

A Checklist of Grasses of Saudi Arabia (Studies in Flora of Arabia. VI)

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ABSTRACT. A list of grasses of Saudi Arabia has been presented. It includes 269 grass taxa along with their synonymies. Of this number, 54 taxa are not confirmed as the material on which the original reports were based could not be seen or there is some doubt concerning whether these species actually exist in Saudi Arabia. Many of the confirmed taxa reported are new records for the Arabian Peninsula and or Saudi Arabia.

Preliminary to writing a detailed account of the grass species represented in Saudi Arabia, it seems essential to compile a checklist of the grasses of the country based on collections in various herbaria and or those reported by different workers. The present checklist has been prepared with this objective in mind: it is also hoped that the publication of an up-to-date checklist of grasses will spur those interested in Saudi Arabian grasses to examine the group more closely and add many taxa to the list. This checklist is primarily based on material represented in the Arabian Peninsula Herbarium (RIY) at the Regional Agriculture and Water Research Center (RAWRC) of the Ministry of Agriculture and Water, P.O. Box 17285, Riyadh. Consequently, the collection numbers indicated are RIY numbers except where otherwise stated. Published reports consulted were Batanouni and Baeshin (1978, 1979), DeMarco and Dinelli (1974), Migahid (1978), Schwartz (1939) and Zohary (1957). The checklist was completed by one of us (T. Cope) from his study of material at the British Museum Herbarium (National History) (BM), Herbarium at the Royal Botanic Garden, Edinburgh (E) and the Herbarium at the Royal Botanical Gardens, Kew (K). Details of relevant sheet/s present at RIY have been

provided in connection with the respective taxa: for others, only the herbarium where a particular sheet is present has been indicated or the report/s mentioned.

The present checklist includes 269 grass taxa of which 215 are confirmed reports while 54 are non-confirmed: to the latter category belong the reports for which the material (on which the original reports were based) could not be seen, or the possibility of the presence of these taxa exists but have not so far been recorded from Saudi Arabia, or these are doubtful records. Of the major previous reports concerning Saudi Arabia alone, DeMarco and Dinelli listed 147 taxa of which 26 are probably doubtful records: Migahid listed 130 species of which 28 belong to the non-confirmed category along with some double citations under synonymies. The non-confirmed taxa in the present checklist are preceded by an asterick (*). It would only be fair to caution at this stage that this checklist should not be considered as final. Saudi Arabia still needs a lot of exploring and its plants still more investigating!

***Aegilops* L.**

**Aegilops neglecta* Req. ex Bertol

= *A. kotschy* Boiss. var. *palaestina* Eig.: *A. triaristata* Willd.

Reported by Migahid.

Aegilops kotschy Boiss.

= *A. triuncialis* L. var. *kotschy* (Boiss.) Boiss.

At BM!

**Aegilops triuncialis* L.

Reported by Migahid and DeMarco and Dinelli.

***Aeluropus* Trin.**

Aeluropus lagopoides (L.) Trin. ex Thw.

= *Dactylis lagopoides* L.: *D. repens* Desf.: *Aeluropus repens* (Desf.) Parl.:
A. villosus Trin. ex C.A. Mey.

S. Chaudhary 5896, Qateef; 1067, Hofuf; H. Murriech 5894, Wadi Dawasir;
O. Draz, Allred *et al.* 5495, Hofuf; A. Podzorski 6158, Jeddah-Jizan Road;
S. Chaudhary 7032, 7033, 7034, 7084, near Abu-Arish coastal area.

Aeluropus littoralis (Gouan) Parl.

= *Poa littoralis* Gouan: *Dactylis littoralis* (Gouan) Willd.

Neil Munro 3211, Tarut Island.

Aeluropus massauensis (Fres.) Mattei

S. Chaudhary 5897, Jizan; 5898, Jeddah Airport: S. Chaudhary and Z. Howaishel 306, near Jizan.

Agrostis* L.Agrostis schimperiana* Hochst. ex Steud.

At K!

Agrostis viridis Gouan

= *Agrostis semiverticillata* (Forssk.) Christ.: *A. verticillata* Vill.: *Phalaris semiverticillata* Forssk.: *Polypogon semiverticillatus* (Forssk.) Hyl.

S. Chaudhary 6305, 6306, 6307, Riyadh.

Alopecurus* L.Alopecurus myosuroides* Huds.

S. Chaudhary 7275, Buraydah.

Ammochloa* Boiss.*Ammochloa palaestina* Boiss.

= *A. subcaulis* Bal. ex Coss. et Dur.

Reported by DeMarco.

Ammophila* Host*Ammophila arenaria* (L.) Link

= *Arundo arenaria* L.: *Calamagrostis arenaria* Roth: *Psamma arenaria* Roem. & Schult.

Reported by Migahid and DeMarco and Dinelli.

Andropogon* L.Andropogon distachyos* L.

= *Pollinia distachya* Spreng.

S. Chaudhary 3006, 5892, Sooda: H. Abdul Mutalib 5899, Taif.

Andropogon sp.

S. Chaudhary 6728, Sooda.

Anthephora* Schreb.Anthephora nigritana* Stapf & Hubb.

Hashim Abdul Mutalib 6025, Taif; 6498, Baljurshi.

**Anthephora pubescens* Nees

= *A. hochstetteri* Nees

Reported by Migahid and DeMarco and Dinelli.

Aristida* L.Aristida abnormis* Chiov.

?, 6030, Jeddah.

Aristida adoensis Hochst. ex Rich.

= *A. abyssinica* Chiov.: *A. furfurosa* Henr.

S. Chaudhary 958, Rajal-al-Maa; 2091, Bisha; 3840, 3871, Sooda; 6041, Khamees; D. Duba 6042, Baljurshi.

Aristida adscensionis L.

= *A. aethiopica* (Trin. & Rupr.) Schweinf. & Aschers.: *A. caeruleascens* var. *breviaristata* Schweinf.: *A. caeruleascens* var. *brevifolia* Schweinf.: *A. festucoides* Poir.: *A. guineensis* Trin. & Rupr.: *A. macrochloa* Hochst.: *A. submucronata* Schum.: *A. thoningi* Trin. & Rupr.: *A. vulgaris* var. *abyssinica* Trin. & Rupr.: *Chaetaria adscensionis* (L.) P. Beauv.: *C. festucoides* (Poir.) P. Beauv.

S. Chaudhary 976, Fayfa; 895, Taif; 896, Durma; 5889, Fayfa; 6031, Baha; 6037, 6039, Taif; 6035, Jizan; 6037, 6043, Riyadh; 6038, Hail; Wilton, 6032, Jizan; A. Podzorski 6162.

Aristida congesta Roem. & Schult.

Sail (3700 ft.), Saudi Arabia (Seen at K!).

Aristida funiculata Trin. & Rupr.

= *Aristida macrathera* Rich.: *Arthratherum kotschyii* Hochst. & Steud.

Reported by Migahid. Also at K!

Aristida jemensis Henr.

S. Chaudhary 3872, 3875, Jabal Sooda.

Aristida mutabilis Trin. & Rupr.

= *A. articulata* Edgew.: *A. longiradiata* Steud.: *A. meccana* Hochst. ex Trin. & Rupr. *A. schweinfurthii* Boiss.

S. Chaudhary 6029, Jeddah; S. Chaudhary & Z. Howaishel 894, Abu-Arish.

Aristida pennei Chiov.

Reported from Taif (seen at K!)

Arthraxon* P. Beauv.*Arthraxon lancifolius* (Trin.) Hochst.

Widespread in North Yemen. Possibly present in Southwestern Saudi Arabia.

Arthraxon prionodes (Steud.) Dandy

= *Andropogon prionodes* Steud.: *A. serrulatus* Rich. non Link: *Arthraxon lanceolatus* auctt. non (Roxb.) Hochst.: *A. serrulatus* (Rich.) Hochst.

S. Chaudhary 988, 3863, 6028, Jabal Fayfa.

Arundo* L.Arundo donax* L.

= *Arundo sativa* Lam.: *A. bifaria* Retz.: *Donax arundinaceus* P. Beauv.: *D. donax* (L.) Asch. & Grabn.: *D. sativus* (Lam.) Presl.: *Scolochloa arundinacea* (P. Beauv.) Merten. & Koch.: *S. donax* (L.) Gaud.

S. Chaudhary 6026, Riyadh; M. Sharif 6027, Hofuf.

Astenatherum* NevskiAstenatherum forsskalii* (Vahl) Nevski

= *Avena forsskalii* Vahl: *A. pennsylvanica* Forssk.: *Danthonia forsskalii* (Vahl) Trin.

S. Chaudhary 710, Taif.

Astenatherum fragilis (Guinet & Sauvage) Monod

= *Danthonia fragilis* Guin. & Sauv.

S. Chaudhary 3131, Khurais Nafud; 6044, Hail; 6045, Buraidah: S. Chaudhary & Z. Howaishel 6047, Khurais Nafud: A.R. Daud 6059, Khurais Road.

***Avena* L.**

Avena barbata Pott. ex Link ssp. *barbata*.

At K!

**Avena barbata* Pott. ex Link ssp. *wiestii* (Steud.) Stapf.

= *A. alba* auctt. non Vahl

Reported from Najd, Jabal Salma by Zohary, and by DeMarco and Dinelli.

Avena fatua L.

S. Chaudhary 6051, Hofuf.

**Avena occidentalis* Durieu

At K! This specimen determined and cited by Baum* is not *A. occidentalis* according to Baum's own concept. (*Baum, *Oats wild and cultivated*. 1977)

Avena sativa L.

S. Chaudhary 6048, Hail; 6049 Unaiza.

Avena sterilis L. ssp. *sterilis*

S. Chaudhary 6049, RAWRC; 6050, Al-Kharj.

**Avena?* *ventricosa* Bal. ex Coss & Durieu

At BM!

**Avena versicolor* Vill.

Reported by DeMarco and Dinelli. This taxon, now called *Helictotrichon versicolor* (Vill.) Pilger, is a Central and Southern European species. Its presence in Saudi Arabia is doubtful.

***Bothriochloa* O. Kuntze**

Bothriochloa insculpta (Hochst. ex A. Rich.) Camus

= *Amphilophis insculpta* (Hochst. ex. A. Rich.) Stapf: *Andropogon insculptus* Hochst. ex A. Rich: *A. pertusus* (L.) Willd. var. *insculptus* (Hochst. ex A. Rich.) Hack.

At K!

Bothriochloa ischaemum (L.) Keng

= *Andropogon ischaemum* L.

S. Chaudhary 6052, Al-Kharj.

***Bouteloua* Lag.**

Bouteloua curtispindula (Michx.) Torr.

= *Chloris curtispindula* Michx.

S. Chaudhary 6054, RAWRC. (Cult.)

Bouteloua gracilis (H.B.K.) Lag.

= *Chondrosium gracile* H.B.K.

S. Chaudhary 6055, RAWRC. (Cult.)

***Brachiaria* Griseb.**

**Brachiaria deflexa* (Schum.) Hubb. ex Robyns

= *Brachiaria regularis* (Nees) Stapf.: *Panicum deflexum* Schum.: *P. nudiglume* Hochst.: *P. peliveri* Balf. f.: *P. regulare* Nees.

Reported by Migahid as *B. regularis* (Nees.) Stapf.

**Brachiaria eruciformis* (Smith ex Sbth. & Smith) Griseb.

= *Brachiaria isachne* (Roth) Stapf: *Panicum caucasicum* Trin.: *P. eruciforme* Sm. ex Sbth. & Sm.: *P. isachne* Roth ex Roem. & Schult.: *P. pubinode* Hochst. ex Rich.: *P. wightii* Nees.

Reported by Migahid and DeMarco and Dinelli.

**Brachiaria lata* (Schum.) Hubb.

= *Panicum amplexifolium* Hochst.: *P. brevirostratum* Hochst.: *P. hamedense* Mez: *P. latum* Schum.: *Urochloa insculpta* (Steud.) Stapf: *U. lata* (Schum.) Hubb.

Reported from the Tehamas of North Yemen and should be expected in southwestern Saudi Arabia.

Brachiaria leersioides (Hochst.) Stapf.

= *Panicum leersioides* Hochst.

S. Chaudhary 954, 975, 3864, 6056, Jabal Fayfa; 2041, Jizan; 3887, 6051, Taif; 945, Rajal-al-Maa; 7046, Wadi Bani Zahar.

**Brachiaria leucarantha* (K. Schum. ex Engl.) Stapf.

= *Panicum leucaranthum* K. Schum. ex Engl.

Reported by DeMarco and Dinelli.

Brachiaria ovalis (R. Br.) Stapf.

= *Panicum ovale* R. Br.: *P. ovatum* Steud.

S. Chaudhary 3867, Ad-Dharb-Abha Road.

Brachiaria ramosa (L.) Stapf.

= *Panicum arvense* Kunth: *P. brachylachnum* Steud.: *P. canescens* Roth ex Roem. & Schult.: *P. cognatissimum* Steud.: *P. ramosum* L.

S. Chaudhary 3886, Abu-Arish; 7043, Wadi Bani Zahar.

Brachiaria reptans (L.) Gard. & Hubb.

= *Brachiaria prostrata* (Lam.) Griseb.: *Panicum prostratum* Lam.: *P. reptans* L.: *P. umbrosum* Retz.: *Urochloa reptans* (L.) Stapf.

At K!

Brachiaria sp.

S. Chaudhary 7054, Wadi Bani Zahar.

Brachypodium distachyon (L.) P. Beauv.

= *Bromus distachyos* L.: *Festuca distachya* (L.) Koel.: *Trachynia distachya* (L.) Link

S. Chaudhary 551, Hail; 3853, Ad-Dharab-Abha Road: A.R. Daud 707, Baha: A. Podzorski 6156, Jabal Ibrahim, Asir.

Brachypodium retusum (Pers.) P. Beauv.

At K!

Bromus* L.*Bromus arvensis* L.

Reported by Migahid.

Bromus danthoniae Trin.

= *Bromus lanceolatus* Roth var. *danthoniae* (Trin.) Dinsm.: *B. macrostachys* Desf. ssp. *danthoniae* (Trin.) Aschers. & Graebn.: *B. macrostachys* var. *triaristatus* Hack.

H. Heemstra 3554, Al-Jauf.

Bromus fasciculatus Presl.

N. Munro 3269, 3204, Eastern Province.

**Bromus leptocladus* Nees

= *B. adoensis* Hochst. ex Steud.: *B. cognatus* Steud.: *B. pectinatus* auctt. non Thunb.

Reported from North Yemen highlands and may be expected in Asir.

Bromus madritensis L.

= *Anisantha madritensis* (L.) Nevski: *Festuca madritensis* (L.) Desf.

A. Hamdan 7205 Al-Ghaat.

Bromus pectinatus Thunb.

A. Podzorski 6167, near Baljurshi: S. Chaudhary 7268, Abha.

Bromus rubens L.

= *Anisantha rubens* (L.) Nevski

S. Chaudhary 905, Khafs.

Bromus scoparius L.

At K!

Bromus sericeus Drobov

S. Chaudhary 3835, Ad-Dharb-Abha Road; 3845, 3858, Jabal Sooda.

Bromus tectorum L.

= *Anisantha tectorum* (L.) Nevski

S. Chaudhary 514, Hail; 3869, Jabal Sooda: A. Wilton 904, Najran: Neil Munro 3204, 3336, Eastern Province?: H. Heemstra 3488, Al-Jauf.

Castellia* TineoCastellia tuberculosa* (Mor.) Bor

Catapodium tuberculatum Moris: *Castellia tuberculata* Tineo: *Festuca tuberculata* (Mor.) Coss. & Dur.: *Festuca tuberculata* (Tineo) Benth.: *Desmazeria tuberculata* (Mor.) Pilger

At K!

Cenchrus* L.Cenchrus biflorus* Roxb.

= *C. barbatus* Schum.: *C. catharticus* Del.

S. Chaudhary 498, Abu-Arish; 6060 Jizan.

Cenchrus ciliaris L.

S. Chaudhary 6063, Khafs (near Riyadh): Z. Howaishel 6062, Abha: DeMarco 6064, Bisha: A. R. Daud 6065, Baha: D. Duba 6066 North of Umm Matirah; 6067, Dhahran al-Janoobi: A. Wilton 6068, Najran: A. Podzorski 6152, North of Abha.

Cenchrus echinatus L.

S. Chaudhary 6069, Riyadh City.

Cenchrus pennisetiformis Hochst. & Steud.

S. Chaudhary 1030, Haayer (near Riyadh); 1081, 6070, 6071, 6072, Riyadh; 6073, Abu-Arish; 6074, Taif; 3854, near Abha; 975, Jabal Fayfa; 6075, Al-Kharj; 6077, near Qunfidah: Z. Howaishel 708, 6076, Jeddah: DeMarco 6080, Abha: A. Wilton 6078, Jizan; 6079, Abha.

Cenchrus setigerus Vahl.

S. Chaudhary 6081, Riyadh; 6082, Qunfidah; 6083, Abu-Arish; 6108, Ad-Dharab-Abha Road: Alfred, Draz *et al.* 6084, Taif: A. Wilton 6085, Jizan.

Chloris* Sw.Chloris barbata* (L.) Sw.

= *Andropogon barbatus* L.: *Chloris inflata* Link: *C. paraguayensis* Steud.: *C. rufescens* Steud.

S. Chaudhary 6086, Jizan: A. Wilton 6087, Jizan.

Chloris gayana Kunth

= *C. abyssinica* Hochst. ex Rich.: *C. glabrata* Anderss.: *Eustachys gayana* (Kunth.) Mundy.

S. Chaudhary 6089, Haradh.

Chloris pycnothrix Trin.

= *C. intermedia* A. Rich.: *C. leptostachya* Hochst. ex A. Rich.: *C. leptostachya* var. *intermedia* (A. Rich.) Dur. & Schinz.

S. Chaudhary 6091, Unaiza; occasionally seen in all parts of the country.

Chloris virgata Sw.

= *C. alba* Presl: *C. barbata* Sw. var. *meccana* (Hochst. ex Steud.) Ascher. & Schweinf.: *C. compressa* DC.: *C. cryptostachya* Steud.: *C. multiradiata* Hochst.: *C. polydactyla* Sw. var. *multiradiata* (Hochst.) Chiov.: *C. pubescens* Lag.

S. Chaudhary 6093, Dirab; 6094, Al-Kharj; 6095, 6111, Riyadh. Also observed as a weed practically all over the country.

Chrysopogon* Trin.Chrysopogon plumulosus* Hochst.

= *Chrysopogon aucheri* mult. auctt. non (Boiss.) Stapf

S. Chaudhary 3866, Ad-Dharab-Abha Road; 6097, Riyadh; 6098, Taif: J. Asmar 536, Thaman: O. Draz. 6099, near Afeef: H. Abdul Mutalib 6100, Baljurshi; 6102, Taif: DeMarco 6101, Bisha.

Coelachyrum* Hochst. & Steud. ex NeesCoelachyrum brevifolium* Hochst. & Steud. ex Nees

= *Coelochloa brevifolia* (Hochst. & Steud.) Steud. nom. nud.: *Eleusine brevifolia* (Hochst. & Steud. ex Nees) Steud.: *Eragrostis coelachyrum* Benth.

Reported (and the type) from Jeddah.

Coelachyrum piercei (Benth.) Bor

= *Eragrostis piercei* Benth.

At K!

Coelachyrum poiflorum Chiov.

= *Eleusine poaeiflora* (Chiov.) Chiov.

S. Chaudhary 3834, near Abha.

Coelachyrum yemenicum (Schweinf.) S. Philips

= *Cypholepis yemenica* (Schweinf.) Chiov.: *Eragrostis diplostachya* Peters:
E. gemenica Dur. & Schinz: *E. yemenica* Schweinf.: *Leptochloa appletonii*
Stapf: *L. yemensis* Schweinf. nom. nud.

A.R. Khoja 4064, near Qunfidah.

Crypsis* Aiton*Crypsis aculeata* (L.) Ait.

= *Schoenus aculeatus* L.

Reported from Hijaz by Batanouni and Baeshin.

**Crypsis schoenoides* (L.) Lam.

= *Crypsis aculeata* (non (L.) Ait.) Hitchcock: *C. niliaca* Fig. & De Not.:
Heleochloa schoenoides (L.) Host: *Phleum schoenoides* L.

Reported from Hijaz by Batanouni and Baeshin.

Ctenium* Panzer*Ctenium elegans* Kunth

Reported by Migahid and DeMarco and Dinelli.

Cutandia* Willk.*Cutandia dichotoma* (Forssk.) Trabut.

= *Festuca dichotoma* Forssk.: *Scleropoa dichotoma* (Forssk.) Parl.: *S. mem-*
phitica Spreng. var. *dichotoma* (Forssk.) Bonn. & Barr.

Reported by Migahid and DeMarco and Dinelli.

**Cutandia maritima* (L.) Benth.

= *Festuca lanceolata* Forssk.: *Scleropoa maritima* (L.) Parl.: *Triticum*
maritimum L.

Reported by Migahid.

Cutandia memphitica (Spreng.) Benth.

= *Dactylis memphitica* Spreng.: *Scleropoa memphitica* (Spreng.) Parl.

S. Chaudhary 610, Riyadh; 6113, Khurais Nafud; 6114, Sakaka; 6115, Hail:
R. White 6116, near Rumah.

***Cymbopogon* Spreng.**

Cymbopogon commutatus (Steud.) Stapf.

= *Andropogon commutatus* Steud.: *A. laniger* Duthei: *Cymbopogon parkeri*
Stapf.

S. Chaudhary 6121, 6122, Riyadh; Longhitano, 6124, Shumlul: Coll. Incogn.
6125, Rumah: N. Munro 3226, Batn Salsal.

**Cymbopogon nervatus* (Hochst.) Chiov.

= *Andropogon nervatus* Hochst.: *A. schoenanthus* auctt. non L.: *Gymnan-*
thelia nervata (Hochst.) Aschers. & Schweinf.

Reported by Migahid and DeMarco and Dinelli.

Cymbopogon schoenanthus (L.) Spreng.

= *Andropogon schoenanthus* L.

S. Chaudhary 3039, near Turbah; 6116, Baha; 6117, Riyadh: R. Musa 6118,
Al-Kharj: A.R. Daud 6119, Thathleet, Khamaseen Road: D. Duba 6120,
Bishah-Thathleet Road.

***Cynodon* L. Rich.**

Cynodon dactylon (L.) Pers.

= *Panicum dactylon* L.

S. Chaudhary 3072, Arar; 6127, Haradh; 6130, Unaiza: A. Wilton 6128,
6129, Najran: A. El-Sheikh 6134, Houta-Aflaj Road: R. White 6132,
Raudhat Al-Kharaim: D. Duba 6133, Al-Khadra.

***Dactylis* L.**

**Dactylis glomerata* L.

Reported by Migahid from 'E' region.

Dactyloctenium Willd.

Dactyloctenium aegyptium (L.) P. Beauv.

= *Cynosurus aegyptius* L.: *Dactyloctenium figarii* De Not.: *Eleusine aegyptia* (L.) Desf.: *E. cruciata* Lam.: *E. mucronata* (Willd.) Stokes.

S. Chaudhary, 6136, Unaiza; 6140, 6141, Riyadh; 6137, Qateef; 6138, Abu-Arish: A. Wilton 6139, Jizan.

Dactyloctenium aristatum Ehrenb. ex Link

= *D. seminipunctatum* Courb.: *Eleusine aristata* (Ehrenb. ex Link) Hook.

A.R. Khoja 4063, Qunfidah.

Dactyloctenium scindicum Boiss.

= *Dactyloctenium glaucophyllum* Courb.: *D. somalicum* (Chiov.) Chiov.: *Eleusine scindicum* (Boiss.) Duthie

S. Chaudhary 6145, Taif; 3856, Ad-Dharb-Abha Road: S. Chaudhary and Z. Howaishel 6147, Abu-Arish: A. Podzorski 6166, Wadi Namira, mid western Saudi Arabia: A.R. Daud 6144, Baha: D. Duba 6142, Khurma.

Danthoniopsis Stapf

Danthoniopsis barbata (Nees) Hubb.

= *Tristachya barbata* Nees: *T. bricchettiana* Chiov.: *T. distachya* Franch.: *T. somalensis* Franch: *Xerodanthia barbata* (Nees) Phipps

S. Chaudhary 3857, 7058, Ad-Dharb-Abha Road: S. Chaudhary and Y. Al-Makki 3168, Ad-Dharb-Abha Road: D. Duba 6148, Al-Khadra.

Desmostachya Stapf

Desmostachya bipinnata (L.) Stapf.

= *Briza bipinnata* L.: *Eragrostis bipinnata* (L.) K. Schum.: *E. cynosuroides* (Retz.) P. Beauv.: *Poa cynosuroides* Retz.

S. Chaudhary 6170, Jizan; 6171, Najran: D. Duba 6572, Al-Khadra: N. Munro (?) 3196, Aflaj Lakes.

***Dichanthium* Willemet**

Dichanthium annulatum (Forssk.) Stapf.

= *Andropogon annulatus* Forssk.

S. Chaudhary 6173, 6174, Riyadh; 6175, Al-Kharj; 6176, Najran: DeMarco 6177, Wadi Qadimah: Alred *et al.* 6178, Huraimla.

**Dichanthium caricosum* (L.) A. Camus

= *Andropogon caricosus* L.

Reported by DeMarco and Dinelli.

Dichanthium faveolatum (Del.) Roberty

= *Andropogon faveolatus* Del.: *A. monostachyus* Spreng.: *A. strictus* Roxb.: *Eremopogon faveolatus* (Del.) Stapf. *E. strictus* (Roxb.) Camus

S. Chaudhary 6248, Wadi Habuna, near Najran; 7026, 7029, Abu-Arish.

***Digitaria* Haller**

Digitaria abyssinica (Hochst. ex A. Rich.) Stapf

= *Dichanthium scalarum* (Schweinf.) Chiov.: *Digitaria scalarum* (Schweinf.) Chiov.: *Panicum abyssinicum* Hochst. ex A. Rich.: *P. scalarum* Schweinf.

S. Chaudhary 648, 652, Riyadh.

Digitaria ciliaris (Retz.) Koel.

= *Panicum ciliare* Retz.: *Digitaria sanguinalis* (L.) Scop. var. *ciliaris* (Retz.) Rendle.

S. Chaudhary 713, Unaiza: S. Chaudhary & Z. Howaishel 712, 6183, Abu-Arish; 6183, Jizan: A. Wilton 6184, Jizan.

Digitaria nodosa Parl.

= *Panicum parlatorei* Steud.

S. Chaudhary 3829, Jabal Sooda; 5885, Ad-Dharab-Abha Road; 6106, Jabal Fayfa.

Digitaria pennata (Hochst.) T. Cooke

= *Panicum pennatum* Hochst.: *Paspalum pennatum* (Hochst.) Hook.

S. Chaudhary 5893, Ad-Dharab-Abha Road.

Digitaria sanguinalis (L.) Scop.

= *Panicum sanguinale* L.: *Paspalum sanguinale* (L.) Lam.

S. Chaudhary 630, Sakaka; 6181, 6182, Riyadh; 6183, Dirab; 3879, Unaiza.

Digitaria velutina (Forssk.) P. Beauv.

= *Digitaria divaricata* (Nees) Henr.: *D. lancifolia* (Nees) Henr.: *D. zeyheri* (Nees) Henr.: *Panicum forskalii* C. Christ.: *P. zeyherii* Nees: *Phalaris velutina* Forssk.

S. Chaudhary 904, 994, Jabal Fayfa.

***Dinebra* Jacquin**

**Dinebra retroflexa* (Vahl) Panzer

= *Cynosurus retroflexus* Vahl: *Dinaeba aegyptiaca* Del.: *Dineba arabica* (Jacq.) P. Beauv.: *Dinebra arabica* Jacq.: *D. brevifolia* Steud.: *Eleusine calycina* Roxb.: *Leptochloa arabica* (Jacq.) Kunth

Reported from Palestine and 'Arabia.' May be present in Saudi Arabia.

***Diplachne* P. Beauv.**

Diplachne fusca (L.) P. Beauv.

= *Diplachne malabarica* auctt. non (L.) Merril: *Festuca fusca* L.

S. Chaudhary 6179, 6180, Riyadh; 1062, Hofuf.

***Echinochloa* P. Beauv.**

Echinochloa colona (L.) Link

= *Oplismenus colonus* (L.) H.B.K.: *Panicum colonum* L.: *P. tetrastichon* Forssk.

S. Chaudhary 6185, Qateef; 6186, Unaiza; 6187, 6188, Riyadh; 6189, Haradh; 6190, Jizan.

Echinochloa crusgalli (L.) P. Beauv.

= *Oplismenus crusgalli* (L.) Dumort.: *Panicum crusgalli* L.

A.R. Saghir 6191, Al-Jauf.

Echinochloa frumentacea Link

At K!

Echinochloa pyramidalis (Lam.) Hitchc. & Chase

= *Panicum pyramidale* Lam.

S. Chaudhary 601, Sakaka.

***Ehrharta* Thunb.**

Ehrharta erecta Lam.

= *Ehrharta panicea* Smith: *E. paniciformis* Nees: *Trochera panicea* (Sm.)
Baillon

Reported by DeMarco and Dinelli. Also at K!

***Eleusine* Gaertn.**

Eleusine coracana (L.) Ascher. & Grabr.

= *Cynosurus coracana* L.: *C. coracanus* L.: *Eleusine coracana* (L.) Gaertn.:
E. sphaerosperma Stokes.: *E. tocussa* Fresen.

Reported from Jeddah and Asir (Wadi Jarra above Qunfidah). Also at K!

**Eleusine floccifolia* (Forssk.) Spreng.

= *Chloris floccifolius* (Forssk.) Poir.: *Cynosurus floccifolius* Forssk.

No specimen from Saudi Arabia but expected to be present in the southern
Asir.

Eleusine indica (L.) Gaertn.

= *Agropyrum geminatum* (Spreng.) Schult.: *Cynodon indicum* (L.) Raspail:
Cynosurus indicus L.: *Eleusine distans* Moench.: *E. gracilis* Salisb.: *E. ter-
natus* Forssk.: *Triticum geminatus* Spreng.

S. Chaudhary 629, Sakaka; 6199, Unaiza.

Eleusine multiflora A. Rich.

= *Eragrostis kwaiensis* Peter

At K!

***Elionurus* Humb. & Bonpl.**

Elionurus royleanus Nees ex Rich.

Collenette & Lavranos 4040, Jabal Murshid, Qunfidah region. Also reported
from Jabal Sidr and Jabal Gesser, Hijaz.

***Elymus* L.**

**Elymus elongatus* (Host) Runem.

= *Agropyrum elongatum* (Host) Beauv.: *Triticum elongatum* Host.

Reported by DeMarco and Dinelli.

***Enneapogon* Desv. ex P. Beauv.**

Enneapogon cenchroides (Licht. ex Roem. & Schult.) Hubb.

= *Enneapogon mollis* Lehm.: *Pappophorum abyssinicum* Hochst.: *P. cenchroides* Licht. ex Roem. & Schult.: *P. molle* (Lehm.) Kunth

Reported from Wadi Fatimah: should be more widespread in Asir.

Enneapogon desvauxii P. Beauv.

= *Enneapogon brachystachyus* (Jaub. & Spach) Stapf: *Pappophorum brachystachyus* Jaub. & Spach (Type from Taif, Saudi Arabia): *P. fasciculatum* Chiov.

S. Chaudhary 2065, Hail; 6202, Taif; 6203, 6205, Khafs; 6204, Riyadh; 6206, Dhurma: D. Duba 6200, Raniya; 6201, near Al-Rowshan.

**Enneapogon persicus* (Boiss.) Steud.

Reported from 'Arabia': may be found in Saudi Arabia.

Enneapogon schimperianus (A. Rich.) Renv.

= *Enneapogon elegans* (Steud.) Stapf: *E. glumosus* (Hochst.) Maire & Weill.: *Pappophorum elegans* Steud.: *P. glumosum* Hochst.

S. Chaudhary 1003, Jabal Fayfa; 3844, 3855, Ad-Dharb-Abha Road; 6209, Abu-Arish.

***Enteropogon* Nees**

Enteropogon prieurii (Kunth) W.D. Clayton

= *Chloris priouri* Kunth: *D. punctulata* Hochst. ex Steud.

At K!

***Eragrostis* Wolf**

**Eragrostis aegyptiaca* (Willd.) Del.

= *Poa aegyptiaca* Willd.

Reported by DeMarco and Dinelli and Migahid.

**Eragrostis aethiopica* Chiov.

= *E. gracillima* Hack.

Reported by DeMarco and Dinelli.

**Eragrostis aspera* (Jacq.) Nees

= *Eragrostis devolvens* Gaud.: *E. quintasii* Gaud.: *Poa aspera* Jacq.

Reported from Asir (near Qunfidah)

Eragrostis barrelieri Dav.

S. Chaudhary 3878, 6223, 6214, 6110, Riyadh; 6215, Dirab; 6217, Haradh; 6218, Dhurma; 6219, Unaiza; 6220, Taif; 2005, 2005A, Abha; 6222, Jabal Fayfa: A. Vandenberg 6223, Al-Rawshan: A. Wilton 6221, Abha: A.R. Saghir 6224, Haradh: A. Podzorski 6263, Jeddah-Jizan Road.

Eragrostis braunii Schweinf.

U.G. Bokhari 7264, Abha.

Eragrostis cilianensis (All.) Vign. ex F.T. Hubb

= *Briza eragrostis* L.: *Eragrostis major* (L.) Host.: *E. megastachya* (Koel.) Link: *E. multiflora* auctt. non (Forssk.) Ascher.: *Poa cilianensis* All.: *Poa cachetica* Schumach.

S. Chaudhary 3842, Ad-Dharab-Abha Road; but more wide-spread.

Eragrostis ciliaris (L.) R. Br.

= *Cynodon ciliaris* (L.) Rasp.: *Eragrostis pulchella* Parl.: *Megastachya ciliaris* (L.) P. Beauv.: *Poa ciliaris* L.

S. Chaudhary 1017B, near Jabal Fayfa; 6232, near Qunfidah; 6233, Jizan: A. Wilton 6234, Jizan.

Eragrostis japonica (Thunb.) Trin.

= *Poa japonica* Thunb.

S. Chaudhary 898, Riyadh.

Eragrostis minor Host

= *Eragrostis pappiana* Chiov.: *E. poaeoides* (L.) P. Beauv.: *Poa eragrostis* L.

S. Chaudhary 899, 3877, Riyadh; 1017, Jabal Fayfa.; 6235, Abu-Arish: A. Wilton 900, Najran.

Eragrostis papposa (Roem. & Schult.) Steud.

= *E. aulacosperma* Fresen.: *E. rigidifolia* Schweinf.: *E. sporostachya* (Coss. & Dur.) Lange: *E. vulgaris* Coss. & Germ. var. *sporostachya* Coss. & Durr.: *Megastachya papposa* Roem. & Schult.

S. Chaudhary 6236, Riyadh; 6237, Taif; 2021, Abha; 3861, 3837, Jabal Sooda; 920, 957, Rajal-al-Maa; 3292, Jabal Fayfa: S. Chaudhary & Z. Howaishel 6239, Sooda: D. Duba 6238, Baljurshi: A.R. Daud 6240 Baha: A. Podzorski 6157, Taif-Jeddah Road.

Eragrostis pilosa (L.) P. Beauv.

= *Eragrostis baguirmensis* A. Chev.: *E. senegalensis* Desv.: *E. tenuiflora* Steud.: *Poa pilosa* L.

S. Chaudhary 6242, 6243, Riyadh.

Eragrostis tenella (L.) Roem. & Schult. var. *tenella*

= *Eragrostis amabilis* (L.) Hook. & Arn.: *E. lepida* (A. Rich.) Steud.: *E. plumosa* (Retz.) Link: *E. tenella* var. *plumosa* (Retz.) Stapf: *Poa amabilis* L.: *Poa tenella* L.: *P. lepida* A. Rich.: *P. plumosa* Retz.

S. Chaudhary 6244, Hali Bin Yaqoob near Qunfidah; 6245, Jizan.

**Eragrostis tenuifolia* (A. Rich.) Hochst. ex Steud.

= *Poa tenuifolia* A. Rich.

Reported by Migahid.

**Eragrostis tremula* Hochst. & Steud.

Reported by Migahid and DeMarco and Dinelli.

Eragrostis trichodes (Nutt.) Wood

= *Poa trichodes* Nutt.

S. Chaudhary 6247, Riyadh (Cult.)

**Eragrostis turgida* (Schumach.) De Willd.

= *Briza rubella* Steud.: *E. rubiginosa* Trin.: *Poa turgida* Schumach.

Reported by Migahid.

Eremopyrum* (Ledeb.) Jaub. & SpachEremopyrum confusum* Meld. var. *confusum*

H. Heemstra 3506, Al-Jauf near Tamaryaat

Eremopyrum distans (C. Koch) Nevski

= *Agropyron distans* C. Koch: *A. lasianthum* Boiss.: *Eremopyrum orientale* (L.) Jaub. & Spach var. *lasianthum* (Boiss.) Maire

Reported by Migahid. Also at BM!

Eriochloa* KunthEriochloa fatmensis* (Nees) Pilger

= *Digitaria acrotricha* (Steud.) Roberty: *Eriochloa acrotricha* (Steud.) Hack.: *E. nubica* (Steud.) Hack. & Stapf: *E. punctata* (L.) Ham. var. *acrotricha* (Steud.) Benth.: *Helopus acrotrichus* Steud.: *H. nubicus* Steud.: *Panicum acrotrichum* Hook. f.: *P. fatmense* Hochst. & Steud.

Reported from Jeddah, Makkah and Wadi Fatimah. Type from Saudi Arabia?

**Eriochloa meyeriana* (Nees) Pilger

= *Panicum meyerianum* Nees: *P. mite* Steud.: *P. schimperianum* Hochst. ex Rich.: *P. umbratile* Mez

Reported from Tehama of North Yemen. Could be present in Saudi Arabia.

Festuca* L.Festuca arundinacea* Schreber

At K!

Fingerhuthia* Nees*Fingerhuthia africana* Lehm.

= *Fingerhuthia afghanica* Boiss.

Frequent in North Yemen Highlands and should be expected in Asir.

Gastridium* P. Beauv.Gastridium phleoides* (Nees & Meyen) C.E. Hubb.

= *Gastridium lendigerum* (L.) Desv. var. *longiaristatum* Schweinf.: *G. oblongum* Coincy: *Lachnagrostis phleoides* Nees & Meyen

S. Chaudhary 3850, Jabal Sooda.

**Gastridium ventricosum* (Gouan) Schimp. & Thell.

= *Agrostis ventricosa* Gouan: *Gastridium lendigerum* (L.) Desv.: *Milium lendigerum* L.

Reported by DeMarco and Dinelli.

***Halopyrum* Stapf.**

Halopyrum mucronatum (L.) Stapf.

= *Brizopyrum mucronatum* (L.) Wight: *Desmazeria uniolooides* Defl.: *Eragrostis mucronata* (L.) Defl.: *Uniola mucronata* L.

Reported for the Hijaz coast. Also reported by DeMarco and Dinelli. Also at K!

***Harpachne* A. Rich.**

Harpachne schimperi A. Rich.

= *Eragrostis schimperi* (A. Rich.) Benth.

S. Chaudhary 3295, 6250, Jabal Fayfa.

***Hemarthria* R. Br.**

Hemarthria compressa (L.f.) R. Br.

= *Hemarthria glabra* Blatt. & McCann.: *H. laxa* Nees: *Rottboellia compressa* L.f.

At K!

***Heteropogon* Pers.**

Heteropogon contortus (L.) P. Beauv.

= *Andropogon contortus* L.: *A. hispidissimus* Hochst. ex Steud.: *Heteropogon glaber* Pers.: *H. hirtus* Pers. non (Hochst.) Anders.

S. Chaudhary 927, 3290, Gabal Fayfa.

***Hordeum* L.**

Hordeum murinum L. ssp. *glaucum* (Steud.) Tzvelev

= *H. glaucum* Steud.

S. Chaudhary 711, Khafs (near Riyadh); 6253, Hail: N. Munro 3324, 3369, Eastern Province: R. White 6254, Hafr-al-Atj.

**Hordeum murinum* L. ssp. *leporinum* (Link) Arcang.

= *H. leporinum* Link

Reported by Migahid.

Hordeum vulgare L. (includ. *H. distichon* L.)

S. Chaudhary 6255, Hail; 6251, Jabl Fayfa: N. Munro 3203,? Eastern Province

***Hyparrhenia* Fournier**

Hyparrhenia hirta (L.) Stapf.

= *Andropogon hirtus* L.: *A. podotrichus* Hochst.: *A. sinaicus* Del.: *Cymbopogon hirtus* (L.) Thoms.: *Heteropogon hirtus* (Hochst.) Anders. non Pers.: *H. pubescens* Anders.: *Hyparrhenia podotricha* (Hochst.) Anders.: *H. pubescens* (Anders.) Chiov.: *Sorghum hirtum* (L.) Kuntze

S. Chaudhary 3026, 3047, 3090, Hail; 6259, Riyadh; 6279, Najran; 6251, Khamees; 2012, Abha; 2011, Jabl Sooda; 1012, 2012, 6105, Jabl Fayfa: Z Howaishel 6260, Abha: H. Abdul Mutalab 6261, Taif: A. Wilton 6251, Najran: A.R. Daud 6262, Baha: G. DeMarco 6263, Baha: D. Duba 6264, Taif: A. Podzorski 6153, near Abha; 6254, Wadi Namra, Asir.

***Imperata* Cyr.**

Imperata cylindrica (L.) P. Beauv.

= *Imperata arundinacea* Cyr.: *I. laguroides* (Pourr.) Roux: *Lagurus cylindricus* L.: *Saccharum laguroides* Pourr.

S. Chaudhary 6265, 6260, Al-Kharj: A.R. Daud 6267, Aflaj Lake: A. El-Shaikh & A.R. Daud 6268, Badeeh – Khamaseen Road: N. Longhitano 6270, Qateef.

***Lagurus* L.**

Lagurus ovatus L.

Reported by Migahid and at K!

Lamarckia* MoenchLamarckia aurea* (L.) Moench

= *Achyrodes aureus* (L.) O. Ktze.: *Chrysurus aureus* (L.) P. Beauv.: *C. cynosuroides* Pers.: *Cynosurus aureus* L.

S. Chaudhary 3833, near Abha: A. Podzorski 6164, near Baljurshi.

Lasiurus* Boiss.Lasiurus scindicus* Henrard

= Non *Elionurus hirsutus* (Vahl) Munro ex Benth.: *Lasiurus hirsutus* (Vahl) Boiss. nom. superf. illegit.: non *Rottboellia hirsuta* Vahl: *Saccharum hirsutum* Forssk. (Cope, 1980.)

S. Chaudhary 6271, Unaiza; 6272, Riyadh; 1050, Haayer; 6273, Haradh; 6274, Jizan: Z. Howaishel 6275, Jeddah: N. Munro 3234, between Wadi Miyah and Ain Dar: A. El-Shaikh and A.R. Daud 6276, Badeeh-Khamaseen Road: D. Duba 6277, Wadi Bisha: N. Longhitano 6278, As-Sarrar: G. De-Marco 6279, 6284, Bisha; 6283, Jeddah; 6280, Rumah; 6281, Dhahran: K. Mahrousi 6282, Al-Hareeq: R. White 6285, Muzayri.

Leptothrium* KunthLeptothrium senegalense* (Kunth) W.D. Clayton

= *Lappago latipes* Steud.: *Latipes inermis* Chiov.: *L. senegalensis* Kunth

S. Chaudhary 6287, Hali-Bin-Yaqoob near Qunfidah; 6287, Abu-Arish; 6288, Ad-Dharab-Abha Road; 7026, Jabal Fayfa.

Lolium* L.Lolium multiflorum* Lam.

S. Chaudhary 6290, Riyadh.

Lolium perenne L.

S. Chaudhary 6150, Riyadh.

Lolium persicum Boiss.

S. Chaudhary 1080, Riyadh: A.R. Saghir, 6291,? Al-Jauf.

Lolium rigidum Gaud.

S. Chaudhary 1073, 6292, 6293, 6294, Riyadh; 1065, Hofuf; 6295, Haradh; 6296, Al-Kharj.

Lolium temulentum L.

Ocassionally seen as a weed.

Melanocenchris* NeesMelanocenchris abyssinica* (R. Br.) Hochst.

= *Eutriana abyssinica* R. Br.: *Gacilea royleana* Hook. f. var. *plumosa* Hook. f.: *Melanocenchris plumosa* Jaub. & Spach.

N. Baeshin and K. Batanouni 7266, Badr-Madinah Road.

Microchloa* R. Br.Microchloa kunthii* Desv.

= *Microchloa abyssinica* A. Rich.: *M. indica* sensu Eggel. non (L.f.) P.Beauv.

S. Chaudhary 1004, 6298, Jabal Sooda: S. Chaudhary & Z. Howaishel 6299, Jabal Sooda.

Octochloa* Edgew.Octochloa compressa* (Forssk.) Hilu

= *Eleusine compressa* (Forssk.) Ascher. & Schweinf.: *E. flagellifera* Nees: *E. stolonifera* R. Br.: *Panicum compressum* Forssk.

S. Chaudhary 6192, 6193, Riyadh; 6197, Taif: S. Chaudhary & Z. Howaishel 6194, Jizan: D. Duba 6195, near Raniyah.

Odyssea* Stapf.*Odyssea mucronata* (Forssk.) Stapf

= *Aeluropus mucronatus* (Forssk.) Defl.: *Eragrostis pungens* (Vahl) Schweinf.: *Festuca mucronata* Forssk.: *F. pungens* Vahl

Rather common south of the Saudi Arabian border in the Yemeni Tehama in coastal area. Should be present in southern Saudi Tehama coastal areas.

Oropetium* Trin.Oropetium minimum* (Hochst.) Pilger

= *Chaetostichium majusculum* C.E. Hubb.: *C. minimum* (Hochst.) C.E.

Hubb.: *Lepturus minimus* Hochst.: *Oropetium ennedicum* Gillet & Quez.:
O. majusculum (C.E. Hubb.) Cuf.

S. Chaudhary 7030, Jabal Fayfa; 7031, Ad-Dharb.

**Oropetium thomaeum* (L.f.) Trin.

= *Nardus thomaea* L.f.: *Rottboellia thomaea* (L.f.) Willd.

Reported by DeMarco and Dinelli.

***Oryza* L.**

Oryza sativa L.

Cultivated.

***Oryzopsis* Michx.**

Oryzopsis holciformis (M. Bieb.) Hack.

= *Agrostis holciformis* M. Bieb.: *Milium holciforme* (M. Bieb.) Spreng.:
Piptatherum holciformis (M. Bieb.) Roem. & Schult.

S. Chaudhary 3870, Jabal Sooda.

Oryzopsis miliacea (L.) Benth. & Hook ex Ascher. & Schweinf.

= *Agrostis miliacea* L.: *Piptatherum miliaceum* (L.) Coss.

At K!

***Panicum* L.**

Panicum antidotale Retz.

S. Chaudhary 6377, Qateef; 1066, Hofuf; 6379, Haradh; 547, Dirab: M.
 Yahya 6417, Arar.

Panicum coloratum L.

Reported By Migahid and at K!

Panicum maximum Jacq.

S. Chaudhary 1021, Jabal Fayfa; 7045, Wadi Bani Zahar.

Panicum miliaceum L.

S. Chaudhary 6374, Taif; 6375, Unaiza; 6376, Haradh.

Panicum repens L.

N. Longhitano 6380, Qateef: Allred, Draz *et al.* 6381, Hofuf.

Panicum turgidum Forssk.

S. Chaudhary 6349, Riyadh; 6349, Al-Kharj; 6350, Jizan: S. Chaudhary & Z. Howaishel 6351, Jizan: Z. Howaishel 6352, Riyadh-Dammam Road; 6353, Jeddah: Z. Hyder 6354, near Hofuf: A. El-Shaikh & A.R. Daud 6355, Houta-Aflaj Road: A.R. Daud 6356, 6357, Aarqah; 6358, Badeeh-Sulayyil Road: R. White 6359, Raudhat-al-Kharaim: D. Duba 6361, Wadi Bisha: N. Munro 3277, Al-Ahsa: Allred, Draz *et al.* 6362, near Madinah: O. Draz 6363, near Dawadmi; 6253, Rumah: N. Longhitano 6364, Ain Erj: G. DeMarco 6365, Wadi Kulais; 6366, near Sulayyil: Nouri 6367, Sulayyil: A.R. Daud and Saleh 6368, Buraida Nafud: K. Mahrous 6371, Hareeq.

Pappophorum* Schreb.*Pappophorum foxii* Post

Zohari reported it from 'Manama Foothills' (?Bahrain). Also, reported by DeMarco and Dinelli. It should be an *Enneapogon* sp.

Parapholis incurva* (L.) C.E. Hubb.Parapholis incurva* (L.) C.E. Hubb.

= *Aegilops incurva* L.: *A. incurvata* L.: *Lepturus incurvatus* (L.) Trin.: *Pholiurus incurvatus* (L.) Hitchcock

S. Chaudhary 6382, 6383, Riyadh; 6384, Hail.

Paspalidium* Stapf.Paspalidium desertorum* (Rich.) Stapf.

= *Panicum arabicum* Nees ex Steud.: *P. desertorum* Rich.

S. Chaudhary 7083, 7085, Hakima.

Paspalidium geminatum (Forssk.) Stapf.

= *Echinochloa geminata* (Forssk.) Roberty: *Panicum geminatum* Forssk.

A. Wilton 5385, Jizan

***Paspalum* L.**

**Paspalum dilatatum* Poir.

= *Panicum ovatum* Nees

Reported by DeMarco and Dinelli

Paspalum paspalodes (Michx.) Scrib.

= *Digitaria paspalodes* Michx.: *Paspalum distichum* auctt. non L.

Allred, Draz *et al.* 6406, Hofuf.

Paspalum vaginatum Sw.

= *Paspalum distichum* L. var. *vaginatum* (Sw.) Griesb.

S. Chaudhary 6386, Qateef: N. Munro 6387, Wadi Miyah.

***Pennisetum* L. Rich.**

**Pennisetum clandestinum* Hochst. ex Chiov.

= *Pennisetum inclusum* Pilger: *P. longistylum* Hochst. var. *clandestinum* (Hochst. ex Chiov.) Leeke

Reported by DeMarco and Dinelli

Pennisetum divisum (Gmel.) Henr.

= *Panicum dichotomum* Forssk. non L.: *P. divisum* Gmel.: *Pennisetum dichotomum* (Forssk.) Del.: *P. elatum* Hochst. ex Steud.

S. Chaudhary 1051, Haayer; 6392, Al-Kharj: A.R. Daud 6394, Haayer; 6395, Aarqa: D. Duba 6396, Wadi Bisha: O. Draz 6397, near Dawadmi: N. Longhitano 6398, Dhahran: G. DeMarco 6399, Wadi Habuna near Najran.

Pennisetum glaucum (L.) R. Br.

= *Panicum americanum* L.: *P. glaucum* L.: *Pennisetum americanum* (L.) Schumann: *P. typhoides* (Burm.f.) Stapf

S. Chaudhary 1029, 1030, Haayer; 6388, Dirab: G. DeMarco 6389, Bisha: O. Draz 6390, S. Loc.

Pennisetum macrourum Trin.

At K!

**Pennisetum orientale* L. Rich.

Reported by Migahid.

**Pennisetum purpureum* Schum.

Reported by Migahid.

Pennisetum setaceum (Forssk.) Chiov.

= *Pennisetum asperifolium* Kunth: *P. orientale* L. Rich. var. *altissimum* Chiov.; var. *depauperatum* (Schweinf.) Chiov.: *P. phalaroideum* Schult.: *P. ruepellianum* Hochst. ex Penzig: *P. ruepellii* Steud.

S. Chaudhary 5883, Ad-Dharab-Abha Road, near Abha: A.R. Daud 6400, Baha: G. DeMarco 6401, Abha.

Pennisetum thunbergii Kunth

At K!

Pennisetum villosum R. Br. ex Fresen.

S. Chaudhary 2027, Abha; 3852 A, Jabal Sooda; 981, Rajal-al-Maa: A. Podzorski 6155, Jabal Sooda.

Phalaris* L.*Phalaris canariensis* L.

Reported by Migahid and DeMarco and Dinelli

Phalaris minor Retz.

S. Chaudhary 1077, 6410, Riyadh; 1064, Hofuf

**Phalaris paradoxa* L.

Reported from Egypt, Iraq, Jordan, Palestine and North Yemen. Should be present in Saudi Arabia.

Phragmites* Adans.Phragmites australis* (Cav.) Trin. ex Steud.

= *Arundo australis* Cav.: *A. phragmites* L.: *Phragmites communis* Trin.

S. Chaudhary 6112, Al-Kharj: A.R. Daud 6414, Aflaj: M. Sharif 6413, Hofuf: N. Munro 6412, Wadi Miyyah; 3212, Tarut Island; 3282, Eastern Province: N. Longhitano 6415, Safwa Oasis.

Poa* L.Poa annua* L.

S. Chaudhary 6407, 6408, Riyadh.

Poa bulbosa L. var. *vivipara* Koeler

At E!

**Poa infirma* Humb. Bonpl. & Kunth

Reported by Migahid.

Poa leptoclada Hochst. ex A. Rich.

S. Chaudhary 3839, 3846, 3874, Jabal Sooda.

Poa pratensis L.

S. Chaudhary 3873, Jabal Sooda.

Poa sinaica Steud.

H. Heemstra 3452, Al-Jauf near Tamaryaat: N. Munro 3363, northern Saudi Arabia (S. loc.).

Polypogon* Desf.Polypogon monspeliensis* (L.) Desf.

= *Alopecurus monspeliensis* L.

S. Chaudhary 4066, Qateef; 6416, Al-Kharj; 1084, 6300, 6301, Riyadh: N. Munro 6302, Wadi Miyah: A.R. Saghir 6303, Haradh.

Rhynchelytrum* NeesRhynchelytrum repens* (Willd.) C.E. Hubb.

= *Melinis rosea* (Nees) Hack.: *Monachyron grandiflorum* (Hochst. ex Rich.) Mart.: *Panicum roseum* Nees: *Rhynchelytrum dregeanum* Nees: *R. villosum* (Parl.) Chiov.: *Saccharum repens* Willd.: *Tricholaena grandiflora* Hochst. ex Rich.: *T. repens* (Willd.) Hitchcock: *T. rosea* Nees.

S. Chaudhary 927, Abha; 974, 3285, 3833A, 6308, Jabal Fayfa.

Rostraria Trin.*Rostraria cristata* (L.) Tzvelev

= *Festuca cristata* L.: *F. phleoides* Vill.: *Koeleria phleoides* (Vill.) Pers.: *K. cristata* auctt. non (L.) Pers.: *Lophochloa phleoides* (Vill.) Reichb.

S. Chaudhary 709, 6309, Riyadh.

Rostraria pumila (Desf.) Tzvelev

= *Avena pumila* Desf.: *Koeleria pumila* (Desf.) Domin: *K. sinaica* Boiss.: *Lophochloa pumila* (Desf.) Bor: *Trisetum pumilum* (Desf.) Kunth

S. Chaudhary 6310, Hail; 6311, Riyadh; 3862, Jabal Fayfa: R. White 6312, Ad-Dahna.

Saccharum L.*Saccharum ravennae* (L.) Murray

= *Andropogon ravennae* L.: *Erianthus elephantinum* Hook. f.: *E. ravennae* (L.) P. Beauv.

At K!

Saccharum spontaneum L.

S. Chaudhary 901, Najran: Allred, Draz *et al.* 6113, Baljurshi: D. Duba 6114, Wadi Raniyah.

Schismus P. Beauv.*Schismus arabicus* Nees

S. Chaudhary 2060, Hail: R. White 6316, Tanha.

Schismus barbatus (L.) Thell.

= *Festuca barbata* L.: *F. calycina* Loefl.: *Schismus calycinus* (Loefl.) Duval-Jouve

S. Chaudhary 6317, Hail; 6318, Sakaka; 6319, Riyadh; 3847, Jabal Sooda: S. Chaudhary & Z. Howaishel 6320, Dhurma: F. Iskander 4053, Majmaa: A.R. Daud 6321, Aarqah.

Schoenfeldia* KunthSchoenfeldia gracilis* Kunth= *Chloris pallida* Edgw.: *Schoenfeldia nutans* Steud.

S. Chaudhary 6323, Jizan Dam.

Secale* L.*Secale cereale* L.

Reported by DeMarco and Dinelli.

Sehima* Forssk.Sehima nervosum* (Rottl.) Stapf.= *Andropogon nervosus* Rottl. ex Willd.: *Ischaemum laxum* R. Br. var. *genuinum* Hack.

S. Chaudhary 3811, Jabal Fayfa.

Setaria* P. Beauv.Setaria italica* (L.) P. Beauv.= *Panicum italicum* L.: *Pennisetum italicum* (L.) R. Br.

S. Chaudhary 6326, Haradh.

Setaria pumila (Poir.) Roem. & Schult.= *Panicum glaucum* auctt. non L.: *P. pumilum* Poir.: *Setaria glauca* (L.) P. Beauv.: *S. lutescens* (Weigel) F.T. Hubb.: *S. pallide-fusca* (Schumach.) Stapf

S. Chaudhary 6324, 6325, Riyadh.

**Setaria sagittifolia* (Hochst.) Walp.= *Panicum sagittifolium* Hochst.: *Pennisetum sagittifolium* A. Rich.: *Cymbosetaria sagittifolia* (A. Rich.) Schweick.

Reported from the Tehama of North Yemen. May be present in southwestern Saudi Arabia.

Setaria verticillata (L.) P. Beauv.= *Panicum adhaerens* Forssk.: *P. asperum* Lam.: *P. verticillatum* L.: *Setaria adhaerens* (Forssk.) Chiov.

S. Chaudhary 6328, Qateef; 6329, Haradh; 6330, Unaiza; 6331, 6332, Riyadh; 6333, Jabal Fayfa: H. Abdul Mutalib 6336, Taif: A. Wilton 6337, Najran.

Setaria x verticilliformis Dumort

= *S. ambigua* Guss.: *S. verticillata* (L.) P. Beauv. ssp. *ambigua* (Guss.) Trabut

S. Chaudhary 6344, Qateef.

Setaria viridis (L.) P. Beauv.

= *Panicum viride* L.

S. Chaudhary 1058, Hofuf; 6343, Unaiza; 6341, 6342, 6345, 6346, Riyadh: S. Chaudhary 6327, Riyadh: A. Wilton 6340, Najran.

***Snowdenia* Hubb.**

Snowdenia polystachya (Fres.) Pilger

= *Beckera polystachya* Fres.: *B. schimperi* Hochst.

Reported by DeMarco and Dinelli. Also at K!

***Sorghum* Moench**

**Sorghum arundinaceum* (Desv.) Stapf.

= *Sorghum divaricatum* (Hack.) Stapf.

Reported by Migahid and DeMarco and Dinelli.

Sorghum bicolor (L.) Moench

= *Andropogon sorghum* (L.) Brot.: *Holcus bicolor* L.: *H. durra* Forssk.: *Sorghum durra* (Forssk.) Stapf.: *S. vulgare* Pers.

S. Chaudhary 6418, Riyadh. Cult.

Sorghum x drummondii (Nees ex Steud.) Millspaugh & Chase

= *Andropogon drummondii* Nees ex Steud.: *A. sorghum* (L.) Brot. var. *sudanensis* Piper: *Sorghum sudanensis* (Piper) Stapf.

Cult. and escape from cult.

Sorghum halepense (L.) Pers.

= *Holcus halepensis* L.

S. Chaudhary 6419, Unaiza; 6420, Hail; 6421, Riyadh.

***Sphenopus* Trin.**

**Sphenopus divaricatus* (Gouan) Rchb.

= *Poa divaricata* Gouan

Reported by Migahid and DeMarco and Dinelli.

***Sporobolus* R. Br.**

Sporobolus africanus (Poir.) Robyns & Tourn.

= *Agrostis africana* Poir.: *A. capensis* Willd. non (L.) Lamk.: *A. spicata* Thunb. non Vahl: *Sporobolus batesii* A. Chev.: *S. capensis* (P. Beauv.) Kunth: *S. indicus* (L.) R. Br. var. *africanus* (Poir.) Jovet & Guedes; var. *capensis* (P. Beauv.) Peter

S. Chaudhary 3851, Jabal Sooda

Sporobolus airoides (Torr.) Torr.

= *Agrostis airoides* Torr.: *Sporobolus diffusissimus* Buckl.: *Vilfa airoides* Trin. ex Steud.

S. Chaudhary 6422, Riyadh (Cult.)

Sporobolus arabicus Boiss.

N. Munro 6725, Ras-al-Tanaqil; 6726, Eastern Province

Sporobolus consimilis Fresen.

= *Sporobolus nogalensis* Chiov.: *S. robustus* mult. auctt. non Kunth: *S. stenostachyus* Peter: *Vilfa consimilis* (Fresen.) Steud.

S. Chaudhary 1031, Haayer; 3893, Jizan Dam.

**Sporobolus ioclados* (Trin.) Nees

= *Sporobolus marginatus* Hochst. ex A. Rich.: *Vilfa ioclados* Trin.: *V. pallida* Trin.

Reported as *S. marginatus* by Migahid and DeMarco and Dinelli.

Sporobolus minutus Link

= *Vilfa minuta* (Link) Trin.

At K!

Sporobolus pyramidalis P. Beauv.

= *Sporobolus hypseloteros* Chiov.: *S. indicus* (L.) R. Br. var. *pyramidalis* (P. Beauv.) Peter: *S. ruepellianus* Fresen.: *Vilfa pyramidata* (P. Beauv.) Steud.: *V. ruepelliana* (Fresen.) Steud.

S. Chaudhary 987, Jabal Fayfa

Sporobolus spicatus (Vahl) Kunth

= *Agrostis spicata* Vahl: *S. faucicola* Peter

S. Chaudhary 6423, Qateef; 6424, Jeddah; 6425, Jizan: A. Podzorski 6159, Jeddah-Jizan Road.

Stipa* L.Stipa capensis* Thunb.

= *Stipa retorta* Cav.: *S. tortilis* Desf.

S. Chaudhary 6428, Hail; 6429, near Rumah; 6430, 6431, near Shamlul; 6432, Riyadh: R. White 6433, Raudhat-al-Kharaim: F. Iskander 4052, Majmaa.

Stipa parviflora Desf.

Reported from Jabal Harb (5000 ft elev.) North Hijaz. At K!

Stipagrostis* NeesStipagrostis ciliata* (Desf.) De Wint.

= *Aristida ciliata* Desf.

S. Chaudhary 6442, Taif Research Station.

Stipagrostis drarii (Taeckh.) De Wint.

= *Aristida drarii* Taeckh.: *S. arabiaefelicis* Bor.: *S. scoparia* mult. auctt. non (Trin.) De Wint.

S. Chaudhary 6437, between Buraydah and Riyadh; 534, 3130, Khurais Nafud; 2048, Shaqra Nafud; 6438, Al-Kharj Nafud; 6436, Taif Research Station: S. Chaudhary & Z. Howaishel 6439, Khurais Nafud: Z. Howaishel 6440, 250 km from Riyadh on Dammam Road: R. White 6441, Ad-Dhahna near Rumah.

Stipagrostis foexiana (Maire & Wilezek) De Wint.

Reported by DeMarco and Dinelli. Also at K!

Stipagrostis hirtigluma (Trin. & Rupr.) De Wint.

= *Aristida hirtigluma* Trin. & Rupr.

A. Podzorski 6161, Jeddah-Jizan Road: D. Duba 6443, Wadi Raniyah: Z. Howaishel 6454, Jeddah: S. Chaudhary 6453, Jizan; 7051, 7052, 7053, Wadi Bani Zahar.

**Stipagrostis lanata* (Forssk.) De Wint.

= *Aristida lanata* Forssk.

Reported by Migahid.

Stipagrostis obtusa (Del.) Nees

= *Aristida obtusa* Del.

S. Chaudhary 553, 2069, 3028, Hail; 6445, Taif Research Station; 6446, Najran; 644 Abha: D. Duba 6447, near Wadi Habuna: A.R. Daud 6450, Baha.

Stipagrostis paradisea (Edgw.) De Wint.

= *Aristida paradisea* Edgw.

S. Chaudhary 6456, Riyadh: J. Asmar 537, 538, 6457, Thamama (near Riyadh).

Stipagrostis plumosa (L.) Munro ex T. Anders.

= *Aristida plumosa* L.

S. Chaudhary 556, 2062, 6458, 6459, Hail; 6460, Sakaka; 6461, near Buraidah; 6452, Shamlul; 6463, near Khurais; 6464, Riyadh; 3036, Ruba-al-Khali; 6465, near Taif: Z. Hyder 6466, Hofuf: A.R. Daud 6467, Baha: R. White 6468, near Rumah: N. Munro 3215, Al-Hasa.

Stipagrostis pogonoptila (Jaub. & Spach) De Wint.

= *Aristida pogonoptila* (Jaub. & Spach) Boiss.: *Arthratherum pogonoptilum* Jaub. & Spach

At K!

Stipagrostis raddiana (Savi) De Wint.

= *Aristida raddiana* Savi

S. Chaudhary 2098, 3095, Hail; 1048, Haayer; 892, 6469, 6470, Riyadh: J. Asmar 6472, Tumair.

**Stipagrostis scoparia* (Trin. & Rupr.) De Wint.= *Aristida scoparia* Trin. & Rupr.

Reported by Migahid, DeMarco & Dinelli and Zohary. *S. scoparia* Migahid, p. 745 is *S. drarii* (Taeckh.) De Wint. as may also be Zohary, p. 633: *S. drarii* is the very conspicuous, tall species most characteristic to high sand-dunes and very deep sand in Saudi Arabia!

Stipagrostis shawii (H. Scholz) H. Scholz

I. Bashour 893, Wadi Dawasir.

Stipagrostis uniplumis (Licht.) De Wint.= *Aristida papposa* Trin. & Rupr.: *A. uniplumis* Licht.: *Stipa prolifera* Steud.: *Stipagrostis papposa* (Trin. & Rupr.) De Wint.

D. Duba 6455, near Wadi Habuna.

Tetrapogon* Desf.Tetrapogon cenchriformis* (A. Rich.) W.D. Clayton= *Chloris cenchriformis* (A. Rich.) Baill.: *C. spathacea* Steud.: *Cryptochloris spathaceus* Benth.: *Lepidopironia cenchriformis* A. Rich.: *Tetrapogon cymbiferus* Peter: *T. spathaceus* (Benth.) Mackloskie, and (Steud.) Dur. & Schinz

S. Chaudhary 705, Abu-Arish

Tetrapogon tenellus (Roxb.) Chiov.= *Chloris macrantha* Jaub. & Spach non Desf.: *C. tenella* Roxb.: *C. triangulata* A. Rich.: *Tetrapogon monostachyus* Peter: *T. triangulatus* (A. Rich.) Schweinf.

S. Chaudhary 5890, Ad-Dharb-Abha Road; 6471, Abu-Arish.

Tetrapogon villosus Desf.= *Chloris villosus* (Desf.) Pers.

S. Chaudhary 6472, Riyadh; 6473, Taif; 6474, Abu-Arish; 1011, Jabal Fayfa;
S. Chaudhary & Z. Howaishel 6475, Riyadh; 6476, Dhurma; J. Asmar 6477,
Tumair; A. Podzorski 6165, Wadi Namra (Asir); D. Duba 6252, Taif; A.R.
Daud 6479, Aarqah (Wadi Hanifa).

Themeda* Forssk.Themeda triandra* Forssk.= *Anthistiria ciliata* Nees non L. f.

S. Chaudhary 3836, 3837, Jabal Sooda; 950, 3288, Jabal Fayfa: D. Duba 6480, near Baljurshi: G. DeMarco 6481, Baljurshi: Allred, Draz *et al.* 6481, Bani Saar.

Tragus* HallTragus berteronianus* Schult.

S. Chaudhary 6485, Haayer; 6486, Taif; 6487, Abu-Arish: G. DeMarco 6492, Wadi Tabala (Bisha)

Tragus racemosus (L.) All.= *Cenchrus racemosus* L.: *Lappago racemosa* (L.) Honck.

S. Chaudhary 6109, 6489, Riyadh: S. Chaudhary & Z. Howaishel 6490, Dhurma: H. Abdul Mutalib *et al.* 6493, Assheerah: D. Duba 6488, Wadi Tabala (Bisha).

Tricholaena* Schrad.Tricholaena teneriffae* (L.f.) Link

= *Agrostis plumosa* Ten.: *Melinis leucanthum* (Rich.) Chiov.: *M. teneriffae* (L.f.) Hack.: *Panicum leucanthum* Rich.: *P. teneriffae* (L.f.) R. Br.: *Tricholaena leucantha* (Rich.) Hochst.: *T. mascatensis* Gandog.: *T. micrantha* Schrad.

S. Chaudhary 983, 3298, Abha-Jizan Road; 3843, Ad-Dharab-Abha Road; 6494, Jabal Fayfa: G. DeMarco 6495, Khamees Mushayt: D. Duba 6497, Taif

Trichoneura* Anderss.Trichoneura mollis* (Kunth) Ekman

= *Crossotropis arenaria* (Steud.) Rendle: *C. mollis* (Kunth) Stapf: *Leptochloa arenaria* Steud.: *L. mollis* Kunth: *Trichoneura arenaria* (Steud.) Ekman: *Triodia mollis* (Kunth) Dur. & Schinz: *Uralepis arenaria* Steud.

Reported from Jeddah. Also, at K!

***Tripogon* Roem. & Schult.**

Tripogon multiflorus De Mire & Gillet

S. Chaudhary 6737, Riyadh.

Tripogon purpurascens Duthie

S. Chaudhary 6736, Riyadh; S. Chaudhary 6756, Hafarat-al-Nissah.

***Triraphis* R. Br.**

Triraphis pumilio R. Br.

Reported by Migahid. Also at K!

***Trisetaria* Forssk.**

**Trisetaria koelerioides* (Bornm. & Hack.) Taeckh.

= *Trisetum koelerioides* Bornm. & Hack.

Reported by Migahid.

***Triticum* L.**

Triticum aestivum L.

= *Triticum sativum* Lam.: *T. vulgare* Vill.

The common wheat. Cult.

Triticum durum Desf.

Reported by DeMarco and Dinelli. Also at K! Cult.

***Urochloa* P. Beauv.**

Urochloa trichopus (Hochst.) Stapf.

= *Eriochloa trichopus* (Hochst.) Benth.: *Panicum trichopus* Hochst.

S. Chaudhary 942, Rajal-al-Maa.

***Urochondra* C.E. Hubb.**

Urochondra setulosa (Trin.) C.E. Hubb.

= *Crypsis dura* Boiss.: *Crypsis setulosa* (Trin.) Mez: *Heleochloa dura* (Boiss.) Boiss.: *Sporobolus setulosus* (Trin.) Terrac.: *Vilfa setulosa* Trin.

Reported by DeMarco and Dinelli. Also at BM!

Addenda

Boissiera squarrosa (Banks & Sol.) Nevski

= *B. bromoides* Hochst. ex Steud.: *B. pumilio* (Trin.) Hack.: *Pappophorum pumilio* Trin.: *P. squarrosus* Banks & Sol.

S. Collenette, at K!

Eragrostis superba Peyr.

U.G. Bokhari 7538, Al-Kharj (Cult.)

Eremopoa persica (Trin.) Rozhev.

= *Nephelochloa persica* (Trin.) Griseb.: *Poa persica* Trin.

A. Hamdan 7201, Al-Ghaat

Leptochloa obtusiflora Hochst.

S. Chaudhary 7262, Dharab – Abha Road, near Abha.

Taeniatherum caput-medusae (L.) Nevski

= *Elymus caput-medusae* L.

S. Collenette, at K!

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قائمة بالحشائش الموجودة بالمملكة العربية السعودية (دراسة نباتات شبه الجزيرة العربية - ٦)

شوكت علي شودي و توماس أ. كوب
المركز الإقليمي لأبحاث الزراعة والمياه - وزارة الزراعة والمياه -
الرياض - المملكة العربية السعودية ؛ - حقائق النبات الملكية - كيو-
المملكة المتحدة

تم إعداد قائمة بالحشائش الموجودة بالمملكة العربية
السعودية . وتحتوى هذه القائمة على ٢٦٩ صنفاً من
الحشائش مع مرادفاتها . من هذا العدد هنالك ٥٤ نوعاً لم يتم
التأكد من وجودها وذلك إما لأننا لم نرها قبل كتابة هذا البحث
أو أن هناك بعض الشك فيما إذا كانت هذه الأصناف موجودة
حقيقة في المملكة أم لا .

كما أن عدداً كبيراً من الأصناف التي تم تعريفها
والتأكد منها هي أصناف جديدة تذكر لأول مرة في شبه الجزيرة
العربية أو في المملكة العربية السعودية .