



Fig. 2. Approximate limits of geological formations (after SCHOLS & COHEN, 1950) and distribution of the savanna types (after COHEN & VAN DER EYK, 1953) in northern Surinam.

Table 7 ($K = 1$, $m = 1$, $n = 2$)

Table 7 (Legend: see appendix 2)																									
ORDER 2		Alliance →				1. Syngonantho—Xyridion				2. Bulbostylidion lanatae				3. Imperato—Mesosetion											
		geographic element		Roraima element		range with regard to moistness of the soil		range with regard to texture of the soil		Bulbostylidium circinatae		Xyrido—Paspalum puicelli		Syngonantho—Lagenocarpetum tremuli		Rhynchosporum podoperae		Bulbostylidetum spadiceae		Axonopodium purpusii		Elyonuro—Andropogonetum leucostachyi		Curatello—Imperetum brasiliensis	
		association number	subassociation number	number of records	soil moistness	soil texture	soil texture	soil texture	soil texture	2.1.1	2.1.2	2.1.3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
1a. SPECIES OF OPEN SAVANNA																									
Ch. PASPALETALIA PULCHELLI																									
Bulbostylis circinata	G	x	m-w	ws-sl	V 2-3	1 1	.	1 1	.	2.1.1	2.1.2	2.1.3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Bulbostylis capillaris var. capillaris	A	x	m-vw	"	IV +	3 + -1	IV + -1	2 +	V 1-2	2.1.1	2.1.2	2.1.3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Comolia lythrarioides var. lythrarioides	G	x	w-vw	"	V 1-2	4 1-2	V + -2	2 +	V 1-2	2.1.1	2.1.2	2.1.3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Panicum micranthum	N	x	m-r	"	II +	1 +	I +	.	V 1-2	2.1.1	2.1.2	2.1.3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Perama hirsuta	MNE	x	w-vw	ws-ls	V 2-3	4 + -1	IV + -2	2 +	V 1-2	2.1.1	2.1.2	2.1.3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Sauvagesia sprengelii	G	x	m-vw	ws-ls	V 2-3	4 + -1	IV + -2	2 +	V 1-2	2.1.1	2.1.2	2.1.3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Paspalum pulchellum	A	x	w-r	"	V 2-3	4 + -1	IV + -2	2 +	V 1-2	2.1.1	2.1.2	2.1.3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Lagenocarpus tremulus	MNE	x	w-vw	ws-ls	V 2-3	4 + -1	IV + -2	2 +	V 1-2	2.1.1	2.1.2	2.1.3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Rhynchospora graminea	N	x	w-vw	ws-ls	V 2-3	4 + -1	IV + -2	2 +	V 1-2	2.1.1	2.1.2	2.1.3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Rhynchospora podosperma	MNE	x	w-r	ls-h	V 2-3	4 + -1	IV + -2	2 +	V 1-2	2.1.1	2.1.2	2.1.3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Rhynchospora arenicola	G	x	w-r	-	V 2-3	4 + -1	IV + -2	2 +	V 1-2	2.1.1	2.1.2	2.1.3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Ch. SYNGONANTHO—XYRIDION																									
Paepalanthus polytrichoides	N	x	m-w	ws	I + -1	2 1-2	(x)	I + -1	2 + -1	3 1-1	2 1-2	2 1-3	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Curtia tenuifolia	A	x	m-vw	"	III +	3 + -1	I + -1	2 + -1	V 1-3	1 +	2 + -1	2 + -1	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Rhynchospora tenuis	A	x	w-vw	"	IV +	3 + -1	I + -1	2 + -1	V 1-3	1 +	2 + -1	2 + -1	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Paspalum polychaetum	NE	x	m-r	"	IV +	2 + -1	I + -1	2 + -1	V 1-3	1 +	2 + -1	2 + -1	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Xyris guianensis	N	x	m-r	"	I +	2 + -1	I + -1	2 + -1	V 1-3	1 +	2 + -1	2 + -1	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Rhynchospora barbata var. glabra	G	x	m-r	"	V 1-2	4 1-2	V 1-2	4 1-2	V 1-2	1 +	2 + -1	2 + -1	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Lisanthus coerulescens	NE	x	w-vw	"	V 1-2	4 1-2	V 1-2	4 1-2	V 1-2	1 +	2 + -1	2 + -1	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Syngonanthus umbellatus	N	x	w-vw	"	V 1-2	4 1-2	V 1-2	4 1-2	V 1-2	1 +	2 + -1	2 + -1	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Xyris savanensis var. savanensis	S	x	w-vw	"	V 1-2	4 1-2	V 1-2	4 1-2	V 1-2	1 +	2 + -1	2 + -1	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhynchosporum curvulae	Paspalotum	sporobletum	Bulbostylidium coniferac minoris	Bulbostylidium confertum	Elyonuro—Andropogonetum leucostachyi	Curatello—Imperetum brasiliensis	Panicetum stenodoidis	
Xyris surinamensis	N	x	w-vw	"	V 1-2	4 1-2	V 1-2	4 1-2	V 1-2	1 +	2 + -1	2 + -1	Xyrido—Paspalum puicelli	Syngonantho—Lagenocarpetum tremuli	Rhynchosporum podoperae	Brysoninetum crassifoliae malosae	Rhyn								

TABLE 8 (Legend: see appendage 2)

TABLE 6 (Legend: see appendage 2)

ORDER 1 TRACHYPOGONATALIA PLUMOSI	Alliance →		1. Cassio—Trachypogonion				2. Curatello—Trachypogonion				3. Rhynchosporo—Trachypogonion				sociability				
	geographic element	Roraima element	range with regard to moisture of the soil		Mesoeto—Trachypogonum		Lagenocarpo—Axonopodetum attenuati		Polycarpa—Trachypogonetum confertum		Sclero—Trachypogonetum		Dipteracantho—Byrsonimetum verbascifoliae		Schizachyrio—Rhynchosporum barbatae				
			association number	subass., variant	number of records	soil moisture	soil texture	1.1.1 a, 5 d ws	1.1.1 a, c d ws	1.1.2 a 7 vd ws	1.1.3 a 12 vd-d rs-ls	1.2.1 11 vd ls	1.2.2 a 11 d ls	1.2.2 b 11 d ls	1.2.3 6 d-m ls	1.2.4 6 d-m ls	1.3.1 b 12 vd s(c)l	1.3.1 a 9 vd s(c)l	1.3.1 c 13 d s(c)l
1a. SPECIES OF OPEN SAVANNA																			
Ch. TRACHYPOGONETALIA PLUMOSI																			
Bulbostylis junceaformis	A	MNE	vd-m	ws-sl	IV 1	V 1													
Cassia hispida	G		vd-d	"	III 1	V + + 1													
Bulbostylis fasciculata	A		vd	"	II + 2	III + + 1													
Schwenckia americana																			
Mitracarpus discolor	NE	MNE	vd-m	ws-ls	III +	V + + 1													
Styloanthus viscosa	MNE		"	"	I +	IV +													
Aeschynomene hystrix	A	MNE	vd-d	"	IV +	II +													
Cassia flexuosa	MNE		"	"	II +	II +													
Phyllanthus diffusus																			
Schizachyrium riedelii var. riedelii	NE	A	vd-m	rs-sl	.	.													
Galectia jussiaeana var. jussiaeana	N	NE	vd-d	"	.	.													
Ichthyothere terminalis	N	N	d-m	"	.	.													
Mitracarpus micropermus	A	N	vd	"	.	.													
Dichromena ciliata																			
Ch. CASSIO—TRACHYPOGONION	MNE	A	vd-m	ws	III 1-2	V + + 2													
Cassia ramosa var. ramosa	A	A	vd-d	"	II + 1	IV +													
Byrsonima crassifolia, small shrub			vd	"	(x)	V + + 1													
Borreria suaveolens																			
Catasenum discolor																			
Ch. MESOETO—TRACHYPOGONETUM ATTENUATI	G	NE	vd	ws	IV 1-2	IV + + 1													
Polygala angustifolia var. latifolia	NE	A	d	"	III +	IV + + 1													
Paepalanthus subtilis			"	"															
Polygala variabilis																			
Ch. LAGENOCARPO—AXONOPODETUM ATTENUATI	N	S	x	vd-m	ws	I +	.												
Schizaea incurvata	S	N	vd-d	"	.	.													
Axonopus attenuatus	A	N	vd	"	.	.													
Lagenocarpus weigeltii																			
Campylopus surinamensis																			
Ch. CURATELLO—TRACHYPOGONION	A	S	vd-m	rs-sl	.	.													
Bulbostylis capillaris var. tenuifolia	S	A	"	"	.	.													
Phaseolus peduncularis var. clitoroides	A	A	"	"	.	.													
Aeschynomene brasiliensis	A	A	"	"	.	.													
Bulbostylis capillaris var. cap., big form	A	A	"	"	.	.													
Elephantopus angustifolius	MNE	G	"	"	.	.													
Pavonia speciosa var. hostmannii	G	A	d-m	ls	.	.													
Schizachyrium riedelii var. multirameum	A	MNE	"	"	.	.													
Centrosema angustifolium	N	A	"	"	.	.													
Styloanthus guianensis var. gracilis	A	MNE	"	"	.	.													
Tephrosia sessiliflora	G	A	"	"	.	.													
Ricencouria glomerata	A	A	"	"	.	.													
Phaseolus longepedunculatus	A	A	"	"	.	.													
Aeschynomene paniculata	A	A	"	"	.	.													
Tephrosia purpurea	A	A	"	"	.	.													
Desmodium asperum	MNE	A	"	"	.	.													
Panicum rudgei	MNE	A	"	"	.	.													
Richardia scabra	MNE	A	"	"	.	.													
Commelinia erecta	MNE	A	"	"	.	.													
Ch. MESOETO—THRASYETUM PETROSAE	MNE	NE	x	vd-d	rs-sl	.	.												
Thrasya petrosa	N	NE	vd-d	rs-sl	.	.													
Psidium grandifolium	N	A	"	"	.	.													
Byrsonima coccobolifolia ad.	A	A	"	"	.	.													
" " juv.			"	"	.	.													
Ch. POLYCARPAEO—TRACHYPOGONETUM	NE	N	x	vd-d	rs-sl	.	.												
Polycarpa corymbosa	NE	N	d	ls	I 1	I +													
Oxyptelum capitatum	N	A	"	"	.	.													
Hybanthus ipecacuanha	A	MNE	x	vd-w	IV + + 1	I +													
Pectis elongata	N	A	"	"	.	.													
Conyzza chilensis	A	A	"	"	.	.													
Ayenia tomentosa	S	S	"	"	.	.													
Myrosma cannifolia	S	S	"	"	.	.													
Heliotropium fruticosum	A	A	"	"	.	.													
Cyperus amabilis	A	A	"	"	.</td														

Table II (continued)

TABLE 10 (Legend: see Appendix 2)

SAVANNA BUSHES