

x = 11	HETEROPOGON		
	<i>melanocarpus</i> (Ell.) Benth.	. 22	<i>S. Rhodesia</i>
	<i>contortus</i> (L.) Beauv. ex R. & S.	44 (not 20)	,,
TRIBE III.—PANICEÆ			
x = 7, 9	UROCHLOA		
	<i>pullulans</i> Stapf	. . . 28	,,
	<i>mosambicensis</i> (Hack.) Dandy	42	,,
	(= <i>U. pullulans</i> var. <i>mosambicensis</i> Stapf)		
	<i>bolbodes</i> (Schweinf.) Stapf	. 36	,,
	<i>panicoides</i> Beauv. (<i>helopus</i> Stapf)	36	,,
x = 8, 10, 11	PANICUM		
	<i>maximum</i> Jacq.	. . . 32 (not 36)	,,
	Dwarf type and green mutant	32	,,
	vars. Red Buffel, Coarse Guinea,	32	,,
	Fine Guinea		
	two vars. Puerto Rico	. . . 32	Inst. Trop. Ag.
	“makarikari”	. . . 44	S. Rhodesia
x = 9	DIGITARIA		
	<i>milanjiana</i> (Rendle) Stapf	. 18	,,
	<i>brazzæ</i> (Franch.) Stapf	. 18	,,
	<i>gazensis</i> Rendle	. . . 18	,,
	<i>eriantha</i> Steud.	. . . 18	,,
	<i>pentzii</i> Stent	. . . 54	,,
	<i>swazilandensis</i> Stent	. . . 18	Frankenwald Turf Nursery, Transvaal
x = 9, 17	CENCHRUS		
	<i>ciliaris</i> L.	. . . 36 (not 34)	S. Rhodesia
x = 9	CHLORIDION		
	<i>cameronii</i> Stapf	. . . 54	,,
	ALLOTEROPSIS		
	<i>semialata</i> (R. Br.) Hitch.	. 54	,,
x = 9, 21	BRACHIARIA		
	<i>viridula</i> Stapf	. . . 36	,,
	<i>nigropedata</i> (Munro) Stapf	. 36	,,
	<i>serrata</i> (Thunb.) Stapf	. . 36	,,
	<i>brizantha</i> (Hochst. ex A. Rich.)	54	,,
	Stapf		
	<i>dictyoneura</i> (Fig. et De Not.)	42	,,
	Stapf		
x = 9	SACCIOLEPIS		
	<i>glaucescens</i> Stapf	. . . 36	,,
x = 9	SETARIA		
	<i>longiseta</i> Beauv.	. . . 18	,,
	<i>phragmitoides</i> Stapf	. . . 36	,,
	<i>pallide-fusca</i> (Schumach.) Stapf	36	,,
	et Hubbard		
	<i>chevalieri</i> Stapf	. . . 54	,,
	<i>sphacelata</i> (Schumach.) Stapf	36, 54	Rietondale, Transvaal
	et Hubbard		
	<i>sphacelata</i> var. Kasingulu	. 36	...
	<i>sphacelata</i> var. Gomoti River	. 36	...
	<i>splendida</i> Stapf *	. . . 63 (7x)	Rietondale, Transvaal

* *Setaria splendida*—a tall vigorous grass which does not set viable seed—proved to be heptaloid.

RHYNCHELYTRUM

	<i>repens</i> (Willd.) C. E. Hubbard	36	S. Rhodesia
	(<i>roseum</i> (Nees) Stapf et Hubbard)		
	<i>nyassanum</i> (Mez) Stapf et Hubbard	36	"
	<i>setifolium</i> (Stapf) Chiov.	36	"
	<i>minutiflorum</i> (Rendle) Stapf et Hubbard	36	"
	<i>minutiflorum</i> var. <i>melinoides</i> (Stent)	36	"

MELINIS

	<i>macrochaeta</i> Stapf et Hubbard	36	"
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ACROCERAS

	<i>macrum</i> Stapf	36 (n = 18)	Rietondale, Transvaal
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x = 10

PASPALUM

	<i>commersonii</i> Lam. (<i>scorbiculatum</i> L. var. <i>commersonii</i> Stapf)	40	S. Rhodesia
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TRIBE IIIA.—ARUNDINELLEÆ

x = 10

LOUDETIA

	<i>simplex</i> (Nees) C. E. Hubbard	60	"
	(<i>Trichopteryx simplex</i> Hack.)		

TRISTACHYA

	<i>welwitschii</i> Rendle var. <i>superbiens</i> (Pilger) C. E. Hubbard	40	"
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TRIBE IV.—ERAGROSTÆ

x = 10, 21

POGONARTHRIA

	<i>squarrosa</i> (Licht.) Pilger and var.	40	"
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	<i>squarrosa</i>	42	Kimberley, Cape
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x = 10

TETRACHNE

	<i>dregei</i> Nees *	20	Middelburg, Cape
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ERAGROSTIS

	<i>aspera</i> (Jacq.) Nees	20	S. Rhodesia
	<i>aspera</i>	20 †	Kimberley, Cape
	<i>biflora</i> Hack. I	20	Mafeking, Cape
	<i>biflora</i> Hack. II	20	Kimberley, Cape
	<i>chapelieri</i> Nees	20	...
	<i>cilianensis</i> (All.) Lutati	20 †	Irene, Transvaal
	<i>namaquensis</i> Nees	20	...
	<i>pallens</i> Hack.	20	Andalusia, N. Cape
	<i>patens</i> Oliv.	20	...
	<i>truncata</i> Hack.	20	Fauresmith, O.F.S.

* *Tetrachne* is a monotypic genus which has not previously been studied. Stapf (*Flora Capensis*, 7, 318, 1898) places this genus in the tribe Festuceæ. The somatic chromosomes of true members of the Festuceæ, e.g. *Festuca*, *Poa* and *Dactylis* are twice as long as those of *T. dregei*. Also, the majority of the Festuceæ have a basic number of 7 whereas the count for *T. dregei* indicates a basic number of 10. Mr C. E. Hubbard has found that this grass differs from the genera of the tribe Festuceæ and from allied tribes of the festucoid group in certain morphological and anatomical features. The morphological, anatomical and cytological evidence both indicate that *Tetrachne* should be removed from the Festuceæ. For the present the genus might be conveniently included in the Eragrostææ.

† Confirming Avdulov 1931.

$x = 10$	ERAGROSTIS— <i>continued</i>		
	<i>wilmaniae</i> Hubb. et Schw.	20	Hay Division, Griqualand West
	<i>atherstonei</i> Stapf I	40	Mafeking, Cape
	<i>atherstonei</i> Stapf II	40	" "
	<i>ciliaris</i> (L.) R. Br.	40	" "
	<i>denudata</i> Hack.	40	" "
	<i>echinochloidea</i> Stapf	40	Barkly West, Cape
	<i>margaritacea</i> (?)	40	" "
	<i>obtusa</i> Munro	40	Kimberley, Cape
	<i>sclerantha</i> Nees (small type) .	40	S. Rhodesia
	<i>sclerantha</i> Nees (large type) .	40	" "
	<i>superba</i> Peyr.	40	Kimberley, Cape
	<i>tef</i> (Zucc.) Trotter (<i>E. abyssinica</i> Link)	40	S. Rhodesia
	<i>viscosa</i> (Retz.) Trin.	40	" "
	<i>barrelieri</i> Daveau	60	Kimberley, Cape
	<i>capensis</i> Trin. (<i>brizoides</i> Nees) .	60	S. Rhodesia
	<i>habrantha</i> Rendle	60, 90 (6x and 9x)	" "

TRIBE V.—SPOROBOLÆ

$x = 9, 10$	SPOROBOLUS		
	<i>fimbriatus</i> Nees	18	Kimberley, Cape
	<i>panicoides</i> A. Rich.	24	S. Rhodesia
	<i>pyramidalis</i> Beauv.	24	" "
	<i>pyramidalis</i>	30 (3x)	Irene, Transvaal
	<i>capensis</i> (Willd.) Kunth	36	S. Rhodesia

TRIBE VI.—ZOISIEÆ

$x = 10$	PEROTIS		
	<i>patens</i> Gand.	40	S. Rhodesia

TRIBE VII.—CHLORIDÆ

$x = 9, 10$	CRASPEDORHACHIS		
	<i>rhodesiana</i> Rendle	27 (3x)	S. Rhodesia
	ELEUSINE		
	<i>indica</i> (L.) Gaertn.*	36 (not 18)	" "
	DACTYLOCTENIUM		
	<i>ægyptium</i> (L.) Beauv.	36	" "
	CYNODON		
	<i>dactylon</i> (L.) Pers.	40	" "
	<i>plectostachyum</i> (K. Schum.)	18, 54	" "
	Pilger		
$x = 9, 10$	CHLORIS		
	<i>gayana</i> Kunth	20, 40	" "
	" " <i>var.</i> Trans Nzoia	20	" "
	" " <i>var.</i> Giant Rhodes Grass	40	" "
	" " <i>var.</i> Kafue Strain	40	" "
	" " <i>var.</i> Hunyani Grass	40	" "

* *Eleusine indica* $2n = 36$ and not $2n = 18$. This may be tetraploid strain. It is generally considered that this species becomes larger and more aggressive as one proceeds north from S. Africa. It is certainly much more formidable in Rhodesia than in Natal, but this may be due to climate and soil as much as to any inherent differences.

x = 9,10	CHLORIS— <i>continued</i>		
	<i>virgata</i> Swartz *	. . . 20 (not 14)	Mafeking, Cape
	<i>pycnothrix</i> Trin.	. . . 40	Irene, Transvaal
	MICROCHLOA		
	<i>Kunthii</i> Desv.	. . . 40	S. Rhodesia
	TRICHONEURA		
	<i>grandiglumis</i> (Rendle) Ekman	20	,,

TRIBE IX.—ARISTIDÆ

x = 11	ARISTIDA		
	<i>meridionalis</i> Henrard	. . . 22	S. Rhodesia
	<i>scabrivalvis</i> Hack.	. . . 22	,,
	<i>macilenta</i> Henrard (<i>contractinodis</i> Stent et Rattray)	22	,,
	<i>congesta</i> Roem. et Schult.	. . . 22	,,
	<i>scabrivalvis</i> (?)	. . . 22	,,
	<i>leucophæa</i> Henrard	. . . 44	,,

* Nielsen and Humphrey (1937) counted 14 chromosomes in *Chloris virgata*. The present revised count of $2n = 20$ agrees with previous counts of other species of *Chloris*.

N.B.—The manuscripts have been arranged and edited by Mr C. E. Hubbard of the Royal Botanic Gardens, Kew, and Dr C. D. Darlington.

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