

The *Oxygonum dregeanum* complex (Polygonaceae)

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Keywords: new status, new taxa, *Oxygonum dregeanum* complex, Polygonaceae, southern Africa, taxonomy

ABSTRACT

The *Oxygonum dregeanum* Meisn. complex was studied. The following taxa are given a new status: subsp. *swazicum* (Burtt Davy) Germishuizen, stat. nov. and subsp. *canescens* (Sond.) Germishuizen, stat. nov. Four new varieties of subsp. *canescens* are described: var. *linearifolium* Germishuizen, var. nov.; var. *dissectum* Germishuizen, var. nov.; var. *pilosum* Germishuizen, var. nov. and var. *lobophyllum* Germishuizen, var. nov. Two new subspecies are described: subsp. *streyi* Germishuizen, subsp. nov. and subsp. *lanceolatum* Germishuizen, subsp. nov.

UITTREKSEL

Die kompleks *Oxygonum dregeanum* Meisn. is bestudeer. Nuwe status is aan die volgende taksons toegeken: subsp. *swazicum* (Burtt Davy) Germishuizen, stat. nov. en subsp. *canescens* (Sond.) Germishuizen, stat. nov. Vier nuwe variëteite van subsp. *canescens* word beskryf: var. *linearifolium* Germishuizen, var. nov.; var. *dissectum* Germishuizen, var. nov.; var. *pilosum* Germishuizen, var. nov. en var. *lobophyllum* Germishuizen, var. nov. Twee nuwe subspesies word beskryf: subsp. *streyi* Germishuizen, subsp. nov. en subsp. *lanceolatum* Germishuizen, subsp. nov.

As part of a revision of the genus *Oxygonum* Burch. in southern Africa, to be published in the *Flora of southern Africa*, the *Oxygonum dregeanum* complex was studied. Two subspecies and four varieties are new and are here described. A list of the changes in rank of the different taxa of *Oxygonum dregeanum* are given.

Oxygonum dregeanum Meisn. in Linnaea 14: 487 (1840). Type: neighbourhood of Omsamculo (Umzimkulu) (location and collector uncertain).

(a) subsp. *dregeanum*.

O. dregeanum Meisn.: 487 (1840); C.H. Wr.: 461 (1912); Tikovsky & Merxm.: 4 (1969); *O. dregeanum* Meisn. var. *dregeanum* — R.A. Grah.: 166 (1957); Ross: 156 (1972). Type as above.

O. dregei Meisn.: 38 (1856). Type: Port Natal, Krauss 283 [K, lecto!], designated by Graham: 166 (1957)]

O. natalense Schltr.: 92 (1907). Type: Natal, Alexandria, Rudatis 74 (Type not seen).

Found in grassland in sandy soil in Natal and Transkei. Figure 1.

Vouchers: Huntley 717 (NH, PRE); Johnson 414 (NBG, STE-U); Strey 8861 (PRE); Wood 628 (GRA, PRE, SAM).

(b) subsp. *streyi* Germishuizen, subsp. nov., a subspecies typica habitu multiramoso, caudice longo cylindrico rubro, ocrea subulato-lobata, inflorescentia brevi differt.

TYPE.—Natal, 3030 (Port Shepstone): Sea Park, R.G. Strey 11369 (PRE, holo; NH). Figure 2.

Robust, spreading, decumbent perennial herb, much branched from a long, thick, red vertical rootstock; root-

stock over 200 mm long and 25 mm in diameter. Stems angular, longitudinally ridged, reddish brown, densely hairy with white velutinous appressed hairs, rarely glabrous; with short internodes. Ocrea membranous, lobed, reddish brown, densely hairy with white velutinous appressed hairs, 4–5 mm long; lobes 3,0–4,5 mm long, ending in a narrow red tip. Leaves simple, sessile, glabrous except for white velutinous appressed hairs along the midrib and base of the leaves; blade elliptic to narrowly obovate, (8)13–31(32) × (1,5)3–12 mm, acuminate, ending in a stiff tip, margins crisped. Inflorescence a short axillary thyrsus with fascicles of 1–4 flowers in the axils of the cup-shaped bracts; axis 40–100 mm long. Perianth 5-lobed, white, glabrous except for the dense pilose hairs at the base; the lobes free almost to the base, 5–8 × 2,5 mm, the outer 2 segments keeled at the apex; pedicels up to 4 mm long, glabrous. Stamens 8, inserted on the inner perianth; anthers 1 mm long, reddish brown; filaments 4–5 mm long, with a basal ring of reddish cilia.

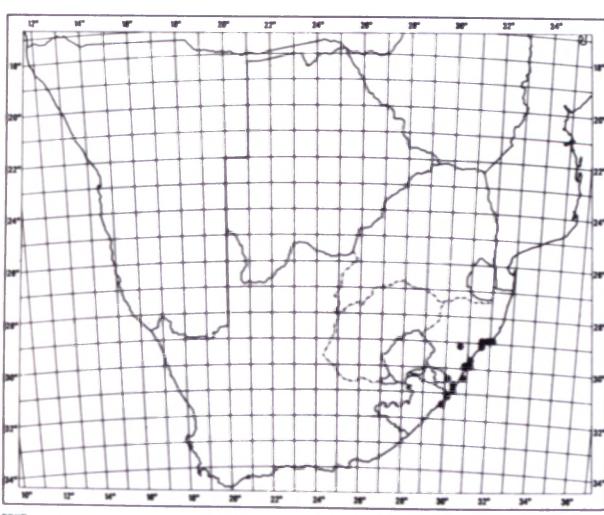


FIGURE 1.—Distribution of *Oxygonum dregeanum* subsp. *dregeanum*.

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MS. received: 1988.01.19.



FIGURE 2.—Holotype of *Oxygonum dregeanum* Meisn. subsp. *streyi* Germishuizen.

Styles 3, up to 5 mm long, joined for three-quarters of their length; stigmas capitate. *Fruit* 9 × 3 mm, ovoid, longitudinally ridged, warty between the ridges, velvety, crowned with the persistent perianth.

Occurs mostly in coastal grassland and palm veld on sandy soils in Natal. Figure 3.

NATAL.—2632 (Bella Vista): 40 km from Ndumu on road to Kosi Bay (—DC), *Strey 10305* (NH, PRE). 2732 (Ubombo): 8 km south of Muzi (—AD), *Ross & Moll 5097* (NH, PRE); IDC rice project site, 2 km from turnoff to Phelendaba on Mbazwana road (—BA), *Germishuizen 3639* (PRE); just east of Vazi Swamp, Mazengwenya (—BA), *Moll 4741* (PRE); between Lake Vazi and Sibayi area (—BA), *Vahrmeijer 1088* (PRE); 16 km north of Lake Sibayi on road to Maputo (—BC), *Vahrmeijer & Toelken 265* (NH, PRE); Sordwana Bay (—DA), *Gerstner 3683* (NH, PRE); near Bhangazi, Sordwana State Forest (—DA), *MacDevette 1235* (NH, PRE). 2830 (Dundee): Qudeni (—DB), *Gerstner 3967* (NH, PRE). 2832 (Mtubatuba): Richards Bay (—CC), *Venter 4873* (PRE). 2930 (Pietermaritzburg): Inanda (—DB), *Medley Wood 313* (K); Clairmont (—DD), *Medley Wood 10497* (NH); *Schlechter 2950A* (NH). 3030 (Port Shepstone): Sea Park (—CB), *Strey 11369* (NH, PRE); Munster (—CC), *Gemmell*

s.n. (PRE); Uvongo (—CD), *Acocks 10907* (PRE); *Liebenberg 8102* (PRE); *Mogg 13160* (PRE); Margate, Village of Happiness (—CD), *Coleman 659* (NH); Margate (—CD), *Strey 10940, 11023* (NH, PRE); *11069* (NH); St. Michaels on Sea (—CD), *Nicholson 82* (NH). 3130 (Port Edward): Port Edward (—AA), *Nicholson 1712* (PRE); *Taylor 5383* (NBG); near Omobaleni (Mgungu) (—AA), *Acocks 13385* (PRE).

This taxon is readily distinguished from the others by the much branched decumbent habit, the short internodes, the long, red, cylindrical rootstock and the short axillary inflorescences.

This subspecies is named in honour of Mr R.G. Strey, who brought to my attention the fact that this taxon is different from the typical species.

(c) subsp. *swazicum* (Burtt Davy) Germishuizen, stat. nov.

O. zeyheri Sond. var. *swazicum* Burtt Davy: 167 (1926). Type: Swaziland, Stewart s.n. (K, holo!).

O. dregeanum Meisn. var. *swazicum* (Burtt Davy) R. Grah.: 167 (1957).

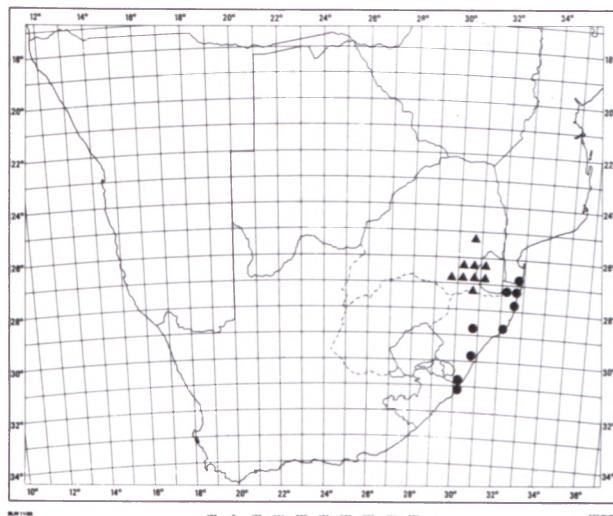


FIGURE 3.—Distribution of *Oxygonum dregeanum* subsp. *streyi*, ●; subsp. *swazicum*, ▲.

Occurs in eastern and south-eastern Transvaal and Swaziland (Figure 3). This taxon is distinguished from the typical subspecies in having deeply linear-lobed leaves and an unevenly lobed ocrea.

Vouchers: *Bolus* 12260 (BOL, PRE); *Kluge* 287 (PRE); *Rogers* 11484 (K, NH); *Stewart s.n.* TM 8880 (GRA, PRE).

(d) subsp. *canescens* (*Sond.*) *Germishuizen*, stat. nov.

O. canescens Sond.: 100 (1850); Meisn.: 38 (1856); C.H. Wr.: 462 (1912); Burtt Davy: 167 (1926); Compton: 192 (1976). *O. dregeanum* Meisn. var. *canescens* (Sond.) R. Grah.: 167 (1957). Type: Transvaal, Aapjesrivier, Zeyher 1451a (W, holo!).

O. zeyheri Sond.: 100 (1850); Meisn.: 38 (1856); C.H. Wr.: 460 (1912); Burtt Davy: 167 (1926); Compton: 192 (1976). Type: Transvaal, Magaliesburg, Zeyher 1451b (W, holo!).

O. calcaratum Meisn.: 38 (1856); Schinz: 870 (1901); C.H. Wr.: 462 (1912); Burtt Davy: 167 (1926). Type: British Bechuanaland [northern Cape Province], 'near the source of Kuruman river', Burchell 2459 (K, holo!).

Annual herb, up to 0,5 m tall, much branched from a thick vertical perennial woody rootstock. Stems angular, sulcate, erect, occasionally decumbent, not much swollen at the nodes, finely to densely white strigose puberulous, long pilose or rarely glabrous, sometimes dotted with black glands. Ocreae lobed, up to 5 mm long, finely to densely strigose puberulous; lobes triangular, ending in slender red seta, nearly as long as the tube. Leaves (10–) 15–65(–70) × (1–)2–20(–26) mm, fleshy, linear, lanceolate or rhomboid, entire or with 1–2 short teeth at the base or deeply pinnately or bipinnately lobed; the lobes linear, further lobed, acute, sometimes with a red mucro, narrowing and tapering to a short petiole, white strigose puberulous. Inflorescence a long lax thyrsus with fascicles of up to 3 flowers in the axils of the brown, ovate cuspidate membranous bracts without seta. Perianth 5-lobed, white, yellow or pinkish; lobes oblong, up to 5 mm long, densely white pilose outside below; pedicels up to 4 mm long, reddish brown, glandular, pubescent. Stamens 8, included; filaments white, up to 5 mm long, with a ring of red-brown cilia one eighth from the base; anthers blue, up to 1 mm long. Styles heterostylous, 3, up to 5 mm long, joined for half their length; ovary pubescent with 3 basal horns. Fruit an ovoid nut, up to 10 × 5 mm, 9-ridged, transversely wrinkled, sometimes

with a small spreading prickle a third of the way from the base, long and sharp or short and obtuse, obscurely puberulous.

Five varieties are recognized that can be distinguished by the lobing of the leaves.

var. *canescens*

The leaves are deeply divided into 3–9 lobes. Only the lower lobes are shallowly divided again. Occurs in open grassland, savanna and thornveld on red sandy soils in Botswana, Transvaal, northern Orange Free State and northern Cape Province. Figure 4.

Vouchers: *Bayliss* 4515 (NBG, PRE); *Louw* 94 (GRA, PRE); *Morris & Engelbrecht* 1070 (PRE); *Pegler* 991 (BOL, PRE, SAM).

var. *linearifolium* *Germishuizen*, var. nov., a variete typica foliis linearibus integris differt.

TYPE.—Transvaal, Pretoria District, beside freeway to eastern Transvaal at turnoff to Onbekend, *Mauve & Reid* 5326 (PRE, holo.). Figure 5.

A much branched herb with linear leaves, rarely with 1–2 short teeth at the base of lower leaves. Stems and leaves often dotted with black glands. Occurs in grassland, sour bushveld and in disturbed area along roadsides in the central, southern and south-eastern Transvaal and northern Natal. Figure 6.

TRANSVAAL.—2527 (Rustenburg): Jack Scott Private Nature Reserve (–DC), *Wells* 2405 (PRE). 2528 (Pretoria): Great North Road at turnoff to Rust De Winter (–AD), *Mauve, Reid & Smook* 5315 (PRE); Kwandebelle, Gemsbokfontein Farm (–BD), *Van Hoepen* 1680 (PRE); Pretoria (–CA), *Rogers s.n.* (PRE); *Rooikop* (–CA), *Smuts & Gillett* 2124 (PRE); Kwaggaspoort (–CA), *Verdoorn s.n.* (PRE); Rietvallei 221 (–CA), *Acocks* 11280 (PRE); Koedoespoort (–CB), *Wermann & Oberdieck* 1244 (PRE); Van der Merwe Station (–CB), *Janse* 55 (PRE, SAM); Donkerhoek, 35 km from Pretoria (–CD); *Repton* 672 (PRE); 1,8 km S of Rayton on road to Cullinan (–DA), *Davide* 5988 (PRE); Premier Mine (–DA), *Menzies s.n.* (PRE); 37 km E of Pretoria (–DC), *Dyer & Collett* 4680 (PRE); Bronkhorstspruit, Kaalfontein 613 JR Farm (–DC), *Krynaar* 985 (PRE); beside freeway to eastern Transvaal at turnoff to Onbekend (–DC), *Mauve & Reid* 5326 (PRE). 2529 (Witbank): Groblersdal (–AB), *Venter* 2971 (PRE); NW side of Loskopdam (–AC), *Reid* 686 (PRE); 'The Hell', near Loskop-

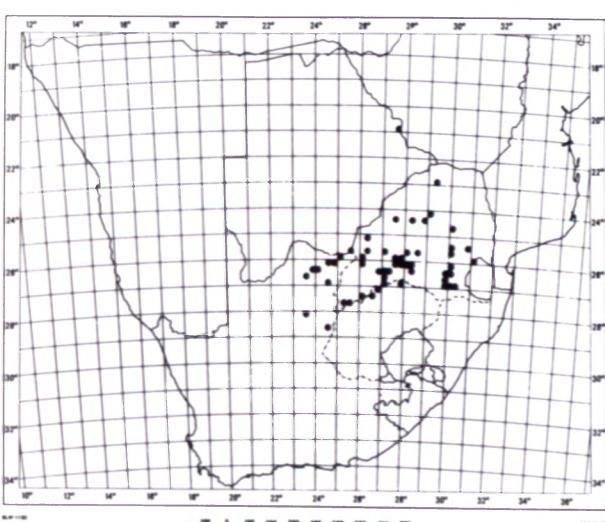


FIGURE 4.—Distribution of *Oxygonum dregeanum* subsp. *canescens* var. *canescens*.



FIGURE 5.—Holotype of *Oxygonum dregeanum* Meisn. subsp. *canescens* (Sond.) Germishuizen var. *linearifolium* Germishuizen.

dam (-AD), Germishuizen 1392 (PRE); Loskopdam, Tweeloopfontein (-AD), Theron 1716, 2026 (PRE, PRU); Witbank (-CC), Rogers 2568 (GRA); between Bronkhorstspruit and Witbank (-CC), Killick 3839 (PRE). 2530 (Lydenburg): Skurweberg, Makobulaan (-BA), Onderstall 1201 (PRE). 2628 (Johannesburg): Modderfontein (-AA), Prosser s.n. (NBG, PRE); 43 km SE of Pretoria, 1 mile (1,6 km) E of Bapsfontein (-BB), Codd 2575 (PRE). 2629 (Bethal): Breyten (-BD), Steyn 999 (NBG).

NATAL.—2730 (Vryheid): Mooihook (-AC), Devenish 938 (PRE); 11 km from Vryheid on road to Louwsburg (-DD), Germishuizen 2260 (PRE).

var. *dissectum* Germishuizen, var. nov., a varietate typica lobis profundioribus, pluribus, et apicibus (loborum) acutis differt.

TYPE.—Transvaal, Pietersburg, Feb. 1904, H. Bolus s.n. (BOL, holo.; GRA). Figure 7.

The leaves of this plant are deeply divided and the lobes in turn are again divided; each lobe ending in a

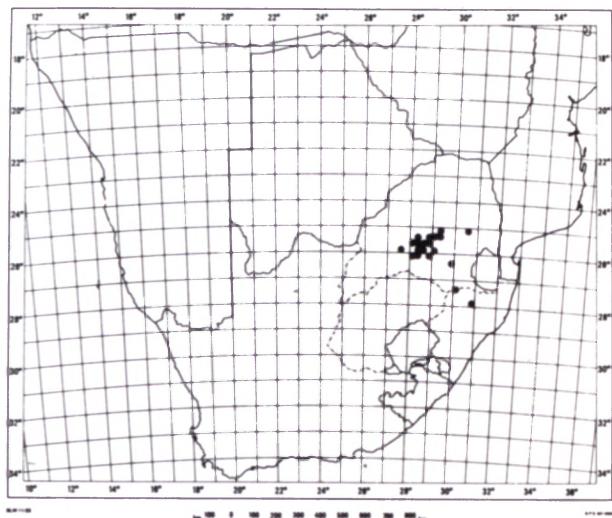


FIGURE 6.—Distribution of *Oxygonum dregeanum* subsp. *canescens* var. *linearifolium*.

long slender tip. Occurs in grassland in sandy soils in the northern Transvaal, especially in the Pietersburg area. Figure 8.

TRANSVAAL.—2329 (Pietersburg): Blinkwater (—AA), *Bremekamp & Schweickerdt* 188 (PRE); Pietersburg (—CD), *Bolus s.n.* (BOL, GRA); Pietersburg Nature Reserve (—CD), *Bredenkamp & Van Vuuren* 123 (PRE); Marabastad (—CD), *Nelson* 118 (PRE). 2428 (Nylstroom): Naboomspruit, Mosdene (—DA), *Galpin* M305 (PRE, SAM). 2429 (Zebedielia): Percy Fyfe Nature Reserve (—AA), *Huntley* 1146, 1550 (PRE); Lunklip, about 32 km NNE of Potgietersrust (—AA), *Maguire* 1370 (NBG).

var. *pilosum* *Germishuizen*, var. nov., a varietate typica lobis inferioribus foliorum longioribus et plantis pilosis differt.

TYPE.—Transvaal, Twentyfour Rivers, *F.A. Rogers* 23637 (PRE, holo.). Figure 9.

This taxon differs from the typical variety by the lower lobes of the leaves being over 15 mm in length, and the whole plant covered with long white pilose hairs.

Occurs only in the north-western Transvaal, especially in the Waterberg area in savanna on sandy soils. Figure 8.

TRANSVAAL.—2428 (Nylstroom): Alma, 56 km NW of Warmbaths (—AC), *Bayliss* 2007 (NBG); Van Rensburg Farm, 43 km along Nylstroom-Vaalwater road (—AC), *Leeuwenberg* 10900 (PRE); Waterberg, Vaalwater, Farm Nooitgedacht (—AC), *Westfall* 2279 (PRE); Waterberg, Zandvierspoort near Alma on Farm Witpoort (—AC), *Van Wyk* 2679 (PRE, PRU); Twenty-four Rivers (—AD), *Rogers* 23637 (PRE); Geelhoutkop (—AD), *Breyer s.n.* (PRE).

var. *lobophyllum* *Germishuizen*, var. nov., a varietate typica lobis foliis latioribus et lobis ocreae triangularibus differt.

TYPE.—Transvaal, 18 km ENE of Pretoriuskop, *Acocks* 16643 (PRE, holo.). Figure 10.

The leaves are shallowly and deeply lobed but not divided up to the midrib, rarely entire; lobes usually wider than 2 mm. Occurs in the northern and eastern Transvaal and Swaziland in woodland, bushveld and grassland in sandy loam or granitic soils. Figure 8.

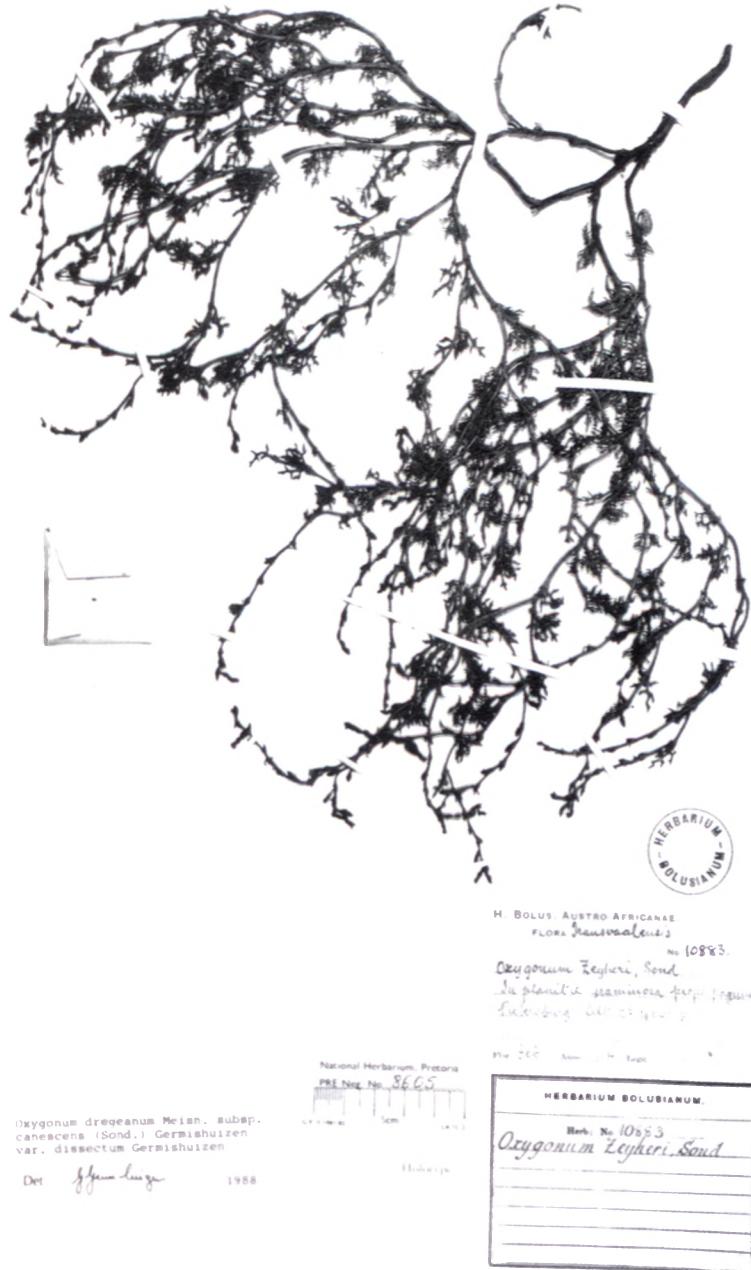


FIGURE 7.—Holotype of *Oxygonum dregeanum* Meisn. subsp. *canescens* (Sond.) Germishuizen var. *dissectum* Germishuizen.

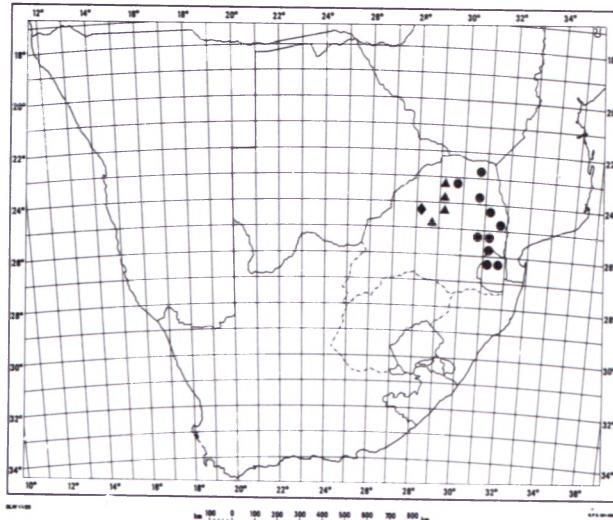


FIGURE 8.—Distribution of *Oxygonum dregeanum* subsp. *canescens* var. *dissectum*, ▲; var. *pilosum*, ♦; var. *lobophyllum*, ●.

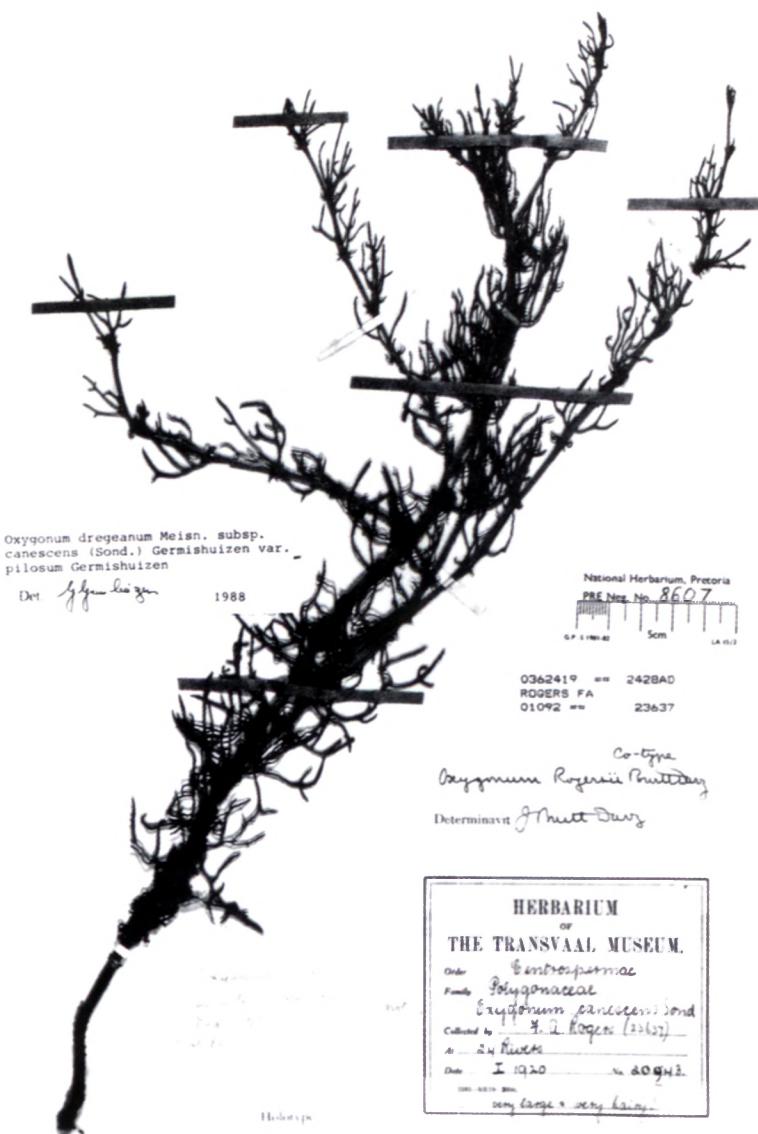


FIGURE 9.—Holotype of *Oxygonum dregeanum* Meisn. subsp. *canescens* (Sond.) Germishuizen var. *pilosum* Germishuizen.

TRANSVAAL.—2230 (Messina): Venda, Ha-Lambani (-DD), *Mugwedi* 1665 (PRE). 2329 (Pietersburg): 13 km from Bandolierskop on Pietersburg road (-BD), *Story* 1833 (PRE). 2330 (Tzaneen): Hans Merensky Nature Reserve (-DA), *Oates* 88, 128 (PRE). 2431 (Acornhoek): Farm Kempiana 90 KU, Timbavati Private Nature Reserve (-AD), *Zambatis* 1470 (PRE); Pilgrims Rest District, Manyeleti Game Reserve (-DA), *Bredenkamp* 1262, 1382 (PRE). 2530 (Lydenburg): Nelspruit (-BD), *Breyer* s.n. (PRE); Nelspruit Research Station (-BD), *Liebenberg* 2752 (PRE). 2531 (Komatiportoort): Kruger National Park, 18 km ENE of Pretoriuskop (-AB), *Acocks* 16643 (PRE); near Pretoriuskop (-AB), *Codd & De Winter* 4933 (PRE); 10 km N of Pretoriuskop on road to Skukuza (-AB), *Codd & De Winter* 4993, 4994 (PRE); Nohpe (-AB), *Van der Schijff* 1541 (PRE); Kaapmuiden (-CB), *Rogers* s.n. (PRE).

SWAZILAND.—2631 (Mbabane): Malinda Hill (-AC), *Compton* 28433, 29775 (NBG, PRE); Stegi District, Sicusha (-BC), *Compton* 32472 (NBG, PRE).

(e) subsp. *lanceolatum* Germishuizen, subsp. nov. a subspecie typica foliis angustioribus et tepalis vinoso-rubris differt.

TYPE.—Transvaal, Lekgalameetse Nature Reserve, The Downs, Makwens, *M. Stalmans* 192 (PRE, holo.). Figure 11.

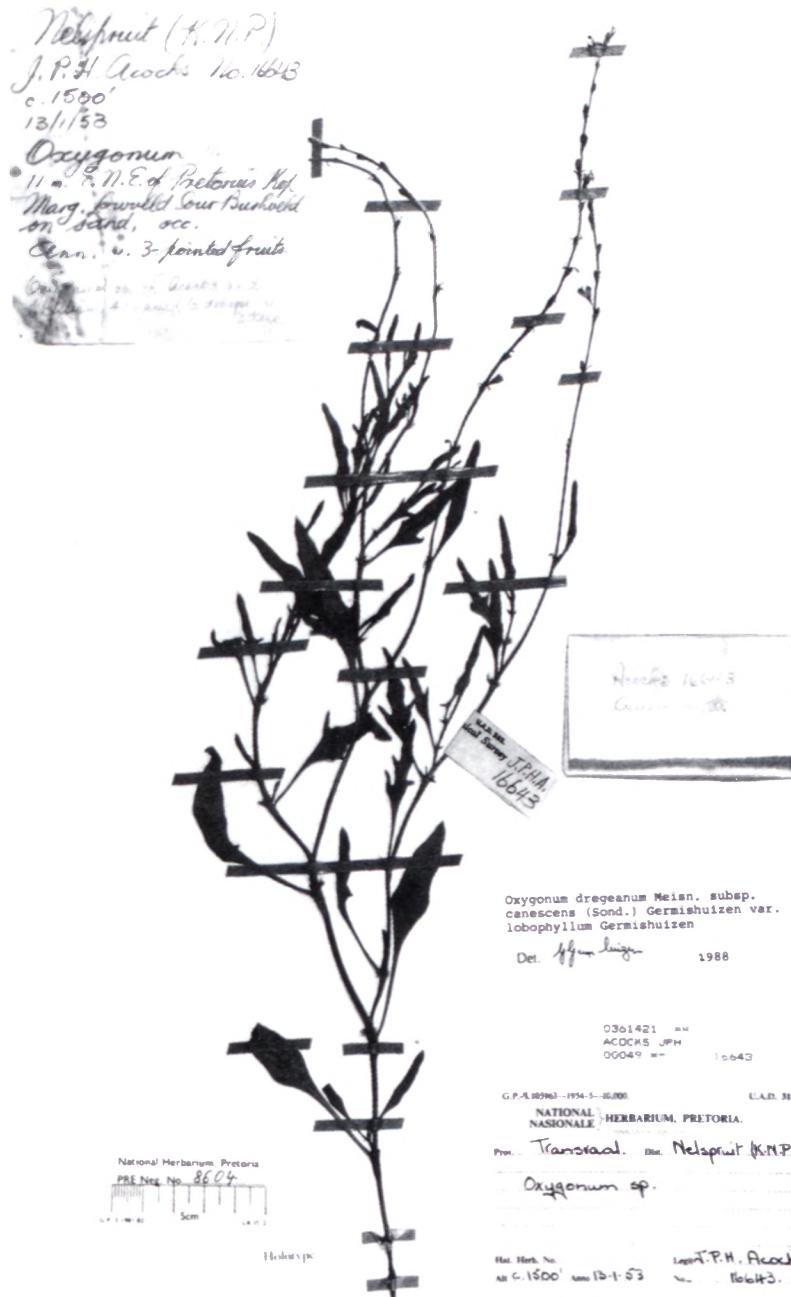


FIGURE 10.—Holotype of *Oxygonum dregeanum* Meisn. subsp. *canescens* (Sond.) Germishuizen var. *lobophyllum* Germishuizen.

Robust herb, arising from a thick vertical perennial woody rootstock, with many erect annual stems up to 0,3 m long. Stems much branched, angular, sulcate, finely and densely strigose puberulous, rarely glabrous, sometimes reddish tinged. Ocrea up to 8 mm long, lobed, membranous, brown, sometimes with a reddish tinge, white strigose puberulous, rarely glabrous; lobes up to 4 mm long, ending in a narrow red tip. Leaves (15–) 20–33(–40) × (1–)1,5–3,5(–8) mm, lanceolate to narrowly ovate, rarely lobed towards base, glabrous except for a few white appressed hairs along the midrib at base and along margins, rarely white strigose puberulous, acute, all ending in a stiff point, tapering to narrow petiole, mostly with dark red margins especially near apex. Inflorescence an axillary or terminal thyrsus with up to 3 flowers in brown, cuspidate, cup-shaped bracts; axis 50–200 mm long. Perianth 5-lobed, white, deep pink or wine-red tinged along centre on outside of outer 3 lobes, densely pilose at base becoming glabrous towards the apex; lobes free almost to base, up to 7 mm long, outer 3 lobes keeled at apex; pedicels strigose, up to 4

mm long. Stamens 8, inserted on inner perianth lobes; filaments of different lengths, up to 5 mm long; anthers up to 1,5 mm long, reddish brown, with a ring of reddish brown cilia at base. Styles 3, heterostylous, 2,5–6,0 mm long, joined for less than half their length. Fruit an ovoid nut, up to 12 mm long, slightly 3-angled, usually without 3 blunt teeth at base, 9-ridged, transversely wrinkled, glabrous.

Found in open grassland and on montane rocky grassland, or rarely in woodland in Transvaal, Swaziland and Natal. Figure 12.

TRANSVAAL.—2430 (Pilgrims Rest): Lekgalameetse Nature Reserve, Makwens (–AA), Stalmans 192 (PRE); Haffenden Heights (–AA), Stalmans 174 (PRE); road to Makwens (–AA), Stalmans 634 (PRE); The Downs (–AA), Junod 4253 (PRE), Stalmans 1452 (PRE); on top of Orrie Baragwanath Pass (–AA), Reid 1159 (PRE); Ohrigstad Dam Nature Reserve (–DC), Jacobsen 1769 (PRE); Mount Sheba Nature Reserve, N slope of Mount Sheba (–DD), De Winter 9361 (PRE); Graskop (–DD), Galpin 14569 (PRE); Graskop, Stanley Bush Kop (–DD), P. & G. Raal 1035 (PRE); Pilgrims Rest (–DD), Rogers 14314 (PRE). 2530 (Lydenburg): Boschhoek, western Steen-

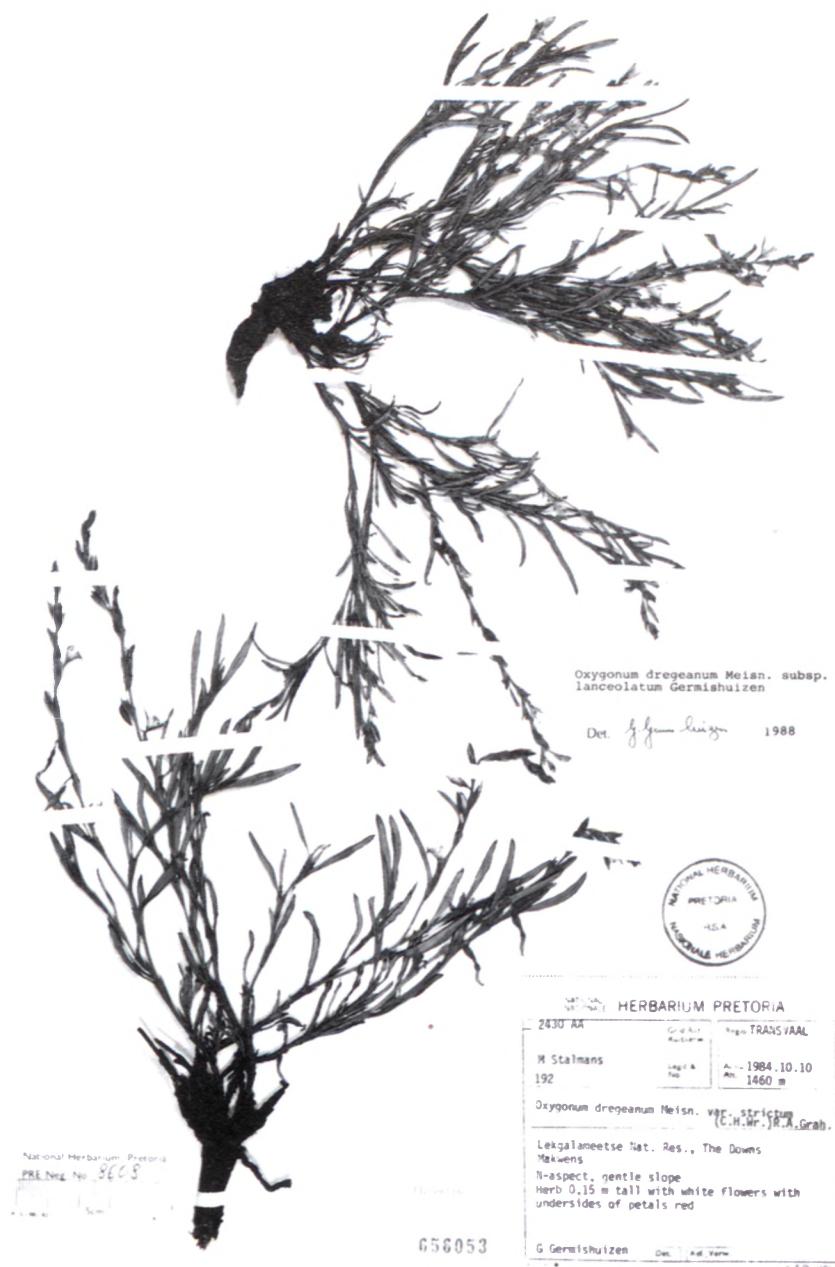


FIGURE 11.—Holotype of *Oxygonum dregeanum* Meisn. subsp. *lanceolatum* Germishuizen.

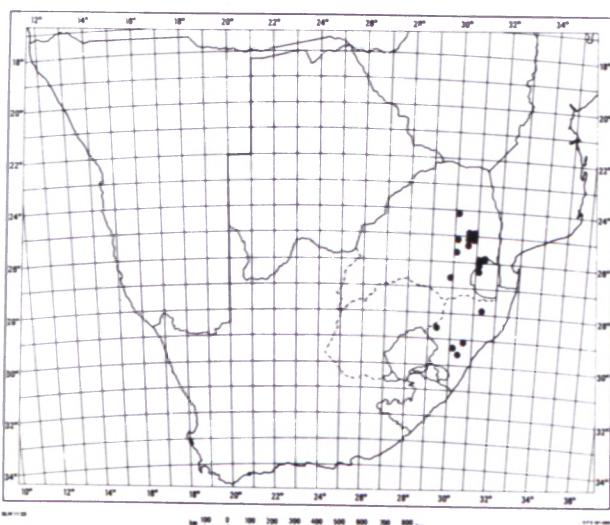


FIGURE 12.—Distribution of *Oxygonum dregeanum* subsp. *lanceolatum*.

kampsberg (-AA), *Young A407* (PRE); Hartebeestvlakte (-BA), *Mohle 151* (PRE); Mauchsberg, Sabie (-BB), *Smuts & Gillett 2306* (PRE, STE-U); Wonderkloof Nature Reserve (-BC), *Elan-Puttick 128* (PRE); Belfast (-CA), *Jenkins s.n.* (PRE). 2531 (Komatipoort): Barberton (-CC), *Pott 5469* (PRE); *Thornicroft s.n.* (PRE); Saddleback Mountain (-CC), *Galpin 615* (NH, PRE, SAM); Osterbeek Farm, 5 km S of Barberton (-CC), *De Sousa 626* (PRE); Swaziland border, Daylight Farm, Bearded Man Mountain (-CD), *Buitendag 756* (NBG, PRE). 2629 (Bethal): Ermelo (-DB), *Riley 12* (PRE).

SWAZILAND.—2531 (Komatipoort): Havelock Mine, Pigg's Peak (-CC), *Miller 2988* (PRE). 2631 (Mbabane): Malolotja Nature Reserve, Nkhaba (-AA), *Heath 470* (PRE); Black Mbuluzi Valley (-AA), *Dlamini s.n.* (NBG, PRE); Ukutula (-AC), *Compton 25256* (NBG, PRE); *Compton 24501* (NBG).

NATAL.—2731 (Louwsburg): 15 km from Ngome Forest Station on road to Vryheid (-CD), *Germishuizen 2133* (PRE); 12 km from Ngome Forest Station on road to Vryheid (-CD), *Buthelezi 115* (NH, PRE). 2829 (Harrismith): Klip River, Strydhoek, Tintwa Mountains (-CB), *Dodge s.n.* (PRE). 2930 (Pietermaritzburg): Tweedie (-AC), *Curator Pretoria 3462* (PRE); Greytown (-BA), *Wylie s.n.* (PRE); Pietermaritzburg, Table Mountain (-CB), *Killick 732* (NBG).

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