

inaequales tenuissimae, interiores circa 15 lanceolatae in maturitate valde carinatae et spongioso-incrassatae; receptaculum areolatum; corolla 10 mm. longa, ligula 7 mm. longa 1.75 mm. lata flava; antherae 3.5 mm. longae; rami styli 1.4 mm. longi flavi; achaenia atropurpureo-fusca fusiformia valde attenuata 10-12-costata; pappus pallido-flavidus 5 mm. longus 1-seriatus persistens.

TANGANYIKA TERRITORY: Iringa Prov., Msima Stock Farm, grassland, 1636 m., *P. J. Greenway 3529 B* (UC 513276) type; Iringa Prov., Njombe, west of Msima Stock Farm, *Lynes D49* (K).

Cultivated specimens, grown in a greenhouse at Berkeley, from seed taken from the type collection, have faithfully reproduced the distinguishing features of this subspecies.

CREPIS PULCHRA L. subsp. TYPICA nom. nov. (*Crepis pulchra* L., Sp. Pl. 2:806. 1753.)

*Crepis pulchra* subsp. *africana* subsp. nov.—Capitula conspicuora patentia diurne; corolla 10-12 mm. longa, ligula 2 mm. lata in dorso purpurea, tubo 3.5 mm. longo; antherae 3-3.5 mm. longae nigro-virides ad basim flavides; rami styli 1.25 mm. longi nigro-virides; achaenia biformia, exterioribus obcompressis 5.5 mm. longis 0.5 mm. latis sine pappo, interioribus teretibus 4.5 mm. longis 0.7 mm. latis spiculatis vel glabris et striatis; pappus albus circa 5 mm. longus.

Known with certainty only from the vicinity of Algiers; but one specimen (in Herb. Missouri Bot. Gard.) collected by Muschler in Upper Egypt, may be this. It may also occur in Morocco.

ALGERIA: Alger, rocks of Telemly, *Maire* in 1930 (UC 544662) type.

*Crepis pulchra* subsp. *turkestanica* subsp. nov.—Capitula conspicuora quam in typica patentia diurne; corolla 10-12 mm. longa, 2.5 mm. lata concolore, tubo 2.5 mm. longo; antherae 3.75 mm. longae vigro-virides; rami styli 1-1.5 mm. longi nigro-virides; achenia biformia, exterioribus obcompressis 5-6 mm. longis 0.3-0.5 mm. latis sine pappo, interioribus teretibus 4-5 mm. longis 0.3-0.5 mm. latis spiculatis vel glabris et striatis; pappus albus 3-5 mm. longus.

Central and southern Turkestan, Afghanistan and westward through Persia and Turkey.

TURKESTAN: ex hort. genet. Calif. 29.2566-4, cult. from seed coll. by Dr. Zaetsev, Tashkent Plant Breeding Station (UC 531830) type; Samarkand dist., Pistaly-tan Mts., *Spiridonow* in 1915 (UC).

CREPIS REUTERIANA Boiss. subsp. TYPICA nom. nov. (*Crepis Reuteriana* Boiss., Diagn. Pl. Orient. Nov. ser. 1, 11:55. 1849.)

*Crepis Reuteriana* subsp. *Eigiana* subsp. nov.—Caules 0.8-5.5 dm. alti; radix valde lignea elongata; caudex 0.5-2 cm. latus; folia caudicalia oblanceolata acuta repando-dentata vel pinnatifida petiolata dense glanduloso- et glanduloso-pubescentia; folia caulina similia vel reducta bracteaformia; caules erecti ramosi, ramis strictis vel divaricatis oligocephalis; capitula medioeria 20-flora; involucreum cylindricum 8-13 mm. longum dense glandulosum; squamae exteriores 8-10 parvae, interiores 10-13 valde carinatae et spongioso-incrassatae; corolla 10-15 mm. longa; antherae 3-4.5 mm. longae; rami styli flavi; achaenia flavidula 5-7 mm. longa 1-1.25 mm. lata fusiformia; pappus albus 5-6 mm. longus 2-3-seriatus tenuissimus.

Mountains of northern Liban, northwestern Syria and Cilicia.

SYRIA: northern Liban, *Cedrus* forest above Bscherre, 1880 m., *Eig and Zohary* in 1931 (UC 466625) type. TURKEY: Cilicia, Taurus Range, Bozante hills, 800 m., *Eig and Zohary* in 1931 (UC).