

Information on breeding systems for some common tropical and sub-tropical forage grasses

Genus	Species	Longevity	Pollination system	% Cross-pollination	Incompatibility	Isolation distance	Pollination agent	Comment
Agropyron	cristatum	Perennial	Cross-pollinated		Self incompatible	90R	Wind	
Agropyron	desertorum	Perennial	Cross-pollinated		Self incompatible	90R	Wind	
Andropogon	fastigiatus	Perennial	Self-pollinated		apomict			
Andropogon	gayanus	Perennial	Self-pollinated		apomict			
Astrebla	pectinata	Perennial			Self fertile			
Avena	barbata	Annual	Self-pollinated					
Avena	elator	Annual	Cross-pollinated		Anemophily			
Avena	fatua	Annual	Cross-pollinated		Anemophily			
Avena	sativa	Annual	Self-pollinated	<10				mainly cleistogamous
Avena	sterilis	Annual	Cross-pollinated		Anemophily			
Axonopus	affinis	Perennial			Facultative		Wind	
Axonopus	compressus	Perennial	Cross-pollinated		Facultative		Wind	
Axonopus	micay	Perennial			Facultative		Wind	
Axonopus	scoparius	Perennial			Facultative		Wind	
Bothriochloa	insculpta	Perennial	Self-pollinated		apomict			
Bothriochloa	ischaemum	Perennial	Self-pollinated		apomict			
Bothriochloa	radicans	Perennial	Apomict					aposporous
Brachiaria	arrecta	Perennial			Facultative		Wind/insect	
Brachiaria	bovonei	Perennial			Facultative apomict		Wind/insect	
Brachiaria	brizantha	Perennial			Facultative apomict		Wind/insect	aposporous
Brachiaria	comata	Perennial			Facultative apomict		Wind/insect	
Brachiaria	decumbens	Perennial	Obligate apomict		Facultative apomict		Wind/insect	aposporous
Brachiaria	deflexa	SemiPerennial			Facultative apomict		Wind/insect	
Brachiaria	dictyoneura	Perennial			Facultative apomict		Wind/insect	
Brachiaria	dura	Perennial			Facultative apomict		Wind/insect	
Brachiaria	eruciformis	Annual	Facultative apomict				Wind/insect	
Brachiaria	humidicola	Perennial			Facultative apomict		Wind/insect	
Brachiaria	jubata	Perennial			Facultative apomict		Wind/insect	
Brachiaria	lachnantha	Perennial			Facultative apomict		Wind/insect	
Brachiaria	lata	Perennial			Facultative apomict		Wind/insect	
Brachiaria	leucacrantha	Perennial			Facultative apomict		Wind/insect	
Brachiaria	mutica	Perennial	Facultative apomict, cross pollinated when sexual					
Brachiaria	nigropedata	Perennial			Facultative apomict		Wind/insect	
Brachiaria	plantaginea	Perennial			Facultative apomict		Wind/insect	
Brachiaria	platynota	Perennial			Facultative apomict		Wind/insect	
Brachiaria	ruziziensis	Perennial	Cross-pollinated		Facultative apomict		Wind/insect	
Brachiaria	ruzizixdecumbens	Perennial			Facultative apomict		Wind/insect	
Brachiaria	serrata	Perennial			Facultative apomict		Wind/insect	
Brachiaria	serrata	Perennial	Apomict					aposporous
Brachiaria	subquadripara	Perennial			Facultative apomict		Wind/insect	
Brachiaria	subulifolia	Perennial			Facultative apomict		Wind/insect	
Brachiaria	xantholeuca	Perennial			Facultative apomict		Wind/insect	
Bromus	arvensis	Annual	Self-pollinated	<5				
Bromus	erectus	Perennial	Cross-pollinated		Self incompatible	90R	Wind	
Bromus	hordeaceus	Annual	Self-pollinated					
Bromus	inermis	Perennial	Cross-pollinated		Self incompatible	90R	Wind	
Bromus	rigidus	Annual	Self-pollinated					
Bromus	rubens	Annual	Self-pollinated					
Cenchrus	brownii	SemiPerennial	Self-pollinated		apomict			
Cenchrus	ciliaris	SemiPerennial	Self-pollinated		Facultative apomict,			pseudogamy, cross pollinated when sexual re
Cenchrus	prieuri	Annual	Self-pollinated		apomict			
Cenchrus	setigerus	Perennial	Obligate apomict					aposporous
Chloris	gayana	Perennial	Cross-pollinated	1-4		200P		also apomictic and Self-pollinated found
Chloris	mossambicensis	Perennial	Self-pollinated		apomict			
Chloris	pilosa	Perennial	Self-pollinated		apomict			
Chloris	roxburghiana	Perennial	Self-pollinated		apomict			

Chloris	virgata	Perennial	Self-pollinated		apomict		
Chrysopogon	aciculatus	Perennial	Self-pollinated		apomict		
Coix	lacryma-jobi	Perennial	Cross-pollinated			Wind	
Coix	lacryma-jobi	SemiPerennial			Facultative		
Cymbopogon	nardus	Perennial			Facultative	Bees/insect	
Cynodon	aethiopicus	Perennial	Self-pollinated		apomict		
Cynodon	dactylon	Perennial	Cross-pollinated	90		90R	Wind
Cynodon	nlemfuensis	Perennial	Self-pollinated		apomict		
Dactylis	glomerata	Perennial	Cross-pollinated		Anemophily, Self incompatible		Wind
Dactyloctenium	giganteum						
Dichanthium	aristatum	Perennial	Self-pollinated		apomict		apomicts depends on daylength
Digitaria	abyssinica	Perennial			Facultative		
Digitaria	argillacea	Perennial			Facultative		
Digitaria	diagonalis	Perennial			Facultative		
Digitaria	eriantha	Perennial			Facultative		
Digitaria	exilis	Annual	Self-pollinated				
Digitaria	gazensis	Perennial			Facultative		
Digitaria	milanjiana	Perennial			Facultative		
Digitaria	ternata	Annual	Self-pollinated		apomict		
Echinochloa	colona	Perennial			Facultative	Bees/insect	
Echinochloa	haploclada	Perennial	Cross-pollinated		Facultative		
Echinochloa	pyramidalis	Perennial			Facultative		
Ehrharta	calycina	Perennial	Cross-pollinated				
Eleusine	coracana	Annual	Self-pollinated	1			also apomicts found
Eragrostis	curvula	Perennial	Self-pollinated	<5			also apomicts found
Eragrostis	cylindriflora	Perennial	Self-pollinated		apomict		
Eragrostis	inamoena	Perennial	Self-pollinated		apomict		
Eragrostis	mollior		Self-pollinated		apomict		
Eragrostis	superba	Perennial	Cross-pollinated		apomict		
Festuca	arundinacea	Perennial	Cross-pollinated		Partially incompatible		
Festuca	ovina	Perennial	Cross-pollinated				apomicts (vivipary) found
Festuca	pratensis	Perennial	Cross-pollinated				
Festuca	rubra	Perennial	Facultative apomict, cross pollinated when sexual		Partially incompatible		vivipary
Holcus	lanatus	Perennial	Cross-pollinated		Self incompatible		
Hordeum	vulgare	Annual	Self-pollinated	<10		Wind	cleistogamous
Hyparrhenia	cymbaria	Perennial	Self-pollinated		apomict		
Hyparrhenia	diplandra	Perennial	Self-pollinated		apomict		
Hyparrhenia	dregeana	Perennial	Self-pollinated		apomict		
Hyparrhenia	familiaris	Perennial	Self-pollinated		apomict		
Hyparrhenia	filipendula	Perennial	Self-pollinated		apomict		
Hyparrhenia	hirta	Perennial	Self-pollinated		apomict		
Hyparrhenia	newtonii	Perennial	Self-pollinated		apomict		
Hyparrhenia	niariensis	Perennial	Self-pollinated		apomict		
Hyparrhenia	pseudocymbaria	Annual	Apomict				
Hyparrhenia	rufa	Perennial	Self-pollinated		apomict		
Hyparrhenia	variabilis	Perennial	Self-pollinated		apomict		
Hyparrhenia	welwitschii	Perennial	Self-pollinated		apomict		
Lolium	multiflorum	Annual	Cross-pollinated		Self incompatible		Wind
Lolium	perenne	Perennial	Cross-pollinated			Wind	
Lolium	rigidum	Annual	Cross-pollinated			Wind	
Lolium	x hybridum	Perennial	Cross-pollinated		Self incompatible		Wind
Melinis	minutiflora	Perennial	Facultative apomict, self pollinated when sexual	0.1			
Panicum	anabaptistum		Self-pollinated		apomict		
Panicum	antidotale	Perennial	Cross-pollinated		apomict	60-90R	
Panicum	coloratum	Perennial	Cross-pollinated			60-90R	some apomicts found
Panicum	infestum		Self-pollinated		apomict		
Panicum	longiligulatum	Annual	Self-pollinated		apomict		
Panicum	maximum	Perennial	Facultative apomict, cross pollinated when sexual			Wind	aposporous
Panicum	repens	Perennial	Self-pollinated		apomict		

Panicum	scabridum		Self-pollinated		apomict			
Panicum	schinzi		Self-pollinated		apomict			
Panicum	turgidum	Perennial	Self-pollinated		apomict			
Paspalum	arundinellum	Perennial	Self-pollinated		apomict			
Paspalum	atratum	Perennial	Self-pollinated		apomict			
Paspalum	compressifolium	Perennial	Self-pollinated		apomict			
Paspalum	conjugatum	Perennial			Facultative		Bees/insect	
Paspalum	consersum	Perennial	Self-pollinated		apomict			
Paspalum	corypheum	Perennial	Self-pollinated		apomict			
Paspalum	dilatatum	Perennial	Facultative apomict, cross pollinated when sexual		Self incompatible	500R	Wind	
Paspalum	guenoarum	Perennial	Self-pollinated		apomict			
Paspalum	hydrophilum	Perennial	Self-pollinated		apomict			
Paspalum	nicorae	Perennial	Self-pollinated		apomict			
Paspalum	notatum	Perennial	Facultative apomict, cross pollinated when sexual		Partially incompatible	500R	Wind	Depends on accession
Paspalum	pilosum	Perennial	Self-pollinated		apomict			
Paspalum	plicatum	Perennial	Apomict					aposporous
Paspalum	scrobiculatum	Perennial	Self-pollinated		apomict			cleistogamous
Paspalum	secans	Perennial	Self-pollinated		apomict			
Paspalum	urvillei	Perennial	Self-pollinated		apomict			
Paspalum	virgatum	Perennial	Self-pollinated		apomict			
Paspalum	yaguaronense	Perennial	Self-pollinated		apomict			
Pennisetum	clandestinum	Perennial	Facultative apomict, cross pollinated when sexual		Facultative			some male sterility
Pennisetum	glaucum	Perennial			Facultative			
Pennisetum	pedicellatum	Annual	Facultative apomict, cross pollinated when sexual					
Pennisetum	polystachion	SemiPerennial	Self-pollinated		apomict			
Pennisetum	purpureum	Perennial	Cross-pollinated		Facultative			also apomicts found
Pennisetum	ramosum	Annual	Apomict					aposporous
Pennisetum	trachyphyllum	Perennial			Facultative			
Phalaris	arundinacea	Perennial	Cross-pollinated		Self incompatible	90R	Wind	
Phleum	pratense	Perennial	Cross-pollinated		Self incompatible	90R	Wind	
Poa	pratensis	Perennial	Facultative apomict, cross pollinated when sexual	5-10				aposporous
Secale	africanum	Perennial	Cross-pollinated	upto 50	Self incompatible	200R	Wind	
Secale	cereale	Annual	Cross-pollinated	upto 50	Self incompatible	200R	Wind	
Setaria	barbata	Perennial	Self-pollinated		apomict			
Setaria	incrassata	Perennial	Cross-pollinated		apomict	needed	Wind	
Setaria	lindenberiana	Perennial	Self-pollinated		apomict			
Setaria	orthosticha	Annual	Cross-pollinated			needed	Wind	
Setaria	sphacelata	Perennial	Cross-pollinated		apomict	needed	Wind	
Sorghum	almum							
Sorghum	arundinaceum							
Sorghum	bicolor	Annual	Self-pollinated	<5		300	Wind	400m from S. sudanense
Sorghum	versicolor		Self-pollinated		apomict			
Sorghum	x almum	Perennial	Cross-pollinated		Self fertile			
Sporobolus	fimbriatus	SemiPerennial						
Sporobolus	macranthelus	SemiPerennial						
Sporobolus	pyramidalis	SemiPerennial						
Tripsacum	andersonii	Perennial			Facultative		Bees/insect	
Tripsacum	latifolium	Perennial						
Urochloa	mosambicensis	Perennial	Self-pollinated		apomict			aposporous
Urochloa	panicoides				apomict/facultative			
Urochloa	trichopus	Annual	Apomict					aposporous
Vetiveria	zizanioides	Perennial			facultative			
Zea	mays	Annual	Cross-pollinated	95		200R	Wind	protandrous

production

