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**PLANTS NEW TO ARIZONA FLORA — VII
CHROMOSOME COUNTS AND
NEW DISTRIBUTIONAL RECORDS OF NOTEWORTHY SPECIES**

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The following taxa new to Arizona have been discovered among collections recently received. Specimens are deposited in the Herbarium of Arizona State University (ASU) unless otherwise designated.

PAPAVERACEAE. *Eschscholzia californica* Cham. ssp. *californica*. California Poppy. GILA CO.: creek just downstream from Sierra Ancha Research Headquarters, *Lehto* 19855, 24-IV-1976 (ASU 84840). PIMA CO.: along I-19, 1.8 km N of jctn. with Aravaipa Rd., mesquite grassland, *Reeves* 6569 & *Parfitt*, 2-IV-1978 (ASU 96788). SANTA CRUZ CO.: along I-19, 0.6 km N of Amado Rd., mesquite grassland, *Reeves* 6570 (white form), 6751 & *Parfitt*, 2-IV-1978 (ASU 96789, 96787). An occasional escape from cultivation.

SCROPHULARIACEAE. *Orthocarpus attenuatus* Gray. Owl clover. PIMA CO.: Coronado National Forest, Reddington Rd., oak-juniper-mesquite grasslands, rocky terrain, washes, *Reeves* 6688, 6700 ($n=12$, counted by *Reeves*), 6708, 9-IV-1978 (ASU 96779, 96778, 96781); *Pinkava* 10901, *Lehto* & *Hensel*, 28-IV-1973 (ASU 96780); fide L. R. Heckard. Known previously from northern Baja California, cismontane California to British Columbia, and Chile.

UMBELLIFERAE. *Eryngium nasturtiifolium* Juss. ex Delar f. Hierba del sapo. YUMA CO.: Cabeza Prieta Game Range, Las Playas, *Lehto* 22460 & *Reeves* ($n=16$, counted by *Reeves*) (ASU 96775); *Reeves* 6807 & *Lehto*, 11-IV-1978 (ASU 96776), both fide Lincoln Constance; *Lehto* 22761, 8-V-1978 (ASU 96774); *Phelps* & *Edwards* s.n., 19-III-1978 (ASU 96529). Known previously from Cuba, Rio Grande Plains of Texas, Mexico south- and eastward to Vera Cruz and Baja California.

COMPOSITAE. *Tetradymia axillaris* A. Nels. var. *longispina* (M. E. Jones) Strother. Cotton Thorn. MOHAVE CO.: Mokaac Wash, T 41N, R 12W, S 36, 1064 m, *Gierisch* 4268, 5-V-1978 (ASU 98920); 11.7 km S of Utah, along BLM 59, E of Mokaac Wash, *Brown* 754 & *Parfitt*, 20-V-1978 (ASU 98918); both fide J. L. Strother. The entry of this species in *Arizona Flora* (Kearney et al., 1960) is based on a misidentification of a specimen (*ASDI Survey Party* 60, from hills of Kingman, Arizona) of *Tetradymia stenolepis* E. L. Greene. Arizona's four taxa - *T. canescens* D.C., *T. stenolepis*, *T. argyrea* and *T. axillaris* var. *longispina* - may be identified using the taxonomic treatment by Strother (1974).

The following collections represent range extensions and, in some cases, rediscovery of species not found in Arizona for several years.

RANUNCULACEAE. *Trautvetteria grandis* Nutt. Trautvetteria. GREENLEE CO.: 47.2 km N of Morenci, spruce-fir zone along Coronado Trail, *Minckley, et al. s.n.*, 6-VII-1977 (ASU 95950). First collection for Greenlee Co. and the second known collection for Arizona (cf. Apache Co., near springs, head of Black River, White Mts., *Gooding* 1206, 18-VII-1912, ARIZ 46795).

LEGUMINOSAE. *Medicago polymorpha* L. var. *brevispina* (Benth.) Heyn. Bur-clover. PIMA CO.: 8 km W of Aravaca, Rte, 289, flowing wash area, *Lehto* 22740 & *Broome*, 23-IV-1978 (ASU

97083). This represents the third known collection from Arizona (cf. Pinal Co., Eloy, *Peebles, et al. s.n.*, 25-III-1930 (ARIZ 92980); Pima Co., Tucson, *Southwestern Nurseries A-11276*, Soil Conservation Service, USDA 5347, 27-IV-1939 (ARIZ 69639); both fide Duane Isely). Listed as *Medicago hispida* Gaertn. var. *confinis* (Koch) Burnat in *Arizona Flora* (Kearney et al., 1960).

SCROPHULARIACEAE. *Mimulus dentilobus* Robins. & Fern. Monkey-flower. GRAHAM CO.: Aravaipa Canyon, near confluence with Turkey Creek, seepage cliffs, *Reeves* 5456, *Engard* & *Parfitt*, 2-IV-1977 (ASU 96777); Bonita Creek near mouth of Midnight Canyon, canyon wall above water, *McGill* 2391, 21-IV-1978 (ASU 96290). GREENLEE CO.: Eagle Creek Hot Springs Canyon, 8.9.6 km SE of Morenci, *Bissonette* 7460, 29-I-1977 (ASU 89020); Eagle Creek, *Minckley, et al. s.n.*, 29-VI-1977 (ASU 95947). MARICOPA CO.: Camp Creek, 3.4 road km W of confluence with Verde River, wash bands with seeps, *McGill* 1415 & *Duke*, 7-VI-1977 (ASU 96291); all fide R. K. Vickery, Jr. These represent first Arizona collections since those of Thornber from the Santa Rita Mts., Pima County (Kearney et al., 1960).

COMPOSITAE. *Erigeron kuschei* Eastw. Erigeron. COCHISE CO.: Chiricahua Wilderness Area, Rucker Canyon, ca. 2.4 km NW of boundary, riparian, along Rucker Creek, A. & J. *Leithliter* 757, 17-IX-1976 (ASU 96784), along Crest trail, due E of Raspberry Peak, rock outcrop, A. & J. *Leithliter* 117, 16-VII-1975 (ASU 96785), Rustler Park, ca. 0.4 km S of Administration Site, timber, steep rock cliff, *Gierisch* 3833, 7-X-1976 (ASU 94413), all three fide A. Cronquist; above Rustler Peak, with moss at base of cliff, *Hernbrode* 140, 13-VII-1966 (ARIZ 161985). Previously known only from type collection and one other at about the same time, both from Cave Creek Canyon, Chiricahua Mts., 1931 (Nesom, 1978).

COMPOSITAE. *Stephanomeria schottii* Gray. Wire-Lettuce, YUMA CO.: Cabeza Prieta Game Range, Pinta Sands, W end, 2.1 km N of Mexico, sandy *Larrea* desert, *Reeves* 6780 & *Lehto*, 10-IV-1978 (ASU 96378), light-colored unstabilized sand, *Lehto* 22764 ($n=8$, counted by *Pinkava*), 8-V-1978 (ASU 96379), both fide A. S. Tomb. Previously known only from type collection (A. Schott 58, Camp Miller, "Valley of the Gila", May, 1855, Mexican Boundary Survey) (Torrey, 1858).

COMPOSITAE. *Tetradymia argyrea* Munz & Roos. Cotton Thorn. MOHAVE CO.: Mt. Tipton, 48 km N of Kingman, *Norris* 83, 29(?)-II-1976 (ASU 81336); fide J. L. Strother. This is the second known Arizona collection (cf. *Pinkava, et al.*, 1978).

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UNREPORTED CARICES FOR ARIZONA

CLARK SCHAACK

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Collections of the taxa reported below were made during a floristic study of the alpine tundra of the San Francisco Mountain, Flagstaff, Arizona (Schaack, 1970). Absence of these from Kearney & Peebles (1960), McDougall (1973) and Lehr (1978) suggests they remain unreported for the state. Vouchers are housed at ASC, Deaver Herbarium, Flagstaff.

CYPERACEAE. *Carex elynoides* Holm. Sedge. COCONINO: San Francisco Mtn., Flagstaff, Agassiz Peak, in gravel at 3618 m, SW ¼ Sec 32 T23N R7E, C. Schaack 166, 18-VII-1968 (ASC 26780). Verified by Dr. F. J. Hermann. Associated species with this and the following taxon include: *Luzula spicata* (L.) D. C. & Lam., *Carex albo-nigra* Mack., *Poa interior* Rydb., *Trisetum spicatum* (L.) Richt., and *Draba aurea* Vahl. var. *leiocarpa* (Payson & St. John) C. L. Hitchc. Cronquist et al. (1977) list the previous range for *Carex elynoides* as Colo. to SW Mont., and W. across Utah to the mts. of Elko and White Pines Cos., Nev. This species, then, reaches its southernmost station on the San Francisco Mountain.

Carex heteroneura W. Boott. var. *epapillosa* (Mack.) F. J. Herm. Sedge. COCONINO: San Francisco Mtn., Flagstaff, Agassiz Peak, 3587 m, SW ¼ Sec 32 T23N R7E, C. Schaack 317, 29-VI-1969 (ASC 26784). Determined by Dr. F. J. Hermann. This taxon is treated by Cronquist et al. (1977) as *Carex atrata* L. var. *erecta* W. Boott. For explanation, check the synonymy of *C. atrata* L. in Cronquist et al. (1977) and read the discussion as concerns *C. atrata* L. and *C. heter-*

oneura W. Boott. in Hermann (1970). The former range of this taxon, as given in Cronquist et al. (1977), is: Sierra Nevada of California. E. to the Wasatch, Uinta regions of Utah and N. to NW Montana and S. Washington. Apparently, this taxon also finds its southernmost station on the San Francisco Mountain.

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