

GLANDULARIA PUMILA (VERBENACEAE): NEW RECORD FOR ARIZONA

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ABSTRACT

Recent collections of *Glandularia pumila* from the San Bernardino National Wildlife Refuge of Cochise County, Arizona, are documented and illustrated. While this species is known from nearby states and Mexico, these collections represent the first verified occurrences for this species in Arizona.

In an ongoing floristic study of the San Bernardino National Wildlife Refuge, located in the San Bernardino Valley of southeastern Arizona, an addition to the known flora of Arizona has been documented. The San Bernardino NWR is located along the USA/Mexico border and encompasses an extensive riparian area and former cienega at the headwaters of the Rio Yaqui watershed (Figure 1). This 2369 acre refuge was established in 1982. For a history of this area prior to establishment of the refuge, see Hendrickson and Minckley (1985).

More than 25 mature plants of *Glandularia pumila* were found growing among boulders and on disturbed ground near a parking area in the refuge (Figure 2). Subsequently, hundreds of plants were found scattered over several acres in the floodplain of the refuge. This species has previously been known from New Mexico, Texas, Oklahoma, and one county in Arkansas (Sevier Co., Brinkley 47, GH), and Sonora and Tamaulipas in Mexico (Umber 1979; Allred & Ivey 2012; PLANTS Database 2024; SEINet 2024). Arizona records for this taxon are presented below.

***Glandularia pumila* (Rydb.) Umber**

Arizona. Cochise Co.: San Bernardino National Wildlife Refuge, approx. 17 mi E of Douglas on Geronimo Trail, San Bernardino Valley, 31.340487 -109.27136, elev. 1158 meters (3800 feet), locally common annual herb among boulders and on disturbed ground near a parking area, 22 Mar 2024, *Roll 4206* (ASU) and 24 Mar 2024, *Roll 4208* (ASU, ARIZ); 31.338367 -109.261167, elev. 1130 meters (3706 feet), locally abundant annual herb, hundreds of plants scattered over several acres in the floodplain of the refuge, 28 Mar. 2024, *Roll 4215* (ASU, ARIZ).

ACKNOWLEDGEMENTS

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Figure 1. San Bernardino National Wildlife Refuge. Photo by C.M. Roll, 24 Mar 2024.

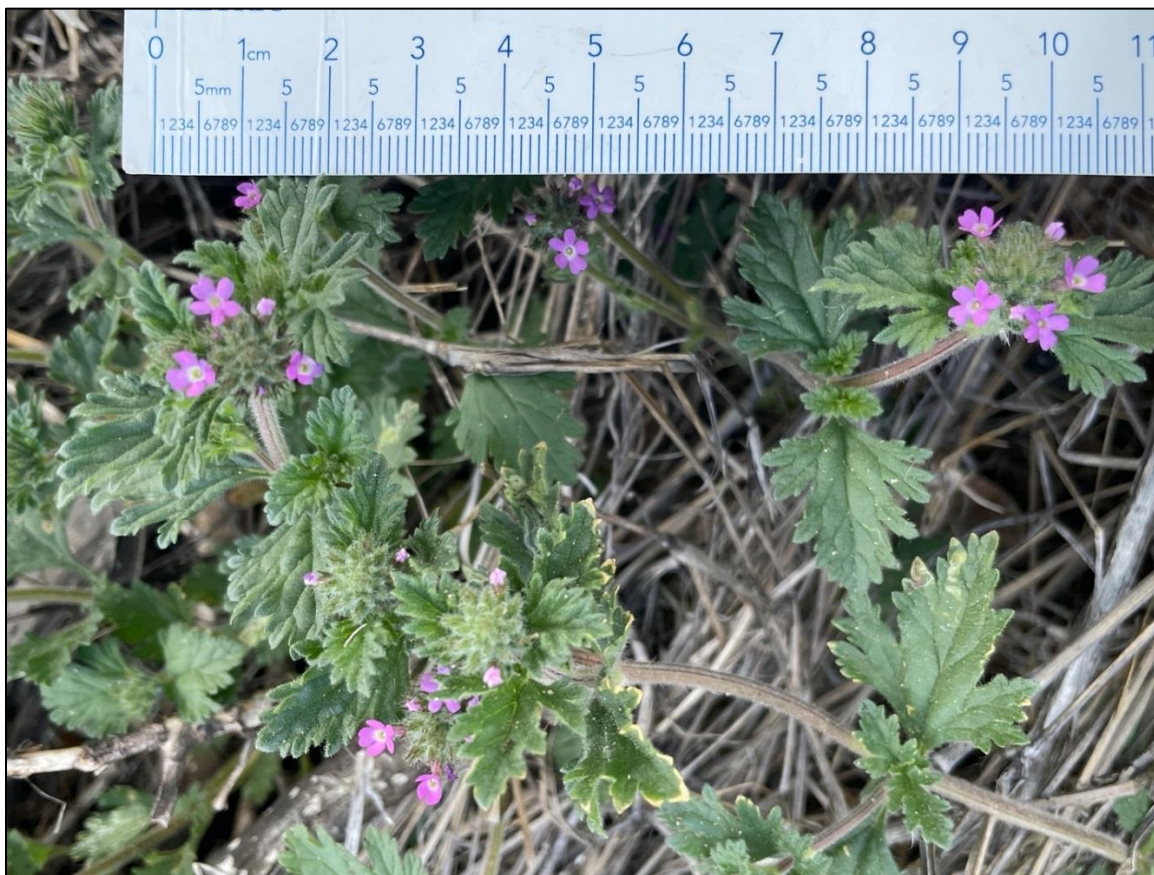


Figure 2. *Glandularia pumila* in the San Bernardino NWR. Photo by C.M. Roll, 24 Mar.2024.