17.
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121086 to 121290—Continued.

121277. LATHYRUS APHACA L. Fabaceae. Pea.
No. 1880. From 44 km. north of Malatya, July 17.

121278. Vicia sp. Fabaceae.
No. 1915. From 25 km. west of Diyarbekir, July 9.

No. 2204. From a wheat field, 86 km. southeast of Susheri, August 7.

121280. LATHYRUS APHACA L. Fabaceae. Pea.
No. 2204-A. From 86 km. southeast of Sivas, August 7.

121281. Vicia tetrasperma (L.) Moench. No. 2576. From 7 km. west of Terme, August 22.


No. 2339. From 50 km. south of Trabzon, August 10.


No. 3122. From the Inebolu bazar, October 13.

121288. LATHYRUS OCHRUS (L.) DC. Fabaceae. Pea.
No. 609. From the Izmir bazar, May 23.

121289. Vicia sp. Fabaceae.
No. 1247. From the Bursa bazar, June 13.

121290. Vicia sp. Fabaceae.
No. 2629. From 54 km. southwest of Samsun, August 24.

121291 to 121366.

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry. Received February 1, 1937.

Unless otherwise mentioned, this material was all collected in the United Provinces in the autumn of 1936.
PLANT MATERIAL INTRODUCED

121291 to 121366—Continued.


For previous introduction see 67683.


121315. CLIANTHUS DAMPIERI A. Cunn. Fabaceae. No. 1878. From Benares, December 15. A half-trailing shrub with branches 2 to 4 feet long, white hairy throughout, with pinnate leaves and large crimson flowers in a drooping raceme. Native to Australia.


121335 to 121337. *DOLICHOS LABLAB* L. Fabaceae. Hyacinth-bean. From Benares, December 15. It occurs in many varieties and most are sold as green "string beans." They are tender but stringy, and have a stronger flavor than our green beans. They have the advantage of being heavy and long-season producers.


121343. No. 1883. A native orange carrot.

121344. No. 1884. A native purple carrot, short, stubby, with thick, purplered rind, not sweet, fairly tender.


121346 to 121349. *DOLICHOS LABLAB* L. Fabaceae. Hyacinth-bean. Sem. From Benares, December 15. It occurs in many varieties and most are sold as green "string beans." They are tender but stringy, and have a stronger flavor than our green beans. They have the advantage of being heavy and long-season producers.

121348. No. 1888.

121349. No. 1889.

121350. No. 1890. A form with round pods.


121391 to 121366—Continued.


121399. *Oryza sativa* L. Poaceae. Rice. No. 1809. *Banmati*. From Lahore, Punjab, November 29. The best rice grown here. Planted the last of summer and requires about 120 days to mature; yields from 1,600 to 2,000 pounds per acre.


121403. No. 1842. A mixture of local varieties.

121404. No. 1862. A long green round fruit which weighs 4 to 5 pounds.

121405. No. 1870. An early purple fruit, 1 foot long.

121406. No. 1874. A round purple fruit, weighing 2 pounds.

121407. No. 1879. A purple variety, 1 foot long, with tender skin; quality good.

121408. No. 1897. A long green native variety.


121410. *Tagetes* sp. Asteraceae. Marigold. No. 1903. From Benares, December 16. An interesting quilled yellow form is seen here in the gardens, and this may be the form here represented.


121417. From Turkey. Seeds and bulbs collected by H. L. Westover and F. L. Wellman. Received January 18, 1937.

121418. Unless otherwise stated, this material was all collected in 1936 and was received as seeds.


121420. *Allium* sp. No. 3271. From the Adapazarı bazar, October 20.

121421. *Allium* sp. No. 2031. From the Nigde bazar, July 27.

121422. *Allium* sp. No. 1557. From the Urfa bazar, July 6. Used for flavoring bread.

121370 to 121400—Continued.

121375. ALLIUM sp.
   No. 3009. From the Kutahya bazar, September 28. Used for flavoring bread.

121376. ALLIUM sp.

121377. ALLIUM sp.
   No. 558. From the Mugla bazar, May 28.

121378. ALLIUM sp.
   No. 1431. Bulbs of a white-flowered allium from 31 km. north of Gaziantep, July 2.

121379. ALLIUM sp.
   No. 1525. Bulbs from the mountains near Urfa, July 6.

121380. ALLIUM sp.
   No. 1566. From 5 km. east of Sivelek, July 7.

121381. ALLIUM sp.
   No. 1571. Bulbs from 41 km. southeast of Diyarbekir, July 7.

121382. ALLIUM sp.
   No. 1589. Bulbs from 54 km. north of Urfa, July 7.

121383. ALLIUM sp.
   No. 1851. From 26 km. west of Malatya, July 21.

121384. ALLIUM sp.

121385. ALLIUM sp.
   No. 2691. From 46 km. south of Tokat, August 26.

121386. ALLIUM sp.
   No. 2725. From Talas, August 29.

121387 and 121388. From Yalova Kaplijalari, September 11.

121389. ALLIUM sp.

121390 to 121400—Continued.

121396. BETA spp. Chenopodiaceae.

121396. BETA VULGARIS CYCIA L. Chard.
   No. 541. From the Mugla bazar, May 28.

121397. BETA VULGARIS L. Common beet.
   No. 561. From the Isparta bazar, June 2.

121398. BETA VULGARIS L. Common beet.
   No. 577. From the Antalya bazar, June 4.

121399. LEPIDIUM sp. Brassicaceae.
   No. 3460-A. From Eskisehir, November 2.

121400. PHASEOLUS VULGARIS L. Fabaceae.
   Common bean.
   No. 2146. From the Sivas bazar, August 5.

121401 to 121435.

From Paraguay. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received January 27, 1937.

This material was all collected in 1936.

121401. CAMPOMANESIA OBOVATA (Miquel) Berg. Myrtaceae.
   No. 4703. Guabrami. From Villa Rica, December 17. A shrub about 8 feet high; fruits round, about 2 cm. in diameter; skin green with minute pale-brown specks; pulp sweet, grapelike, with 5 seeds.

121402 to 121405. CITRULLUS VULGARIS Schrad. Cucurbitaceae.
   Watermelon.
   Nos. 121402 and 121403. From Villa Encarnacion, December 14.
   121402. No. 4650. Sandia amarilla. Fruit with yellow flesh.
   121403. No. 4651. A cultivated melon.

   121404. No. 4659.
   121405. No. 4660.

121406. CITRUS sp. Rutaceae.
   No. 4704. Apebo. From the market at Villa Rica, December 17. Fruits 5 to 7 cm. in diameter, slightly flattened at the poles; skin fragile, puffy inside, bright orange. The pulp has the flavor of grapefruit, but looks like that of an orange. From the leaves of this plant is obtained the commercial "petit graine." Fruits are used locally for a bottled soft drink and for wine. The tree is large and occurs in a wild state in Paraguay.

121407 and 121408. CUCUMIS MELO L. Cucurbitaceae.
   Muskmeleon.

121408. No. 4668. From the Villa Rica, December 17. A cultivated melon.
121401 to 121435—Continued.

**CUCURBITA MOSHAYA** Duchesne. Cucurbitaceae.

No. 4653. Zapallo duro. From the Villa Encarnación, December 14. Fruit flattened at the poles, about 6 inches in diameter. It keeps well if a portion of the stem is left on.

121410 and 121411. CUCURBITA PEPO L. Cucurbitaceae. Pumpkin.

121410. No. 4654. Zapallo guachio. From the Villa Encarnación, December 14. Fruit 7 to 10 by 4 to 5 cm. in size; rind whitish green, very hard; keeps from one year to the next.

121412. EUGENIA sp. Myrtaceae.

No. 4699. Uvasú. From the market at Villa Rica, December 17. A large shrub or small tree about 15 feet high. Fruits roundish, slightly flattened at the poles, calyx persistent, skin dark reddish purple. Flesh has the consistency of grape, slightly sweet; seeds green, 1 to 3 in a fruit. In general, the fruits look like large blueberries and are used to make a refreshing drink.

121413. HIPPARRHUM sp. Amaryllidaceae.

No. 4691. From San Miguel Curudú, 3 km. north of Villa Encarnación, December 14. Flowers said to be white.


121415. PASPALUM NOTATUM or small tree about 15 feet high. Fruits shaped, used for mate' containers.

121416. PASPALUM NOTATUM (Fleg.) Rusby. Cucurbitaceae. Calabash gourd.

No. 4681. From Jardín Botánico, Santissima Trinidad, December 21. A perennial tropical American grass, good for forage and for erosion control.

For previous introduction see 118464.

121416 to 121421. PHASBOLUS VULGARIS L. Fabaceae. Common bean.

Nos. 121416 to 121419 were from Villa Encarnación, December 14.

121416. No. 4640. *Avilla de 6 meses*. From the market at Villa Rica, December 17.


121422. PISUM SATIVUM L. Fabaceae. Pea.


121423. RHEDIA BRASILIENSIS (Mart.) Planch. and Triana. Clusiaceae.

No. 4702. Pacuru. From the market at Villa Rica, December 17. A large tree with bright yellow, round fruits 2 to 4 cm. in diameter, which contain 2 or 3 large seeds that nearly fill the cavity. The lemon-flavored pulp, which surrounds the seeds, is used to make a refreshing beverage.

For previous introduction see 41150.

121424. REYNOSA HAGENBECKII Harms. Fabaceae.

No. 4712. From the Jardín Botánico, Santissima Trinidad, December 21. A shrubby perennial with long racemes of many small yellow flowers. Native to Brazil.

121425. SALACIA ELLIPITICA (Mart.) G. Don. Hippocrateaceae.

No. 4714. From the Jardín Botánico, Santissima Trinidad, December 21. A semi-climbing evergreen shrub or small tree with white flowers. Native and allied clusters of small yellowish-green flowers, followed by edible fruits. Native to Brazil.


No. 4707. Sorgo perenne. From San Lorenzo, December 24. A perennial lasting 10 years. Seed obtained in the Chaco and said to have come originally from Matto Grosso, Brazil.

121427. STEVIA REBAUDIANA Bertol. Asteraceae.

No. 4773. Kad-hee. From San Lorenzo, December 24. The leaves contain a sweet glucoside used locally, on a small scale, as a sugar substitute for diabetics.

121428. GALACTIA JUSSIAEANA Kunth. Fabaceae.

No. 4713. From the Jardín Botánico, Santissima Trinidad, December 21. A woody climber with ternate leaves; the leaflets elliptic rounded, sticky on the upper surface and hairy beneath, and small pink flowers. Native to Venezuela.

For previous introduction see 108259.

121429. VICTA FABA L. Fabaceae. Broadbean.

No. 4642. Haba. From Villa Encarnación, December 14. The young fruit and dry seeds are eaten.


Nos. 121430 to 121432. From Villa Encarnación, December 14.

121430. No. 4641. *Poroto todo el año*. From Villa Encarnación, December 14. A cultivated bean with curved pods 9 to 10 cm. long which produce ten green, about 1 cm. in diameter, with 1 to 3 seeds in each. The vine is a heavy bearer.


121432. No. 4646. *Poroto cuarenta*. Bears in 40 days after planting.

121433. No. 4696. A cultivated bean from the market at Villa Rica, December 17.

121434. VITIS sp. Vitaceae.

No. 4636. From Villa Encarnación, December 14. Cultivated for shade and ornament in many places. Fruits small, purple with dusty bloom, sweet but insipid, about 1 cm. in diameter with 1 to 3 seeds in each. The vine is a heavy bearer.

121435. ZEA MAYS L. Poaceae. Corn.

PLANT MATERIAL INTRODUCED


121436. No. 2115. From Calcutta, January 4, 1937. A red fruit, 3 inches across; possibly disease resistant.

121437. No. 1918. From Darjeeling, Bengal, December 22, 1936, at 7,000 feet altitude. Fruit red, globose, 2 inches in diameter.

121438. No. 1148. From Skardo, Baltistan Province, Kashmir, August 14, 1936, at 6,500 feet altitude. Fruit red, globose, 1 1/2 to 2 inches in diameter.

121439 to 121439—Continued.

121439 to 121491. From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 16, 1937.

The material was all collected in 1936.

121439. **AMYGDALUS** sp. Amygdalaceae. No. 2258. From 50 km. east of Erzincan, August 9. Seed from a wild tree.

121440 to 121444. **CORYLUS AVELLANA** L. Betulaceae. Filbert.

121440. No. 2511. From between Ordu and Giresun, August 19.

121441. No. 2384. Along the road between Trabzon and Rize, August 12.

121442. No. 2419. From a pile of drying filberts at Trabzon, August 14.

121443. No. 2923. From Giresun, August 20.

121444. No. 2550. From the Samsun bazar, August 21.


121446 to 121450. **FRAGARIA** spp. Rosaceae. Strawberry.

121446. **FRAGARIA** sp. No. 827. From the market at Izmir, June 8.


121448. **FRAGARIA** sp. No. 2478. From 49 km. south of Giresun, August 17.

121449. **FRAGARIA** sp. No. 3314. From the Istanbul bazar, June 16. A common variety of excellent flavor.

121450. **FRAGARIA** sp. No. 3327. From the Ankara bazar, June 20. A variety with white flesh.


No. 3050. From the Amasya bazar, October 6.


No. 2503. From 30 km. northwest of Susheri, August 18. A delicious mulberry, very sour when green, but sweet and juicy when mature.

121454 to 121459. **PRUNUS** spp. Amygdalaceae.

121454 to 121459. **PRUNUS ARMENIACA** L. Apricot. Nos. 121454 to 121457 were from the Elaziz bazar, July 11 to 13.

121454. No. 1680. Large, yellow-fleshed fruit.

121455. No. 1718. Medium-sized fruit of good quality with reddish skin.


121457. No. 1808. Unusually large fruit but very poor quality.

121458 to 121469. **PRUNUS** spp. Amygdalaceae.

121454 to 121457. From the Elaziz bazar, July 11 to 13.

121458. No. 1865. From the Malatya bazar, July 16. The famous "Malatya apricot" which has the highest sugar content and is the best for drying.


121460. No. 3331. From the Mugla bazar, June 30. Small fruits with yellow flesh.

121461. No. 3334. From the Antalya bazar, June 3. A yellow-fleshed apricot.

121462. No. 3336. From the Antalya bazar, June 3. A yellow-fleshed apricot.

121463. No. 3338. **SUGAR MONEY.** From a Mediterranean boat, June 4.

121464. No. 3339. From the Ismir bazar, June 8. A large sweet apricot.

Nos. 121465 to 121469 were received at Gaziantep, June 16, from M. N. Izely.

121465. No. 3362. A large pulpy, not juicy, freestone variety.

121466. No. 3363. A small sweet freestone variety.

121467. No. 3364. A large freestone variety.

121468. No. 3366. Sweet.

121469. No. 3367. **SUGAR MONEY.**


121471. **PRUNUS** sp. No. 1911. From the Malatya bazar, July 16. A large round yellow plum with crisp sweet flesh and tough skin.

121472. **PRUNUS** sp. No. 2184. A wild plum from 50 km. southeast of Susheri, August 7.

121473. **PRUNUS** sp. No. 2880. From the Trabzon bazar, August 11. A blue plum of medium size and a freestone; somewhat tart when not completely ripe.
JANUARY 1 TO MARCH 31, 1937

121459 to 121491—Continued.

121474. PRUNUS sp.
No. 2470. A wild plum from 99 km. south of Giresun, August 17.

121475. PRUNUS sp.
No. 2564. From 16 km. east of Sam- sun, August 22. A yellow wild plum of medium size and fairly good quality.

121476. PRUNUS sp.
No. 2609. From 38 km. west of Sam- sun, August 23. A small wild blue plum with good sharp flavor.

121477. PRUNUS sp.
No. 3100. From the Yozgat bazar, October 9. A late-fruiting, oblong plum with pinkish tan skin.

121478. PRUNUS sp.
No. 3104. From the Ankara bazar, October 10. A purplish medium-sized, late plum with solid flesh of fair qual- ity.

121479. PRUNUS sp.
No. 3340. A red plum from the Izmir bazar, June 8.

121480. PRUNUS sp.
No. 3341. From the Izmir bazar, June 8. A light-red plum with watery flesh, picked and eaten green in Turkey.

121481. PRUNUS sp.
No. 3378. A dark-red plum from the Bursa bazar, June 20.

121482. PRUNUS sp.

121483. PRUNUS sp.
No. 3414. A red plum from the Izmir bazar, June 8. A light-red plum with watery flesh, picked and eaten green in Turkey.

121484. PRUNUS sp.
No. 3378. A dark-red plum from the Bursa bazar, June 20.

121485. PRUNUS sp.

121486._PRUNUS sp.
No. 733. From the Mugla bazar, May 28. Fruit eaten green.

121487. PIMPINELLA ANISUM L. Apiaceae.
Anise.
No. 1246. From the Bursa bazar, June 18.

121488. RUMEX sp. Polygonaceae.
No. 1758. From 25 km. southeast of Elaziz, July 13. So-called “spinak” used as a salad and cooked as greens.

121489. PYRUS sp. Malaceae.

121490 and 121491. SORBUS DOMESTICA L. Malaceae.
Servioetree.
For previous introduction see 62586.

121492 to 121507.

From Paraguay. Collected by W. A. Archer, Bureau of Plant Industry. Received Feb- ruary 10, 1937.

Unless otherwise mentioned, the material was collected as seeds.

121492. PSEUDANANAS MACRODONTES (E. Morr.) Harms (Ananas macrodontes E. Morr.) Bromeliaceae.
No. 4907. Abacachy Tupi. From the Jardín Botánica, Santissima Trinidad, Janu- ary 5, 1937. A semiwild form which pro- duces the year round. The fruits are used for making wine and vinegar.

121493. ANACAPIS HYPOGARA L. Fabaceae.
Peanut.
No. 4881. A cultivated peanut from Tobatý, January 2, 1937.

121494. ANACAPIS MARGINATA Gardn. Faba- ceae.
No. 4758. From San Lorenzo, December 24, 1936.

For previous introduction and descrip- tion see 119878.

121495. CITRULLUS VULGARIS Schrad. Cur- curbitaceae.
Watermelon.
No. 4878. From Caacúpe, January 1, 1937. Fruit with yellow flesh.

121496. CUCUMIS MELON L. Cucurbitaceae.
Muskmelon.
No. 4878. From Tobatý, January 2, 1937. Fruit oval, brown and yellow striped, about 2 inches long, very aromatic but insipid flavor.

121497. HIPPEASTRUM sp. Amaryllidaceae.
No. 4914. From near Tobatý, January 2, 1937. Said to be a native species. The long-tubed, fragrant flowers are white with two pink stripes on each segment; there are 4 to 6 flowers in each umbel.

121498. MIMOSA sp. Mimosaceae.
No. 4820. From the Arroyo Tobatý near Tobatý, January 1, 1937. A shrub about 10 feet high, with rose-colored flow- ers.

121499 to 121502. NICOTIANA TABACUM L. Solanaceae. Common tobacco,

121500. No. 4915. Chilieno guazu.
121502. No. 4917. Santa Elena.

121503. PHASEOLUS LUNATUS L. Fabaceae.
Lima bean.
No. 4874. From Caacúpe, January 1, 1937.
121492 to 121507—Continued.


No. 4909. Tubers from the Jardín Botánico, Santíssima Trinidad, January 5, 1937.

For previous introduction see 47972.

121505. VERBENA BONAIRENSIS L. Verbenaceae.

No. 4821. From the Arroyo Tobaty, near Tobaty, January 1, 1937. A stiff, erect shrub 1 to 3 feet high, with purple-blue flowers.

For previous introduction see 97712.

121506 and 121507. ZEA MAYS L. Poaceae. Corn.


121508 to 121517.

From India. Bulbs and tubers collected by Walter Koelz, Bureau of Plant Industry. Received February 25, 1937.

121508 to 121512. ALLIIUM SATIVUM L. Liliaceae. Garlic.


121508. No. 1911.

121509. No. 1912. This is the first time I have seen this single bulb garlic here.

121510. No. 1923. Bulbs from Darjeeling, Bengal, December 23, 1936.


121511. No. 2117. Said to have come from Singapore.

121512. No. 2119. A local variety.

121513 and 121514. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato. Shaker Kandi. Tubers from Calcutta, January 7, 1937. The sugar content is much less than in our species, and by some is preferred on that account.

121513. No. 2142.

121514. No. 2143.

121515 to 121517. SOLANUM TUBEROSUM L. Solanaceae. Potato.

Nos. 121515 and 121516. Tubers of Afu, from Benares, United Provinces, December 16, 1936. White potatoes which may be stored all through the summer heat. Best seed comes from the mountains.

121515. No. 1909.

121516. No. 1910.


121518 to 121541.

From Uruguay and Argentina. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received February 25, 1937.

121518 to 121521. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

121518. No. 4952. From Real de San Carlos, 7 km. north of Puerto Colonia, Uruguay, January 17, 1937.

121518 to 121541—Continued.

121519 to 121521. Presented by the Ministerio de Agricultura, Buenos Aires, Argentina, January 22, 1937. All three strains are fairly pure selections.


121519. No. 5004. Aciéitoso or Mani blanco. From Santo Tomé, Santa Fé. A white-skinned type, considered the most important for oil extraction.

121522 to 121541. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

121522. No. 4971. From along the steep eroded river banks at Puerto Colonia, Uruguay, January 19, 1937.

Nos. 121523 to 121541 were presented by the Ministerio de Agricultura, Buenos Aires, Argentina, January 22, 1937.

121523 and 121524. ORIOLO SALTÉN. Poaceae.

121523. No. 5006.

121524. No. 5007.

121525 and 121526. Chileno Colorado Hoja.

121525. No. 5008.

121526. No. 5009.

121527 and 121528. Chileno colorado gigante Santa Cruz.

121527. No. 5010.

121528. No. 5012. Lampafo.

121530 and 121531. Hoja Parada.

121530. No. 5013.

121531. No. 5014.

121532 to 121535. ORIOLO COLOREADO. Poaceae.

121532. No. 5015.

121533. No. 5016.

121534. No. 5017.

121535. No. 5018.


121536. No. 5019.

121537. No. 5020.

121538 and 121539. Chileno Grande amarillo.

121538. No. 5021.

121539. No. 5022.

121540 and 121541. Chileno correntino.

121540. No. 5023.

121541. No. 5024.

121542 to 121555. ORYZA SATIVA L. Poaceae. Rice.

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry. Received February 25, 1937.

A collection of rice from the Dacca Agricultural Farm, Dacca, Bengal, January 13, 1937.

121542. No. 2149. Jhingasi. A fine rice which, when transplanted in July, ripens in December. Said to have short awns and weak straw, hence liable to lodge; of superior quality and a good yielde.

121543. No. 2147. Hatiasal. A fine, late, medium-strawed, decoted, white rice; transplanted in July and ripening in December.

121544. No. 2148. An early rice of superior quality and a good yielde.

121545. No. 2149. Latiasal. A small, coarse, high-yielding, medium-early rice with short straw; adapted to several types of soil.
121542 to 121555—Continued.


121547. No. 2151. Dandkhani. Described as a fine scented, late, medium-yielding, white, transplanted rice.


121551. No. 2155. India sail (Aman type). A medium-late, good yielding, transplanted rice.

121552. No. 2156. Kalai Aman. A transplanted rice of which there are many forms that grow in the lowlands where the floods raise the water to a depth of 8 feet or more.

Nos. 121553 to 121555 are Aman types, suited to rich upland and watered well. The life period of this group ranged from about 90 to 125 days.

121553. No. 2157. An early scented rice, suited to rich light soils.


121555. No. 2162. Kumeri. A medium dne rice of good quality, and a heavy yielder; a broadcast, highland type.


From Brazil. Seeds collected by Mr. Barlow at Maranhão, and presented through G. S. Jamieson, Bureau of Chemistry and Engineering. Received February 26, 1937.

A small tree with pendulous branches, thin elliptical leaves, and racemes of inconspicuous flowers. The drupaceous fruits, over an inch long, enclose seeds rich in oil. This oil, however, does not yet have any known use. Native to tropical Brazil.

121557 to 121577.

From Morocco. Plants presented by H. Brayard, Directeur, Service de l'Agriculture, Station Experimentale de Marrakesh. Received February 27, 1937.


121558. No. 2108. A transplanted rice of medium quality and high yield, ripening in about 170 days.

121559. No. 2111. Originally from Bombay.


121562. No. 2116. A native red onion.

121563. No. 2117. From Darjeeling. Bengal, December 24, at 7,000 feet altitude. Grown in India as a potherb. The leaves, about 2 feet long, are tender and resemble chard in appearance.

121564. Brassica sp. No. 2109. Raisag. From Calcutta, January 3. May be the same as that from Darjeeling under the same name.


121566. No. 1927. From Darjeeling, Bengal, December 24, at 7,000 feet altitude. Grown in India as a potherb. The leaves, about 2 feet long, are tender and resemble chard in appearance.

121567. No. 1930. A transplanted rice of medium quality and high yield, ripening in about 170 days.

121568. No. 1940. Phulgabi. From Benares, United Provinces, December 28. Plants 4 to 5 feet high, found in rain forest; fruits red, very pungent.


121570. No. 1962. Mirabelle precoce. From Darjeeling, Bengal, December 23, at 7,000 feet altitude. Fruit red, pointed, 3 inches long, 1 inch across at base; some types sweet except for strong seeds, others with pungent flesh.
PLANT MATERIAL INTRODUCED

121578 to 121649—Continued.

121585. No. 2077. Mirch. From Calcutta, January 1. Fruit 3 to 4 inches long by 1 1/2 to 2 inches wide, moderately hot.

121587. No. 2078. Mirch. From Calcutta, January 1. Fruit red, 2 1/2 inches to 3 inches long by three-fourths to 1 inch wide; pungent.


121593 to 121595. Corylus ferox L. Betulaceae. No. 121587. No. 2078. Mirch. From Calcutta, January 1. Fruit red, 2 1/2 inches to 3 inches long by three-fourths to 1 inch wide; pungent.

121595. No. 2113. No. 2084. From Sikkim, Bengal, December 24, at 7,000 feet altitude.


121598. No. 2073. From the market; fruit said to be huge.


121601. No. 2104. Kadu. From Sevok, Bengal, December 22, at 7,000 feet altitude.


121603. No. 1934. From the market; fruit said to be huge.


121607. No. 2096. From Darjeeling, Bengal, December 2, at 7,000 feet altitude. Fruit red, oval, 2% inches long and irregularly ribbed.

121608. No. 2073. Kadu. From Sikkim, Bengal, December 24, at 7,000 feet altitude.

121609. No. 2102. Tori. From Calcutta, January 3. Used as a vegetable when young.


121612. No. 1943. From the Rangit River, Darjeeling District, Bengal, at 2,000 feet altitude. An annual with small globose brown-red fruits.


121614. Lactuca pubescens C. B. Clarke. Cichorieae. No. 2002. From Darjeeling, December 24, but said to have come from Sikkim at 3,000 feet altitude.

121615 to 121617. Luffa spp. Cucurbitaceae.


121619. Melothria sp. Cucurbitaceae. No. 1943. From the Rangit River, Darjeeling District, Bengal, at 2,000 feet altitude. An annual with small globose brown-red fruits.


121622. No. 1024. From the market. Bought in the market.


121624. No. 1944. Used as green and also as dried beans.
121626. **RHEUM ACUTUM** Hook. f. and Thoms. *Polygonaceae*. No. 2012. Obtained at Darjeeling, December 25; said to have come from 14,000 feet altitude in Tibet. For previous introduction see 114652.

121627. **RHEUM ACUMINATUM** Hook. f. and Thoms. *Polygonaceae*. No. 2011. Obtained at Darjeeling, December 25; said to have come from a high altitude in Tibet. A handsome herbaceous plant with a stem 3 to 4 feet high and as thick as the wrist at the base. It is found in the inner ranges of the Sikkim Himalayas at altitudes between 13,000 and 15,000 feet. The root resembles that of the common rhubarb, but is spongy and inert. The acid stems are eaten both boiled and raw, and the dried leaves afford a substitute for tobacco. For previous introduction see 116985.

121628. **RUBUS** sp. *Rosaceae*. No. 2000. From Darjeeling, Bengal, December 25; said to have come from a nearby locality at 9,000 feet altitude.

121629 to 121635. **RUBUS** spp. *Rosaceae*. No. 2090. From Tiger Hill, Darjeeling District, Bengal, December 23, at 9,000 feet altitude. A climbing shrub 12 feet high with trifoliate leaves and small red fruits.


121637 to 121646. **SOLANUM MELONGENA** L. *Solanaceae*. Eggplant. From Calcutta, January 1 to 3.


121640 to 121649—Continued.

121640. **SOYA**. No. 1989. From Darjeeling, Bengal, District, Bengal, at 8,000 feet altitude, December 23.


121644. **TIBETAN RASPBERRY**. No. 1945. From Tiger Hill, Darjeeling District, Bengal, at 8,000 feet altitude, December 23. An attractive shrub 6 feet high, with large maplelike leaves and red fruits.

121645. **TIBETAN RASPBERRY**. No. 1945. From Tiger Hill, Darjeeling District, Bengal, at 8,000 feet altitude, December 23. An attractive shrub 6 feet high, with large maplelike leaves and red fruits.

121646. **TIBETAN RASPBERRY**. No. 1945. From Tiger Hill, Darjeeling District, Bengal, at 8,000 feet altitude, December 23. An attractive shrub 6 feet high, with large maplelike leaves and red fruits.

From the United States Plant Introduction Garden, Chico, Calif. Seedlings grown at the garden; numbered in March 1937.


121650. **PRUNUS ARMENIACA** L. *Apricot*. Nos. 121650 to 121653 were grown from P. I. No. 82672.


121655. **PRUNUS** spp. *Amygdalaceae*. No. 121652. Row 74, tree no. 27.


Grown from P. I. No. 82678.
PLANT MATERIAL INTRODUCED

121650 to 121659—Continued.
121658. Row 70, tree no. 54.
121659. Row 74, tree no. 35.

121660 and 121661.
From the Union of Soviet Socialist Republics. Seeds presented by the Director, Botanical Institute, Tiflis, Georgia. Received February 20, 1937.

121660. **Cyclamen sp.** Primulaceae.

Received under the name “abchasicum,” for which a place of publication has not been found.

121661. **Hedera colchica** Koch. Araliaceae.

Colchis ivy. A high-climbing vine with the young growth covered by golden-yellow scales, broadly cordate, almost entire, very large, bright-green leaves of firm texture, and small umbels of greenish-yellow flowers in panicle clusters, followed by black fruits. Native to the Caucasus region.

For previous introduction see 115641.

121662 to 121667. **Lycopersicon esculentum** Mill. Solanaceae. Tomato.

From Canada. Seeds presented by T. F. Ritchie, Chief-Assistant, Dominion Horticultural, Central Experimental Farm, Ottawa. Received March 2, 1937.

121662. **Adel.** 121665. **Globonice.**
121663. **Alacrity.** 121666. **Herald.**
121664. **Bestal.** 121667. **Pink.**

121668 to 121775—Continued.
121668 to 121775—Continued.

121668. No. 1166. **Badam Chuli.** Fruit yellow, with red cheek, fairly sweet; seed often split in fruit.
121669. No. 1178. **Wapuli.** Fruit golden yellow, red cheeked; flesh very sweet, firm; one of the best for drying.
121670. No. 1178-A. **Wapuli.** Fruit golden yellow with red cheek; flesh very sweet, firm.
121671. No. 1179. **Odomas.** Fruit yellow with pale-red cheek, very sweet, one of the best.
121672. No. 1180. **Ribu Chuli.** Fruit round, golden yellow with red cheek; flesh firm and good.
121673. No. 1181. **Marposhagunda.** Fruit round, 2 inches in diameter, golden yellow with red cheek; sweet, firm.
121674. No. 1182. **Karpoblo.** Fruit pale yellow with white flesh; seed sweet.
121675. No. 1183. **Bio.** Fruit yellow with red cheek, 1½ inches in diameter.
121676. No. 1184. **Oston.** Fruit almond-shaped, green with pale cheek; flesh white; a late variety.
121677. No. 1185. **Ribu Chuli.** Fruit round, yellow firm.
121678. No. 1186. **Starin.** Fruit round, golden yellow, firm, sweet, midseason.
121679. No. 1187. **Shagun.** Fruit said to be early.
121680. No. 1188. **Gurdalu Chuli.** An early variety.
121681. No. 1189. **Sobkur.** An early variety.
121682. No. 1190. **Asgub.** Fruit very large, seed bitter; said to be good.
121683. No. 1191. **Kachha Chuli.** An early variety.
121684. No. 1192. **Yakkha Chuli.** An early variety.
121685. No. 1193. **Khasar.** An early variety.
121686. No. 1194. **Ribu Chuli.** Fruit round, golden yellow with red cheek; flesh firm and good, like No. 1180 (P. I. 121652).
121687. No. 1195. **Kardaksha.** An early variety.
121688. No. 1196. **Apu.** An early sweet variety.
121689. No. 1197. **Wapuli.** An early variety.
121690. No. 1198. **Jimbata.** An early variety.
121691. No. 1199. **Arghonfa.** An early variety.
121692. No. 1200. **Halman.** A variety of No. 1272 (P. I. 121758). One of the types used for drying.
121693. No. 1201. **Margholam.** Fruit pale yellow, 2 inches in diameter; not used for drying, eaten fresh.
121694. No. 1202. **Khohalman.** Like the well-known Halman, but with bitter seeds.
121695. No. 1203. **Muldung.** An early variety.
121668 to 121775—Continued.

121708. No. 1204. Khoboo. An early variety, said to have bitter seeds.
121706. No. 1207. Lumsur. Fruits very poor; cultivated for the kernels.
121710. No. 1208. (No name.) An early variety with sweet seeds.
121713. No. 1213. Dosopa. No two trees of this variety have exactly the same sort of fruit.
121715. No. 1215. Sharakepoo. Said to be very good.
121718. No. 1218. Yakkir. Said to be like No. 1210 (P. I. 121711), but with bitter seeds.
121726. No. 1226. Karpo Chuli. A good variety to be eaten fresh.
121730. No. 1230. (No name.)
121732. No. 1232. Bla. Fruit round, deep yellow, 1½ inches in diameter, and sweet.
121733. No. 1233. Said to be a good early variety.
121734. No. 1245. Galbat. Fruit golden yellow, 2 inches in diameter, slightly compressed; used fresh.
121736. No. 1247. Biru. Said to be one of the best.

121668 to 121775—Continued.

121737. No. 1248. Chuil Karpo. Fruit oval, 2 inches in diameter, yellow with a faint cheek, sweet and one of the best to be eaten fresh.
121739. No. 1250. Karing Karpo. Fruit not seen, but name indicates white flesh.
121743. No. 1256. Shakanda. Fruit 1½ inches in diameter; golden yellow with a red cheek, sweet; used as dried fruit.
121744. No. 1257. Kappuk. Fruit 1½ inches in diameter, golden yellow with trace of cheek color; flesh firm and good.
121745. No. 1258. Karpo Shaganda. Fruit pale yellow, compressed and 2 inches high; slightly bitter, not sweet.
Nos. 121746 to 121760 were collected at Shigar, Baltistan Province, from August 18 to 20, 1936, at 6,500 feet altitude.
121746. No. 1259. Marshonp. Fruit 1½ inches in diameter, golden yellow with red cheek; flesh firm and sweet.
121747. No. 1261. Astakhal. Fruit 2 inches in diameter, yellow, with faint pink cheek; flesh watery, not dried, but good for eating fresh.
121749. No. 1263. Sita baa. Fruit 1½ inches in diameter, golden yellow with red base; flesh sweet and not too dry.
121750. No. 1264. Hangor. Fruit orange color, 2 inches in diameter; flesh firm and sweet.
121751. No. 1265. Jan. Fruit 1½ inches in diameter, golden yellow, used fresh.
121752. No. 1266. Ghulabi Chuli. Fruit 1½ inches in diameter, orange with red cheek; sweet, used fresh only.
121753. No. 1267. Bek. Fruit 2 inches in diameter, compressed; flesh yellow, watery, bitter, and never used dried.
121754. No. 1268. Khaban. Fruit 1½ inches in diameter, orange, with firm sweet flesh.
121755. No. 1269. Gurdal. Fruit kidney-shaped, 2 inches in diameter, bright yellow with pink cheek; used fresh.
121756. No. 1270. Pacha Kala. Fruit flattened, 1½ inches wide, golden yellow; used fresh.
121757. No. 1271. Karpo Shaganda. Fruit pale yellow with red cheek; flesh of fine texture with delicate flavor.
121758. No. 1272. Halman. Fruit 2 inches in diameter, orange with red cheek; flesh sweet and firm; one of the best.
121760. No. 1274. Fruit 2 inches in diameter, white with red cheek; flesh sweet, not firm.

From the United States Plant Introduction Garden, Chico, Calif. Seedlings grown at the garden; numbered in March 1937.


From the streets of the town. A dwarf perennial from Brazil.

ARACHIS GLABRATA Benth. Fabaceae.

No. 3990-A. Plants from Campo Grande, Matto Grosso, Brazil, September 9, 1936. Found in rich black earth in the streets of the town. A dwarf perennial with a glabrous ascending stem, oblong-elliptic leaves about one-half inch long, and small yellow flowers. Native to Brazil.

For previous introduction of seeds, see 118457.

ARACHIS sp. Fabaceae.

No. 3965. Roots from Campo Grande, eastern Matto Grosso, September 2, 1936. From the streets of the town.

ARACHIS MARGINATA Gardn.

No. 4429. Plants from the Posto Zootecnico, Tupacretan, Rio Grande do Sul, Brazil, November 11, 1936.

ARACHIS sp.

No. 4851. Along the road between Caacupe and Tobaty, Paraguay, January 2, 1937. Found in white sandy soil.

AGROPYRON spp. Poaceae.

121784 to 121789.

AGROPYRON BLONGATIUM (Link) Richt.

No. 149.

For previous introduction see 116253.

AGROPYRON sp.

No. 2. Received as "altaicum," for which a place of publication has not been found.

AGROPYRON CRISTATUS (L.) Gaertn. Crested wheatgrass.

No. 2. Received March 5, 1937.

AGROPYRON INTERMEDIUM (Host) Beauv.

No. 564.

AGROPYRON LONGIFOLIUM (Host) Beauv.

No. 2. Received March 5, 1937.

AGROPYRON TRICHOHOUM (Link) Richt.

No. 149.

For previous introduction see 116253.

DIUM (Host) Beauv.

No. 2. Received as "altaicum," for which a place of publication has not been found.
121794 to 121798—Continued.
121792. AGROPYRON sp.
  No. 513.
121793. AGROPYRON sp.
  No. 8.
121794. Triticum spelta × AGROPYRON glaucum.
121795. Triticum dicoccum farrum × AGROPYRON glaucum.
121796. Triticum durum × AGROPYRON glaucum.
121797. Triticum durum × AGROPYRON glaucum.
121798. Triticum aestivum ferdigenum × AGROPYRON glaucum.
121799. FRAGARIA CHILOENSIS (L.) Duchesne. Rosaceae. Chiloan strawberry. From Chile. Seeds presented through the FEAGAKIA CHILOENSIS 121799.
DU- (L.)
121800 to 121819—Continued.
121800 to 121819. Material collected by Walter Fernandez.
From India. Material collected by Walter Fernandez.
121806. No. 1747. From Bansmatti, Kathmandu. From the Director of Agriculture, Kashmir Province.
121811. No. 1748. From Leh, Ladak District, Kashmir Province. A fine-grained white rice.
121812. No. 1747. From Leh, Ladak District, Kashmir Province. A fine-grained white rice.
The young branches are bright reddish brown feet along the northeastern border of India, which grows at altitudes of 5,000 to 10,000 feet from Sweden. Seed presented by the Swedish State Seed Testing Station, Stockholm. Received March 9, 1937.

BETULAA CYMNDOSTACHYA Wall. Birch. From India. Seeds presented by the Range Officer, Takdah, Darjeeling District, North Bengal, at the request of Walter Koelz, Bureau of Plant Industry. Received March 10, 1937.

A Himalayan birch, 50 to 60 feet high, which grows at altitudes of 5,000 to 10,000 feet along the northeastern border of India. The young branches are bright reddish brown and the ovate, acuminate leaves, dull dark green above and bright green beneath, are 2½ to 5 inches long. The wood is red, hard, and heavy and seasons well.

For previous introduction see 60640.

212825 to 212998.

From India. Seed collected by Walter Koelz, Bureau of Plant Industry. Received February 18, 1937. This material was all collected in 1936.


121826 to 121831. Allium spp. Liliaceae. From India. Seed collected by Walter Koelz, Bureau of Plant Industry. Received February 18, 1937.


121827. No. 1370. Tsong. From Kumpuk, Baltistan, Kashmir, September 9, at 9,000 feet altitude. A white thin-skinned globe onion of mild flavor, which is not injured by freezing.


121829. No. 1668. Pyaz. From Kulu, Punjab, November 14, at 4,000 feet altitude. A mild red globe onion that is very pleasant to eat until mid-June, when it becomes strong; poor keeper.

121830. No. 1353. From Blodlang, Baltistan, Kashmir, at 9,500 feet altitude, September 3. An onion with fine round leaves 1 foot high, growing in clumps on a dry slope.

121831. No. 1413. Purchased at Leh, Ladak, Kashmir, September 16; originally from Yarkand. A strong onion, used to flavor soups.


121836. Allium sp. No. 1613. Ritsong. From Kolung, Ladul, Punjab, in August. An onion with flat leaves, wide and large heads of rose-purple flowers. Used for flavoring, also as an ornamental.

121837. Allium thomsoni Baker. No. 1356. From Sdongga, Baltistan, Kashmir, at 15,000 feet altitude. September 4. A Himalayan allium up to 2 feet high, with 4 to 5 fleshy linear leaves sheathing the lower third of a stout scape which bears a head, about an inch in diameter, of rose-purple flowers. Found growing in clumps on a dry slope.


121839 and 121840. Brassica campestris L. Rutabaga. No. 1535. Samson. From Kati, Kulu, Punjab, October 27. A variety planted for its oil-bearing seeds. The tough pungent roots are dried and used as food.


121841. No. 1699. A native variety with a very large white root.


121843 to 121847. Brassica Rapa L. Turnip.

121843. No. 1237. Mulu. From Skardo, Baltistan, Kashmir, August 16.


121847. No. 1707. Japanese Shogin. From the Director of Agriculture,
121825 to 121998—Continued.

Kashmir. A large white winter variety with tender edible tops.

Nos. 121848 to 121852 were from Leh, Ladak, Kashmir, at 10,500 feet altitude, September 16 and 17.

121848. **BRASSICA** sp.

No. 1441. **Tram.** A good potherb.

121849. **BRASSICA CAMPESTRIS** L. **Rutabaga.**

No. 1420. **Yarkanti Salat.** Originally from Yarkand. A bushy annual whose leaves are picked and used as a potherb.

121850. **BRASSICA** sp.

No. 1421. **Yarkandi Salat.** Like No. 1420 (P. I. 121849), but from plants matured at Leh.

121851. **BRASSICA CAMPESTRIS** L. **Rutabaga.**

No. 1436. **Salat.** An interesting potherb that grows after the fashion of Swiss chard.

121852. **BRASSICA** sp.

No. 1441. **Yarkandi Tram.** A good potherb.

121853. **BRASSICA** sp.

No. 1621. **Tramyung.** From Kolung, Lahul, Punjab, at 12,000 feet altitude, in October. A large top-shaped, orange-yellow root.

121854. **BRASSICA** sp.

No. 1696. **Karm Sag.** Presented by the Director of Agriculture, Kashmir. An excellent potherb which grows like brussels sprouts, without the sprouts. The leaves are picked and new ones formed as the plant continues to grow taller.

121855 to 121859. **CASCIFICUM ANNUUM** L. **Solanaeaceae.** Common redpepper.

121855. No. 1336. **Nirma.** From Sur-nio, Baltistan, Kashmir, at 6,000 feet altitude, August 28. A very pungent fruit, 1 inch across at base and 2 inches long.

121856. No. 1697. **Mirch.** Presented by the Director of Agriculture, Kashmir. A large white winter variety, long and very hot.

121857. No. 1706. **Cayenne Red.** Presented by the Director of Agriculture, Kashmir. A variety which produces well and is a good color.

121858. No. 1773. **Mirch.** From Kulu, Kula, Punjab, at 4,500 feet altitude, November 12. A red pungent variety with fruits 2 to 3 inches long.

121859. No. 1787. **Pipl.** From Mandi, Mandi, Punjab, November 21. Fruit red, 1½ inches long, and considered one of the most pungent varieties when grown in Mandi; planted in Kulu, it is said to lose much of this quality.

Nos. 121860 to 121911 were collected in Baltistan Province, Kashmir, from August 16 to 26.

121860 to 121876. **CITRULLUS VULGARIS** Schrad. **Cucurbitaceae.** Watermelon.

Nos. 121860 to 121863. **Buar.** From Skardo, at 6,500 feet altitude, August 16.

121866. No. 1305-A. **Buar.** From Kapalu, at 6,000 feet altitude, August 20.

121867. No. 1308. Fruit globose, 6 inches in diameter, light green with blotched stripes of darker green; flesh white, faintly sweet, firm and crisp.

121868. No. 1313. Fruit globose, 6 inches in diameter, pale green with traces of fine veining; flesh white, crisp, fair.

121869. No. 1314. Fruit globose, 3 inches in diameter, dark green, unmarked; flesh red, insipid.

121870. No. 1339. **Buar.** From Surmo at 6,000 feet altitude. Fruit globose, 10 inches in diameter, dark green, faintly blotched with paler green. Flesh red and sweet.

121871. No. 1341. Like 1339 (P. I. 121870) in appearance and quality, but with black seeds.

Nos. 121872 and 121873 were from Kapalu at 6,000 feet altitude.

121872. No. 1343. **Buar.** A variety with red flesh.

121873. No. 1332. **Usu Buar;** "mulberry watermelon."

Nos. 121874 and 121875 were from Leh, Ladak, September 16 and 17, at 10,500 feet altitude.

121874. No. 1419. Fruit globose, 10 inches in diameter, pale green, netted and spotted with darker green; flesh red, low in sugar content.

121875. No. 1424. Fruit not seen.

121876. No. 1439. **Buar.** From Kapalu, August 27 at 6,000 feet altitude.

121896. No. 1405—A. **Buar.** From Kapalu, at 6,000 feet altitude, August 20.

121897. No. 1308. Fruit globose, 6 inches in diameter, light green with blotched stripes of darker green; flesh white, faintly sweet, firm and crisp.

121898. No. 1313. Fruit globose, 6 inches in diameter, pale green with traces of fine veining; flesh white, crisp, fair.

121899. No. 1314. Fruit globose, 3 inches in diameter, dark green, unmarked; flesh red, insipid.

121900. No. 1339. **Buar.** From Surmo at 6,000 feet altitude. Fruit globose, 10 inches in diameter, dark green, faintly blotched with paler green. Flesh red and sweet.

121901. No. 1341. Like 1339 (P. I. 121870) in appearance and quality, but with black seeds.

Nos. 121872 and 121873 were from Kapalu at 6,000 feet altitude.
PLANT MATERIAL INTRODUCED

121825 to 121998—Continued.

121877 to 121909. CUCUMIS spp. Cucurbitaceae.

121877 to 121905. CUCUMIS SATIVUS L. Muskmelon.

121877. No. 1323. Ghon. From the Raja's garden at Kapalu at 6,000 feet altitude. Flesh white, coarse, and sweet; said to be from Yarkandi seed.

Nos. 121878 to 121888 were from Skardo at 6,500 feet altitude.

121878. No. 1137. Fruits from Ber Ghon.

121879. No. 1138. Fruits from Ghon.

121880. No. 1139. Fruits from Skardu at 6,500 feet altitude. Flesh thick, pale yellow, very sweet and agreeable; said to keep well; a casaba type.

121881. No. 1145. Fruit oval up to 1 foot long, smooth, unribbed, pale yellow with traces of green; flesh thick, pale yellow, very sweet and agreeable; said to keep well; a casaba type.

121882. No. 1149. Ston Ghon. Fruit oval, elongate, pale yellow, usually unmarked; flesh orange, a bit fibrous, but fragrant and well flavored.

121883. No. 1150. Naktrah. Fruit subglobose, dark green, 1 foot long, heavily netted; flesh thick, orange with very good flavor; Persian melon type.

121884. No. 1151. Fruit oval, 1 foot long, blotted dark green and orange, with traces of heavy veining; flesh orange, very good.

121885. No. 1157. Fruit oval, 1 foot long, furrowed, yellow; flesh green; casaba type, said to keep well.

121886. No. 1159. Sarda. Fruit very large. 18 inches long, heavily ribbed, smooth, green, mottled with orange.

121887. No. 1160. Ston Ghon. Fruit oval, 1 foot long, smooth but slightly furrowed, yellow; flesh green, not highly scented but sweet.

121888. No. 1161. Shegsmun. Fruit elongate, 1 foot long, faintly netted, green mottled with orange; flesh half green, half orange, very good.

121889. No. 1240. Ghon. From Saffura. Fruit 6 inches in diameter, slightly flattened, netted green and orange; flesh salmon or green, sweet.

121890. No. 1292. Ghon. From Shigar. Fruit elongate, 1 foot long, smooth, yellow; flesh white and sweet.

121891. No. 1293. Ghon. From Shigar. Fruit 8 inches in diameter, globose, faintly veined, mottled orange and green; flesh orange, sweet, no cavity.

Nos. 121892 to 121898 were from Kapalu, August 26 and 27 at 6,000 feet altitude. Ghon.

121892. No. 1307. Fruit globose, 3 inches in diameter, yellow, smooth, solid; flesh yellow to orange, sweet, not musky like the melons of southern India.

121893. No. 1309. Fruit elongate, 1 foot long, smooth, netted, orange yellow, faintly ribbed; flesh white, sweet, not musky.

121894. No. 1321. Fruit round, 4 inches in diameter, mottled orange and green, faintly netted; flesh thin, yellow, sweet.

121895. No. 1322. Fruit elliptical, 10 inches long, netted and ribbed, orange; flesh orange, sweet, good.

121896. No. 1324. Flesh orange, sweet; entire fruit not seen.

121897. No. 1325. Fruit oval, 14 inches long, green blotched with orange, faintly netted; flesh green, thick, sweet, very poor.

121898. No. 1350. Fruit smooth, unribbed, oval, 1 foot long, green flecked with orange; flesh orange or green, sweet, very good.

121899. No. 1335. G hon. From Surmo at 6,000 feet altitude. Fruit globular, 10 inches in diameter, smooth, netted, green and orange; flesh thin, sweet, green.

121900. No. 1340. G hon. From Surmo at 6,000 feet altitude. Fruit elongate, 1 foot long, green blotched orange, with trace of netting; flesh thick, salmon color, sweet and very fragrant.

121901. No. 1344. Ghon. Purchased at Kapalu August 28 at 6,000 feet altitude.

121902. No. 1345. Ghon. Purchased at Kapalu August 28 at 6,000 feet altitude. Said to be good.

Nos. 121903 to 121905 were presented by the Director of Agriculture, Kashmir.


121904. No. 1705. Shalabagh. A melon of fine flavor which is a good keeper.

121905. No. 1719. A native Kashmir melon of good quality; weight from 4 to 6 pounds.

121906 to 121909. CUCUMIS SATIVUS L. Cucumber.

121906. No. 1016. From Sofer at 5,000 feet altitude; found as a weed in fields; fruits green with blotch stripes of darker green.


121908. No. 1346. Bought at Kapalu, at 6,000 feet altitude.
121825 to 121838—Continued.

121909. No. 1692. Tar. Presented by the Director of Agriculture, Kashmir. Described as from 2 to 3 feet long, of good quality.

121910 to 121930. CUCURBITA spp. Cucurbitaceae.

121910 to 121916. CUCURBITA MAXIMA Duchesne. Squash. Presented by the Director of Agriculture, Kashmir. Said to be popular and sometimes to weigh 100 pounds.
121911. No. 1328. From Kapalu, at 6,000 feet altitude. Fruit 10 inches high, 18 inches across, ribbed, orange colored; flesh yellow, very good.
121912. No. 1629. Kadu. From Manail, Punjab, October 27. Fruit pale gray, of Hubbard squash form; flesh not sweet like our squash; weight 10 to 15 pounds.
121913. No. 1631. Kadu. From Kulu, Punjab, October 27. Fruit weighs 40 pounds, Hubbard squash form; orange-red with pale deep ribs; flesh not sweet, but the best of the Kulu squashes to eat.
121914. No. 1630. Kadu. From Manail, Punjab, October 27. Fruit red-orange like our Hubbard squash, but not sweet; up to 15 pounds in weight.
121915. No. 1633. From Kulu, Kulu, Punjab, October 27. Fruit white, smooth, elongate, pointed at both ends or more or less rounded. Flesh not sweet and 2 inches thick; weight up to 60 pounds.
121916. No. 1628. From Koti, Kulu, Punjab, October 27. A good vegetable.
121917 to 121929. CUCURBITA MOSCHATA Duchesne. Cushaw. 121917. No. 1788. From Jagendernaga, Mandi, Punjab, at 4,000 feet altitude, November 22. Fruit oval, 18 inches long, ribbed, green, veined and spotted with creamy buff; flesh sweet.
Nos. 121918 and 121919 were from Kulu, Punjab, October 29 and November 10, between 4,000 and 4,500 feet altitude.
121918. No. 1634. Kadu. From Kulu, Punjab, October 27. Fruit to 16 inches wide, flattened by nearly half, creamy buff with conspicuous ribs; flesh very sweet.
121919. No. 1775. Kadu. Seed purchased and said to represent a type so far not collected on this trip.
121920. No. 1636. Kadu. From Kastrain, Kulu, Punjab, October 31. A large fruit that looks like an Etampes pumpkin, smooth orange-red, 2 feet wide and 18 inches high, weighs up to 60 pounds.
121921 to 121929. CUCURBITA PEP0 L. Pumpkin.
Nos. 121921 to 121926. From the Baltistan Province, Kashmir, between 6,000 and 6,500 feet altitude, from August 14 to 27.

121925 to 121945—Continued.

121921. No. 1147. From Skandar. Fruit elongate to compressed, pale yellow; flesh not sweet; no fiber.
121922. No. 1284. Kadu. From Shigar. Fruit flattened, 7 inches across and 5 inches high, green and yellow mottled; flesh not sweet.
Nos. 121923 to 121926. From Kapalu.
121923. No. 1310. Kadu. Fruit elongate, 16 inches long, pale yellow, unribbed, and said to keep all winter when ripe; flesh not sweet, but a good vegetable.
121924. No. 1311. Kadu. Fruit elongate, 16 inches long, orange yellow, with stem or less rounded. This is the Gangeri of the lower Himalayas and resembles our summer squash.
121925. No. 1534. Gangeri. From Kulu. Kulu, Punjab, October 27. Fruit elongate, 18 inches long, green black, finely mottled with paler green, much like Nos. 1310 and 1311 (P. I. 121923 and 121924.)
121927. No. 1534. Gangeri. From Kulu. Kulu, Punjab, October 27. Fruit elongate, 18 inches long, green and gray green. Eaten stewed, but is not so sweet as our squash or Cushaw.
121929. No. 1632. Kadu. From Kulu, Kulu, Punjab, at 5,000 feet altitude, October 29. Fruit salmon pink. Hubbard squash form, weighs 4 pounds; flesh pink, 2 inches thick, not sweet.
121930. CUCURBITA sp. No. 1347. Bozan. A mixed sample bought at Kapalu, Baltistan, Kashmir, at 6,000 feet altitude, August 28.
121931 to 121933. DAUCUS CAROTA L. Apiaceae. Carrot.
121932. No. 1244. From Shigar, Baltistan, Kashmir, August 18. A plant 3 feet high, found growing wild.
121934. DOLICHOS LABLAB L. Fabaceae. Hyacinth-bean. No. 1883. Lateem. Presented by the Director of Agriculture, Kashmir. A climber, sometimes 10 feet high, with tender fleshy pods, some of which have a fine flavor.
121935 to 121947. LACTUCA spp. Cichorieae.
121935 to 121946. LACTUCA SATIVA L. Garden lettuce.
LAGENARIA LEUCANTHA  
August 23. A plant 3 feet high, with purple flowers. Found on a dry slope. Bordes, Baltistan, Kashmir, at 8,000 feet altitude. Purple flowers, used as a field border.

LACTUCA  
121941. *L. sp.*  
August 24. A plant 4 feet tall, found at the edge of a stream in the fir forest. Lahul, Punjab, at 11,000 feet altitude, October 27. An annual up to 6 feet high, used as a potherb when young.

121942. *L. sp.*  
Labad, Kashmir, at 9,000 feet altitude, August 25. A plant 3 feet high, with small yellow flower heads. Found at 9,000 feet altitude. A cultivated variety with upright leaves of good quality.

121943. *L. sp.*  
Kulu, Punjab, November 10, at 4,500 feet altitude. The seeds are used as food.

121944. *L. sp.*  
Kulu, Punjab, November 10, at 4,500 feet altitude. A smooth green and white gourd, sometimes over 2 feet long, with the neck somewhat bent at the tip. Eaten while immature.

121945. *L. sp.*  
Kulu, Punjab, November 10, at 4,500 feet altitude. A long-necked variety which weighs between 4 and 6 pounds; of good flavor.

121946. *L. sp.*  
From Kulu, Punjab, November 10, at 4,500 feet altitude. A long-necked variety used for dippers.

121947. *L. sp.*  
From Leh, Ladak, Kashmir, at 10,500 feet altitude, September 16. A variety which grows 7 feet high.

121948. *L. sp.*  
Kashmir, at 3,000 feet altitude, September 16. A bushy plant 18 inches high, with small yellow flower heads. Found on dry slopes.

121949. *L. sp.*  
Nos. 121942 and 121943. From Bajaura, Khyi. Presented by the Director of Agriculture, Kashmir. A globular variety which weighs between 4 and 6 pounds; of good flavor.

LENS ESCULENTA  
121950. No. 1698. *Gol Ghia.* Presented by the Director of Agriculture, Kashmir. A gourd 3 to 4 feet long, which weighs 6 to 8 pounds. Used as food while immature.

121951. No. 1681. *Lamb Ghi.* Presented by the Director of Agriculture, Kashmir. A gourd 3 to 4 feet long, which weighs 6 to 8 pounds. Used as food while immature.

121952. No. 1685. *Gol Ghia.* Presented by the Director of Agriculture, Kashmir. A globular variety which weighs between 4 and 6 pounds; of good flavor.


121958. No. 1163-A. From Skardo, Baltistan, August 28, at 6,500 feet altitude. A smooth green and white gourd, sometimes over 2 feet long, with the neck somewhat bent at the tip. Eaten while immature.

121959. No. 1702. A good strain adapted to cool climates, esteemed as a vegetable. Presented by the Director of Agriculture, Kashmir. A gourd 3 to 4 feet long, which weighs 6 to 8 pounds. Used as food while immature.

121960. No. 1708. A fine vegetable.

121961. No. 1698. A whitish vegetable of fine flavor.


121964. No. 1770. A mixed sample.


121966. No. 1163-A. From Skardo, Baltistan, August 16. A collection of garden beans; all are sown together.

121967. No. 1578. *Rong.* From Tinu, Lahul, Kashmir, in September, at 11,500 feet altitude. Probably of Indian origin. A globular variety which weighs between 4 and 6 pounds; of good flavor.


121969. No. 1641. From Koti. A mixed sample.

121970. No. 1640. From Koti. A mixed sample.

121971. No. 1642. From Katrain. One of the commonest types in India.

121972. No. 1643. From Katrain. One of the commonest types in India.


121975. No. 1770-A. From Kulu Province, Punjab, from November 1 to 10, between 4,500 and 9,000 feet altitude.

121976. No. 1640. From Koti. A mixed sample.

121977. No. 1641. From Koti. A mixed sample.

121978. No. 1642. From Katrain. One of the commonest types in India.

121979. No. 1643. From Katrain. One of the commonest types in India.


121982. No. 1770-B. From Kulu. A mixed sample.

121983. No. 1770-C. From Kulu. A mixed sample.

121984. No. 1770-D. From Kulu. A mixed sample.


121986. No. 1163-A. From Skardo, Baltistan, Kashmir, August 16. A collection of garden beans; all are sown together.

Cultivated beans.
121825 to 121828—Continued.

121971. No. 1770-E.

121972. No. 1770-F.


No. 1779. From Kulu, Kulu, Punjab, November 14, at 8,000 feet altitude. An adaptable spruce, commonly growing to a diameter of more than 6 feet.


121976 to 121979. PIsem SATIVUM L. Faba-ceae. No. 1709. Bengan. A round, black, native eggplant, growing to 3 pounds weight and maturing 8 weeks after planting. The flesh is crisp with few seeds. No. 1707. Bengan. A good purple variety, 12 inches long, which matures in 11 weeks. No. 1710. Presented by the Director of Agriculture, Kashmir. An early variety; slow to go to seed. No. 1712. Btngan. A round, black, native eggplant, growing to 3 pounds weight and maturing 8 weeks after planting. The flesh is crisp with few seeds. No. 1714. Bengan. A good purple variety, 12 inches long, which matures in 11 weeks. No. 1731. From the Director of Agriculture, Kashmir. A genus of tropical trees, closely related to Anacardium.


121979. No. 1656. Shrakkar. From Kolung, Lahul, Punjab, October 11, at 12,000 feet altitude. Used as food both fresh and dried.


121982. No. 1620. Labuk. From Kol ung, Lahul, Punjab, in October, at 12,000 feet altitude. A long white radish.


121984. No. 1711. A native black radish, 9 inches long and 5 inches in circumference, grown for winter use.


121986 to 121989. RHEUM spp. Polygonaceae. Rhubarb.

121986. RHEUM AUSTRALE Don.

No. 1731. From the Director of Agriculture, Kashmir.

121987. RHEUM sp.

No. 1363. From Brokdang Nulla, Baltistan, Kashmir, September 5, at 12,000 feet altitude. Plant dry, stalk 3 feet high; found at the edge of a dry watercourse.

121988. RHEUM sp. No. 1444. Artzo. From below Taklung Pass, Ladak, Kashmir, September 28, at 15,000 feet altitude. A low, cold-tolerant and drought-tolerant form with large leaves more than 1 foot long; will stand freezing every day all summer.

121989. RHEUM sp. No. 1518. From Kolung, Lahul, Punjab, August 15, at 11,000 feet altitude. A vigorous plant with edible petioles that under good conditions grow as large as those of our common rhubarb.

121990 to 121992. SOLANUM MELONGENA L. Solanaceae. Eggplant. Nos. 121990 to 121992 were presented by the Director of Agriculture, Kashmir.

121990. No. 1709. Bengan. A round, black, native eggplant, growing to 3 pounds weight and maturing 8 weeks after planting. The flesh is crisp with few seeds.

121991. No. 1712. Bengan. A native variety, purple, 9 inches long and of excellent flavor, which matures in 71/2 weeks.

121992. No. 1744. Bengan. A good purple variety, 12 inches long, which matures in 11 weeks.

121993. No. 1776. Shigotri. From Kulu, Punjab, November 10, at 4,500 feet altitude. A red-purple, elongate sort, to about 4 inches long; grown in the rainy season.

121994. SPINACIA OLERACEA L. Chenopodiaceae. Common spinach. No. 1710. Presented by the Director of Agriculture, Kashmir. An early variety; slow to go to seed.

121995 to 121997. VICIA FABA L. Fabaceae. Broadbean.

Varietles cultivated for the seed which is used as food.


121999. SEMECARPUS sp. Anacardiaceae.

122000. *AOACIA CYANOPHYLLA* Lindl. Mimosaceae. **Blueleaf acacia.**

From South Australia. Seeds presented by J. Howard Johnson, St. Peters. Received February 26, 1937.

For previous introduction see 48040.

### 122001 to 122033—Continued

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry. Received February 27, 1937.

This material was all collected in 1936.

#### 122001 to 122003. *ASTRAGALUS* sp. Fabaceae.

- **122001. ASTRAGALUS sp.** No. 1584. From Tinu, Lahul, Punjab, October 15, at 11,000 feet altitude. A perennial up to 5 feet in height, with attractive rose-purple flowers.
- **122002. ASTRAGALUS sp.** No. 1602. *Rangu-Guram Kyelang.* From Fukar, Lahul, Punjab, in August, at 2,000 feet altitude. White, or horse sugarcane. This name is applied to several species of *Astragalus* which grow 3 feet tall. They are more or less attractive ornamentals, and are all relished by horses.
- **122003. ASTRAGALUS sp.** No. 1446. *Tartagaon.* From Zinglungbar, Labul, Punjab, October 8, at 15,000 feet altitude. A perennial about 1 foot high, with woolly leaves and a large inflated pod.

### 122004 to 122009. *FAGOPYRUM BSETULUM* Moench. Polygonaceae. **Buckwheat.**

- **122004. No. 1542. Gangri.* From Bikri, Kulu, Punjab, October 31, at 6,000 feet altitude. Superior to the common Labul races and a good yielder.
- **122005. No. 1547. Ban brau.* From Kasar, at 11,000 feet altitude. A form of buckwheat that is raised chiefly in this locality; as it shatters easily it must be harvested before it is fully ripe.
- **122006. No. 1560. Mita bres.* From 13,000 feet altitude. The earliest of the four kinds of Lahul buckwheat, but it is the poorest yielding barley, perhaps because there are no honeybees.
- **122007. No. 1568. Drav.* From Kolung, Lahul, Punjab, October 10, at 12,000 feet altitude. A bitter variety, but the best yielder of all the Lahul buckwheats.
- **122008. No. 1570. Bostor.* From Jalma, Lahul, Punjab, October 17, at 9,000 feet altitude. The earliest of the buckwheats, maturing in 90 days, but of poor quality, with a heavy husk.
- **122009. No. 1627. Kattu.* From Kolt, Kulu, Punjab, October 27. A buckwheat 4 feet tall, much like the Lahul drav (P. I. 122007), but not quite so good.

### 122010 to 122021. *HORDEUM VULGARE* L. Poaceae. **Barley.**

- **122010. No. 1355. Nemas.* From Shigar, Baltistan, Kashmir, September 5, at 15,000 feet altitude. An early barley, 3½ feet high, with large heads, growing near the limit of cultivation.
- **122011. No. 1379. A fang ma.* From Karzong, Baltistan, Kashmir, September 18, at 15,000 feet altitude. Barley grown at the limit of cultivation.
- **122012. No. 1391. Yangma.* From Leh, Ladak, Kashmir, September 15, at 10,500 feet altitude. The earliest variety, maturing in about 90 days.
- **122014. No. 1406. Soshiro.* From Tiktae, Ladak, Kashmir, September 18, at 11,000 feet altitude. An early barley and the only husk barley grown in the vicinity.
- **122015. No. 1410. Yangnak.* Probably the same as No. 1391 (P. 1. 122012). An early-maturing variety.
- **122016. No. 1433. Shikro.* From Upshi, Ladak, Kashmir, September 24, at 13,000 feet altitude. A strain of barley grown near the cultivation limit.
- **122017. No. 1443. Shikro.* From Gya, Ladak, Kashmir, September 25, at 15,000 feet altitude. A strain of spring-huskless barley grown at the world's cultivation limit.
- **122018. No. 1549. Salzot.* From Kolung, Lahul, Punjab, October 16, at 12,000 feet altitude. A huskless barley, of good yield; considered the best in the valley.
- **122019. No. 1551. Sermo Ringwu.* From Kolung, Lahul, Punjab, October 12, at 12,000 feet altitude. One of the best barleys for yield and quality. Sown in May, harvested in September.
- **122020. No. 1555. Tangzo.* From Jalma, Lahul, Punjab, October 20, at 9,000 feet altitude. An early barley, but a poor yielder.
- **122021. No. 1558. Sermo Puom.* From Karup, Lahul, Punjab, October 11, at 12,000 feet altitude. One of the best yielding barleys; sown in May, harvested in September.

### 122022. *LOTUS* sp. Fabaceae.

- **122022. No. 1283. Buksup.* From Kargil, Baltistan, Kashmir, August 20; a cultivated variety.
- **122025. No. 1303. Buksup.* From Shigar, Baltistan, Kashmir, August 16; a cultivated variety.

### 122023 to 122029. *MELICAGO SATIVA* L. Fabaceae. **Alfalfa.**

- **122023. No. 1283. Buksup.* From Shigar, Baltistan, Kashmir, August 20; a cultivated variety.
- **122024. No. 1283-A. Buksup.* From Shigar, Baltistan, Kashmir, August 16; a cultivated variety.
- **122025. No. 1303. Buksup.* From Karup, Baltistan, Kashmir, August 25. A variety which grows between 4 and 5 feet high and gives two cuttings a season. The flowers are white, yellow, and purple.
- **122026. No. 1392. Yarkand.* From Leh, Ladak, Kashmir, September 17, at 10,500 feet altitude. A variety that grows 8 feet high, originally from Yarkand.**
From Argentina and Paraguay. Seeds and bulbs collected by W. A. Archer, Bureau of Plant Industry. Received February 17, 1937.

Unless otherwise mentioned, the material was received as seeds.

A D B E S M I A B I C O L O R (Poir.) DC. Fabaceae.

No. 4668. From the Jardín Botánico de la Facultad de Agronomía, Buenos Aires, Argentina, November 27, 1936. An erect or prostrate legume with yellow flowers. Native to South America, where it is used as a forage plant.


No. 4946. From the Jardín Botánico, Santísima Trinidad, Paraguay, January 9, 1937.

For previous introduction see 114861.

H O R D E U M sp. Poaceae.


No. 4923. From the Jardín Botánico, Santísima Trinidad, Paraguay, January 6, 1937. An ornamental evergreen woody climber with decussate, leathery leaves and racemes of 6 to 8 erect cymules, more or less 2-lipped, yellow flowers. Native to southern Brazil.

C O C O S sp. Phoenicaceae. 

No. 4919. From the Jardín Botánico, Santísima Trinidad, Paraguay, January 6, 1937.


No. 4942. From Campo Grande near Jardín Botánico, Santísima Trinidad, Paraguay, January 9, 1937.

For previous introduction and description see 118823.


No. 4850. Along the road between Caacupé and Tobatí, Paraguay, January 2, 1937. A slender herbaceous climber about 3 feet long, with ovate-cordate leaves 2 to 3 inches long and small yellow flowers, solitary in the leaf axis. Native to Brazil.

P A S S I F L O R A P A S S I F L O R A C E A E.

No. 4924. Typpchá Córdó. Purchased in the market at Asunción, Paraguay, January 4, 1837. A glabrous annual 1 to 3 feet high. 

For previous introduction see 110194.

Z E A M A Y S L. Poaceae. Corn.

No. 4877. From Caacupé, Paraguay, January 1, 1937. Cultivated corn.


No. 5022. From the Jardín Botánico, Santísima Trinidad, Paraguay, January 9, 1937. A glabrous annual 1 to 3 feet high.


No. 4913. From Jardín Botánico, Santísima Trinidad, Paraguay, January 6, 1937.

For previous introduction see 111478.

K A T T A L A D S A L. Caesalpiniaceae. 

No. 5023. From the Jardín Botánico, Santísima Trinidad, Paraguay, January 9, 1937. 


No. 4914. From the Jardín Botánico, Santísima Trinidad, Paraguay, January 6, 1937.


No. 4926. From the Jardín Botánico, Santísima Trinidad, Paraguay, January 6, 1937.

C O R T I C H E C T Y S L. Poaceae. Stipa.

No. 4915. From the Jardín Botánico, Santísima Trinidad, Paraguay, January 6, 1937.
122048 to 122152—Continued


No. 1964. Obtained at Darjeeling, but grown in adjacent highlands at 14,000 feet altitude. The entire lanceolate leaves are 2 to 3 inches long, and the solitary blue to blue-purple flower heads are 1 to 3 inches across.

For previous introduction see 99719.

122066. Asterastrachyi Hook. f.

No. 2003. A dwarf, nearly stemless aster with radical obovate-spatulate leaves about 1 inch long and pale lilac-blue solitary flower heads about three-


No. 2054. Aconitum peregrinum Wall. A perennial herb with simple erect stems 2 to 3 feet high, native to the alpine slopes of the Himalayas in India. The entire lanceolate leaves are 2 to 3 inches across, and the solitary blue to blue-purple flower heads are 1 to 3 inches across.

For previous introduction see 99719.
122048 to 122152—Continued
fourths of an inch in diameter. Native to
the western Himalayas at altitudes of
12,000 to 16,500 feet.
122067. ASTER TRICIFOLIUS Clarke.
No. 16. A small vigorous subtropical
herbaceous perennial with reddish
flower heads. Native to Sikkim, India.
For previous introduction see 99653.
122068. ASTILBE RIVULARIS Buch.-Ham.
Saxifragaceae.
No. 2006. Obtained at Darjeeling, but
grown in Sikkim at 9,000 feet altitude.
For previous introduction see 48581.
122069. BETULA sp. Betulaceae.
No. 2042. Grown in Tibet at 13,000
feet altitude. An ornamental birch re-
ceived under the name "balsamifera," for
which a place of publication has not been
found.
122070. BERBERIS UMBELLATA Wall. Ber-
berridaceae.
No. 1994. A hardy, half-evergreen shrub,
native to the Himalayas, about 3 feet high,
with reddish-brown grooved branchlets,
leathery, oblong or obovate-oblong leaves
1½ to 2 inches long. Native to Nepal.
122071. BERBERIS sp. Berberidaceae.
No. 1930. Plants 6 feet high, found
along a stream at 7,000 feet altitude near
Darjeeling, Bengal.
122077 to 122080. COTONEASTER spp. Malac-
cene.
122077. COTONEASTER sp.
No. 2013. Grown in Tibet at 13,000
feet altitude.
122081. CRAWFURDIA sp. Gentianaceae.
No. 1926. A white-flowered perennial
2 to 3 feet high, grown at 12,000 feet alti-
tude in Sikkim.
122082. CYNANCHUM VINCETOXICUM A.
DC. Boraginaceae.
No. 1960. Grown at nearly 12,000 feet
altitude. A hardy perennial with small
blue flowers in long open one-sided spikes
and stems 1½ to 2 feet high. Native to
India.
122083. CYNANCHUM VINCENTOXICUM (L.)
Pers. Asclepiadaceae.
No. 2026. A white-flowered perennial
2 to 3 feet high, grown at 12,000 feet alti-
tude in Sikkim.
122084. CYNOGLOSSUM DENTICULATUM A.
DC. Boraginaceae.
No. 2047. Grown in Tibet at 13,000
feet altitude. A low perennial, native to
the temperate slopes of the Himalayas in
India. The lanceolate leaves are 4 to 9
inches long, and the small white funnel-
shaped flowers are borne in a loose raceme
on a scape 1 to 2 feet high.
For previous introduction see 104368.
122085. DATURA ARBOREA L. Solanaceae.
Floripondio.
No. 1937. A shrub or small tree, with
ovate-lanceolate leaves and large trumpet-
shaped, greenish-white, fragrant flowers.
Native to Peru and Chile.
For previous introduction see 110925.
122086. DELPHINIUM VESTITUM Wall. Ra-
nunculaceae.
Larkspur.
No. 1946. An annual calceolaria about
18 inches high, with pinnate leaves and
attractive yellow flowers about one-half
inch long. Native to Ecuador.
122087. DEUTZIA CORYMBOSA R. Br.
Caprifoliaceae.
No. 1994. A deutzia with pure-white
flowers. Native to Peru and Chile.
For previous introduction see 110925.
122088. DICHROSTACHYS CARYOPHYLLACEA
Myrtaceae.
No. 1825. From the Government gar-
ner, Saharanpur, United Provinces.
122090. ERISECHIA CRAYMI-JOBI L. Poaceae.
Juncaceae.
No. 1930. Plants 6 feet high, found
along a stream at 7,000 feet altitude near
Darjeeling, Bengal.
122077 to 122080. COTONEASTER spp. Malac-
cene.
122077. COTONEASTER sp.
No. 2013. Grown in Tibet at 13,000
feet altitude.
of the California privet (Ligustrum ovalifolium). The obscure leathery leaves are about 1 inches long, and the small white flowers are in panicles 1 to 5 inches long.

For previous introduction see 116594.


122105. LOBELIA sp. Campanulaceae. No. 2043. From 12,000 feet altitude in the Sikkim Highlands. Received as Lobelia eremicola, an invalid name.


122107 to 122109. MECONOPSIS spp. Papaveraceae. Native to the Sikkim Himalayas between 10,000 and 12,000 feet altitude.

122108. MECONOPSIS SINUATA Prain. No. 2031. An annual 1 to 2 feet high, with irregularly lobed, sparsely prickly leaves and blue flowers 2 to 3 inches in diameter.

122112. MOMORDICA CHABANTIA L. Cucurbitaceae. No. 1967. A woody, thickly pubescent, Himalayan plant with very copious axillary and terminal racemes of pale pink or lavender flowers.

For previous introduction see 116598.

122111. MICHELIA EXCELSA Blume. Magnoliaceae. No. 1971. A tall tree, native to the temperate Himalayas of northeastern India between 5,000 and 6,000 feet altitude. The long narrow leaves are silky, brown beneath, and the handsome white flowers are from 4 to 5 inches across.

For previous introduction see 116602.


122113. OSBECKIA NEPALEN SIS Hook. Melastomaceae. No. 2051. An evergreen shrub, native to the Himalayas, with a rough erect stem 18 inches high, opposite, lanceolate, rigid leaves, and large purplish-rose flowers in terminal and axillary panicles or corymbs.

For previous introduction see 47744.
An attractive spreading shrub up to 6 feet high, with broad-lanceolate leaves about 4 inches long and showy purple flowers about 2 inches across and 1 to 5 in a cluster. Native to the East Indies.

No. 2041. No. 2074. From Siliguri, Bengal, December 29, 1936.

No. 2007. Grown in the Sikkim Himalayas at 9,000 feet altitude.

No. 2062. A large epiphytic evergreen shrub, native to the Sikkim Himalayas at altitudes of 6,000 to 8,000 feet. The ob lanceolate to ovate, obtuse leaves, 2 to 6 inches long, are scaly and papillose beneath. The funnel-shaped, fragrant, white flowers, tinged with rose outside, are 3 to 4 inches long with five broad lobes.

No. 1974. An Indian cherry, native to the temperate slopes of the Himalayas, with sharply serrate, lanceolate leaves 3 to 5 inches long, umbels of pendulous, campanulate, rosy-red to white flowers, and red fruits half an inch long with scanty red or yellowish acid flesh.

For previous introduction see 77594.

No. 2059. Received under the name "umbellatum," for which a place of publication has not been found.

No. 2064.
PLANT MATERIAL INTRODUCED

122048 to 122152—Continued

122133. Rosa sp.
No. 1976. From 12,000 feet altitude in nearby highlands.

122134. Sambucus Ebulus L. Caprifoliaceae.
No. 1973. Received under the name "odorata," for which a place of publication has not been found.


122136. Saxifraga diversifolia Wall. Saxifragaceae.
No. 1992. For previous introduction see 111089.

No. 1983. Native to the Himalayas, with a woody stem and climbing habit. The yellow flower heads are in few-flowered, loose, panicellike clusters.

122138. Senecio sp. Asteraceae.

122139. Smilax ferox Wall. Smilacaceae.
No. 1984. A tall evergreen tree, related to Magnolia, with obovate-oblong leaves about 8 inches long and large fragrant flowers with white petals and purple calyx. Native to the Sikkim Himalayas between 4,000 and 5,000 feet altitude.

122140. Thalictrum foliolatum DC. Ranunculaceae.
No. 1985. A large evergreen shrub with elliptic-lanceolate leaves about 3 inches long and cymes of few small rose-colored flowers followed by purple-black drupes. Native to the Himalayas at altitudes of 10,000 to 13,000 feet.

122141. Thalictrum foliolatum DC. Ranunculaceae.
No. 1986. A handsome perennial with an abundance of fragrant white flowers.

122142. Thalictrum foliolatum DC. Ranunculaceae.
No. 1987. A slender-trunked, fan-leaved palm from the temperate regions of the Himalayas, where it grows to a height of 20 to 30 feet. The unarmed trunk bears at its summit a crown of rigid leathery roundish leaves 4 to 5 feet in diameter, which are cut about half way down into narrow 2-lobed segments. The yellow flowers, followed by blue fruits, are borne on a nodding spadix about a foot long.

122143. Trachyspermum sp. Apaceae.
No. 1988. For previous introduction see 90754.

No. 1989. A slender-trunked, fan-leaved palm from the temperate regions of the Himalayas, where it grows to a height of 20 to 30 feet. The unarmed trunk bears at its summit a crown of rigid leathery roundish leaves 4 to 5 feet in diameter, which are cut about half way down into narrow 2-lobed segments. The yellow flowers, followed by blue fruits, are borne on a nodding spadix about a foot long.

122145. Thalictrum cheilodii DC. Ranunculaceae. Meadow rue.
No. 2001. A handsome perennial 15 inches high, with pale-green foliage, pubescent beneath. The delicate silvery lavender flowers, over 1 inch across, are borne in graceful sprays. Native to the temperate Himalayas at altitudes between 5,000 and 12,000 feet.

122146. Thalictrum foliolatum DC. Ranunculaceae. Meadow rue.
No. 2002. A tree often 40 feet high, covered in the fall with small red berries. Native to the temperate slopes of the Himalayas at altitudes of 5,000 to 8,000 feet.

122147. Thalictrum foliolatum DC. Ranunculaceae. Meadow rue.
No. 2003. A stiff erect perennial, 4 to 8 feet high, native to the temperate slopes of the Himalayas at altitudes of 5,000 to 8,000 feet. The pinnately compound leaves are made up of orbicular leaflets less than 1 inch across, and the white, pale-green, or dull-purple flowers are in much-branched panicles.

122148. Trichosanthes sp. Cucurbitacae.
No. 1990. An attractive fall-flowering vine with orange to madder-red globose fruits, 6 inches in diameter.

122149. Vipsurnum stellulatum Wall. Caprifoliaceae.
No. 1991. For previous introduction see 111090.

122150. Viburnum nervosum D. Don. Caprifoliaceae.
No. 1992. A large shrub or small tree with elliptic-oblong, shiny green leaves about 3 inches long and small red berries. Native to the Sikkim Himalayas.

122151. Viburnum nervosum D. Don. Caprifoliaceae.
No. 1993. A tree often 40 feet high, covered in the fall with small red fruits.

122152. (Undetermined.)
No. 2071. A scandent perennial up to 25 feet high, covered in the fall with small red fruits.

From Argentina and Uruguay. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received February 25, 1937.

No. 5005. From Cordoba, Argentina. Presented by Dr. L. R. Farodi, of the Fac-
122153 to 122156—Continued

ultad de Agronomia, Buenos Aires, in December 1936. A cucurbit related to the
cushaw (Cucurbita moschata). The obovo
void fruits, about 8 inches long, are marked
with white and yellow. Native to Uruga

122154. MEDICAGO DISCIFORMIS DC. Fabace
ce. Medick.

No. 4957. From Puerto Colonia, Uruga

ay, January 18, 1937.

For previous introduction see 90014.

122155. PAPAYLUM PICTATUM ARENARIUM

Arecav. Poaceae.

No. 4953. From Puerto Colonia, Uruga

uy, January 17, 1937. A perennal grass,
native to South America, used as a binder
on sand dunes.

122156. SPARTIUM JUNCTUM L. Fabaceae. Sp

bush when grown in the open and is
covered with light-yellow flowers.

For previous introduction see 110151.

122157 to 122206.

From India. Seeds collected by Walter Koelz,
Bureau of Plant Industry. Received Feb-
ruary 26, 1937.

This material was all collected in 1936,
unless otherwise mentioned.

122157. ALLIUM SP. Liliaceae. Onion.

No. 1348. From Pranu, Baltistan, Kash
mir, September 1, at 8,000 feet altitude.
Found growing in a field; an onion with
rather fragrant white flowers one-half inch
across.

122158 to 122165. AMYGDALUS SP. Amygd
alaceae.

122158. AMYGDALUS COMMUNIS L. Almond.

No. 1288. Badam. From Skardo, Baltistan, Kash
mir, August 17, The best variety grown in this district.

122159 to 122165. AMYGDALUS PEPSICA L. Pea
ch.

122159. No. 1249. Tabushu. From Skardo, Baltistan, Kash
mir, August 18. A small tree said to live about 10
years. Fruit deep yellow with pink cheek, freestone, 2 inches in
diameter; flesh white, rather wa
tery.

122160. No. 1316. From Kapalu, Bal
tistan, Kashmir, August 26, at 6,000
feet altitude. Fruit greenish yel
low with faint pink cheek, quin
shaped, freestone; flesh white, sweet, and of good flavor.

122161. No. 1319. From Kapalu, Bal
tistan, Kashmir, August 26, at 6,000
feet altitude. Fruit greenish yel
low, freestone; flesh greenish yel
low, coarse.

122162. No. 1329. From Kapalu, Bal
tistan, Kashmir, August 26, at 6,000
feet altitude. Fruit greenish yel
low with trace of pink on cheek, 2½ inches in diameter, freestone; flesh yellow, very good flavor.

122163. No. 1342. From Marcha, Bal
tistan, Kashmir, August 29, at 6,000
feet altitude. Fruit yellowish green,

122157 to 122206—Continued

freestone, 2 inches in diameter; flesh
yellow, sweet, of good flavor. Tree
said to reach great age and size.

122164 and 122165. From Bandrole, Kulu, Punjab, November 14, at 6,000
feet altitude. Fruit small, white, and not of much account, but the large attractive tree is used as stock.

122164. No. 1657.


No. 1528. Kubendi. From Darjeeling, Bengal, December 23. Fruit elongate, 14
by 8 inches. Used for confections and also as a vegetable.


No. 1908. From Benares, United Prov
inces, December 24.

122168. CORIOLUS COLUNIA L. Betulaceae. Tree hazelnut.

No. 1644. Collected by the Seraj Forest Department in the Seraj Forest, Kulu, Pun
jab, between 7,000 and 8,000 feet altitude.
Trees up to about 4 feet in diameter, well
formed and attractive.

122169. CORIOLUS COLUNIA L. Betulaceae. Tree hazelnut.

No. 1778. Shiori. Seeds collected by the Forest Department of Kulu Division, Pun
jab. A large tree growing from 7,000
to 9,000 feet altitude.

122170. CUCURBITA PEPO L. Cucurbitaceae. Pumpkin.

No. 1399. Rphon. From Leh, Ladak, Kashmir, September 16, at 10,000 feet altit
ude. A mixed sample.

122171. FRAGARIA SP. Rosaceae.

No. 834. From Koti, Kulu, Punjab, June
4, at 8,000 feet altitude. Fruits one-half
inch in diameter, crimson, well-flavored, but a sly bearer.

122172. JUGLANS REGIA L. Juglandaceae. Persian walnut.

No. 1659. Akrot. From Rupi, Kulu,
Punjab, November 14, at 6,000 feet altitude.
A good thin-shelled walnut, of which there are many types in the Kulu Valley.

122173. JUGLANS REGIA L. Juglandaceae. Persian walnut.

No. 1629. Akrot. From Rahla, Kulu,
Punjab, at 10,000 feet altitude. A large forest tree, with a trunk up to 6 feet or
more in circumference.


No. 2108. Louki. From Calcula, Jan
uary 3, 1937. A long sweet gourd.

122175. PISUM SATIVUM L. Fabaceae. Pea.

No. 1931. Darjeeling, Bengal, December 24, at 7,000 feet altitude. Purchased in the market.

122176 to 122182. MORUS SP. Moraceae.

Mulberry.

From Skardo, Baltistan, Kashmir, Au

122176 to 122180. MORUS ALBA L. White mulberry.

From Skardo, Baltistan, Kashmir, Au

122177 to 122180. MORUS ALBA L. White mulberry.
PLANT MATERIAL INTRODUCED

122157 to 122206—Continued


122178. No. 1169-A. *Shahtut.* A sweet lavender variety.


122181. *Morus nigra* L. Black mulberry.

No. 1158. Fruit 1 inch long, sweet, late, very good.


No. 1435. From Shigar. Baltistan, Kashmir, August 10, at 11,000 feet altitude. A deciduous tree 50 to 60 feet high, native to the Himalayan region up to 10,000 feet altitude. The cylindrical racemes of small white flowers are followed by round red fruits, one-third of an inch in diameter, which become dark purple. Closely allied to *Prunus padus.*


No. 1513. *Romentok.* From Tinu, Lahul, Punjab, September 16. An ascending or erect perennial, 2 to 3 feet high, growing in clumps and branching from the roots, with silvery digitate leaves and dark crimson, mahogany, or orange flowers three-fourths to over an inch in diameter. Native to the temperate Himalayas at altitudes of 6,000 to 12,000 feet.

122185 to 122195. *Prunus* spp. *Amygdalaceae.*

122186 and 122186. *Prunus armeniaca* L. *Apricot.*

From Shigar, Baltistan, Kashmir, August 16 and 20.


122188. No. 1291. Fruit round, red,ish yellow, 1% inches in diameter; flesh sweet, liquid.

122189. No. 1260. Fruit round, greenish yellow, 1½ inches in diameter; flesh sweet, liquid.

122190. *Prunus serotina* L. *Sour cherry.*

No. 1435. From Shigar, Baltistan, Kashmir, August 19. A cherry much like our Montmorency in size, appearance, and taste, but the tree is less bushy.

122191. No. 1320. From Tinu, Lahul, Punjab, September 26, at 6,000 feet altitude. An attractive tree with curly bark on trunk and branches; fruit hairy, red, three-fourths of an inch in diameter, pleasant flavor.

122192. No. 1281. *Shogun.* From Kolung, Pilit se. For previous introduction see 58639.

122193. No. 1326. From Shigar, Baltistan, Kashmir, August 26, at 6,000 feet altitude. A low shrub to 2 feet high, with small red fruits. Found in dry situations; fruits sparingly.

122194. No. 1329. *Shogun.* From Kapalu, Baltistan, Kashmir, August 26, at 6,000 feet altitude. Tree small, attractive with curly bark on trunk and branches; fruit very pale pink, edible.

122195. *Prunus* sp.

No. 1512. From Tinu, Lahul, Punjab, October 10, at 11,000 feet altitude. A low shrub to 2 feet high, with small red fruits. Found in dry situations; fruits sparingly.


No. 1457. *Nyanka.* From the upper Bhaga Valley, Lahul, Punjab, October 8, at 11,000 feet altitude. A well-formed dense shrub up to 5 feet high, found on dry slopes; fruit yellow to orange yellow, sweet, less than half an inch in diameter.

For previous introduction see 58639.

122198. *Ribes cerasus* L. *Sour cherry.*

No. 1458. *Pititse.* From Kolung, Lahul, Punjab, October 10 at 12,000 feet altitude. Bush dense, well formed, up to 6 feet high; fruit orange, hispate, pleasantly but strongly acid, much like a gooseberry. Used here as we use lemons or oranges.

122199. *Ribes rubrum* L. *Current.*

122200. *Ribes* sp.

No. 1114. From above Sodpur, Baltistan, Kashmir, August 10, at 12,000 feet altitude. Bush spreading, up to 4 feet high; fruit one-half inch in diameter, reddish black, fragrant; flavor pleasant, but slightly acid; seeds small.

122157 to 122206—Continued


122191. No. 1280. *Shogun.* From Shigar, Baltistan, Kashmir, August 20. An attractive small tree with curling bark; fruit very pale pink, hairy, not so good to eat as the red variety.

122192. No. 1281. *Shogun.* From Shigar, Baltistan, Kashmir, August 20, at 6,500 feet altitude. An attractive tree with curly bark; fruits red, hairy, one-half inch in diameter, pleasant to eat.

122193. No. 1320. *Shogun.* From Kapalu, Baltistan, Kashmir, August 26, at 6,000 feet altitude. An attractive tree with curly bark on trunk and branches; fruit red, three-fourths of an inch in diameter, pleasant flavor.

122194. No. 1329. *Shogun.* From Kapalu, Baltistan, Kashmir, August 26, at 6,000 feet altitude. Tree small, attractive with curly bark on trunk and branches; fruit very pale pink, edible.

122195. *Prunus* sp.

No. 1512. From Tinu, Lahul, Punjab, October 10, at 11,000 feet altitude. A low shrub to 2 feet high, with small red fruits. Found in dry situations; fruits sparingly.


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122199. *Ribes rubrum* L. *Current.*

122200. *Ribes* sp.

No. 1114. From above Sodpur, Baltistan, Kashmir, August 10, at 12,000 feet altitude. Bush spreading, up to 4 feet high; fruit one-half inch in diameter, reddish black, fragrant; flavor pleasant, but slightly acid; seeds small.
From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 21, 1937.

This material was all collected in the summer and autumn of 1936.

122207. ACANTHUS sp. Acanthaceae.
No. 3437. From Alma Dag, June 28.

122208. ADONIS sp. Ranunculaceae.

122209. ADONIS sp. Ranunculaceae.

122210. ANCHUSA AZUBEA Mill. Boraginaceae.
No. 2397. From Ankara, June 25. Flowers light blue with white center.

122211 to 122214. ALLIUM spp. Liliaceae.

122211. ALLIUM sp.
No. 1568. From 40 km. southeast of Deyarbekir, July 7. Low plants with pink to lavender flowers.

122212. ALLIUM sp.
No. 1584. From 40 km. southeast of Deyarbekir, July 7. Tall plants with large heads of white flowers.

122213. ALLIUM sp.
No. 2684. From the Kutahya bazar, September 28. Grown for the extra large purplish flower heads.

122214. ALLIUM sp.
No. 1249. CHERAGATE. From the Bursa bazar, June 18.

122205. VITIS VINIFERA L. Vitaceae. European grape.
No. 1369. From Surmo, Baltistan, Kashmir, August 28, at 9,000 feet altitude. Fruits blackish, elliptical, about 1 inch long, bunches large, 1 foot long; seed coats in most fruits so thin as to give the impression of the fruits being seedless.

122206. VITIS sp. Vitaceae. Grape.

From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 21, 1937.

For previous introduction see 109035.

122227. ASPARAGUS sp. Convallariaceae.
No. 3488. From between Haydarpaşa and Shile, October 25. An evergreen shrub with large glossy-green leaves and abundant clusters of white or pale-pink flowers in October; fruits bright red, three-fourths to 1 inch in diameter, maturing the following fall. A very attractive shrub, common in the hills and mountains of western Turkey.

122228. ASPARAGUS sp. Convallariaceae.
No. 2826. From Yalova Kaplidjalar, August 11. A prickly, woody variety.
**PLANT MATERIAL INTRODUCED**

122207 to 122413—Continued

122230. **BEGONIA SEMPERFLORENS** Link and Otto. Begoniaceae.

No. 1275. From the Bursa bazar, June 18. A low bushy succulent begonia with ovate leaves and few-flowered axillary clusters of white or rose-colored flowers. Native to Brazil.

122231. **BEGONIA TUBEROUSA** Lam. Begoniaceae.

No. 1263. From the Bursa bazar, June 18. A herbaceous perennial about 6 inches high, with white flowers. Native to the East Indies.

122232. **BERBERIS sp.** Berberidaceae, Barberry.

No. 2316. From 24 km. north of Gemushane, August 10. A large shrub with red fruits.

122233. **BERBERIS sp.** Berberidaceae.

No. 2414. From 29 km. west of Rize, August 13. A barberry with small red berries in clusters.


122234. No. 2379. From the Trabzon bazar, August 11. Sugar beets.


122236. No. 3168. Sugar beets from the Kastamonu bazar, October 14.

122237 to 122247. **CAMPANULA spp.** Campanulaceae.

122237. **CAMPANULA sp.**

No. 1302. Tall bluebells from the hills 30 km. east of Bursa, June 19.

122238. **CAMPANULA sp.**

No. 1755. Bluebells from 30 km. southeast of Elaziz, July 13.

122239. **CAMPANULA sp.**

No. 1078. From Bergama, June 10.

122240. **CAMPANULA sp.**

No. 1117. From near Kirkagach, June 11.

122241. **CAMPANULA sp.**

No. 1141. From walls in the ruins of Ephesus, June 12.

122242. **CAMPANULA sp.**

No. 1269. From the Bursa bazar, June 18.

122243. **CAMPANULA sp.**

No. 2382. From 60 km. south of Trabzon, August 10. A variety with very large clusters of beautiful blue flowers.

122244. **CAMPANULA sp.**

No. 2319. From 76 km. north of Gemushane, August 10.

122245. **CAMPANULA sp.**

No. 2457. From 60 km. south of Trabzon, August 10. A variety with large clusters of blue flowers.

122246. **CAMPANULA sp.**

No. 2473. From 75 km. south of Giresun, August 17. A variety with large clusters of blue flowers.

122247. **CAMPANULA sp.**

No. 2486. From 40 km. south of Giresun, August 18. A large plant with light and dark-blue flowers in clusters.

122248. **MENTHA PULEGIO** L. Menthaceae.


122249. **CAMPANULA sp.** Campanulaceae.

No. 2979. From the ruined walls of Ephesus, September 25. A perennial with large pale-blue flowers.

122250. **CENTAUREA sp.** Asteraceae.


122251. **CENTAUREA sp.** Asteraceae.

No. 770. From near Denizli, May 31.

122252. **CHENOPODIUM sp.** Chenopodiaceae.

No. 2850. From Yalova Kaplijalari, September 12.

122253. **COCHLEARIA sp.** Brassicaceae.

No. 2443. From the Cilician Gates, July 24.

122254. **CHRYSANTHEMUM CORONARIUM** L. Asteraceae. Crowndaisy.

No. 634. From near Koshadas, May 25. An edible chrysantheum, the leaves of which are used as a garnish, as flavoring, and also cooked as greens.

For previous introduction see 113325.


No. 725. From the mountains 30 km. southeast of Mugla, June 28. A wild chrysantheum with yellow flower heads.

122256. **ANTHEMIS sp.** Asteraceae.

No. 2792. From Ulu Dag at 7,000 feet altitude, September 9. An alpine daisy.

122257 to 122262. **CLEMATIS spp.** Ranunculaceae.

122257. **CLEMATIS sp.**

No. 1185. From the hills 35 km. west of Balikesir, June 16. A variety with purple flowers.

122258. **CLEMATIS sp.**

No. 1297. From 43 km. east of Bursa, June 19.

122259. **CLEMATIS sp.**

No. 1298. From 40 km. east of Bursa, June 19.

122260. **CLEMATIS sp.**

No. 2319. From 76 km. north of Gemushane, August 10.

122261. **CLEMATIS sp.**

No. 2500. From 35 km. east of Ordu, August 19. A blue and purple variety.

122262. **CLEMATIS sp.**

No. 2723. From Urgup, August 28. A variety with yellow flowers.

122263. **CLEOME sp.** Capparidaceae.

No. 1185. From the hills 35 km. west of Balikesir, June 16. A variety with purple flowers.
JANUARY 1 TO MARCH 31, 1937

122207 to 122413—Continued

122207 to 122213. CONVOLVULUS spp. Convolvulaceae.

122224. CONVOLVULUS sp.
No. 1509. From 25 km. east of Gaziantep, July 5. Pink flowers, growing in clumps.

122225. CONVOLVULUS HIRSUTUS Stev.
No. 1379. From 5 km. east of Siverek, July 7. A perennial decumbent or climbing bindweed, about 3 feet long, with pinkish or creamy white flowers. Native to Asia Minor.

122226. CONVOLVULUS sp.
No. 2298. From 68 km. north of Gemushane, August 10. A herbaceous perennial vine with large white flowers.

122227. CORCHORUS sp. Tiliaceae.
No. 3108. From the Chankiri bazar, October 12.

122228. CORNUS sp. Cornaceae.
No. 2833. From Yalova Kaplijalari, September 11.

122229. CORNUS sp. Cornaceae.
No. 2313. From 75 km. north of Gemushane, August 10.

122230. CRATAEGUS sp. Malaceae.
No. 2472. From 106 km. south of Gire sun, August 17.

122231 to 122233. DATURA spp. Solanaceae.

122231. DATURA sp.
No. 532. From the Mugla bazar, May 28.

122232. DATURA sp.
No. 600. From the Izmir bazar, May 23.

122233. DATURA METEL FASTUOSA (L.) Safford.
No. 612. From the Antalya bazar, June 4. An ornamental herbaceous annual, common throughout India and the East Indies, which varies in height from 2 to 6 feet. It has entire or deeply-toothed leaves about 4 inches long, and flowers, 7 or more inches in length, varying in color from white to lavender or rose.

For previous introduction see 110187.

122234 to 122279. DELPHINIUM spp. Ranunculaceae.

122234. DELPHINIUM sp.
No. 1743. From the mountains southeast of Elaziz, July 13.

122235. DELPHINIUM sp.
No. 1775. From 35 km. southwest of Elaziz, July 14. Low-growing plants with flowers not borne in spikes.

122236. DELPHINIUM sp.
No. 2005. From 7 km. west of Chiftehane, July 29.

122237. DELPHINIUM sp.
No. 2336. A tall perennial from 50 km. south of Trabzon, August 10.

122270 to 122279. DELPHINIUM spp. Ranunculaceae.

122270. DELPHINIUM sp.
No. 2450. From 45 km. north of Nigde, July 26.

122271. DELPHINIUM sp.
No. 2693. From 21 km. south of Tokat, August 28.

122272 to 122279. DELPHINIUM spp. Ranunculaceae.

122272. DELPHINIUM sp.
No. 2450. From 45 km. north of Nigde, July 26.

122273. DELPHINIUM sp.
No. 2451. From 45 km. north of Nigde, July 26.

122274. DELPHINIUM sp.

122275. DELPHINIUM sp.
No. 2453. From 31 km. north of Gaziantep, July 2. A species with pink flowers.

122276. DELPHINIUM sp.
No. 2454. From 6 km. north of Gaziantep, July 2. A species with cream-colored, lacy petals.

122277. DELPHINIUM sp.

122278. DELPHINIUM sp.

122279. DELPHINIUM sp.
No. 2457. From 6 km. north of Gaziantep, July 2. A species with pink flowers.
122207 to 122413—Continued

122237. DIANTHUS sp.
No. 1574. From 41 km. southeast of Diyarbekir, July 7.

122238. DIANTHUS sp.
No. 1675. From 25 km. east of Diyarbekir, July 10.

122239. DIANTHUS sp.
No. 1724. From 32 km. east of Elaziz, July 13.

122240. DIANTHUS CARTHUSIANUM L.
No. 1740. From 28 km. southeast of Elaziz, September 13.

122241. DIANTHUS sp.

122242. DIANTHUS CARTHUSIANUM L.
No. 2064. From Alma Dag, 25 km. southeast of Ankara, August 1.

122243. DIANTHUS sp.
No. 2097. From Alma Dag, 25 km. southeast of Ankara, August 1.

122244. DIANTHUS sp.
No. 2202. From 95 km. southeast of Susheri, August 7.

122245. DIANTHUS sp.
No. 2279. From 55 km. east of Erzincan, August 9. Flowers white, unusually long and graceful, petals deeply fringed.

122246. DIANTHUS sp.
No. 2288. From 203 km. east of Erzincan, August 9. Flowers shell pink with slightly fringed petals.

122247. DIANTHUS sp.
No. 2294. From 203 km. east of Erzincan, August 9. Flowers white, petals slightly fringed.

122248. DIANTHUS sp.
No. 2299. From 55 km. east of Erzincan, August 9. Flowers red, borne in clusters.

122249. DIANTHUS hARMATOCALYX Boiss. and Heldr.
No. 2474. From 106 km. south of Giresun, August 17.

122250. DIANTHUS sp.
No. 2483. From 97 km. south of Giresun, August 17.

122251. DIANTHUS sp.
No. 2492. From 75 km. south of Giresun, August 17.

122252. DIANTHUS sp.
No. 2502. From 4 km. west of Samsun, August 23.

122253. DIANTHUS sp.
No. 2507. From 50 km. southeast of Amasya, August 23.

122254. DIANTHUS CARTHUSIANUM L.
No. 2670. From 16 km. south of Tokat, August 26. Flowers red.

122255. DIANTHUS CARTHUSIANUM L.
No. 2671. From 41 km. south of Tokat, August 26.

122207 to 122209—Continued

122216. DIANTHUS sp.
No. 2692. From 21 km. south of Tokat, August 26.

122217. DIANTHUS sp.
No. 2747. From Ulu Dag, 35 km. south of Bursa, September 7.

122218. DIANTHUS CARTHUSIANUM L.
No. 2823. From Yahova Kaplijalar, September 11.

122219. DIANTHUS sp.
No. 2801. From the summit of Ulu Dag, September 8.

122220. DIANTHUS CARTHUSIANUM L.
No. 2831. From Yahova Kaplijalar, September 11.

122221. DIANTHUS sp.
No. 3355. From 35 km. east of Bandirma, June 18.

122222 to 122224. ECHIUM spp. Boraginaceae.

122222. ECHIUM sp.
No. 710. From 25 km. north of Antalya, June 3, on a limestone plateau. Flowers light blue.

122223. ECHIUM PLANTAGINEUM L.

122224. ECHIUM sp.

122225. ERICA sp. Ericaceae.
No. 2576. From Ulu Dag, 35 km. south of Bursa, September 7. A heather found growing by springs.

122226. ERICA sp. Ericaceae.
No. 2387. From 16 km. east of Trabzon, August 12.

122227. FUCHSIA sp. Onagraceae.
No. 3033-A. From the Amasya bazar.

122228 to 122231. GENTIANA spp. Gentianaceae.

122228. GENTIANA sp.
No. 3146. From 25 km. north of Kastamonu, October 13.

122229. GENTIANA sp.
No. 2673. From the mountains, 46 km. south of Tokat, August 26.

122230. GENTIANA sp.
No. 2487. From 92 km. south of Giresun, August 17. Flowers blue, borne next to ground; found in mountain meadows.

122231. No. 2471. GENTIANA sp.
No. 2471. From 50 km. south of Giresun, August 17.

122232. GLADIOLUS sp. Iridaceae.
No. 1950. From Birejik, July 22.

122233 to 122236. GYPSOPHILA spp. Silenaceae.

122233. GYPSOPHILA sp.
No. 1870. From 50 km. north of Malatya, July 17.
182307 to 122413—Continued

182334. GYPSOPHILA sp.

182335. GYPSOPHILA sp.
   No. 2163. Dwarf baby's breath. From 49 km. east of Sivas, August 6.

182336. INULA sp. Asteraceae.
   No. 2847. From Yalova Kaplijalari, September 11. A freely branching yellow-flowered perennial which blooms in the autumn.

182337. INULA CONYZA DC. Asteraceae.
   No. 2864. From Yalova Kaplijalari, September 12. A tall herb with yellow flowers in umbellike clusters.

182338 to 122346. IBIS spp. Iridaceae.
   182338. IBIS OATESII Foster. No. 3376. From the Mission garden, Gaziantep, June 19. Seed from wild plants. An iridescent Asia Minor with 1-flowered stems about 19 inches high. The outer flower segments, 3 to 5 inches across, are creamy white, covered with fine veins, producing a light-gray effect; the inner segments are larger, pale purple or yellow.

182339. IBIS LUPINA Foster. No. 3365. From the Mission garden, Gaziantep, June 19. An Oncocylus iris with a fleshy, creeping rhizome and about 6 erect narrow leaves 9 inches or more high. The stem, 6 inches high, bears a single flower with falls and standards greenish yellow marked with brownish-red; 3½ inches. Native to Asia Minor. For previous introduction see 106024.

182340. IBIS sp.

182341. IBIS sp.
   No. 734. From 50 km. southeast of Mugla, May 28, in moist soil. Flowers bright yellow.

182342. IBIS sp.
   No. 1142. From a hillside near Ephesus, June 12.

182343. IBIS sp.
   No. 2287. From 50 km. east of Erzincan, August 9.

182344. IBIS sp.
   No. 2407. From 29 km. west of Rize, August 13.

182345. IBIS sp.
   No. 2431. From 25 km. east of Ordu, August 19.

182346. IBIS sp.
   No. 3106. From 15 km. north of Kalejik, October 12.

182347. LEPIDIUM SATIVUM L. Brassicaceae. Garden cress.
   No. 585. From the Antalya bazar, June 4.

182348. LIMONIUM sp. Plumbaginaceae.
   No. 2980. From Ephesus, September 25. Flowers blue.

182349. LINUM sp. Linaceae.

182350. FUMANA sp. Cistaceae.

182351 to 122360. LINUM spp. Linaceae. Flax.
   182351. LINUM sp. No. 647. Wild flax from the roadside 20 km. south of Izmır, May 25.

182352. LINUM sp. No. 728. Wild flax from 60 km. southeast of Mugla, June 28.

182353. LINUM sp. No. 1068. Wild flax from Kirkagach, June 11.

182354. LINUM sp. No. 1111. Wild flax from the road 20 km. east of Kirkagach, June 11.

182355. LINUM sp. No. 1191. Wild flax from 85 km. west of Izmır, June 16.

182356. LINUM sp. No. 1203. Wild flax from 10 km. west of Izmır, June 16.

182357. LINUM PUBESCENS Russ. No. 1414. From bottom land, 48 km. north of Gaziantep, July 2. An annual flax 1 to 1½ feet high with oblong or oblong lanceolate leaves and pink flowers in cymes with spike-like branches. The handsome fragrant blossoms do not drop during the day. Native to Asia Minor.

182359. LINUM sp. No. 1418. A perennial flax with yellow flowers, from dry lands 6 km. north of Gaziantep, July 2.


182361. LITHOSPERMUM sp. Boraginaceae.
   No. 1501. From 5 km. southeast of Gaziantep, July 4. A dry-land plant with grey foliage, found among limestone rocks.

182362 to 122365. LINUM spp. Linaceae. Flax.

182363. LINUM PERENNIS L. No. 2582. Wild flax from 20 km. west of Samsun, August 23.

182364. LINUM sp. No. 2589. From 4 km. west of Samsun, August 23. A flax with yellow flowers, very attractive but very small.
122365. LINUM sp.  
No. 2655. From 24 km. southeast of Merzifon, August 25.

122366. LITHOSPERMUM sp. Boraginaceae.  

122367. LYCHNIS sp. Silenaceae.  
No. 3407. From a dry rocky slope, 3 km. northeast of Ankara, June 26.

122368. MIMOSA PUDICA L. Mimosaceae. Sensitive plant.  
No. 1276. From the Bursa bazar, June 18.

122369. MUSCARI sp. Liliaceae. Grape-hyacinth.  
No. 1132. From Kirkagach, June 9.

122370. NERIUM OLEANDER L. Apocynaceae. Oleander.  
No. 2616. From 30 km. southwest of Samsun, August 24.

122371. NERIUM OLEANDER L. Apocynaceae. Oleander.  
No. 2941. From 5 km. north of Kemal Pasha, September 22.

122372. PICEA sp. Pinaceae. Spruce.  
No. 2422. From 70 km. south of Giresun, August 17.

122373 to 122375. RHAMNUS PETIOLARIS Boiss. Rhamnaceae. A spreading shrub or small tree 6 to 12 feet high, with fruits used as a yellow dye. Native to Asia Minor.  
122373. No. 2921. From Gaziantep, but collected at the Izmir Fair, September 22.  
122374. No. 2920. From Marash, but collected at the Izmir Fair, September 22.  
122375. No. 1260. From the Bursa bazar, June 18.

122376. RHODODENDRON sp. Ericaceae.  
No. 2612. From 5 km. north of Kemal Pasha, September 22.

122377. SILENE sp. Silenaceae.  

122378. SILENE sp. Silenaceae.  
No. 1652. From 70 km. south of Diyarbekir, July 9; seeds boiled and the extract used as a dye.

No. 2941. From the Izmir Fair, September 22.  
No. 2941. From the Izmir Fair, September 22.  
122382. SECALE CEREALE L. Poaceae. Rye.  
No. 2882. From Chanak Kale bazar, September 18.
122401. SPARTIUM JUNCTUM L. Fabaceae. Spanish broom.
No. 2558. Scotch broom. From 4 km. east of Samsun, August 22.


122404 and 122405. TRIGONOCARYUM INVLUCRATUM (Stev.) Johnst. Boraginaceae. A low annual related to the forget-me-not, with white or blue flowers. Native to the Caucasus region at altitudes of 4,000 to 9,000 feet.


For previous introduction see 106534.

122408. No. 2736. From near the old baths, 14 km. west of Yalova, September 6. A plant with a climbing habit.
122409. No. 743. From the mountains 11 km. south of Denizli, May 30.
122410. No. 745. From the mountains 11 km. south of Denizli, May 30.
122412. No. 2781. From Ulu Dag, 36 km. south of Bursa, September 8.

122413. (Undetermined.) No. 1369. Camion. From the Marash bazar, July 2. Used to flavor meat.

122414 and 122415. PHASEOLUS VULGARIS L. Fabaceae. Common bean.
From Australia. Seeds from the Hawkesbury Agricultural College, presented through Dr. H. Wenholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received March 11, 1937.
122414. Canadian Wonder, Burnley selection.
122415. Pale Dun.

122416. ACIDANTHERA CAPPENSIS (Ker.) Benth. and Hook. Iridaceae.

122417. RHAPHANE CILIARIS (L.) Herbert. Amaranthaceae. The creamy yellow flower stalks of this remarkable plant appear before the leaves and bear 50 to 100 flowers, chocolate purple with a pinkish flush, in a spherical umbel. The thick broad, strap-shaped leaves appear later. Native to South Africa.
For previous introduction see 61248.

122418. GLADIOLE ALATUS L. Iridaceae. For previous introduction and description see 119274.

122419 to 122421. FRAGARIA spp. Rosaceae. Strawberry.
122419. King George V (Laxton).
122420. Oberschlesien.
122421. Royal Sovereign (Laxton).

122424. Renown, a new raspberry.
122425. Reward, a new raspberry.
122426. Red cross raspberry.
122427. Pyne’s Royal raspberry.

122428 to 122430. SACCHARUM. Poaceae. Sugarcane.

From India. Cuttings presented by the Department of Agriculture, Bangalore, Mysore. Received March 20, 1937.
122430. No. H. M. 487.
122432. No. H. M. 603.
122435. No. H. M. 608.
122436. No. H. M. 613.
122438. No. H. M. 627.
122440. Ashy Mauritius.

122441 to 122583. From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 22, 1937. This material was all collected in the summer and autumn of 1936.
122441. ACANTHUS sp. Acanthaceae. No. 2085. From Alma Dag, August 1.
122441 to 122583—Continued

122442 to 122454. ALTHAEA spp. Malvaceae.

122442 and 122443. ALTHAEA OFFICINALIS L. Marshmallow.
122442. No. 716. From the mountains 25 km. southeast of Mugla, May 28.

122444 to 122454. ALTHAEA ROSEA (L.) Cav. Hollyhock.
122444. No. 562. From the Izmir bazar, May 23.
122445. No. 601. From the Antalya bazar, June 4.
122446. No. 609. From the Antalya bazar, June 4.
122448. No. 1064. From the Bergama ruins, June 30.
122451. No. 1415. From 15 km. south of Marash, July 2. Flowers white.
122452. No. 1866. From 22 km. west of Malatya, July 16. A hollyhock of recumbent habit with very deeply lobed leaves; flowers white.
122454. No. 1735. From the mountains 25 km. southeast of Elaziz, July 13. Plant recumbent; flowers white.

122455. MALVA sp. Malvaceae.
No. 813. From Antalya, June 4. Growing on rocks.

122456 to 122458. CISTUS spp. Cistaceae.
122457. CISTUS VILLOSUS COBSICUS (Loisel.) Grosser. No. 2841. From Yalova Kaplijalari, September 11.
122458. CISTUS sp. No. 2863. From Yalova Kaplijalari, September 12. A perennial with pink flowers; occurs in many of the mountainous parts of Turkey.

122459 to 122475. DELPHINIUM spp. Ranunculaceae.
122460. DELPHINIUM sp. No. 1408. From 20 km. north of Gaziantep, July 2.
122461. DELPHINIUM sp. No. 1426. From 20 km. north of Gaziantep, July 2.

122476. GEBANIUM sp. Geraniaceae.
No. 2314. From 64 km. north of Gumushane, August 10; plants tall; flowers large, brilliant dark red, cup-shaped with black centers.

122477 to 122491. GLAUCIUM spp. Papaveraceae.
122477. GLAUCIUM sp. No. 768. From near Isparta, June 2; flowers orange colored; pods long and slim.
122478. GLAUCIUM sp. No. 815. From rocks near Antalya, June 4; flowers flame colored; pods long, slender, smooth.
122479. GLAUCIUM sp. No. 1067. From 10 km. west of Soma, June 10; flowers orange; pods long and slender.
JANUARY 1 TO MARCH 31, 1937

122441 to 122583—Continued

122480. GLAUCIUM sp.
   No. 1119. From Akhisar, June 11; flowers orange and yellow; pods long and smooth.

122481. GLAUCIUM sp.

122482. GLAUCIUM sp.
   No. 1291. From 45 km. east of Bandirma, June 18; flowers flame colored with dark centers.

122483. GLAUCIUM sp.
   No. 1508. From 20 km. east of Gaziantep, July 5.

122484. GLAUCIUM sp.

122485. GLAUCIUM sp.

122486. GLAUCIUM COBNICULATUM (L.) Curt.
   No. 2000. From 25 km. southeast of Ulukishla, July 25. A hardy annual about 2 feet high, with pinnatifid leaves and medium large, scarlet flowers. Native to the Mediterranean region.

122487. GLAUCIUM sp.
   No. 2017. From 9 to 25 km. north of Nigde, July 26; flowers orange.

122488. HYPERICUM sp.
   No. 1466. From 45 km. north of Gaziantep, June 18.

122489. HYPERICUM sp.
   No. 1572. From 1 km. west of Yalova on the sea beach, September 12; a perennial, flowers yellow.

122490. HYPERICUM sp.
   No. 3319. From near Ankara, May 18.

122491. HYPERICUM sp.
   No. 3402. From Ankara, June 25; flowers orange yellow, pods long and slender.


122492. HYPERICUM sp.
   No. 1466. From 45 km. north of Gaziantep, June 3.

122493. HYPERICUM sp.
   No. 1572. From 30 km. east of Urfa, July 7.

122494. HYPERICUM sp.
   No. 1725. From 32 km. east of Elazis; plant of medium height; flowers in umbellike clusters.

122495. HYPERICUM sp.
   No. 1941. From Birejik, July 12.

122496. HYPERICUM sp.
   No. 2285. From 55 km. east of Erzincan, August 9.

122497. HYPERICUM sp.
   No. 2737. From near the old baths, 14 km. west of Yalova, September 6.

122498. HYPERICUM sp.
   No. 2763. From Ulu Dag, 11 km. south of Bursa, September 7; flowers large, yellow; seed capsule long.

122499. HYPERICUM CALYCNUM L.
   No. 2729. From Yalova Kapljilar, September 6.

122500. HYPERICUM CALYCNUM L.
   No. 2764. From Ulu Dag, 16 km. south of Bursa, September 7. Large yellow flowers, borne singly.

122501. HYPERICUM sp.
   No. 2774. From Ulu Dag, 35 km. south of Bursa, September 8.

122502. HYPERICUM sp.
   No. 2904. From the ruins of Blagden's site of Troy, September 18. Plants 12 to 18 inches high; flowers medium size.

122503. HYPERICUM sp.
   No. 2905. From the ruins of the old city of Troy, September 18. Plants about 4 to 6 feet high, spreading; flowers small.

122504. HYPERICUM CALYCNUM L.
   No. 2806. From Ulu Dag, 35 km. south of Bursa, September 10; an ornamental shrub.

122505. IPOMOEA spp. Convolvulaceae.

122505. IPOMOEA sp.
   No. 602. From the Antalya bazar, June 4.

122506. IPOMOEA sp.
   No. 2548. From the Samsun bazar, August 25.

122507. IPOMOEA sp.
   No. 3268. From the Adapazari bazar, October 20.

122508. AGROSTEMMA GITHAGO L. Silenaceae.

122508. AGROSTEMMA GITHAGO L. Silenaceae.
   No. 1282. From 70 km. west of Bursa, June 18.

122509. LYCHNIS sp. Silenaceae.

122510. MALOPE sp. Malvaceae. Mallow.
   No. 642. From near Aydin, May 25.

122511. MALOPE sp. Malvaceae. Mallow.
   No. 1289. From 25 km. east of Bandirma, June 18. An annual mallow.

122512. LAVATERA THURINGIACA L. Malvaceae.
   No. 2566. From 9 km. east of Samsun, August 22. A hardy annual, with magenta flowers. Native to southern Europe.

122513. MALVA SYLVESTRIS L. Malvaceae.
   No. 669. From the road between Aydin and Milas, May 26. Flowers large, deep pink.

122514. MALVA SYLVESTRIS L. Malvaceae.
   No. 622. From Ephesus, May 24.
MATERIAL INTRODUCED

122515. and 122516. Althaea Hirsuta L. Malvaceae.
A hardy annual about 1 foot high, with obliquely lobed to palmatifid leaves and solitary white flowers. Native to the Mediterranean region.

122515. No. 650. From 20 km. south of Izmir, May 25.

No. 2653. From 123 km. southeast of Merzifon, August 25.

No. 2353. From the Trabzon bazar, August 11.

No. 2276. From 55 km. east of Erzincan, August 9. A low, profusely branching plant with orange flowers.

No. 788. From 25 km. west of Isparta, June 2.

No. 703. On the road between Milas and Mugla, May 27.

122524. Nigella sp. No. 1868. From 16 km. west of Malatya, July 16.
122528. Peonia sp. No. 2227. From 46 km. north of Gemenishane, August 10.
122529. Peonia sp. No. 2559. From 16 km. east of Samsun, August 22. A wild peony.
122530. Peonia sp. No. 2588. From 30 km. west of Samsun, August 23.

122534. Papaver sp. No. 782. From 17 km. west of Isparta, June 2. Flowers purple.
122535. Papaver sp. No. 786. From 15 km. west of Isparta, June 2. Flowers pink and black.
122537. Papaver sp. No. 1846. From 12 km. west of Malatya, July 16.
122539. Papaver sp. No. 2194. From 102 km. southeast of Susheri, August 7; flowers small, red.
122541. Papaver sp. No. 2194. From 102 km. southeast of Susheri, August 7; flowers small, red.
122542. Papaver sp. No. 2195. From 102 km. southeast of Susheri, August 7; flowers small, red.
122546. Rosa sp. No. 1494. From 30 km. north of Gaziantep, July 3; flowers yellow, a wild rose.

ROSA sp.

No. 1913. A WILD YELLOW ROSE FROM 60 KM. NORTH OF MALATYA, JULY 17.

ROSA sp.


ROSA sp.

No. 2009. FROM 100 KM. SOUTHEAST OF SUSHERI, AUGUST 7.

ROSA sp.


ROSA sp.

No. 2173. FROM 84 KM. EAST OF SIVAS, AUGUST 6.

ROSA sp.

No. 2174. FROM 59 KM. EAST OF SIVAS, AUGUST 6.

ROSA sp.

No. 2203. FROM 70 KM. EAST OF ERZINJAN, AUGUST 9. A WILD ROSE WITH LARGE RED FRUITS.

ROSA sp.

No. 2459-A. FROM 34 KM. EAST OF TRABZON, AUGUST 12.

ROSA sp.

No. 2459-B. FROM 34 KM. EAST OF TRABZON, AUGUST 12.

ROSA sp.

No. 2461. FROM 34 KM. EAST OF TRABZON, AUGUST 12.

ROSA sp.

No. 2462. FROM 29 KM. WEST OF RIZA, AUGUST 13.

ROSA sp.

No. 2463. FROM 29 KM. WEST OF RIZA, AUGUST 13.

ROSA sp.

No. 2563. FROM 5 KM. EAST OF SAMSON, AUGUST 22.

ROSA sp.

No. 2659. FROM 60 KM. SOUTHEAST OF MURZIFON, AUGUST 25.

ROSA sp.

No. 2749. FROM ULU DAG, 35 KM. SOUTH OF BURSA, SEPTEMBER 7. LARGE DEEP-RED FRUITS, SOMEWHAT SPINY.

ROSA sp.

No. 2765. FROM ULU DAG, 16 KM. SOUTH OF BURSA, SEPTEMBER 7.

ROSA sp.

No. 2778. FROM ULU DAG, 35 KM. SOUTH OF BURSA, SEPTEMBER 8.

ROSA sp.

No. 2785. FROM ULU DAG, 37 KM. SOUTH OF BURSA, SEPTEMBER 8.

ROSA sp.
122584 and 122585. **Rubus** spp. Rosaceae.
From England. Plants purchased from George Pyne, Denver Nurseries, Topsham, Devon. Received March 22, 1937.

122584. **Rubus** sp.  
*Pyne’s Imperial Raspberry*, No. 22297.

122585. **Rubus** sp.  
*Shirley Prolific Blackberry*.

122586 to 122595.  
From China. Seeds presented by Dr. Albert N. Steward, Department of Botany, College of Agriculture and Forestry, Nanking University, Nanking. Received February 24, 1937.  
Seeds and fruits collected at Men Shan, Shantung Province, during the season of 1936.

122586. **Aeonia** sp. Malaceae.  
No. 85. A shrub 5 feet high covered with red fruits. Used medicinally.

122587. **Crataegus** sp. Malaceae.  
No. 96.

122588. **Euonymus** sp. Celastraceae.  
No. 100.

122589. **Gleditsia** macractantha Desf. Caesalpiniaceae.  
No. 84. A tree with large spines, closely related to *Gleditsia sinensis*.

For previous introduction see 33165.

122590. **Pinus** massoniana Lambert. Pinaceae.  
No. 88. A tall tree up to 80 feet high, with spreading branches and yellowish-brown branchlets. The thin slender light-green leaves, in pairs, are 5 to 8 inches long, and the dull-brown, ovate cones are 3 to 5 inches long. Native to southeast China, and closely related to *Pinus densiflora*.

For previous introduction see 91790.

122591. **Pyrus** sp. Malaceae.  
No. 95.

122592. **Rubus** sp. Rosaceae.  
No. 3. A vine with sweet edible red fruits.

122593. **Vitis** sp. Vitaceae.  
No. 2. A woody vine with dark-purple edible fruits.

122594. **Zanthoxylum** sp. Rutaceae.  
No. 1. A shrub, cultivated at the hill-foot for the seed coat which is used as a stimulant.

122595. **Ziziphus** sp. Rhamnaceae.  
No. 98.

122596 to 122607.  
From France. Plants and scions purchased from Paul Lecoller, La Celle, St. Cloud. Received March 25, 1937.

122596. **Amygdalus persica** L. Amygdalaceae.  
*Malta*. Received as plants.

122597 to 122605. **Malus** sylvestris Mill. Malaceae.  
Received as scions.

122597. **Belle Fille**.

122598. **Binet Blanc**.

122599. **Binet Rouge**.

122600. **Bramot**.

122601. **Gendevielle**.

122602. **Court Pendu Rouge**.

122603. **Cranoise de Gascogne**.

122604. **Grise Dieppoise**.

122605. **Reinette Franche**.

122606 and 122607. **Pyrus communis** L. Malaceae.  
Received as plants.

122606. **Beurre Dumont**.

122607. **Louis Pasteur**.

122608 to 122614.  
From India. Bulbs collected by Walter Koels, Bureau of Plant Industry. Received March 25, 1937.

122608 to 122613. **Allium** spp. Liliaceae.

122608. **Allium cepa** L. Onion.  
No. 2304. From Bangalore, Mysore, February 9, 1937. A common type of onion grown in the south of India. Considered of better flavor than the large ones.

122609 to 122613. **Allium sativum** L. Garlic.  
Nos. 2234 to 2238. From Madras, February 6, 1937.

122612. No. 2249.  
*Tellagada*. From Bangalore, Mysore, February 8, 1937. Locally grown.

122613. No. 2233.  
*Lasan*. From Madras, February 6, 1937. Said to have been introduced from Italy.

122614. **Solanum tuberosum** L. Solanaceae.  
No. 2312. *Rieket potato*. From Bangalore, Mysore, February 9, 1937. Said to be a descendant of potatoes introduced into India about 50 years ago.

122615 to 122629.  
From France. Plants purchased from F. Delaunay, Angers, Maine et Loire. Received March 25, 1937.

122615 to 122621. **Malus** sylvestris Mill. Malaceae.  
Received as plants.

122615. **Calville D’aout**.

122616. **Doux-amor**.

122617. **Ferme de Doué**.

122618. **Gros Bois de Doudeville**.

122619. **Pomme D’or**.

122620. **Pres. Descours-Desaures**.

122621. **Souvenir du Marais**.
Continued

122622. PYRUS COMMUNIS L. Malaceae. Common pear.
122623. BEAUFRESENT D'ARTOIS. Malaceae. Beau Present d'Artois.
122624. BEURRE DES ENFANTS NANTAIS. Malaceae. Beurre des Enfants Nantais.
122625. BON CHRETIE ANTOINE LORIMER. Malaceae. Bon Chretien Antoine Lorimer.
122626. DUDE BORDEAUX. Malaceae. Duo de Bordeaux.
122627. FRANCOIS COPPÉE. Malaceae. Francois Goppée.
122628. PROF. LEMOINE. Malaceae. Prof. Lemoine.
122629. WILLIAMS D'ANGERS. Malaceae. Williams d'Angers.

122631. ABIES sp. Pinaceae. Fir.
122632. ATRIPLEX HOSTENSIS L. Chenopodiaceae. Garden orach.
122634. CKPHALARIA sp. Dipsacaceae. No. 2059. From Alma Dag, 26 km. southeast of Ankara, August 1.
122635. No. 2982. From a village near Balikesir, September 26.
122636. No. 3025. From Bursa, October 122637. No. 2930. From the prison at Balikesir, October 19.
122638. No. 3226. From Adapazari, October 20.
122639. COBONILLA SCHRZPBA (L.) Koch. Fabaceae. No. 1080. From near Soma, June 10. An erect yellow-flowered herbaceous perennial about 8 inches high, native to the Mediterranean countries.
122640 to 122644. COBONILLA sp. Fabaceae. No. 1201. From 60 km. west of Balikesir, June 16.
122649. CYNANCHUM sp Asclepiadaceae. No. 3456. From 5 km. west of Samsun, August 23. A perennial vine, growing in sands on the Black Sea beach.
122650. PERIPLOCA GRACCA L. Asclepiadaceae. No. 3464. From 10 km. north of Selcuk, September 25. A tall woody vine with ovate-lanceolate leaves and wheel-shaped brownish-green flowers 1 inch across in loose, terminal cymes. Native to Asia Minor and southern Europe.
122651. DIANTHUS sp. Silenaceae. No. 597. From the Antalya bazar, June 4.
122653 to 122656. EREMURUS sp. Liliaceae. No. 820. From Ephesus, June 24.
122654. EREMURUS sp. No. 637. From 2 km. west of Aydin, May 28.
122655. EREMURUS sp. No. 1400. From 20 km. north of Gaziantep, July 2.
122656. EREMURUS sp. No. 1852. From 11 km. west of Malatya, July 16.
122659 to 122670. HELIANTHUS ANNUUS L. Asteraceae. Common sunflower. For previous introduction see 119771.
122661. HELIANTHUS ANNUS L. Asteraceae. Common sunflower. For previous introduction see 119771.
122630 to 122742—Continued

122652. No. 3277. From the Adapazari bazar, October 20.
122663. No. 3277. From the Adapazari bazar, October 22.
122664. No. 614. From the Izmir bazar, May 23.
122666. No. 1375. From the Marash bazar, July 2.
122668. No. 2026. From the Nigde bazar, July 27.
122669. No. 3012. From the Kutahya bazar, September 28.
122670. No. 2152. From the Sivas bazar, August 5.

HYPERICUM sp. Hypericaceae.
No. 1499. From 5 km. south of Gaziantep, July 4.

HYPERICUM sp. Hypericaceae.
No. 3438. From Alma Dag, June 28.

ILEX sp. Aquifoliaceae. Holly.
No. 2401. From 23 km. east of Trabzon, August 12.

ISATIS sp. Brassicaceae.
No. 1902. From 50 km. south of Melas, July 17. A plant with narrow succulent, cabbage-like leaves and a flower stalk 2 to 3½ feet high, bearing a large broad panicle of numerous bright-yellow flowers about one-half inch across.

122675. JUNIPERUS DRUPACA Labill. No. 1917. From Birejik, July 21. A juniper up to 60 feet high, of pyramidal habit, in the wild state, but usually columnar in cultivation. Native to Asia Minor.
122677. JUNIPERUS sp. No. 742. A dwarf juniper from 20 km. south of Denizli, May 30.
122681. JUNIPERUS sp. No. 2688. From 61 km. southeast of Merzifon, August 25.
122682. JUNIPERUS sp. No. 2689. From 61 km. southeast of Tokat, August 25. A dwarf juniper.

LATHYRUS ANNUUS Hoejer. Fabaceae. No. 1081. From 40 km. northwest of Izmir, June 10.


122685. LONICERA sp. No. 2335. From 60 km. south of Trabzon, August 10. A shrub 10 feet high with deep-red berries.
122686. LONICERA sp. No. 2767. From Ulu Dag, 35 km. south of Bursa, September 8. A low shrub with large black fruits.
122687. LONICERA sp. No. 2945. From Kemal Pasha, September 23.

LUPINUS sp. Fabaceae.
No. 735. From 25 km. southeast of Mugla, May 28.

LYCHNIS sp. Sileneaceae.

PANICUM MILIACEUM L. Poaceae. Broomcorn millet.
No. 1228. From the Bursa bazar, June 18.

PHASEOLUS CARACALLA L. Fabaceae. Snap bean.
No. 501. From the Izmir bazar, May 23.

PINUS spp. Pinaceae.
122692. PINUS sp. No. 1482. From 5 km. southeast of Marash, July 3.
122693. PINUS sp. No. 2922. From the mountains between Sivas and Susher, August 6.
122694. PINUS sp. No. 3550. From 30 km. west of Balikkeur, June 18.
122695. PINUS sp. No. 3333. From 30 km. north of Kayseri, May 31.
122696. PINUS sp. No. 3468. From 55 km. north of Chankiri, October 12.
122697. PINUS sp. No. 3475. From 5 km. north of Kastamonu, October 13.

PORTULACA OLERACEA L. Portulacaceae. Common purslane. The fleshy leaves are sometimes used in salads, but more frequently boiled and served like spinach.

For previous introduction see 34510.

122698. No. 3000. From the Kutahya bazar, September 28.
122699. No. 3055. From the Amasya bazar, October 8.
Continued

122700. No. 3286. From the Edirne bazar, October 22.
122701. No. 3140. From the Inebolu bazar, October 12.
122702. No. 2367. From the Trabzon bazar, August 11.
122703. No. 2707. From the Amasya bazar, August 25.
122704. No. 3233. From the Adapazari bazar, October 20.
122706. No. 3286. From the Chanak Kale bazar, September 18.
122707. No. 3445. From Alma Dag, June 28.
122708. No. 3445. RHODODENDRON sp. Ericaceae. From between Trabzon and Rize, August 1.
For previous introduction see 43037.
122718 to 122737. SILENE spp. Silenaceae.
122718. SILENE sp. No. 1879. From 50 km. north of Malatya, July 3.
122723. SILENE sp. No. 1445. From 20 km. north of Gaziantep, July 2.

122630 to 122742—Continued

cream-colored to bluish flowers. Common everywhere in Turkey and native to Asia Minor.
122719. No. 1747. From 20 km. west of Diyarbekir, July 9.
122720. No. 1484. From 44 km. north of Gaziantep, July 3.
122727 to 122737. SILENE spp. Silenaceae.
122727. SILENE sp. No. 1879. From 50 km. north of Malatya, July 17.
122732. SILENE sp. No. 643. From southwest of Izmir, May 25.
122733. SILENE sp. No. 662. Small pale flowers from near Aydin, May 25.
122735. SILENE sp. No. 1445. From 20 km. north of Gaziantep, July 2.
122736. SILENE sp. No. 1764. From 39 km. southeast of Elaziz, September 13. A form with large pink flowers.
From Austria. Cuttings presented by Prof.:

122739. VERBASCUM SPECIOSUM Schrad. Scrophulariaceae.
No. 2293. From 34 km. east of Erzincan, August 9. A tall biennial mullein with pale-green, oblong-lanceolate leaves more than a foot long at the base of the stem, becoming much smaller toward the top. The yellow flowers are in a large panicked raceme. Native to eastern Europe.

For previous introduction see 108778.

From Canada. Tubers presented by M. B.

122740. VERBASCUM SPECIOSUM Schrad. Scrophulariaceae. 
Mullein.
No. 1637. From 47 km. south of Diyarbekir, July 9. Not the common mullein, flowers more handsome.

No. 3496. From the ruins of Philippi, Greece, November 11.

122742. VITIS sp. Verbenaceae.
No. 2931. From Ephesus, September 25.

From Japan. Cuttings presented by Dr. T.

122743. SOLANUM TUBEROSUM L. Solanaceae. Potato.
From Canada. Tubers presented by M. B. Davis, Central Experiment Farm, Ottawa. Received March 26, 1937.

Early St. George.

122744 to 122752. VITIS spp. Vitaceae. Grape.
From Austria. Cuttings presented by Prof.

Andre Teleki, Vienna. Received March 26, 1937.

122744. Chasselas Tompa.
122745. Ezereesand.
122746. Madam Johanna Mathiass.
122747. Memory of Queen Elizabeth.
122748. Neuberger.
122749. Reine des Vignes.
122751. Veltliner (red).
122752. Veltliner (red and white).

122753 to 122757. FICUS spp. Moraceae. 
Fig.
From Japan. Cuttings presented by Dr. T.

Tanikawa, Acting Director, Imperial Horticultural Experiment Station, Okitsu. Received March 27, 1937.

122753. No. 9. Hative d'argenteuil × (H. d'arg. × Roeding No. 2).
122754. No. 32. Hative d'argenteuil × (H. d'arg. × Roeding No. 2).
122755. No. 45. Hative d'argenteuil × (H. d'arg. × Roeding No. 2).
122756. Hataigaki. A fig, native to Japan.
122757. No. 60. Violet Dauphine × Roed. No. 2.

From England. Seeds presented by Sir Lionel de Rothschild, St. Swithin's Lane, London. Received March 18, 1937.

122758. EATICA sp.
Received under the name “mimosa,” for which a place of publication has not been found. Described as a red heather.

122759. EATICA FILLANSII Bolus.
An evergreen shrub with ascending branches, small imbricate linear leaves, and scarlet flowers about one-half inch long. It is related to Erica mertensiana. Native to South Africa.

122760. INDIGOFERA TINTORIA L. Fabaceae. True indigo.

French-grown seed.

From Peru. Seeds presented by A. Martin Lynch, Chief, Estación Agronómica de Lambayeque. Received March 19, 1937.

122761. No. 1. Wild tomato.
122762. No. 2. Wild tomato.

122763. MEDITACO SATIVA L. Fabaceae. Alalfa.
From the Netherlands. Seeds presented by Zwaan & Van Der Molen, Plant B.oeeding & Seed Growing Co., Voorburg. Received March 22, 1937.

Giant alfalfa. A strain said to produce 20 percent more than any other European stock.

122764 and 122765. PRUNUS spp. Amygdalaceae.
From New Zealand. Seeds presented by W. Meikle & Sons, New Lynn Nurseries, Auckland. Received March 30, 1937.

122764. PRUNUS sp. 
George Wilson. A blood plum which has no bitterness or sourness near the seed. It will keep 6 to 8 weeks after picking, and if kept long enough will dry like a prune, but will not rot. The tree is immune to brown rot.

122765. PRUNUS sp. 
Victory plum. A freestone with dark red skin and orange flesh which will keep from 6 to 8 weeks after picking.

122766 to 122884.
From India. Seeds collected by Walter Koelz, Bureau of Plant Industry. Received March 1, 1937.

122786. ARBES FINDROW Saphe, Pinaceae. Fir.
No. 1666. Tos. From above Bandrole, Kulu, Punjab, at 8,000 feet altitude, November 14, 1936. A tall fir with s'ort branches forming a narrow pyramid and numerous, dark-green, slender leaves 1 to 2 inches long. Native to the Himalayan region.
122766 to 122984—Continued

122767. ACACIA sp. Mimosaceae.

122768. ACACIA sp. Mimosaceae.
No. 933. From Bandrole, Kulu, Punjab, June 2, 1936, at 5,000 feet altitude. A bushy tree of medium size, growing in semiarid situations. For 2 weeks in the spring it is covered with fragrant yellow flowers.


122770. ACONITUM sp. Ranunculaceae. No. 12,000 feet altitude. A plant up to 2½ feet high, with few small flowers; found in meadows.

122771. ADONIS CHRYSOCYATHUS Hook. f. ANAPHEMS sp. Asteraceae. No. 1721. From the Department of Agriculture, Kashmir. A tufted perennial with stems about 1 foot high, much divided leaves 3 to 6 inches long, and golden-yellow flowers 2 inches or more across. Native to the alpine Himalayan region.

122772. ALLIUM sp. Liliaceae. From Kolung, Lahul, Punjab, November 26, 1936, at 10,000 feet altitude. A small-flowered species that grows on damp cliffs.

122773. AMARANTHUS sp. Amaranthaceae. No. 12,000 feet altitude. A stemless perennial with a fragrant root; used in India as incense.


122775. ANAPHALIS sp. Asteraceae. No. 1495. From Rotang Pass, Kulu, Punjab, October 26, 1936, at 13,000 feet altitude. Clumps 1 foot high, with corollas of small white flowers; found on a dry rock.

122776. ANAPHALIS sp. Asteraceae. No. 1543. From Rotang Pass, Kulu, Punjab, October 26, 1936, at 13,000 feet altitude. A small-flowered species that grows on damp cliffs.

122777 to 122780. ANEMONE sp. Ranunculaceae.

122777. ANEMONE TETRASEPALA Royle. No. 1577. Bodungen. From Pukar, Lahul, Punjab, September 16, 1936, at 10,000 feet altitude. A stemless perennial with a fragrant root; used in India as incense. No. 1357. From La Dang, Baltistan, Kashmir, September 4, 1936, at 15,000 feet altitude. Plants 2 feet high, growing in a colony on a dry rocky slope; flowers not seen.


122779. ANEMONE sp. No. 1588. Tetnoka. From Pukar, Lahul, Punjab, at 12,000 feet altitude, August 1936. A form 2 feet high, with few small flowers; found in meadows.


122781. ANTHEMIS sp. Asteraceae. No. 1543. From Rotang Pass, Kulu, Punjab, September 15, 1936, at 12,000 feet altitude. An umbellifer 6 feet tall with a fragrant celeriac-like root which is used, along with garlic to flavor meat.

122782. ANEMONE HETEROPLITHEM Wall. Ranunculaceae. No. 1527. Patish. From Kolung, Lahul, Punjab, August 20, 1936, at 12,000 feet altitude. A plant up to 2½ feet high, with few small flowers; found in meadows.

122783 to 122787. AQUILEGIA spp. Ranunculaceae.

122784. AQUILEGIA sp. No. 1357. From La Dang, Baltistan, Kashmir, September 4, 1936, at 15,000 feet altitude. Plants 2 feet high, growing in a colony on a dry rocky slope; flowers not seen.

122785. AQUILEGIA sp. No. 1374. From Hundar, Baltistan, Kashmir, September 10, 1936. Plants 3 feet high, growing in clumps along a stream. Flowers not seen.

122786. AQUILEGIA sp. No. 1583. Gerrimenbok. From Pukar, Lahul, Punjab, August 19, 1936, at 12,000 feet altitude. Attractive plants, 2 feet high; the large, very fragrant flowers, 1½ inches in diameter, have yellowish bells and pale blue-purple spurs.

122787. AQUILEGIA sp. No. 1648. From Chitkul, Rampur-Bushahr, August 19, 1936.

122788. ARENARIA sp. Silenaceae. No. 1520. Astong makpo. From Kolung, Lahul, Punjab, August 16, 1936, at 11,000 feet altitude. A low plant with an abundance of white flowers; found growing in mats on dry slopes.

122789. ARENGA PINNATA (Lam.) Merr. A handsome palm 20 to 40 feet high, with about 25 immense pinnate leaves and enormous bunches of fruit; the individual fruits are the size of an apple. A rich-flavored palm sugar is made from the sap which flows from the bruised fruitstalk.

122790. ARTABOTRYS UNCINATUS (Lam.) Merr. Annonaceae. Fragrant tailgrape. No. 2125. From the Royal Botanical Gardens, Calcutta, January 6, 1937. A handsome palm 20 to 40 feet high, with about 25 immense pinnate leaves and enormous bunches of fruit; the individual fruits are the size of an apple. A rich-flavored palm sugar is made from the sap which flows from the bruised fruitstalk.
pointed, slightly curved apex and are yellowish when ripe. The plant is very highly esteemed by the Chinese because of the rich fragrance of the flowers and fruits, and it is commonly planted in their monasteries.

For previous introduction see 95065.

122791. ARTEMISIA sp. Asteraceae.
No. 1492. Karkatang. From the Upper Bhaba Valley, Lahul, Punjab, October 4, 1936, at 12,000 feet altitude. Plants 2 feet high, growing abundantly in clumps on dry slopes. It is eaten by horses, sheep, and goats when it is tender in the spring and also when dry in late fall and winter.

122792. ARTEMISIA MARITIMA L. Asteraeae. For previous introduction see 122791.
No. 1544. Burtei. From Kolung, Lahul, Punjab, October 17, 1936. A low straggly undershrub, up to 18 inches high, growing abundantly in clumps 18 inches high in both dry and damp situations. The lavender flower heads are very attractive.

122793. ASTER sp. Asteraceae.
No. 1490. Lukmik. From Kolung, Lahul, Punjab, October 9, 1936, at 11,000 feet altitude. Plants 2 to 12 inches high. Found growing in clumps. A handsome shrub of elegant spreading habit, becoming at times 10 feet high. The spine-tipped leaves are often whitish beneath, and the numerous flowers are bright golden yellow. The spindle-shaped berries, about half an inch in length, are red covered with a blue-white bloom. This is said to be one of the most vigorous of the Himalayan barberries.

For previous introduction see 66542.

122800. BERBERIS sp. As the plant material is not introduced.
No. 1603. From 8,000 feet altitude, above Bandrole, Kulu, Punjab, November 14, 1936. A bush up to 6 feet high, with an abundance of red fruits; seems to prefer cooler locations than No. 1602 (P. I. 122799).

122801. BERBERIS sp. No. 1785. Kerroa. From Labkistrang, Lahul, Punjab, at 11,000 feet altitude. A handsome shrub of elegant spreading habit, 12 to 18 inches high, with handsome red berries.

122802. BERBERIS ARISTATA DC. No. 1713. Kawadach. Purchased from the Director of Agriculture, Kashmir.

For previous introduction and description see 122799.

No. 1541. Krosh. A quick-growing tree found usually in river bottoms from 3,000 to 6,000 feet altitude. The trunks are commonly over 6 feet in diameter.

No. 1480. Takga. From Pokar, Lahul, Punjab, October 15, 1936, at 12,000 feet altitude. A tree 40 to 60 feet high, with a creamy-white trunk and branches, the bark peeling off in papery flakes. The oval, coarsely-toothed, sharp-pointed leaves, 3 inches long, are dark-green above and paler beneath. In winter the orange-chocolate color of the twigs is very striking.

For previous introduction see 99654.

122805. BRASSICA sp. Brassicaceae.

122806. BRASSICA sp. Brassicaceae.

122807. BUXUS WULLICHIANA Bail. Buxaceae.
No. 1652. From Bandrole, Kulu, Punjab, November 14, 1936. An attractive evergreen shrub of good habit, up to 18 inches in diameter; the linear-lanceolate leaves are from 2 to 4 inches long.

For previous introduction see 79521.

122808. CALAMAGROSTIS PSEUDOPHRAGMITES (Hall. f.) Koel. Poaceae.
No. 1569. From Lahul, Punjab, October 20, 1936. A conspicuous grass found on dry, rather inaccessible isolated slopes.

For previous introduction see 113088.

122809. CAMPANULA COLORATA Wall. Campanulaceae.
No. 1525. From Gundla, Lahul, Punjab, October 23, 1936, on dry rock at 10,000 feet
122766 to 122984—Continued

altitude. A small perennial usually found growing in crevices in dry cliff faces. The pale, bluish-purple, campanulate flowers are 6 inches in diameter and very attractive.

For previous introduction see 42615.

122811. **CANAVALIA** sp. Fabaceae.

No. 1594. From Tinsu, Lahul, Punjab, August 1936, at 12,000 feet altitude. A rare plant, 5 feet tall, with large flowers 2 inches across, white tinged with red inside.


No. 1571. *Keoru.* From above Kulu, Kulu, Punjab, November 16, 1936, at 5,000 feet altitude.

122820. **CASSIA** sp. Caesalpiniaceae.

No. 2127. From Calcutta, January 7, 1937. Said to be an ornamental shrub 8 feet high, with orange and red flowers.


No. 1751. *Koru.* From above Kulu, Kulu, Punjab, November 16, 1936, at 5,000 feet altitude.

122823. **CAMPANULA** sp. Campanulaceae.

No. 1581. *Shakara.* From Pukar, Lahul, Punjab, August 1936, at 12,000 feet altitude. A biennial 3 feet high, with orange and red flowers. Found growing in clumps a foot high on rock faces; flowers small, rose-purple and thistlelike.

122824. **CHENOPODIUM** sp. Amaranthaceae.

No. 1448. *Drama.* From the Taklung Pass, Ladak, Kashmir, September 27, 1936, at 15,000 feet altitude. A pink-flowered species that grows 2 feet high in hayfields; the seeds are used as spice.

122825. **CIRSIUM** sp. Compositae.

No. 1241. From Safaranga, Baltistan, Kashmir, August 18, 1936, at 6,500 feet altitude. Found growing in clumps a foot high on rock faces; flowers small, rose-purple and thistlelike.

122826. **CLEMATIS** sp. Ranunculaceae.

No. 1400. *Ostahak.* From Leh, Ladak, Kashmir, September 16, 1936, at 10,500 feet altitude. A plant about 6 feet high, used as a potherb.

122827. **CAYOTA** sp. Asteraeaceae.

No. 1715. *Ostahak.* Presented by the Director, Department of Agriculture, Kashmir. A delicious native potherb; sown in the fall and available early in the spring.

122828. **CARUM CARVI** L. Apiaceae. Caraway.

No. 1519. From Gundla Emong, Lahul, Punjab, October 16, 1936, at 10,500 feet altitude. A creeping vine 10 to 15 feet high, with attractive rose-purple flowers. Found on dry slopes and eaten by horses and donkeys when green.

122829. **CHENOPODIUM** sp. Amaranthaceae.


122830. **CLEMATIS** sp. Ranunculaceae.


No. 1677. Presented by the Director, Department of Agriculture, Kashmir. An ornamental vine with finely cut leaves and erect, green-tinted yellow flowers. The seeds are borne in terminal clusters, each seed having a fluffy or featherlike appendage. Native to Iran (Persia). For previous introduction see 115071.

122832. **CLEMATIS** sp. Ranunculaceae.

No. 1519. *Tulissok.* From Pukar, Lahul, Punjab, August 1936, at 12,000 feet altitude. A thistle 18 to 24 inches high with attractive rose-purple flowers. Found on dry slopes and eaten by horses and donkeys when green.

For previous introduction see 115071.

122833. **CHENOPODIUM** sp. Amaranthaceae.

No. 1594. From Tinsu, Lahul, Punjab, August 1936, at 12,000 feet altitude. A low shrub found in dense clumps 3 to 4 feet across and 12 to 18 inches high; found on dry slopes and plains where it is browsed by sheep and goats when other forage is scarce.

122834. **CARANGA** sp. Fabaceae.

No. 2166. From Dacca, Bengal, January 15, 1937. The tender pods of this vine are used as a vegetable.

122835. **CARYOTA URENS** L. Phoenicaceae. Fishtail palm.

No. 1493. *Sokann.* From Kolung, Lahul, Punjab, at 12,000 feet altitude, October 15, 1936. A wild plant 1 foot high whose leaves are used for flavoring.

122836. **CHENOPODIUM** sp. Amaranthaceae.

No. 1400. *Ostahak.* From Leh, Ladak, Kashmir, September 16, 1936, at 10,500 feet altitude. A plant about 6 feet high, used as a potherb.

122837. **CAYOTA** sp. Asteraeaceae.

No. 1715. *Ostahak.* Presented by the Director, Department of Agriculture, Kashmir. A delicious native potherb; sown in the fall and available early in the spring.


No. 1677. Presented by the Director, Department of Agriculture, Kashmir. An ornamental vine with finely cut leaves and erect, green-tinted yellow flowers. The seeds are borne in terminal clusters, each seed having a fluffy or featherlike appendage. Native to Iran (Persia). For previous introduction see 115071.

122839. **CLEMATIS** sp. Ranunculaceae.


For previous introduction see 115071.

122840. **CLEMATIS** sp. Ranunculaceae.

122766 to 122984—Continued

122831. CLEMATIS sp.
No. 1364. *Emong.* From the Shyok Valley, Tarkulang, Baltistan, Kashmir, at 10,000 feet altitude, September 6, 1936. An ornamental vine which covers bushes to a height of 8 feet. The small golden-yellow flowers are sprinkled with brown. The fruits are also attractive.

122832. CLEMATIS sp.
No. 1296. From Shigar Nulla, Baltistan, Kashmir, at 9,000 feet altitude, August 21, 1936. An ornamental vine found on a dry slope; the flowers, bell-shaped, are golden, sprinkled with brown and 1 inch across.

122833. CODONOPSIS PORTENS Hook. f. and Thomas. Campanulaceae.
No. 1530. *Ladut.* From Kolung, Lahul, Punjab, August 18, 1936, at 12,000 feet altitude. A tufted perennial 2 feet high, the leaves small, rosy-purple, drooping in umbels of about 7 small, rosy-purple, drooping flowers. Native to the Alps.

122834. CORYDALIS sp. Papaveraceae.

122835. CORYDALIS sp. Papaveraceae.
No. 1724. Purchased from the Director of the Department of Agriculture, Kashmir. A herbaceous perennial about 8 inches high, with long-stalked, cordate leaves having 7 to 9 lobes, and an umbel of about 7 small, rosy-purple, drooping flowers. Native to the Alps.

122837 to 122839. CORYPHA spp. Phoenixaceae.

122837. CORYPHA ELATA Roxb.
No. 2128. Presented by the Royal Botanic Gardens, Calcutta, January 6, 1937. A tall palm up to 80 feet high, with a spirally ridged trunk and lucent, fan-shaped leaves 8 to 10 feet across, made up of 80 to 100 sword-shaped segments. Native to Burma and Bengal. For previous introduction see 105349.

122838. CORYPHA TALLIERA Roxb.
No. 2131. Presented by the Royal Botanic Gardens, Calcutta, January 6, 1937. A stout unarmed fan palm up to about 30 feet high, with subfrotned leaves 6 feet long and 15 feet broad.

122839. CORYPHA UMBRACULIFERA L. Palm. Taliot palm.
No. 2132. Presented by the Royal Botanic Gardens, Calcutta, January 6, 1937. A large palm up to 80 feet high. The leaves, 12 feet long and 16 feet broad, are made up of lobed segments, and the pinnate flowers are in terminal panicles 20 feet long. It is native to Ceylon.

122840 to 122844. COTONEASTER spp. Malvaceae.

122840. COTONEASTER sp.
No. 1597. *Landepiltsi.* From Thnu, Lahul, Punjab, October 11, 1936, at 11,000 feet altitude. A slender attractive tree with long-stalked pink flowers. The fruits are bright crimson.

122841. COTONEASTER sp.
No. 1567. *Rokkortlo.* From Kyalang, Lahul, Punjab, October 18, 1936, at 11,000 feet altitude. A small tree with handsome crimson fruits.

122842. COTONEASTER sp.
No. 1619. From Pukar, Lahul, Punjab, September 1936, at 12,000 feet altitude. An attractive small tree with red fruits.

122845. CRATAEGUS sp. Malvaceae.
No. 1348. From Pranu, Baltistan, Kashmir, September 1, 1936, at 8,000 feet altitude. A small, well-formed tree with beautiful crimson fruits.

122846. CRATAEGUS sp. Malvaceae.
No. 1130. From Skardo, Baltistan, Kashmir, August 12, 1936, at 6,500 feet altitude. A small ornamental tree with the usual Crataegus features. The red fruits are one-half inch in diameter.

122847. CUCUMIS SATIVUS L. Cucurbitaceae. Cucumber.
No. 2214. From Ellou, Madras Presidency.

122848. CYCLANTHERA sp. Cucurbitaceae.
No. 1599. *Serimentok.* A climbing annual with yellow flowers.

122849. DIANTHUS sp. Sileneaceae.
No. 1531. From Kyalang, Lahul, Punjab, August 20, 1936, at 11,000 feet altitude. A small-flowered pink with glaucous leaves, growing in clumps on dry ground. The pink flowers are about one-half inch across.

122850. DELPHINIUM sp. Ranunculaceae.
No. 1582. *Jar Kang.* From Thnu, Lahul, Punjab, October 1, 1936, at 11,000 feet altitude. A species with large flowers, clear cobalt blue to white, and 2 inches across.

122851. DIPSACUS INERMIS Wall. Dipsacaceae.
No. 1716. *Dapalhak.* Presented by the Department of Agriculture, Kashmir. A stout unarmed fan palm up to about 30 feet high, with subfrotned leaves 6 feet long and 15 feet broad. The fruits are also attractive.

For previous introduction see 101386.
White flowers. Native to Europe. In large rounded clumps 3 to 4 feet high, with nearly stemless bloom and leaves 5 mm. wide.

No. 1592. Mardonn. From Pukar, Lahul, Punjab, August 15, 1936, at 12,000 feet altitude. An attractive annual 2½ to 3 feet high, growing in hayfields. The flowers, about 1 inch long, are rose-purple, turn yellow in the throat.

No. 1782. A collection of seeds brought from Lahul by a native.

No. 1524. From Koti, Kulu, Punjab, at 9,000 feet altitude. A well-formed graceful slender-branched shrub up to 8 feet high, producing an abundance of very attractive small, rose-purple flowers. Native to the western Himalayan region.

No. 1532. From Koti, Kulu, Punjab, October 26, 1936, at 9,000 feet altitude. An attractive deciduous shrub with loose slender branches, thick green trifoliolate leaves about 4 inches long, and rose to pink flowers in lax racemes often a foot long. The plant grows on dry isolated slopes and will stand freezing.

For previous introduction see 116600.

No. 1571. No. 1589. No. 1730. Presented by the Director, Department of Agriculture, Kashmir. Introduced in previous years under other numbers.

No. 1457. Monrutsa. From Kolung, Lahul, Punjab, October 14, 1936, at 12,000 feet altitude. A cultivated plant with large ovate, hairy leaves and orange-yellow flowers 2 to 3 inches across, borne on a stem up to 5 feet high.

For previous introduction see 51037.

No. 1500. Tihta. From Gundla, Lahul, Punjab, October 23, 1936, at 11,000 feet altitude. A biennial or perennial, growing 18 inches high in rather dry soil. The large blue-purple flowers are three-fourths of an inch across.

No. 1539. From Manall, Kulu, Punjab, October 27, 1936, at 6,500 feet altitude. In shady places. A tall plant up to 10 feet high, with large pink flowers.

No. 1593. Mardonn. A coarse annual growing to 10 feet high, in and along water. Flowers rose purple and 1 inch long.

No. 1745. Presented by the Director, Department of Agriculture, Kashmir. A fritillaria with whorled or opposite linear-oblong leaflets. Native to the western Himalayas from Kashmir to central Asia.


No. 1486. Funkunopûk. From Tirtol, Lahul, Punjab, October 22, 1936, at 9,000 feet altitude. A shrub or small tree found on dry slopes. The branches are spreading, and the leaves have 5 to 9 oval to oblong leaflets. Native to the western Himalayan region.

No. 1552. From Kyelang, Lahul, Punjab, October 23, 1936, at 11,000 feet altitude. The flaccid linear leaves are ½ to 2 inches long, campanulate, yellow-green, tesselated with dull purple. Native to the Himalayan region at altitudes of 8,000 to 10,000 feet.

No. 1679. Presented by the Director, Department of Agriculture, Kashmir. For previous introduction see 116600.

No. 1500. From Gundla, Lahul, Punjab, October 23, 1936, at 11,000 feet altitude. A biennial or perennial, growing 18 inches high in rather dry soil. The large blue-purple flowers are three-fourths of an inch across.

No. 1539. From Manall, Kulu, Punjab, October 27, 1936, at 6,500 feet altitude. In shady places. A tall plant up to 10 feet high, with large pink flowers.

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PLANT MATERIAL INTRODUCED

122766 to 122984—Continued

122872. **Iris** sp.
No. 1523. From Naggar, Kulu, Punjab, September 16, 1936, at 6,500 feet altitude. An iris 2¾ feet high, found in field borders; leaves 2 inches wide; flowers bluish.

122873. **Iris** sp.
No. 1455. From Shigar, Baltistan, August 22, 1936, at 9,000 feet altitude. A bush 5 feet high, growing along a river on a dry slope. The crimson fruits turn black as they ripen.

122874. **Iris** sp.
No. 1383. *Chenchen*. From Karzong, Baltistan, Kashmir, September 16, 1936. A low dense shrub about 3 feet high with small narrow leaves and large rose-pink flowers which are exceedingly fragrant.

122875. **Iris communis** L. Common juniper.
No. 1562. *Pana*. From Kolung, Lahul, Punjab, October 10, 1936, at 12,000 feet altitude.

For previous introduction see 109093.

122876. **Juniperus communis** L. Common juniper.
No. 1494. *Sett*. From Pukar, Lahul, Punjab, September 20, 1936, at 12,000 feet altitude. A low bushy honeysuckle up to 5 feet high, with black fruits.

122877. **Juniperus communis** L. Common juniper.
No. 1111. From above Sodpur, Baltistan, Kashmir, August 20, 1936, at 2,000 feet altitude. The tree has a diameter of over 5 feet, is most attractively gnarled, and has an abundance of large fruits over one-fourth of an inch in diameter.

122878. **Lavatera thuringiaca** L. Malva-ceae. Tree-mallow.
No. 1282. From Shigar, Baltistan, Kashmir, August 20, 1936, at 6,500 feet altitude. A cultivated perennial, 4 feet high, with rose-colored flowers 2 inches across.

122879. **Lonicera obovata** Royle.
No. 1297. From Shigatse Nulla, Baltistan, August 20, 1936, at 5,000 feet altitude. An erect rigid perennial shrub 6 to 12 feet high with slender branches and small leaves, growing usually in damp places. The flowers are yellowish and the fruit has a bluish bloom.

For previous introduction see 76264.

122880. **Lonicera sp.**
No. 1476. *Sett*. From Khelari, Kulu, Punjab, October 12, 1936, at 10,000 feet altitude. A large shrub 10 to 12 feet high with large currantlike translucent persistent white berries in which can be seen the black seeds.

122881. **Lonicera sp.**
No. 1583. *From Pukar, Lahul, Punjab, September 20, 1936, at 12,000 feet altitude. A low bushy honeysuckle up to 5 feet high, with black fruits.

122882. **Lonicera sp.**
No. 1782—H. Presented by a native.

122883. **Ludwigia sp.** Onagraceae.
No. 1793—H. Presented by a native.

122884. **Lychnis indica** Royle. Silene-ceae.
No. 1585. *From Pukar, Lahul, Punjab, September 20, 1936, at 12,000 feet altitude. A low bushy honeysuckle up to 5 feet high, with black fruits.

122885. **Lonicera sp.**
No. 1782—H. Presented by a native.

122886. **Lonicera sp.**
No. 1782—H. Presented by a native.

122887. **Lonicera sp.**
No. 1793—H. Presented by a native.

122888. **Lonicera sp.**
No. 1793—H. Presented by a native.

122889. **Lonicera sp.**
No. 1793—H. Presented by a native.

122890. **Lychnis caschemeriana** Royle. Silene-ceae.
No. 1585. *From Kolung, Lahul, Punjab, September 20, 1936, at 12,000 feet altitude. A very attractive woody perennial growing in the water to a height of about 5 feet. The rose-pink flowers are borne in long spikes and last for weeks.

122891. **Lychnis caschemeriann** Royle. Silene-ceae.
No. 1585. *From Kolung, Lahul, Punjab, September 16, 1936, at 12,000 feet altitude. An erect rigid perennial 2½ feet high, related to *Lychnis indica*, with erect or nodding white flowers in contracted cymes. Native to Kashmir.
122766 to 122984—Continued

122892. MALVA SYLVESTRIS L.
No. 1417. Grealshamp. From Leh, Ladak, Punjab, September 16, 1936, at 10,500 feet altitude. A cultivated winter annual 4 feet tall with dark-magenta flowers 1½ inches across, borne over a long season.

For previous introduction see 122518.

122893. MALVA VERTICILLATA L.
No. 1610. NIKANT. From Pukar, Lahul, Punjab, August 30, 1936, at 12,000 feet altitude.

122894. MALVA PARVIFLORA L.
No. 1782-I. Seeds presented by a native.

122895. MECONOPSIS ACULEATA Royle. Pappaceae.
No. 1766. Presented by the Director, Department of Agriculture, Kashmir. A biennial Himalayan plant with hairy stems and rosettes of blunt pointed leaves. The flowers, bright blue with golden yellow throats, are borne in spikelike racemes, the flowers opening from the top of the raceme downward.

For previous introduction see P. I. 55000.

122896. MECONOPSIS sp.
No. 1782-D. Seeds presented by a native.

122897. MELIA sp. Meliaceae.
No. 1505. From Kulu, Kulu, Punjab, November 12, 1936, at 4,500 feet altitude. An annual climber, hairy throughout, with small red fruits.

122898. MELIA sp. Cucurbitaceae.
No. 2165. From Dacca, Bengal, January 14, 1936. An annual climber, hairy throughout, with small red fruits.

122899. MELOTHRIA sp. Cucurbitaceae.
No. 1508. From Lahul, Punjab, November 1936.

122900. MELOTHRIA sp. Cucurbitaceae.
No. 2165. From Dacca, Bengal, January 14, 1936. An annual climber, hairy throughout, with small red fruits.

122901. MELOTHRIA sp. Cucurbitaceae.
No. 1508. From Lahul, Punjab, November 1936.

122902. MELOTHRIA sp. Cucurbitaceae.
No. 1508. From Lahul, Punjab, November 1936.

122903. MELOTHRIA sp. Dipsacaceae.
No. 1300. Dohila. From Morungkor, Baltistan, Kashmir, August 2, 1936. Found on a dry slope. The snowy white flowers, 3 inches across, have a strong Madonna-lily scent.

122904. MELOTHRIA sp. Dipsacaceae.
No. 1300. Dohila. From Morungkor, Baltistan, Kashmir, September 3, 1936, at 9,000 feet altitude. An attractive well-formed bush 8 feet high, with small leaves and long terminal spikes of small rose-colored flowers.

122905. NEPETA sp. Mentheaceae.
No. 1546. From Kuti, Kulu, Punjab, October 27, 1936, at 9,000 feet altitude. A tall perennial mint 3 feet high, with pale, bluish-purple flower heads 1½ inches long. Harbouring along the edges of fields.

122906. PAKSONIA EMODI Wall. Ranunculaceae.
No. 1722. Presented by the Director, Department of Agriculture, Kashmir. A peduncle up to 2 feet high, with ternately compound leaves 6 to 12 inches long and white flowers. Native to the temperate Himalayas.

122907. PASTINACA sp. Apiaceae.
No. 1601. Shuas. From Pukar, Lahul, Punjab, August 30, 1936, at 12,000 feet altitude. Flowers opening from the top of the raceme downward. An attractive pink-flowered species.

122908. PEDICULARIS BICORNUTA D. Don.
No. 1572-A. From Pukar, Lahul, Punjab, August 20, 1936, at 12,000 feet altitude. A showy species 1 foot high with large yellow flowers.

122909. PEDICULARIS BICORNUTA D. Don.
No. 1532. Humamentok. From Kohlung, Lahul, Punjab, October 1, 1936, at 12,000 feet altitude. An attractive perennial 1 foot high; flowers large, old rose, with a large white eye. Found growing in sod, watered well by springs.

122910. PEDICULARIS sp.
No. 1572-A. From Pukar, Lahul, Punjab, August 20, 1936, at 12,000 feet altitude. An attractive pink-flowered species.

122911. PEDICULARIS sp.
No. 1576. Lagrussero. From Pukar, Lahul, Punjab, August 15, 1936, at 12,000 feet altitude. A showy species 1 foot high with large yellow flowers.

122912. PEDICULARIS sp.
No. 1361. From Chalunka Nulla, Baltistan, Kashmir, September 5, 1936, at 10,000 feet altitude. A pedicularis about 8 inches high, with white flowers, the beaks tipped with rose.

122913. PHLOMIS SPECTABILIS Balf. Mentheaceae.
No. 1723. Purchased from the Director, Department of Agriculture, Kashmir. A tall herbaceous perennial about 6 feet high, with large ovate-cordate basal leaves, the stem leaves smaller upwards, and whorls of rather large rose-purple flowers. Native to the Himalayas from 3,000 to 8,000 feet altitude.

122914. PHLOMIS sp. Mentheaceae.
No. 1782-A. Seeds presented by a native.

122915. PIREOBRHIZA KUBROA Benth. Scrophulariaceae.
No. 1725. Purchased from the Director, Department of Agriculture, Kashmir.

122916. PUNUS ROXBURGHII Sargent (P. longifolia Roxb.). Pinaceae.
No. 1673. Gali. From above Kulu, Kulu, Punjab, November 13, 1936, at 5,000 feet altitude. A tree, native to the lower Himalayas at altitudes of 1,500 to 7,500 feet, often over 100 feet high, with a round symmetrical head, but sometimes stunted and gnarled. The light green pendulous
leaves, in clusters of 3, are 9 to 12 inches long, and persist for 3 or 4 years. The ovoid-conical cones are 4 to 7 inches long. When young, this pine is attractive for its long drooping pale-green foliage.

For previous introduction see 102771.

122917. PLANTAGO TIBETICA Hook. f. and Thom. Plantaginaceae.
No. 1573. Narum. From Pukar, Lahul, Punjab, August 20, 1936, at 10,000 feet altitude. A dooryard perennial weed, also a gother under certain conditions. Native to the Himalayan region.

122918. FLEUROSPERMUM sp. Apiaceae.

No. 1625. Khurgatt. From Pukar, Lahul, Punjab, August 20, 1936, at 12,000 feet altitude. A stout perennial up to 2 feet high; root used as a condiment.

For previous introduction see 122917.

No. 1552. Mukutantsi. From Pukar, Lahul, Punjab, October 8, 1936, at 10,000 feet altitude.

No. 1732. Presented by the Director, Department of Agriculture, Kashmir.

122921. POLYGONATUM sp. Convallariaceae.
No. 1575. Birrakaka. From Pukar, Lahul, Punjab, August 20, 1936, at 12,000 feet altitude. The root is used to wash woolens.

122922. POLYGONATUM sp. Convallariaceae.
No. 1782-G. Seeds presented by a native.

122923 to 122927. POLYGONUM spp. Polygonaceae.

122923. POLYGONUM ALPINUM All.
No. 1734. Presented by the Director, Department of Agriculture, Kashmir. A hardy herbaceous perennial with very small white flowers. Native to Europe and Asia.

122924. POLYGONUM POLYSTACHYUM Wall. Fleeceflower.
No. 1490. Mushiutsi. From the Upper Bhaga Valley, Lahul, Punjab, October 19, 1936, at 12,000 feet altitude. An attractive perennial sometimes 6 feet tall, with large dense panicles of creamy flowers. The stems, when young, may be stewed as rhubarb.

For previous introduction see 48340.

122925. POLYGONUM sp.
No. 1491. From Rahul, Kulu, Punjab, October 26, 1936, at 9,000 feet altitude. An attractive perennial 3 feet high, with sagittate leaves 6 inches long and spikes 4 inches long, of lovely crimson flowers.

122926. POLYGONUM sp.
No. 1449. Xielo. From Zingzingbar, Lahul, Punjab, October 9, 1936, at 13,000 feet altitude. A bushy perennial about 1 foot high, with small hinds of cream-colored flowers. The plant is very ornamental in the fall when the leaves turn orange and red.

122927. POLYGONUM sp.
No. 1574. Presented by a collector.

122928. POTENTILLA ABOYRHYTHALLA Wall. Rosaceae.
No. 1737. Purchased from the Director, Department of Agriculture, Kashmir. A perennial herb up to 3 feet high, with digitate leaves and many showy yellow flowers about 1 inch across, in panicles. Native to the Himalayan region from 8,000 to 13,000 feet altitude.

122929. POTENTILLA NEPALENSIS Hook. Rosaceae.
No. 1514. From Rahla, Kulu, Punjab, October 26, 1936, at 9,000 feet altitude. An erect or ascending perennial with stout stems about 2 feet high and showy purple flowers about 1 inch across. Native to the Himalayas between 5,000 and 9,000 feet altitude.

122930. GERANIUM NEPALENSIS Sweet. Geraniaceae.
No. 1645. From Chikut, Rampur-Bushahr, August 1936. Found growing in chimney holes up to 10 feet high; near springs in pine-fir forest. A perennial, sometimes prostrate, with cordate deeply five-lobed leaves with bright pink or red flowers. Native to Nepal.

For previous introduction see 115981.

122931. PRIMULA sp. Primulaceae.
No. 1353. From Talea, Baltistan, Kashmir, August 24, 1936, at 14,000 feet altitude. Plants 1 foot high; flowers rose-purple with a white eye.

122932. PRIMULA sp. Primulaceae.
No. 1385. From Karkong Pass, Ladak, Kashmir, September 14, 1936, at 15,000 feet altitude. Plants 18 inches high; flowers not seen.

122933. RAPANUS SATIVUS L. Brassicaceae. Radish.
No. 1622. From Leh, Ladak, Kashmir, September 17, 1936, at 10,500 feet altitude.

122934. RHAMNUS sp. Rhamnaceae.
No. 1653. From above Bandrole, Kulu, Punjab, November 14, 1936, at 8,000 feet altitude. A spreading bush about 8 feet high; covered in spring with small fragrant green flowers and later with black fruits.

122935. RHAMNUS sp. Rhamnaceae.
No. 1579. Teado. From Kolung, Lahul, Punjab, August 31, 1936, at 12,000 feet altitude. A low, gnarled dense bush growing at high altitudes.

122936. RHODODENDRON sp. Ericaceae.
No. 1558. Baru. From Dilburig, Lahul, Punjab, October 29, 1936, at 12,000 feet altitude. A low evergreen shrub 18 inches high with pale-yellow flowers 1 inch across.

No. 1600. Raduk. Below Kuki Pass, Chamba, Punjab, July 31, 1936, at 12,000 feet altitude. An evergreen 6 inches high, growing in masses; flowers large, purple-lavender, fragrant.

122938 to 122947. ROSA spp. Rosaceae. Rose.

122938. ROSA EQUATORIUM L. Sweetbrier.
No. 1456. Seaworpo. From Kyeelang, Lahul, Punjab, October 14, 1936, at 10-
122766 to 122984—Continued

500 feet altitude. An ornamental shrub 5 to 6 feet high, covered in July with golden-yellow double flowers over 2 inches across.

122939 to 122942.—ROSA MACROPHYLLA Lindl. Bigleaf rose.

122939. No. 1362. From Biokdang Nulla, Baltistan, Kashmir, September 6, 1936, at 10,000 feet altitude. A small shrub, 4 feet high, loaded with large globular red fruits one-half inch in diameter, crowned by persistent sepals.

122940. No. 1481. Scolymo. From the Upper Bhaga Valley, Lahul, Punjab, October 16, 1936. A species of Scotch Thistle, 5 to 6 feet high, with prominent white flowers about 2 inches across.

122941. No. 1553. Scolymo. From Tsokang, Lahul, Punjab, October 21, 1936, at 9,000 feet altitude. Like No. 1481 (P. I. 122940), but collected at a lower altitude.

122942. No. 1482. Like No. 1481 (P. I. 122940), but this plant sent long thin shoots 20 feet up the tree among the branches of a Juniper; fruited abundantly.

122943. ROSA MOSCHATA Mill. Musk rose.

No. 1635. Kudsi. From above Bandpole, Kulu, Punjab, October 20, 1936, at 8,000 feet altitude. A climber 20 feet high, filled in June with intensely fragrant, single white flowers over an inch across.

For previous introduction see 105910.

122944. ROSA sp.

No. 1366. From Hundal, Baltistan, Kashmir, September 7, 1936, at 9,000 feet altitude. A dense bush 20 feet high, filled with hips.

122945. ROSA sp.

No. 1375. From Hundar, Baltistan, Kashmir, September 10, 1936, at 9,000 feet altitude. Like No. 1376 (P. I. 122946), but with larger fruit.

122946. ROSA sp.

No. 1376. From Hundar, Baltistan, Kashmir, September 10, 1936, at 9,000 feet altitude. A large bush, 20 feet high, with a large crop of hips.

122947. ROSA sp.

No. 2145. From Parchinar, North West Frontier Province, December 1936. Presented by Ibrahim Shah, of the Department of Agriculture. A yellow rose with single flowers as big as a dime, borne profusely. The bush is about 5 feet high.

122948. ROBUS SAXATILIS L. Rosaceae.

No. 1516. Shishal. From Pukar, Lahul, Punjab, September 1, 1936, at 13,000 feet altitude. A low unarmored woody perennial with trifoliate leaves about 6 inches long, found in a birch forest. The few fruits are scarlet, rather acid, but pleasant.

For previous introduction see 92301.
122966 to 122984—Continued

A handsome shade tree; the seeds are eaten.

122999. SYRINGA EMO DIS Wall. Oleaceae. Himalayan lilac.
No. 1462. From Kyzylgol, Ushal, Punjab. October 14, 1936, at 10,500 feet altitude. A shrub up to 9 feet high, inclined to be scraggly but nevertheless attractive with its large trusses of creamy fragrant flowers. This strain is the hardest and most attractive of any found in the Himalayas.

122970. SPIRANIA OLÆRACEAS L. Chenopodiaceae. Spinach.
No. 1412. Palag. From Leh, Ladak, Kashmir, September 16, 1936, at 10,500 feet altitude. A potherb, perhaps not different from the ones sent from lower altitudes.

No. 1751. From Kulu, Kulu, Punjab, November 17, 1936, at 4,500 feet altitude. A roadside tree, growing to a diameter of about 2 feet. The small whitish flowers are in long clusters, but the chief value of the tree is that the leaves stay green late in the fall.

122972. TRAGOPOGON sp. Cichoriaceae.
No. 1617. To. From Pukar, Lahul, Punjab, August 1936, at 12,000 feet altitude. A form with yellow flowers, found on dry slopes.

122973. TRAGOPOGON sp. Cichoriaceae.
No. 1694. No. 1701. From Pukar, Lahul, Punjab, September 1936, at 12,000 feet altitude.

122974 to 122977. TRICHOSANTHES spp. Cucurbitaceae.

122976. TRICHOSANTHES BRACATEATA (Lam.) Volgt. 122976. No. 1693. From Nargar, Kulu, Punjab, November 14, 1936, at 6,000 feet altitude. A vigorous vine, growing to about 20 feet long, bearing an abundance of orange-red fruits the size and shape of duck eggs.

122977. TRICHOSANTHES sp.
No. 1701. From Kangra, Kangra, Punjab, November 23, 1936, at 2,500 feet altitude. An annual with an abundance of globose fruits three-fourths of an inch in diameter, brick-red with long blotches of white.

122978 to 122980. TRICOGONELLA Foenum-GRAECUM L. Fabaceae. Fensugreek.
JANUARY 1 TO MARCH 31, 1937

122988 to 122994—Continued

122991. VERBASCUM sp. Scrophulariaceae.

No. 1573. Kut. From Kyalang, Lahul, Punjab, October 1, 1936, at 10,500 feet altitude. Cultivated for the roots, used in native medicine. The yield is heavy; one root may weigh 4 pounds when dried.

122992. VERBASCUM sp. Scrophulariaceae.

No. 1615. Kolonasta. From Pukar, Lahul, Punjab, August 1936, at 12,000 feet altitude.

122993. VIBURNUM NERVOSUM D. Don. Caprifoliaceae.

No. 1733. Presented by the Director, Department of Agriculture, Kashmir.

122994. VICIA FABA L. Fabaceae.

Broadbean.

No. 1172. [Received without notes.]


From Canada. Seeds presented by M. S. J. McMichanny McConnel, Manitoba, Received March 22, 1937.

122996. GOSSYPIUM sp. Malvaceae.

A tree cotton, native to the Canal Zone, and to the Republic of Panama. It is not cultivated, but grows wild and becomes a small tree about 10 feet high.

122997 and 122998.

From the Straits Settlements. Seeds presented by the Botanic Gardens. Received March 22, 1937.

122997. FICUS VARIEGATA Blume. Moraceae.

The "Gondang" tree of Java and Sumatra. A large forest tree with enormous numbers of long pedicelled fruits an inch or two across; when ripe, these are red, marked with white streaks and dots.

For previous introduction see 67588.

122998. ORYZA LATIFOLIA Desv. Poaceae.

Rice.

A perennial wild rice distributed through parts of tropical Asia, Africa, and America. The tufted stems become 6 to 8 feet high, and the plant is said to flower and produce seeds throughout the year. The smooth leaves are 1 to 2 feet long and about an inch wide, and the erect spike is up to 4 inches long.

For previous introduction see 97259.

122999. ALNUS NEPALENSIS D. Don. Betulaceae.

From India. Seeds presented by the Range Officer, Ghum-Simana, Sukhlapokhari, Bengal, at the request of Walter Koelz, Bureau of Plant Industry. Received March 24, 1937.

A tree up to 70 feet high, with a trunk 3 to 4 feet in diameter, found between 4,000 and 7,000 feet altitude. It is a rapid grower, used chiefly for firewood.

For previous introduction see 116579.

123000 to 123002.

From the Union of Soviet Socialist Republics. Seeds purchased; received March 25, 1937.

123000. TULIPA spp. Liliaceae.

Tulip.

123001. TULIPA KUSCHKENSIS B. Fedtsch. No. 113. For previous introduction see 109800.

123002. TULIPA TUBERGENIANA Hoog. No. 106.
123003. EVOA MELIAEFOLIA (Hance) Benth. Rutaceae.
From Cuba. Seeds presented by the Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, through F. G. Walsingham. Received March 3, 1937.

Originally from the Forest Research Institute, Dehra Dun, India. A small, much-branched tree, native to India. The pinnately compound leaves are made up of 3 to 5 pairs of obliquely lanceolate leaflets 3 to 4 inches long, and the small white flowers are in cymes 8 inches across.

For previous introduction see 99671.

123004 to 123138—Continued

From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received January 28, 1937.

123004. EVODIA MELIAEFOLIA (Hance) Benth. Rutaceae.

123005. AJUGA sp. Menthaceae.
No. 2200. From 102 km. southeast of Susheiri, August 7, 1936.

123006. AJUGA sp. Menthaceae.
No. 1122. From between Akhisar and Manisa, June 11, 1936. A low-growing perennial with yellow flowers.

123007. AJUGA sp. Menthaceae.

123008. NIGELLA SATIVA L. Ranunculaceae.
Black cumin.
No. 1386. From the Marash bazar, July 2, 1936. Used as a flavoring for bread and other foods.

For previous introduction see 73490.

123009. ALLIUM sp. Liliaceae.
No. 1630. From 26 km. south of Diyarbekir, July 9, 1936.

123010. ALLIUM sp. Liliaceae.
Charekotu. From the Bali kesir bazar, June 16, 1936. Used as flavoring for bread and other foods.

123011. ALLIUM sp. Liliaceae.
No. 1797. From 52 km. southwest of Blaziz, July 14, 1936.

123012. ALSINUS sp. Silenaceae.
No. 2086. An ornamental rock plant from 25 km. southeast of Ankara on Alma Dag, August 1, 1936.

123013. ALYSSUM sp. Brassicaceae.
No. 566. From the Izmir bazar, June 23, 1935.

123014. ALYSSUM sp. Brassicaceae.
No. 1262. From the Bursa bazar, June 18, 1936.

123015. ANETHUM GRAVEOLENS L. Apiaceae.
Dill.
No. 525. From the Mugla bazar, June 28, 1936.
123004 to 123138—Continued

123034. CISTUS sp. Cistaceae.
No. 1186. Second rose. A pink-flowered shrub from 75 km. west of Bolkastir, June 16, 1936. Found well distributed in Turkey.

123035. CISTUS sp. Cistaceae.
No. 2752. An ornamental shrub from Ulu Dag, 10 km. south of Bursa, September 7, 1936.

123036. CONICUM sp. Apiaceae.
No. 1631. From 70 km. south of Diyarbekir; found by a desert spring.

123037. CORIANDRUM SATYUM L. Apiaceae.
No. 2646. From 24 km. southeast of Merzifon, August 25, 1936.

123038. CORDONERUS sp. Cornaceae.
No. 2409. A shrub from 32 km. west of Rize, August 13, 1936.

123039. COTONEASTER sp. Malaceae.
No. 2639. From 66 km. southeast of Merzifon, August 25, 1936. A small tree with quantities of small, single-seeded red fruits.

123040. COTONEASTER sp. Malaceae.
No. 2754. An ornamental shrub from Ulu Dag at 3,000 feet altitude, September 7, 1936.

123041. CUMINUM CYMINUM L. Apiaceae.
No. 1222. From the Bursa bazar, June 18, 1936. Used as a flavoring for meats.

123042. DELPHINIUM sp. Ranunculaceae.
No. 1664. From 44 km. east of Diyarbekir, July 10, 1936. A tall plant with blue-spurred flowers.

123043. DELPHINIUM sp. Ranunculaceae.

123044. DELPHINIUM sp. Ranunculaceae.
No. 1776. From 35 km. southwest of Elaziz, July 14, 1936.

123045. VELEZIA RIGIDA L. Silenaceae.
No. 1728. From 39 km. southeast of Elaziz, July 13, 1936. A rock plant with handsome white, feltlike foliage.

123046. VELEZIA RIGIDA L. Silenaceae.
No. 1728. From 39 km. southeast of Elaziz, July 13, 1936. A rock plant with handsome white, feltlike foliage.

123048. DIANTHUS sp. Silenaceae.
No. 506. From the Antalya bazar, June 4, 1936.

123047. DIANTHUS sp. Silenaceae.
No. 1788. From 9 km. southeast of Gaziantep, July 2, 1936. An annual with small yellow flowers.

123048. DIANTHUS sp. Silenaceae.
No. 1788. From 9 km. southeast of Gaziantep, July 2, 1936. An annual with small yellow flowers.

123049. DRACOCEPHALUM sp. Mentheaceae.
No. 1721. From 59 km. east of Elaziz, July 13, 1936.
123004 to 123138—Continued

123066. Matthiola sp. Brassicaceae.
No. 1567. From 30 km. north of Urfa, July 7, 1936. A plant with crumpled lav-
ender flowers, common in dry waste places in Anatolia; it makes a good cover crop
in the spring.

123067. Erysimum sp. Brassicaceae.
No. 1798. From 9 km. southwest of
Elaziz, July 14, 1936.
123068. Matthiola sp. Brassicaceae.
No. 1798. From 9 km. southwest of
Elaziz, July 14, 1936.
123069. Mimosa pudica L. Mimosaceae.
Sensitive plant.
No. 598. From the Antalya bazar, June
4, 1936. For previous introduction see 88157.
123070. Muscari sp. Liliaceae.
No. 1529. From 22 km. southeast of
Urfa, July 6, 1936.
123071. Nicotiana sp. Solanaceae.
No. 2399. From 68 km. east of Trabzon,
August 12, 1936. A species with yellow
flowers.
123072. Papaver sp. Papaveraceae.
No. 1729. From 42 km. southeast of
Urfa, July 13, 1936.
123073. Pastinaca sp. Apiaceae.
No. 2413. From 32 km. west of Rize,
August 3, 1936. A fragrant umbellifer
with leaves like the parsnip.
123074. Ranunculus sp. Ranunculaceae.
No. 2303. From 76 km. north of Gemu-
shane, August 10, 1936. A species with
double yellow flowers.
123075. Rapistrum sp. Brassicaceae.
No. 771. From ruins near Denizli, May
31, 1936.
123076. Rhambus sp. Rhamnaceae.
No. 2310. A shrub found on dry
rocks 10 km. north of Gemushane, Au-
gust 12, 1936. A species with yellow
flowers.
123077. Rhambus sp. Rhamnaceae.
No. 1781. From 52 km. southwest of
Elaziz, July 14, 1936.
123078. Salvia sp. Lamiaceae.
No. 1870. From 16 km. east of Di-
yarbekir, July 10, 1936.
123079. Salvia sp. Lamiaceae.
No. 1787. From 9 km. southwest of
Elaziz, July 14, 1936.
123080. Salvia sp. Lamiaceae.
No. 1921. From Birejik, July 21,
1936.
123081. Salvia sp. Lamiaceae.
No. 1955. From Birejik, July 22,
1936.
123082. Salvia sp. Lamiaceae.
No. 2002. From 7 km. west of Chifte-
bane, July 25, 1936. A mint with white
sickle-shaped flowers, spaced far apart.
123083. Salvia sp. Lamiaceae.
No. 2330. From 50 km. south of Trab-
zon, August 10, 1936. A hardy
perennial sage up to 18 inches high, with
broad ovate leaves and violet flowers in
long racemes. Native to Asia Minor.
123084. Melissa officinalis L. Lamiaceae.
Common balm.
No. 2392. From 16 km. east of Trab-
zon, August 12, 1936.
For previous introduction see 73488.
123097. Salvia sp. Lamiaceae.
No. 2501. From 125 km. southwest of
Shebinkarahisar, August 18, 1936. A
species with the leaves covered with long
slaty hairs.
123004 to 123038—Continued

123098. *SALVIA* sp.
No. 3357. From 65 km. west of Bursa, June 18, 1936. A species with white flowers.

123099. *SALVIA* sp.
No. 3436. From Alma Dag, June 28, 1936.

123100. *SALVIA* sp.
No. 1096. A pungent herb from 15 km. northwest of Izmir, June 11, 1936.

123101. *SCABIOSA* sp. Dipsacaceae.
No. 1730. A low, white-flowered rock plant from the mountains 32 km. southeast of Elaziz, July 13, 1936.

123102. *SCABIOSA* sp. Dipsacaceae.
No. 3106. From 40 km. north of Kalejik, October 12, 1936. A spiny compact rock plant, very attractive when in bloom.


123104. *SCABIOSA SICULA* L.
No. 1310. From 20 km. north of Bursa, June 20, 1936. A low annual with red flowers. Native to the Mediterranean region.

123105. *SCABIOSA* sp.
No. 1312. From 20 km. north of Bursa, June 20, 1936. An ornamental plant with white flowers.

123106. *SCABIOSA* sp.

123107. *SENCIO* NEBRODENSIS L. Asteraeae.
No. 2176. From 84 km. east of Sivas, August 6, 1936. An annual or, under some conditions, a perennial, with tall erect stems, pinnatisect leaves, and attractive yellow flower heads. Native to southern Europe.

123114. *SERRATULA* sp. Asteraceae.

No. 1898. From 50 km. north of Malatya, in dry rocky soil. July 17, 1936.

123116 to 123118. *SILENE* spp. Silenaceae.
123116. *SILENE* sp.
No. 2761. From south of Bursa, September 7, 1936.

123117. *SILENE* sp.
No. 2799. A rock plant from Ulu Dag, September 9, 1936.

123118. *SILENE* sp.
No. 706. From 15 km. west of Mugla, May 27, 1936.

123119. *SILENE* sp.
No. 1184. From 10 km. west of Balikesir, June 18, 1936, on a dry slope.

123120. *SILENE* sp.
No. 1585. From 5 km. east of Siverek, July 7, 1936.

123121. *SILENE* sp.
No. 1777. From 52 km. southwest of Elaziz, July 14, 1936.

123122. *SILENE* sp.
No. 1671. From 44 km. east of Diyarbekir, July 10, 1936.

123123. *SILENE* sp.
No. 2411. From 29 km. west of Rize, August 13, 1936. An ornamental with pink flowers.

123124. *SILENE GALLICA* L.
No. 2630. From 43 km. southwest of Samsun, August 24, 1936.

No. 2385. In the woods between Trabzon and Rize, August 12, 1936. A tree-like shrub with deciduous leaves and terminal clusters of small white flowers and much inflated membranous podlike fruits.

123126 to 123128. *TEUCRUM* spp. Menthaeae.
123126. *TEUCRUM* sp.
No. 2569. From 30 km. north of Gümüşhane, August 10, 1936. A succulent with white flowers.

123127. *TEUCRUM* sp.
No. 1761. From the mountains 25 km. southeast of Elaziz, July 13, 1936. A fragrant, low-growing plant.

123128. *TEUCRUM* sp.
No. 2093. A rock plant from Alma Dag. 25 km. southeast of Ankara, August 1, 1936.
123004 to 123138—Continued

123129 to 123131. **THYMUS** spp. Menthaeae.

123130. **THYMUS** sp.

No. 2209. From Alma Dag, 25 km. southeast of Ankara, August 1, 1936. A low compact shrub, covered with very fragrant flowers.

123131. **THYMUS SERPYLLUM** L.

No. 3447. From Alma Dag, June 28, 1936. A plant with fragrant leaves, found growing in cushionlike clumps among rocks.

123132. **TRIFOLIUM REPENS** L. Fabaceae. White clover.

No. 1295. A large-flowered white clover, found 40 km. east of Bursa, June 16, 1936.

123133. **TUNICA PROLIFERA** (L.) Scop. Silenaceae.

No. 2300. Presented by the Kuli Forest Service, Kulu, Punjab, February 10, 1937. A rapid-growing Asiatic tree with large feathery leaves and small globular flower heads. It is used for shade in coffee plantations.

For previous introduction see 81406.

123134. **ALBIZZIA ODORATISSIMA** (L. f.) Bentham. Mimosaceae.

No. 2261. From Bangalore, Mysore, February 9, 1937. A tall erect unarmed tree, with bipinnate leaves and very numerous small heads of fragrant white flowers. Native to the central Himalayas.

For previous introduction see 68648.

123135. **AMARANTHUS** sp. Amaranthaceae.

No. 2220. *Harive*. From Bangalore, Mysore, February 9, 1937. An all-season potherb; said to be native.

123136. **BAUHINIA VAHLII** Wight and Arn. Malu-creeper.

No. 2185. From Mahendra, Madras Presidency, January 23, 1937, at 4,000 feet altitude. A vigorous evergreen woody climber with large heart-shaped leaves nearly a foot long.

123137. **BAUHINIA ACUMINATA** L. Mimosaceae.

No. 2228. From Madras. A large unarmored tree used for street planting, with finely pinnate leaves and showy terminal racemes of small yellow fragrant flowers, followed by short flattened pods.

123138 to 123157. **BAUHINIA** spp. Caesalpiniaeeae.

123139. **AMARANTHUS** sp. Amaranthaceae.

No. 2290. From Bangalore, Mysore, February 9, 1936. A common potherb.

123140. **ARGYRIA** sp. Convolvulaceae.

No. 2489. From 40 km. south of Giresun, August 17, 1936.

123141. **ARGYRIA** sp. Convolvulaceae.

No. 2271. From Bangalore, Mysore, February 9, 1936. For previous introduction see 66648.

123142. **ALBIZZIA FALCATA** (L.) Backer. Cal Asiatic tree with large feathery leaves used for shade in coffee plantations.

February 9, 1937. A rapid-growing tropical Asiatic tree with large feathery leaves and small globular flower heads. It is used for shade in coffee plantations.

For previous introduction see 81406.

123143. **ALBIZZIA FALCATA** (L.) Backer. Mimosaceae.

No. 2259. From Bangalore, Mysore, February 9, 1937. A rapid-growing tropical Asiatic tree with large feathery leaves and small globular flower heads. It is used for shade in coffee plantations.

For previous introduction see 81406.

123144 to 123270—Continued

123144. **ACACIA CONCINNA** (Willd.) DC. Mimosaceae.

No. 2225. *Sikaka*. From Madras, February 4, 1937. A large and very prickly woody climber with bipinnate leaves of

123145. **ALBIZZIA FALCATA** (L.) Backer. Mimosaceae.

No. 2259. From Bangalore, Mysore, February 9, 1937. A rapid-growing tropical Asiatic tree with large feathery leaves and small globular flower heads. It is used for shade in coffee plantations.

For previous introduction see 81406.

123146. **ALBIZZIA FALCATA** (L.) Backer. Mimosaceae.

No. 2259. From Bangalore, Mysore, February 9, 1937. A rapid-growing tropical Asiatic tree with large feathery leaves and small globular flower heads. It is used for shade in coffee plantations.

For previous introduction see 81406.

123147. **ALBIZZIA ODORATISSIMA** (L. f.) Bentham. Mimosaceae.

No. 2261. From Bangalore, Mysore, February 9, 1937. A tall erect unarmed tree, with bipinnate leaves and very numerous small heads of fragrant white flowers. Native to the central Himalayas.

For previous introduction see 68648.

123148. **ALLIUM CEPA** L. Liliaceae. Onion.

No. 1257. From the Bursa bazar, June. 1936. For previous introduction see 103489.

123149. **ANETHUM GRAVEOLENS** L. Apiaceae. Fenerveden.

No. 2292. From Bangalore, Mysore, February 9, 1936. A common potherb in the hot parts of India.

123150. **ANETHUM GRAVEOLENS** L. Apiaceae. Fenerveden.

No. 2292. From Bangalore, Mysore, February 9, 1936. A common potherb in the hot parts of India.

123151. **ARGYRIA** sp. Convolvulaceae.

No. 2185. From Mahendra, Madras Presidency, January 23, 1937, at 4,000 feet altitude. A vigorous evergreen woody climber with large heart-shaped leaves nearly a foot long.

123152. **PELTOPHORUM INERME** (Roxb.) Llanos (P. ferrugineum Benth.). Caesalpiniaeeae.

No. 2228. From Madras. A large unarmored tree used for street planting, with finely pinnate leaves and showy terminal racemes of small yellow fragrant flowers, followed by short flattened pods.

123153. **PELTOPHORUM INERME** (Roxb.) Llanos (P. ferrugineum Benth.). Caesalpiniaeeae.

No. 2228. From Madras. A large unarmored tree used for street planting, with finely pinnate leaves and showy terminal racemes of small yellow fragrant flowers, followed by short flattened pods.

123154 to 123157. **BAUHINIA** spp. Caesalpiniaeeae.

123154. **BAUHINIA VAHLII** Wight and Arn. Malu-creeper.

No. 2181. From Mahendra, Madras Presidency, January 23, 1937, at 4,000 feet altitude. A vigorous evergreen woody climber with large heart-shaped leaves nearly a foot long.

123155. **BAUHINIA VAHLII** Wight and Arn. Malu-creeper.

No. 2181. From Mahendra, Madras Presidency, January 23, 1937, at 4,000 feet altitude. A vigorous evergreen woody climber with large heart-shaped leaves nearly a foot long.

123156. **BAUHINIA VAHLII** Wight and Arn. Malu-creeper.

No. 2181. From Mahendra, Madras Presidency, January 23, 1937, at 4,000 feet altitude. A vigorous evergreen woody climber with large heart-shaped leaves nearly a foot long.

123157. **BAUHINIA VAHLII** Wight and Arn. Malu-creeper.

No. 2181. From Mahendra, Madras Presidency, January 23, 1937, at 4,000 feet altitude. A vigorous evergreen woody climber with large heart-shaped leaves nearly a foot long.

123158. **BAUHINIA VAHLII** Wight and Arn. Malu-creeper.

No. 2181. From Mahendra, Madras Presidency, January 23, 1937, at 4,000 feet altitude. A vigorous evergreen woody climber with large heart-shaped leaves nearly a foot long.
123144 to 123270—Continued

123156. **BAUHINIA** sp.

No. 2220. From Madras, Madras Presidency, February 6, 1937. A shrub about 6 feet high, bearing unscented white, starlike flowers about 1 inch across.

123157. **BAUHINIA** sp.

No. 2203. From Bangalore, Mysore, February 9, 1937.

123158 and 123159. **BRASSICA** OLEACEAE BOTRYTIS L. Brassicaceae. Cauliflower.

123158. No. 2133. **Phulogobi.** From Calcutta, January 6, 1937. Said to be a Patna variety.

123159. No. 2248. **Snowball.** From Bangalore, Mysore, February 7, 1937. A native variety, said to produce good heads throughout the year.

123160. **BUTEA** MONOSPERMA (Lam.) Taub.

No. 2250. From Bangalore, Mysore, February 9, 1937. A small erect tree with large, trifoliolate leaves 4 to 8 inches long in axillary and terminal racemes. Native and large orange-red flowers 1 inch across and 1 to 4 inches long. This species is in thickets. The large fragrant flowers are deep rose color; the pods are not edible.

123161. **DICRORACHIS** NUTANS (PerS.) Benth. Mimosaceae.

No. 2202. From Mahendra, Madras Presidency, January 25, 1937, at 2,000 feet altitude. A spiny scraggly shrub about 8 feet high, native to central Africa, with rose-colored flowers in dense axillary spikes. The bipinnate leaves are composed of 5 to 10 pairs of pinnae, each with 10 to 20 pairs of leaflets. For previous introduction see 50152.

123162. **CAJANUS** INDICUS Spreng. Fabaceae.

No. 2197. **Barda Kandals.** From Bengal, Madras Presidency, January 26, 1937.

123163. **CANAVALIA** VIROSA (Roxb.) Wight and Arn. Fabaceae.

No. 2203. From Ratni, Madras Presidency, January 29, 1937. An ornamental perennial climber which grows 10 feet long in thickets. The large fragrant flowers are deep rose color; the pods are not edible.


123164. No. 2171. **MiriCh.** From Isalmpur, Bengal, January 15, 1937. Fruit red, about 2 inches long by three-fourths of an inch wide; flesh slightly pungent; seeds hot.

123165. No. 2212. **Mupokai.** From Ellore, Madras Presidency, February 1, 1937. A hot, red, elongate pepper, 3 to 4 inches long and 1 inch wide at the base.


123167. No. 2177. From Bengal, Madras Presidency, January 22, 1937. Fruit scarlet, very hot, 3 inches long and pointed, wrinkled and furrowed, quite different from the usually grown strains.

123168. **CASSIA** JAYANICA L.

No. 2247. From Bangalore, Mysore, February 7, 1937. A small tree with gorgeous pink flowers over 2 inches across bore in large clusters during the spring and early summer. It is deciduous in the dry season.

For previous introduction see 97054.

123169. **CASSIA NODOSA** Buch.-Ham.

No. 2288. From Bangalore, Mysore, February 9, 1937. A native variety, said to produce good heads throughout the year.

123170. **CASSIA** RENIGERA Wall.

No. 2278. From Bangalore, Mysore, February 9, 1937. A tropical tree with compound leaves a foot long; the 30 to 40 obtuse leaflets, 1/4 inches long, are leathery and finely hairy beneath. The small reddish flowers are in short dense racemes and the cylindrical pod is a foot in length. Native to northern Burma.

For previous introduction see 103835.

123171. **CEDRUS** DEODARA (Lamb.) Loud. Pinaceae. Deodar cedar.


For previous introduction see 122821.

123172. **CENTROLOBIUM** PARAENSE (L.) Schrad. Mimosaceae.

No. 2289. **Porcupine tree.** From Bangalore, Mysore, February 9, 1937. A medium-sized, attractive Brazilian tree, with compound leaves and large clusters of orange-yellow flowers, followed by curious fruits like gigantic maple keys with wings 6 inches long which whirl with a circular motion as they fall. The egg-shaped basal portion, as large as a pullet’s egg, is covered with spines like a sea-urchin.

For previous introduction see 97077.

123173. **CHENOPODIUM** sp. Chenopodiaceae.

No. 2289. **Chakavathe.** From Bangalore, Mysore, February 9, 1937. An all-season potherb.

123174 to 123181. **CITRULLUS** spp. Cucurbitaceae.

123174. **CITRULLUS** COLOCYNTHIS (L.) Schrad. Cucurbita.

No. 2226. From Madras, Madras Presidency, February 5, 1937. An perennial herbaceous vine, allied to the watermelon. The small globose fruits, less than 2 inches in diameter, are mottled green and brown.

For previous introduction see 103835.

123175 to 123181. **CITRULLUS** VULGARIS Schrad. Watermelon.

123175. No. 2118. **Matira.** From Calcutta, January 4, 1937. Fruit subglobose, mottled, about 1 foot long.


123144 to 123270—Continued

123178. No. 2209. From Ellore, Madras Presidency, February 1, 1937. Fruit—much attenuated, about 16 inches long by 6 inches in diameter; rind medium green with irregular blotched lines of lighter green, very tough; flesh red, firm, of fair quality.
123180. No. 2282. Tarbus. From Bangalore, Mysore, February 9, 1937. Said to be a native variety.

No. 1790. From Jagendar naga, Madras State, November 22, 1936, at 3,500 feet altitude.

For previous introduction see 103476.

123184. Crotalaria sp. Fabaceae. No. 2158. From Mahendra, Madras Presidency, January 24, 1937, at 4,000 feet altitude. An attractive perennial about 3 feet high, bearing spikes of large yellow flowers followed by large inflated pods.
No. 2135. Kumriya. From Calcutta, January 7, 1937; a Patna variety.
123186. No. 2209. From Ellore, Madras Presidency, February 1, 1937. Fruit—much attenuated, about 16 inches long by 6 inches in diameter; rind medium green with irregular blotched lines of lighter green, very tough; flesh red, firm, of fair quality.
123188. No. 2246. Sandakoi. From Bangalore, Mysore, February 7, 1937. Possibly a mixture of green and white varieties.
123189. No. 2210. Kumsa. From Ell ore, Madras Presidency, February 1, 1937. Fruits small, flattened, 1 by 6 inches, sometimes nearly globose and larger, smooth, ribbed, and orange brown; the flesh, orange yellow, is sweet and about 2 inches thick.

For previous introduction see 116744.

No. 2242. Awara. From Bangalore, Mysore, February 7, 1937. A drought-resistant field crop, usually planted with Eleusine indica, and allowed to crop over the field.
123203. Duranta sonneratiioides Buch.-Ham. Lythraceae. No. 2254. From Bangalore, Mysore, February 9, 1937. A handsome tree with shining evergreen leaves and white flowers, from the sub tropical regions of northeastern India. The light-brown bark peels off in thin flakes, and the gray, soft-yellow-streaked wood is used extensively in Ben gal and Assam for making tea boxes, as it seasons well, takes a good polish, and does not warp.

For previous introduction see 61602.
123204. ELABOCARPUS SPEHRICUS (Gaertn.) Schum. Elaeocarpaceae.  
No. 2255. From Bangalore, Mysore, February 9, 1937. A medium-sized tree which bears small blue fruits about the size of a plum; the curious seeds are rough and attractive and are often used as ornaments.

For previous introduction see 66264.

123205. ELYMUS SIBIRICUS L. Poaceae.  
Grass.

No. 1386. From Karzong Pass, Ladak, Kashmir, September 15, 1936, at 13,000 feet altitude. A grass growing in very dry places where it forms clumps 18 inches tall.


No. 2204. From Rati, Madras Presidency, January 29, 1937. A tree 20 to 30 feet high, native throughout India, with clusters of large bright-red flowers which appear before the leaves. The pods are 4 to 8 inches long and contain dark carmine seeds.

For previous introduction see 116038.

123207. ERYTHRINA VARIEGATA Stickm. Coraltree.

No. 2257. From Bangalore, Mysore Presidency, January 20, 1937, at 4,000 feet altitude. A beautiful tree with horizontal branches and handsome elliptical leaves nearly 1 foot long. The yellow fruits, 2 to 3 inches across, are shaped like tomatoes and are delightfully acid.

For previous introduction see 94188.

123208. EUPATORIUM ODORATUM (L.) Merr. Fabaceae.  

No. 2205. From Bangalore, Mysore, February 9, 1937. A very distinct small herb with an abundance of small fragrant flowers in the throat.

For previous introduction see 110930.

123209 to 123211. Ficus spp. Moraceae.  

For previous introduction see 116043.

123212. FICUS BENGHALENSIS. Moraceae.  

No. 2309. From Bangalore, Mysore, February 9, 1937. A large tropical American tree with handsome rusty tomentum beneath. Native to the East Indies. It is less tree native to the East Indies. It is

For previous introduction see 102624.

123213. FICUS BENJAMINA L. Moraceae.  

No. 2307. From Bangalore, Mysore, February 9, 1937. A small in the throat.

For previous introduction see 92948.

123214. FICUS KRISHNAM C. DC.  

No. 2207. From Bangalore, Mysore, February 9, 1937. A very distinct small tree with large cup-shaped leaves. The yellow fruits are axillary, sessile, and about one-half inch in diameter. It has been considered a horticultural variety of Ficus benghalensis.

200657—42—8
219314 to 123270—Continued

123222. MEDICAGO sp. Fabaceae.
No. 2283. From Bangalore, Mysore, February 9, 1937. Purchased from the Government Seed Farm; said to be Mysore naturalized seed and the best grown in this region.

123223. MEDICAGO sp. Fabaceae.
No. 2284. From Bangalore, Mysore, February 9, 1937. Purchased in the market.

123224. MILLERIA OVALIFOLIA (Wight and Arn.) Kurz. Fabaceae.

For previous introduction see 110049.

No. 2096. *Uchkey.* From Calcutta, January 1, 1937. Fruits smaller and less bitter than the usual sorts.

No. 2211. From Ellore, Madras Presidency, January 14, 1937. A large, handsome, quick-growing tree with feathery leaves 12 to 20 inches long and dense heads of small creamy flowers on a long peduncle. Native to the Malayan region.

For previous introduction see 41722.

123230 to 123233. PHASEOLUS L. Poaceae. Rice.
No. 2158. *Oryzabim.* From Bangalore, Mysore, February 9, 1937. A very fine, highland rice, sown broadcast. For previous introduction see 41722.

123234. PARKIA BIGLANDULOSA Wight and Arn. Mimosaceae.
No. 2268. From Bangalore, Mysore, February 9, 1937. A large, handsome, quick-growing tree with feathery leaves 12 to 20 inches long and dense heads of small blue fragrant flowers. Native to Panama, which grows 30 to 40 feet high and produces from its stem and old branches a profusion of almost sessile, white flowers. These are followed by yellowish, cylindrical, smooth fruits 1 to 4 feet long and about 1 inch in diameter, resembling wax candles.

For previous introduction see 110049.

123236 and 123237. PHASEOLUS LUNATISS L. Limas.
No. 2299. From Deskit, Baltistan, September 9, 1936, at 9,000 feet. A lofty tree, native of the locally grown varieties. A medium-ripening variety, recommended for quality and yield.

123238 to 123242. PHASEOLUS L. Poaceae. Grass.
No. 2196-A. From Deskit, Baltistan, Kashmir, September 9, 1936, at 9,000 feet altitude. A grass up to 18 inches high found on sand dunes; said to be eaten by cattle.

123244. PICRA SMITHTIANA (Wall.) Bolus. Pinaceae. Himalayan spruce.
No. 2299. *Rat.* Presented by the Kulu Forest Service, Kulu, Punjab, February 10, 1937. A large, handsome, quick-growing tree with feathery leaves 12 to 20 inches long and dense heads of small blue fragrant flowers on a long peduncle. Native to the mountains of northwestern India at altitudes of 7,000 to 11,000 feet; the terminal, drooping, pale-green cones are 4 to 6 inches long. The soft, sharp, pointed, purple-brown green leaves are crowded on pendulous, tail-like twigs.

For previous introduction see 110049.
123144 to 123270—Continued

123245. PINUS GRIFFITHII McClelland (P. excelsa Wall.). Pinaceae.

No. 2301. Kail. Presented by the Kulu Forest Service, Kulu, Punjab, February 10, 1937. Tree 50 to 100 feet high, growing between 5,000 and 11,000 feet altitude in the Himalayan region. The slender grey-green leaves, in fives, are 5 to 8 inches long, and the pale-brown, cylindrical cones are 6 to 12 inches long.

123246. PISUM SATIVUM L. Fabaceae. Pea.


123247. PISUM SATIVUM L. Fabaceae. Pea.

No. 2243. Batani. From Bangalore, Mysore, February 7, 1937. Said to be a hardy, disease-resistant pea.

123248. SBMECARPUS ANACARDIUM L. f. Anacardiaceae.

No. 2194. Balisakuli. From Bengal, Madras Presidency, January 26, 1937, at 5,000 feet altitude. An attractive tree growing between 5,000 and 11,000 feet altitude. An ornamental tree with oval-elliptic leaves and an abundance of yellow fruits that lose their astringency when fully ripe, and are eaten after roasting.

123249 to 123251. SOJA MAX L. Fabaceae. Soybean.

From the Government Gardens, Bangalore, Mysore, February 7, 1937. Said to have come from Java.

123249. No. 2240.

123250. No. 2238.

123251. No. 2239.

123252. No. 2235. From Mahendra, Madras Presidency, January 24, 1937, at 4,000 feet altitude. An ornamental tree with oval-elliptic leaves and terminal racemes of small white flowers. The fresh fruit is rich in tannin, and the dried fruit yields a black or yellow dye.

123252 to 123255. SOLANUM spp. Solanaceae.

123252. No. 2170. Pegan. From Islampur, Bengal, January 15, 1857. Fruit pale green, about 10 inches long and 2 inches in diameter.

123253. No. 2172. Pegan. From Islampur, Bengal, January 15, 1857. Fruit greenish purple, elongate, 1 foot long and about 5 inches wide.

123254. No. 2205. From Islampur, Bengal, January 15, 1857. Fruit greenish purple, globose, weighs about 3 pounds. Of good flavor; the plant is a good bearer and is one of India's best eggplants.


123256. No. 2245. Badanskai. From Bangalore, Mysore, February 7, 1937. A mixture of long purple and long green eggplants which grow 8 or 9 inches long, but are usually used when much smaller. The purple form is said to be alkali tolerant.

123257. No. 2260. From Bangalore, Mysore, February 9, 1937. A strong bushy shrub about 4 feet high, said to be peculiar to Mysore. The fruit is green, finally about 9 inches long, but cut when about 5 inches long.

123258. No. 2287. From Bangalore, Mysore, February 9, 1937. Fruit globose, about 3 inches across, green streaked with pink purple. A common type here.

123259. SOLANUM sp.

No. 2285. From Bangalore, Mysore, February 9, 1937. A wild plant 4 feet high, with purplish flowers followed by red-orange berries about one-half inch in diameter.

123260 and 123261. STIPA SPLENDENS Trin. Poaceae. Feathergrass.

Silkia. Found in clumps 8 feet high, with large loose tops; stems used for making baskets, brooms, etc. The grass is found in dry, well-isolated places and is quite ornamental.

123260. No. 1437. From Leh, Ladak, Kashmir, September 17, 1936.

123261. No. 1367. From Hundi, Baltistan, Kashmir, September 17, 1936, at 9,000 feet altitude.

123262. TAGETES sp. Asteraceae.

No. 2175. From Mahendra, Madras Presidency, January 22, 1937, at 2,000 feet altitude. Flowers orange, consisting mostly of conspicuous tubular disk flowers with only a row of small reflexed rays. Said to have been grown in the hills from earliest times.

123263. TERMINALIA CHEBULA Retz. Combretaceae.

No. 2187. Harar. From Mahendra, Madras Presidency, January 24, 1937, at 4,000 feet altitude. An ornamental tree with oval-elliptic leaves and terminal racemes of small white flowers. The fresh fruit is rich in tannin, and the dried fruit yields a black or yellow dye.

For previous introduction see 114456.


No. 2186. From Mahendra, Madras Presidency, January 22, 1937, at 4,000 feet altitude. A forest grass growing also in half shade, up to 6 feet high, with broad leaves, and light airy heads which are often used as ornaments.

123265 and 123266. TRICHOSANTHES ANGUINA L. Cucurbitaceae. Snakegourd.

Fruits from 3 to 10 feet long. Used as a vegetable when young.

For previous introduction see 116761.


123266. No. 2241. From Bangalore, Mysore, February 7, 1937.

123267. VIGNA CYLINDRICA (Stickm.) Skeels. Fabaceae. Catjang.

No. 2227. Kharamuni. From Madras, Madras Presidency, February 5, 1937. Used as food both as green beans cooked in the pods and as dried beans.


123269. VITIS sp. Vitaceae.

No. 2224. From Bangalore, Mysore, February 9, 1937. A naturalized Astatic grape, the only sort grown here. Vine
PLANT MATERIAL INTRODUCED

123144 to 123270—Continued

resembles our Concord in habit and appearance; bunches 5 inches long, compact; berries blue-black, ovoid, three-fourths of an inch long, sweet, keep well. Vines give two crops a year here.

123270. ALSTONIA VENENATA R. Br. Apocynaceae.

No. 2193. From Mahendra, Madras Presidency, January 26, 1937, at 1,000 feet altitude. A low shrub 5 feet high, said to bear an abundance of attractive white flowers.

For previous introduction see 65248.


123272 to 123341.

From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received February 1, 1937.

123272. AJDGA sp. Menthaceae.

No. 3419. An attractive mint from 3 km. northeast of Ankara, June 26, 1936.

123273. MATTHIOLA sp. Brassicaceae.

No. 3030. From the Amasya bazar, October 6, 1936.

123274. ANTHEMIS TINCTORIA DISCOIDBA (All.) Vahl. Asteraceae.

No. 2735. From 5 km. west of Yalova.

123275. ASCLEPIAS sp. Asclepiadaceae.

No. 1926. From Birejik, July 21, 1936.

123276. ASPHODELUS FISTULOSUS L. Liliaceae.

No. 603. From Antalya, June 4, 1936.

123277. BRASSICA sp. Brassicaceae.

No. 2143. From the Sivas bazar, August 5, 1936.

123278. CAESALPINIA sp. Caesalpiniaceae.


123279. CEPHALARIA STRIACA (L.) Schrad. Dipsacaceae.

No. 2254. From the Erzinjan bazar, August 8, 1936. Seeds mixed with wheat flour to add flavor to bread.

123280. CONRINGIA ORIENTALIS (L.) Dum. Brassicaceae.

No. 2870. From 1 km. west of Yalova, September 12, 1936. An erect or ascending herbaceous perennial about 1 foot high, with alternate oblong leaves and dense terminal clusters of small yellow flower heads. The plant is covered with white cottony down. Native to Asia Minor.

123281. CORONILLA sp. Fabaceae.


123282. CUMIN Cyminum L. Apiaceae. Cumin.

No. 2149. From the Sivas bazar, August 5, 1936.

123283. DAPHNE sp. Thymelaeaceae.

No. 3439. From Alma Dag, June 28, 1936.

123284. DAPHNE sp. Thymelaeaceae.

No. 2794. From Ulukishla, July 23, 1936.

123285. DAVCUS sp. Apocynaceae.

No. 2287. From 55 km. east of Erzinjan, August 9, 1936.

123286. DAUCUS sp. Apocynaceae.

No. 2606. A plant with pink flowers, from 30 km. west of Samsun, August 23, 1936.

123287. DELPHINIUM sp. Ranunculaceae. Larkspur.


123288. DIGITALIS sp. Scrophulariaceae. Foxtail.

No. 2482. From 97 km. south of Giresun, August 17, 1936.

123289. DIOTIS MARITIMA (L.) Smith. Asteraceae.

No. 2873. From the sea beach, 1 km. west of Yalova, September 12, 1936. An erect or ascending herbaceous perennial about 1 foot high, with alternate oblong leaves and dense terminal clusters of small yellow flower heads. The plant is covered with white cottony down. Native to Asia Minor.

123290. HELICHEREYSUM sp. Asteraceae.

No. 2688. From 16 km. south of Tokat, August 26, 1936. A yellow-flowered composite.

123291. EREMOSTACHYS sp. Menthaceae.

No. 2870. From 1 km. west of Yalova, September 12, 1936. A compact mint found on the sea beach.

123292. ERDOIDUM sp. Geraniaceae.

No. 737. From 11 km. south of Denizli, May 30, 1936.

123293. ERUCA sp. Brassicaceae.


123294. EUONYMUS sp. Celastraceae.


123295. EUPATORIUM sp. Asteraceae.

No. 2687. From 41 km. south of Tokat, August 26, 1936.

123296. FERULA sp. Apiaceae.


123297. FERULA sp. Apiaceae.


123298. GYPSOPHILA sp. Silenaceae.

No. 3439. From Alma Dag, June 28, 1936.

123299. CONRINGIA ORIENTALIS (L.) Dum. Brassicaceae.


123300. CONRINGIA ORIENTALIS (L.) Dum. Brassicaceae.

No. 3387. From dry plains 4 km. southwest of Ankara, June 29, 1936.
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123301. HYOSCYAMUS sp.

123302. HYOSCYAMUS sp.
   No. 2480. From 34 km. south of Giresun, August 17, 1936.

123303. HYOSCYAMUS sp.
   No. 3324. From Ankara, June 20, 1936.

123304. INDRA sp. Asteraceae.
   No. 2098. From Alma Dag, 25 km. southeast of Ankara, August 1, 1936.

123305. INULA sp. Asteraceae.
   No. 2668. From 46 km. south of Tokat, August 26, 1936. A composite with narrow yellow ray flowers.

123306 to 123308. JASMINUM spp. Oleaceae.
   123306. JASMINUM sp.
      No. 1065. A shrub from the ruins at Bergama, June 10, 1936.

   123307. JASMINUM sp.
      No. 2657. A shrub from 61 km. southeast of Merzifon, August 25, 1936.

   123308. JASMINUM FRUTICANS L.
      No. 2731. A low ornamental shrub with black fruits, from woods near Yalova Kaplijalari, September 6, 1936. A half-evergreen, shrubby jasmine with a mass of slender erect stems 3 to 5 feet high and smooth deep-green leaflets. The yellow flowers are produced in early summer, usually in threes or fives at the ends of short twigs, and the round shining-black fruits are the size of peas. For previous introduction see 62020.

123309. LEPIDIUM sp. Brassicaceae.
   No. 2160. From 84 km. east of Sivas, August 6, 1936.

123310. LIGUSTRUM sp. Oleaceae.

123311. LINUM sp. Linaceae. Flax.
   No. 3383. From dry plains around Ankara, June 25, 1936.

123312. LINUM sp. Linaceae. Flax.

123313. LITHOSPERMUM sp. Boraginaceae.
   No. 1401. A rock plant from 20 km. north of Gaziantep, July 2, 1936.

123314. LITHOSPERMUM sp. Boraginaceae.
   No. 2654. From 94 km. southeast of Mersifon, August 25, 1936.

123315. SILENE DENSIFLORA D'Urv. Sileneaceae.

123316. LYCHNIS sp. Sileneaceae.
   No. 2720. From Talas, August 27, 1936.

123317. LYSIMACHIA sp. Primulaceae.
   No. 2946. From 20 km. west of Turgutlu, September 23, 1936.

123318. ONONIS sp. Fabaceae.
   No. 2498. From 8 km. south of Sennar Kalban, August 18, 1936.

123319. PEDICULARIS sp. Scrophulariaceae.
   No. 2067. From Alma Dag, 25 km. southeast of Ankara, August 1, 1936.

   No. 1863. From 26 km. west of Malatya, July 16, 1936.

123321. PHYTOLACCA sp. Phytolaccaceae.

123322. PHYTOLACCA AMERICANA L. Phytolaccaceae. Pokéberry.
   No. 2418. From Trabzon, August 14, 1936.

123323. POTENTILLA RECTA L. Rosaceae.
   No. 2075. From Alma Dag, 25 km. southeast of Ankara, August 1, 1936.

123324. SALVIA sp. Menthaeae.
   No. 1581. From 54 km. north of Urfa, July 7, 1936.

123325. SALVIA sp. Menthaeae.
   No. 2075. From Alma Dag, 25 km. southeast of Ankara, August 1, 1936.

123326. SALVIA sp. Menthaeae.
   No. 3310. From 25 km. south of Gaziantep, June 1, 1936.

123327. SCUTELLARIA sp. Menthaeae.
   No. 1495. A rock plant from 5 km. southeast of Gaziantep, July 4, 1936.

123328. SCUTELLARIA sp. Menthaeae.
   No. 1782. An attractive rock plant for dry areas, from 52 km. southwest of Elaziz, July 14, 1936.

123329. SCROZONERA sp. Cichoriaceae.
   No. 2800. From the summit of Ulu Dag, September 8, 1936.

123330. SCROPHULARIA sp. Scrophulariaceae.
   No. 1590. From 54 km. north of Urfa, July 7, 1936.

123331. SEDUM sp. Crassulaceae.
   No. 2302. From 53 km. north of Gemushane, August 10, 1936.

123332. SILLENE sp. Silenaceae.
   No. 1897. From 50 km. west of Malatya, July 16, 1936.

123333. SILLENE sp. Silenaceae.
   No. 2065. From 25 km. southeast of Ankara, June 25, 1936.

123334. SILLENE sp. Silenaceae.
   No. 2796. From the summit of Ulu Dag, September 8, 1936.
123335. TEUCRIUM sp. Menthaceae.
No. 1875. From 50 km. north of Malatya, July 13, 1936.

123336. TEUCRIUM ARDUINI L. Menthaceae.
No. 2849. From the Yalova Baths, Kapljalar, September 11, 1936. An erect or ascending herbaceous perennial over a foot high, with ovate leaves 1 to 2 inches long and dense spikes of yellow flowers. Native to Europe.

123337. TRIGONELLA sp. Fabaceae.

123338. TRIGONELLA sp. Fabaceae.
No. 2652. From 24 km. southeast of Merzifon, September 25, 1936.

123339. CELSIA ORIENTALIS L. Scrophulariaceae.
No. 2488. From 58 km. west of Shebin-karahisar, August 18, 1936. An annual with simple or sparingly branched stems about a foot high, pinnatisect leaves, and small yellow flowers. Native to Asia Minor.

123340. VERBASCUM sp. Scrophulariaceae.
No. 3028. From the Amasya bazar, October 6, 1936.

123341. ORIGANUM VULGARE L. Menthaceae.
No. 2830. From the Yalova Baths, Kapljalar, September 12, 1936.
Clitonia alpina, 122074.

Clover. See Trifolium spp.

C. alsike. See T. hybridum.

red. See T. pratense.

white. See T. repens.

Cocculus sp., 119836.

Cocculus, 119823.

Cochlearia sp., 122253.

Chelidonium majus, 119833.

Cochlearia. See C. officinalis.

Coelogyne cristata, 122085.

C. pendula. See C. officinalis.

Colocasia. See C. esculenta.

Colocynthis. See C. colocynthis.

C. moschata. See C. moschata.

C. sativa. See C. colocynthis.

C. Cypella cordifolia, 122039.

Cytisus spp., 121210, 121211.

Dactylis glomerata, 119636–119639, 121079, 121823.

Daisy. C. glomerata. See Chrysanthemum coronarium.

Dahlia sp., 123199.

Daphne sp., 122933, 122924.

Darlili. See Chelidonium majus.

Dasheen. See Colocasia esculenta.

Datura spp., 122271, 122272.

artec. 122083.

metel fastuosa. 122273.

Daucus spp., 121285, 121286.

carro. 121794–121877, 121335–121337.

121393–121393.

Dichotomy. 122274–122279.

122440–122446.

122447–122449.

122471–122475.

122850, 123042–

123044. 123287.

afacias. 122469.

122470.

vestitum. 122086.

Derris. 123200.

Deschampsia caespitosa. 119640.

Dipsacum floribundum. 122110.

Diospyros. See D. kaki.

Dolichos lablab. See D. lablab.

Echium. See E. vulgare.

Elaeocarpus sphaericus. 123204.

Dioscorea alata. See D. alata.

Elaeagnus pungens. 122267.

Eriastrum racemosum. 122268, 122269, 123038.

Dichroaspermum species. 121113–121115.

121339–121444.

Columbine. See Aquilegia vulgaris.

Colocasia esculenta. 121119–121119.

121339–121339.

121464.

121823.

121822.

121819.

121818.

121817.

121816–121820.

121407, 121408.

123220, 122847, 123290–

123291.

123049.

Dracocephalum Scorpioides. 123288.

DwitaUs umbraculifera. 123289.

Eriogyne. See E. americana.

Eriogonum umbraculiferum. 123291.

Eriogonum withamii. 123292.

Eriogonum hymenarrhoen. 123293.

Eriogonum latifolium. 123294.

Eriogonum withamianum. 123295.

Eriogonum hymenarrhoen. 123296.

Eriogonum latifolium. 123297.

Eriogonum hymenarrhoen. 123298.

Eriogonum latifolium. 123299.

Eriogonum hymenarrhoen. 123300.

Eriogonum latifolium. 123301.

Eriogonum hymenarrhoen. 123302.

Eriogonum latifolium. 123303.

Eriogonum hymenarrhoen. 123304.

Eriogonum latifolium. 123305.

Eriogonum hymenarrhoen. 123306.

Eriogonum latifolium. 123307.

Eriogonum hymenarrhoen. 123308.

Eriogonum latifolium. 123309.

Eriogonum hymenarrhoen. 123310.

Eriogonum latifolium. 123311.

Eriogonum hymenarrhoen. 123312.

Eriogonum latifolium. 123313.

Eriogonum hymenarrhoen. 123314.

Eriogonum latifolium. 123315.

Eriogonum hymenarrhoen. 123316.

Eriogonum latifolium. 123317.

Eriogonum hymenarrhoen. 123318.

Eriogonum latifolium. 123319.

Eriogonum hymenarrhoen. 123320.

Eriogonum latifolium. 123321.

Eriogonum hymenarrhoen. 123322.

Eriogonum latifolium. 123323.

Eriogonum hymenarrhoen. 123324.

Eriogonum latifolium. 123325.

Eriogonum hymenarrhoen. 123326.

Eriogonum latifolium. 123327.

Eriogonum hymenarrhoen. 123328.

Eriogonum latifolium. 123329.

Eriogonum hymenarrhoen. 123330.

Eriogonum latifolium. 123331.

Eriogonum hymenarrhoen. 123332.

Eriogonum latifolium. 123333.

Eriogonum hymenarrhoen. 123334.

Eriogonum latifolium. 123335.

Eriogonum hymenarrhoen. 123336.

Eriogonum latifolium. 123337.

Eriogonum hymenarrhoen. 123338.

Eriogonum latifolium. 123339.

Eriogonum hymenarrhoen. 123340.

Eriogonum latifolium. 123341.

Eriogonum hymenarrhoen. 123342.

Eriogonum latifolium. 123343.
Ferula spp., 123052, 123296, 123397.
Fescue. See Festuca spp.
Festuca, 119494-119652,
ovina, 119642-119648.
Fibbia cipripeta, 123055.
Ficus spp., 122752-122757,
benjamina, 123210.
rubiginosa, 123211.
vartigata, 123297.
Fig. See Ficus spp.
Benjamina. See F. benjamina.
rusty. See F. rubiginosa.
Filbert. See Corylus avellana.
Fir. See Abies spp.
Abalay. See A. spectabilis.
Flax. See Linum spp.
Fleeceflower. See Polygonum spp.
Foenioulum vulgare, 123054.
Fritillaria spp., 122327.
Gentiana spp., 122854.
Gentian. See A. sativum.
Garlic. See Allium sativum.
Galium verum, 122857.
Gallant. See Vitis spp.
Grape-hyacinth. See Muscari spp.
Grass—Continued.
Baha. See Paspalum notatum.
Bermuda. See Cynodon dactylon.
Big quaking. See Briza maxima.
carpet. See Atriplex compressa.
crested wheat. See Atriplex crista-
turn. orchard. See Dactylis glomerata.
quaking. See Briza humilis.
raevena. See Eriophorum vaginatum.
sweet vernal. See Anthoxanthum odora-
mum.
Green-ebony. See Jacaranda mimosaefolia.
Ground cover climbing. See Sesamum scandens.
Guabiroba. See Campomanesia fenni'launa.
Gypsophila spp., 122333-122335, 122395.
Hairgrass, tufted. See Deschampsia caespiti-
sa.
Hazel nut. See Corylus ferox.
tree. See C. colurna.
Heath. See Erica spp.
Heather. See Erica farveda.
Hecker colchica, 121661.
Hedysarum spp., 119444, 119445, 122036.
Helenium, 121120-121131.
Helianthemum spp., 123056.
Heliotropium. See 122690-122691.
Hippokatea rhmnoideae, 123057.
Holly. See Ilex spp.
Hedge Locust. See Gleditsia macrocantha.
Honeysuckle. See Lonicera spp.
Hordeum, 119444, 119445, 122036.
Horsetail-tree. See Casuarina equisetifolia.
Hymenaea stigonocarpa.
H. anomala.
Hydrangea altissima.
See C. colurna.
Ivy. See Hedera colchica.
Ivy. See Indigofera colchica.
Indigofera colchica. See Indigofera tinctoria.
Indigofera sp., 123097.
Indigofera tinctoria.
Ivy. See Hedera colchica.
Ipomoea. See Ipomoea batatas.
Ivy. See Hedera colchica.
Jacinthum. See Datura arborea.
Jasminum spp., 122986, 123271.
Jatropha, 122399.
Jatropha. See J. crispum.
Jatropha coccinea. See J. coccinea.
Johnsongrass. See S. viridis.
Juba. See Ixora coccinea.
Juncus. See I. coccinea.
Juncus arcticus. See I. coccinea.
Juncus. See I. coccinea.
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Juncus. See I. coccinea.
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Joannesia princeps, 123220.

Jobs-tears. See Cotyledon lycryma-Jobi.

Juniper. See Juniperus spp.

Juniperus spp., 122676-122682, 122879.

dominican. 122287.

macropoda, 122878.

Juglans regia, 122172, 122173.

Koeleria phileoides, 119654.

Kohlrabi. Brahisca oleaceae gongylodes.

Lactuca spp., 121941-121947, 122100.

dahiae, 121814.

macrantha, 122101.

diea, 119773, 120932-120966, 121935-

lagenaria leucantha, 120487, 120488, 120967.

Juniperus spp., 122676-122682, 122879.

Koeleria phileoides, 120525.

Koeleria phileoides, 122676-122682, 122879.

Koeleria phileoides, 120525.

Keteleeria davidiana, 120537.

Kohlrabi. See Brassica oleracea gongylodes.

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