

## Miscellaneous notes

### VARIOUS AUTHORS

#### CHROMOSOME STUDIES ON AFRICAN PLANTS. 2.

The representation of chromosome numbers in this report conforms with the outlay described in the first publication in this series (Spies & Du Plessis 1986).

#### POACEAE

##### Andropogoneae

*Bothriochloa insculpta* (A. Rich.) A. Camus: **n = 20, 25, 30.**

TRANSVAAL. — 2528 (Pretoria): 35 km from Warmbaths to Pretoria (–AB), *Spies 2039* (n = 25), *2045* (n = 20); near Sphinx Station (–CA), *Spies 2008* (n = 30), *2017* (n = 20).

*Cymbopogon validus* (Stapf) Stapf ex Burt Davy: **n = 15.**

CAPE PROVINCE. — 3227 (Stutterheim): 12 km from East London to McCleantown (–DD), *Spies 1954*.

*Dichanthium aristatum* (Poir.) C. E. Hubb.: **n = 20, 30.**

TRANSVAAL. — 2428 (Nylstroom): 10 km from Warmbaths to Pretoria (–CD), *Spies 2049* (n = 20). 2528 (Pretoria): near Turfpan (–AB), *Spies 2057* (n = 30); near Sphinx Station (–CA), *Spies 2007, 2012, 2015, 2016* (n = 20).

*Heteropogon contortus* (L.) Roem. & Schult.: **n = 10.**

TRANSVAAL. — 2530 (Lydenburg): 13 km from Lydenburg to Roosenekal (–AB), *Spies 1509*.

*Hyparrhenia hirta* (L.) Stapf: **n = 30.**

TRANSVAAL. — 2528 (Pretoria): near Sphinx Station (–CA), *Spies 2027*.

*Hyparrhenia quarrei* Robyns: **n = 30.**

TRANSVAAL. — 2529 (Witbank): 67 km from Lydenburg to Roosenekal (–BB), *Spies 1633*.

*Hyparrhenia tamba* (Steud.) Stapf: **n = 10.**

TRANSVAAL. — 2528 (Pretoria): next to Pienaar's River along road between Pretoria and Bronkhorstspuit (–CD), *Spies 2067*.

*Themeda triandra* Forssk.: **n = 10.**

CAPE PROVINCE. — 3325 (Port Elizabeth): Near Paterson (–BD), *Spies 1107*.

##### Paniceae

*Brachiaria bovonei* (Chiov.) Robyns: **n = 45.**

TRANSVAAL. — 2530 (Lydenburg): 13 km from Lydenburg to Roosenekal (–AB), *Spies 1511*.

*Cenchrus ciliaris* L.: **n = 22.**

TRANSVAAL. — 2528 (Pretoria): near Sphinx Station (–CA), *Spies 2028*.

*Coelorhachis capensis* Stapf: **n = 9.**

CAPE PROVINCE. — 3227 (Stutterheim): Kabusie Forest (–CB), *Spies 1914*.

*Digitaria setifolia* Stapf: **n ≅ 54.**

TRANSVAAL. — 2530 (Lydenburg): 18 km from Dullstroom to Goede Hoop (–AC), *Spies 1476*.

*Echinochloa* sp. Beauv.: **n = 27.**

TRANSVAAL. — 2528 (Pretoria): near Sphinx Station (–CA), *Spies 2024*.

*Pennisetum setaceum* (Forssk.) Chiov.: **n = 18.**

CAPE PROVINCE. — 3325 (Port Elizabeth): 3 km from Kirkwood to Waterford (–AD), *Spies 1069*.

*Rhynchelytrum repens* (Willd.) C. E. Hubb.: **n = 18.**

CAPE PROVINCE. — 3225 (Somerset East): in Dagaboersnek Pass (–DB), *Spies 1115*.

*Setaria nigrirostris* (Nees) Dur. & Schinz: **n = 27.**

TRANSVAAL. — 2530 (Lydenburg): 36 km from Lydenburg to Roosenekal (–AA), *Spies 1607*.

*Setaria sphacelata* (Schumach.) Moss var. *torta* (Stapf) Clayton: **n = 18.**

TRANSVAAL. — 2430 (Pilgrim's Rest): 23 km from Boshhoek to Olifantshoek (–CD), *Spies 1550*.

CAPE PROVINCE. — 3227 (Stutterheim): 12 km from East London to McCleantown (–DD), *Spies 1952*.

*Setaria* sp. Beauv.: **n = 18.**

TRANSVAAL. — 2528 (Pretoria): near Turfpan (–AB), *Spies 2055*.

##### Ehrharteae

*Ehrharta calycina* J. E. Sm.: **n = 12.**

ORANGE FREE STATE. — 2829 (Harrismith): near Harrismith (–AC), *Spies 1808*.

*Ehrharta erecta* Lam.: **n = 12, 24.**

TRANSVAAL. — 2530 (Lydenburg): 15 km from Boshhoek to Rooiwalsloot (–AC), *Spies 1540* (n = 12).

CAPE PROVINCE. — 3227 (Stutterheim): Kabusi Forest (–CB), *Spies 1694a* (n = 24).

##### Oryzeae

*Leersia hexandra* Swartz: **n = 24.**

NATAL. — 2732 (Ubombo): 3 km from Sodwana to Ubombo (–DA), *Spies 2454*.

##### Danthonieae

*Karoochloa purpurea* (L. f.) Conert & Turpe: **n = 12.**

CAPE PROVINCE. — 3126 (Queenstown): 21 km from Molteno to Dordrecht (–BC), *Spies 1836*.

##### Chlorideae

*Microchloa caffra* Nees: **n = 40.**

TRANSVAAL. — 2528 (Pretoria): near Donkerhoek (–CD), *Spies 2080*.

## Eragrostideae

*Eragrostis crassinervis* Hack.: **n = 20.**

SWA/NAMIBIA. — 2013 (Unjab Mouth): Skeleton Coast Park. Unjab River Delta (–AA), *Ellis 4760*.

*Eragrostis curvula* (Schrad.) Nees: **n = 20, 25.**

TRANSVAAL. — 2430 (Pilgrim's Rest): Mount Sheba (–DC), *De Winter 9724, 9773*.

ORANGE FREE STATE. — 2829 (Harrismith): Kaity Nilgiris (–AC), *Spies 1783*.

*Eragrostis lehmanniana* Nees: **n = 30.**

CAPE PROVINCE. — 3225 (Somerset East): 35 km from Somerset East to Pearston (–CA), *Spies 1134*.

*Eragrostis obtusa* Munro ex Fical. & Hiern: **n = 20, 30.**

ORANGE FREE STATE. — 2925 (Jagersfontein): near Perdeberg (–AA), *Spies 1992* (n = 30).

CAPE PROVINCE. — 3325 (Somerset East): 1 km from Mentz Lake to Waterford (–AA), *Spies 1080* (n = 20), *1086* (n = 20).

*Eragrostis planiculmis* Nees: **n = 30.**

TRANSVAAL. — 2528 (Pretoria): near Sphinx Station (–CA), *Spies 2023*.

*Eragrostis superba* Peyr.: **n = 20, 25.**

ORANGE FREE STATE. — 2925 (Jagersfontein): near Perdeberg (–AA), *Spies 1989* (n = 25), *2002* (n = 20).

*Eragrostis walteri* Pilg.: **n = 20.**

SWA/NAMIBIA. — 2013 (Unjab Mouth): Skeleton Coast Park. Unjab River Delta (–AA), *Ellis 4756*. 2416 (Maltahöhe): Namib Naukluft Park (–AB), *Ellis 4773*.

## Sporoboleae

*Sporobolus africanus* (Poir.) Robyns & Tournay: **n = 18.**

CAPE PROVINCE. — 3325 (Somerset East): near Paterson (–BD), *Spies 1104*.

## Poeae

*Festuca caprina* Nees var. *caprina*: **n = 28 + 0–2B.**

TRANSVAAL. — 2530 (Lydenburg): 15 km from Dullstroom to Goede Hoop (–AC), *Spies 1467*; 18 km from Dullstroom to Goede Hoop (–AC), *Spies 1473*.

*Festuca scabra* Vahl: **n = 14.**

CAPE PROVINCE. — 3227 (Stutterheim): Kabusi forest (–CB), *Spies 1922*.

*Koeleria capensis* (Steud.) Nees: **n = 7.**

CAPE PROVINCE. — 3126 (Queenstown): 3 km from Molteno to Steynsburg (–AD), *Spies 1841*.

*Poa annua* L.: **n = 14.**

CAPE PROVINCE. — 3225 (Somerset East): in Dag-gaboersnek Pass (–DB), *Spies 1122a*. 3227 (Stutterheim): Kabusie Forest (–CB), *Spies 1924*.

*Poa* sp.: **n = 42.**

TRANSVAAL. — 2530 (Lydenburg): 15 km from Dullstroom to Goede Hoop (–AC), *Spies 1466*.

## DISCUSSION

All the chromosome numbers given in this article conform with those recorded in the literature. Meiotic chromosome behaviour was normal in all the plants studied. The only exception was *Ellis 4760* (*Eragrostis crassinervis*) where two univalents were observed in every cell studied. The reason for this apparent asynapsis of a single chromosome pair is not yet known. B-chromosomes were observed in one specimen, i.e. *Festuca caprina* (*Spies 1473*).

## REFERENCE

SPIES, J. J. & DU PLESSIS, H. 1986. Chromosome studies on African plants. 1. *Bothalia* 16: 87–88.

J. J. SPIES\* and H. DU PLESSIS\*

\*Botanical Research Institute, Department of Agriculture and Water Supply, Private Bag X101, Pretoria 0001, RSA.