

Is the herb-shrub composition of *veredas* (Brazilian palm swamps) distinguishable?

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Table S1. Families and species of vascular plants sampled from five *veredas* in the Estação Ecológica Serra Geral do Tocantins (EESGTO), TO, and their occurrence in *veredas* of the states of Goiás (GO), Mato Grosso do Sul (MS) and Minas Gerais (MG), and in sites of cerrado *sensu stricto* (CSS), dry shrub grassland (*campo sujo* - CS) and moist grassland (*campo limpo úmido* - CLU). * = new occurrence record for the state of Tocantins; ** = new occurrence record for the Cerrado; Growth forms and N= number of samples Silva D.P.

FAMILY/SPECIES	EESGTO	GO	MS	TM	CSS	CS	CLU	Growth Forms	N
ACANTHACEAE									
<i>Justicia sericographis</i> V.A.W.Graham.	V1, V3, V4							subshrub	484
AMARANTHACEAE									
<i>Pfaffia jubata</i> Mart.	V5			x		x	x	subshrub	607
APOCYNACEAE									
<i>Blepharodon bicolor</i> Decne.	V3			x	x	x		vine	429
<i>Nephradenia acerosa</i> Decne.	V1, V2, V3, V4, V5							subshrub	6
<i>Odontadenia lutea</i> (Vell.) Markgr.	V5			x	x			vine	638
ARACEAE									
<i>Philodendron dardanianum</i> Mayo*	V1, V2, V3, V4							shrub	10
<i>Urospatha sagittifolia</i> (Rudge) Schott	V1, V2, V3, V4, V5	x	x					shrub	511
ARECACEAE									
<i>Mauritia flexuosa</i> L.f.	V1, V2, V3, V4, V5	x	x	x				palm	viewed
<i>Mauritiella armata</i> (Mart.) Burret	V1, V2, V3, V4, V5	x	x	x				palm	viewed
ASTERACEAE									
<i>Calea purpurea</i> G.M.Barroso	V1							shrub	561
<i>Clibadium armani</i> (Balb.) Sch.Bip. ex O.E.Schulz	V3, V4		x					shrub	482
<i>Chrysolepis desertorum</i> (Mart. ex DC.) Dematt.*	V1, V2, V3, V4, V5						x	subshrub	323
<i>Erechtites hieracifolius</i> (L.) Raf. ex DC.*	V1, V3, V4, V5	x	x	x				subshrub	11
<i>Lepidaploa nitens</i> (Gardner) H.Rob.	V5					x	x	shrub	721
<i>Mikania officinalis</i> Mart.*	V1, V2, V3, V4, V5	x		x		x		subshrub	31
<i>Porophyllum ruderales</i> (Jacq.) Cass.*	V3	x						subshrub	533
BLECHNACEAE									
<i>Blechnum serrulatum</i> Rich.*	V2, V3, V4							shrub	133
BURMANNIACEAE									
<i>Burmannia capitata</i> (Walter ex J.F.Gmel.) Mart.	V1, V3	x	x				x	herb	446
<i>Burmannia flava</i> Mart.*	V1, V2, V3, V4, V5	x	x	x			x	subshrub	523
CABOMBACEAE									
<i>Cabomba aquatica</i> Aubl.*	V3							herb	419
CARYOPHYLLACEAE									
<i>Polycarpha corymbosa</i> (L.) Lam.	V2				x	x		subshrub	600
CONVOLVULACEAE									
<i>Aniseia martinicensis</i> (Jacq.) Choisy	V2							vine	619
COSTACEAE									
<i>Costus spiralis</i> (Jacq.) Roscoe	V1, V2, V3, V4, V5							subshrub	20
CYPERACEAE									
<i>Ascolepis brasiliensis</i> (Kunth) Benth. ex C.B.Clarke	V1, V2, V3, V4, V5	x	x	x			x	herb	27
<i>Calyptrocarya glomerulata</i> (Brongn.) Urb.	V1	x	x	x				herb	161
<i>Cyperus haspan</i> L.	V2, V3, V4, V5						x	herb	158
<i>Cyperus rotundus</i> L.	V2		x					herb	616
<i>Bisboeckelera</i> sp.1**	V5							herb	80
<i>Bulbostylis conifera</i> (Kunth) C.B.Clarke	V4						x	herb	121
<i>Bulbostylis consanguinea</i> (Kunth) C.B.Clarke	V1, V2, V3, V4, V5							herb	162
<i>Bulbostylis emmerichiae</i> T.Koyama*	V1, V2, V3, V4, V5							herb	378
<i>Bulbostylis junciformis</i> (Kunth) C.B.Clarke	V1, V2, V3, V4, V5			x	x	x	x	herb	78
<i>Bulbostylis sellowiana</i> (Kunth) Palla	V1, V2, V3, V4, V5	x		x			x	herb	66
<i>Cryptangium verticillatum</i> (Spreng.) Vitta	V3, V4, V5							herb	305
<i>Exochogyne amazonica</i> C.B.Clarke	V5		x	x			x	herb	75
<i>Lagenocarpus rigidus</i> Nees	V1, V2, V3, V4, V5						x	herb	1
<i>Rhynchospora albiceps</i> Kunth	V2, V5		x	x			x	herb	696
<i>Rhynchospora asperula</i> (Nees) Steud.*	V4, V5							herb	129
<i>Rhynchospora barbata</i> (Vahl) Kunth	V1						x	herb	44



Table S1. Cont.

FAMILY/SPECIES	EESGTO	GO	MS	TM	CSS	CS	CLU	Growth Forms	N
<i>Rhynchospora brasiliensis</i> Boeckeler*	V1, V2, V3, V4, V5	x					x	herb	713
<i>Rhynchospora brevirostris</i> Griseb.	V1, V2, V3, V4, V5						x	herb	420
<i>Rhynchospora consanguinea</i> (Kunth) Boeckeler	V1, V2, V3, V4, V5	x		x	x	x	x	herb	60
<i>Rhynchospora elatior</i> Kunth*	V1, V2, V3, V4, V5							herb	82
<i>Rhynchospora emaciata</i> (Nees) Boeckeler	V1, V2, V4, V5	x	x				x	herb	76
<i>Rhynchospora globosa</i> (Kunth) Roem. & Schult.	V1, V2, V3, V4, V5	x	x	x			x	herb	182
<i>Rhynchospora hirta</i> (Nees) Boeckeler	V1, V2, V3, V4, V5						x	herb	36
<i>Rhynchospora marisculus</i> Lindl. & Nees	V1, V3, V5	x	x				x	herb	302
<i>Rhynchospora rugosa</i> (Vahl) Gale	V1	x	x	x			x	herb	49
<i>Rhynchospora spruceana</i> C.B.Clarke*	V3, V5							herb	648
<i>Rhynchospora</i> sp.1	V1, V2, V5							herb	45
<i>Rhynchospora</i> sp.2	V2, V4, V5							herb	97
<i>Rhynchospora</i> sp.3	V1, V2, V5							herb	377
<i>Rhynchospora</i> sp.4	V1, V5							herb	380
<i>Rhynchospora</i> sp.5	V1, V2, V5							herb	25
<i>Scleria hirtella</i> Sw.	V1, V2, V4	x		x		x	x	herb	15
DIOSCOREACEAE									
<i>Dioscorea ceratandra</i> R.Knuth	V1, V3							vine	408
DROSERACEAE									
<i>Drosera communis</i> A.St.-Hil.*	V1, V2, V3, V4, V5	x	x	x			x	herb	77
ERIOCAULACEAE									
<i>Actinocephalus bongardii</i> (A.St.-Hil.) Sano	V2			x				subshrub	613
<i>Comanthera xeranthemoides</i> (Bong.) L.R.Parra & Giul.	V1, V2, V3, V4, V5		x					herb	718
<i>Eriocaulon humboldtii</i> Kunth*	V2, V3, V4	x						herb	404
<i>Leiostrix flavescens</i> (Bong.) Ruhland	V2							herb	666
<i>Paepalanthus chiquitensis</i> Herzog	V2			x		x	x	subshrub	725
<i>Paepalanthus elongatus</i> (Bong.) Körn.*	V1, V2, V5							subshrub	33
<i>Paepalanthus polytrichoides</i> Kunth**	V2, V5							herb	601
<i>Syngonanthus anthemiflorus</i> (Bong.) Ruhland*	V2, V3, V4, V5	x						herb	649
<i>Syngonanthus bisumbellatus</i> (Steud.) Ruhland	V1, V4							herb	502
<i>Syngonanthus caulescens</i> (Poir.) Ruhland	V2, V4	x	x	x			x	herb	549
<i>Syngonanthus densiflorus</i> (Körn.) Ruhland	V1, V2, V3, V4, V5	x		x			x	subshrub	543
<i>Syngonanthus fischerianus</i> (Bong.) Ruhland*	V4,							herb	128
<i>Syngonanthus gracilis</i> (Bong.) Ruhland*	V2	x	x	x			x	herb	662
<i>Syngonanthus helminthorrhizus</i> (Mart. ex Körn.) Ruhland*	V1, V2, V4, V5		x					herb	478
<i>Syngonanthus humboldtii</i> (Kunth) Ruhland	V1, V2, V3, V4, V5							herb	505
<i>Syngonanthus nitens</i> Ruhland	V1, V2, V3, V4, V5	x		x			x	herb	510
<i>Syngonanthus verticillatus</i> (Bong.) Ruhland*	V1, V2, V3, V4, V5							herb	645
<i>Syngonanthus widgrenianus</i> (Körn.) Ruhland*	V1, V2, V3			x				herb	425
EUPHORBIACEAE									
<i>Microstachys bidentata</i> (Mart.& Zucc.) Esser	V3, V5						x	subshrub	101
<i>Euphorbia</i> sp.1	V1, V2, V5							shrub	443
FABACEAE									
<i>Aeschynomene paniculata</i> Willd. ex Vogel	V1, V2, V3	x		x				shrub	22
<i>Chamaecrista desvauxii</i> (Collad.) Killip	V1, V2, V3, V4, V5				x	x	x	shrub	138
<i>Chamaecrista</i> sp.1	V2, V3							shrub	184
<i>Eriosema campestre</i> Benth.	V1					x	x	shrub	17
<i>Galactia martii</i> DC.*	V1, V2, V5				x	x	x	shrub	486
<i>Stylosanthes</i> sp.1	V1, V2, V3, V4, V5							shrub	37
<i>Stylosanthes</i> sp.2	V1, V4							shrub	52
GENTIANACEAE									
<i>Chelonanthus alatus</i> (Aubl.) Pulle**	V2, V5							shrub	711
<i>Chelonanthus purpurascens</i> (Aubl.) Struwe et al.*	V2, V5							shrub	705
<i>Chelonanthus viridiflorus</i> (Mart.) Gilg	V1, V2, V3, V4, V5							shrub	439
<i>Curtia tenuifolia</i> (Aubl.) Knobl.*	V1, V2, V3, V4, V5	x		x			x	subshrub	550



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<i>Deianira chiquitana</i> Herzog	V1, V2, V3, V4, V5					x	x	shrub	723
<i>Schultesia heterophylla</i> Miq.*	V3, V4			x				herb	311
<i>Sinningia elatior</i> (Kunth) Chautems	V5	x	x	x			x	herb	722
HAEMODORACEAE									
<i>Schiekia orinocensis</i> (Kunth) Meisn.	V1, V2, V3, V4, V5							shrub	694
IRIDACEAE									
<i>Cipura paludosa</i> Aubl.	V2	x		x			x	herb	650
<i>Sisyrinchium vaginatum</i> Spreng.*	V3, V5	x		x		x	x	herb	202
<i>Trimezia cathartica</i> (Klatt) Niederl.*	V5						x	herb	548
<i>Trimezia juncifolia</i> (Klatt) Benth. & Hook.*	V1, V2, V3, V4, V5			x	x			subshrub	313
JUNACEAE									
<i>Juncus effusus</i> L.*	V4							herb	134
LAMIACEAE									
<i>Hyptis fallax</i> Harley*	V4							subshrub	471
<i>Hyptis linarioides</i> Pohl ex Benth.	V1, V2, V3, V4, V5			x			x	shrub	14
LAURACEAE									
<i>Cassytha filiformis</i> L.	V1, V2, V3, V4, V5				x			vine	401
LENTIBULARIACEAE									
<i>Utricularia amethystina</i> Salzm. ex A.St.-Hil. & Girard	V2, V3	x	x	x			x	herb	422
<i>Utricularia juncea</i> Vahl*	V3							herb	381
LYCOPODIACEAE									
<i>Lycopodiella alopecuroides</i> (L.) Cranfill	V1, V4, V5	x	x	x			x	herb	169
<i>Palhinhaea cernua</i> (L.) Franco & Vasc.	V1, V4, V5	x		x			x	herb	91
LYTHRACEAE									
<i>Cuphea antisiphilitica</i> Kunth	V1, V2, V3, V4, V5							shrub	5
MALPIGHIACEAE									
<i>Byrsonima umbellata</i> Mart. ex A.Juss.	V1, V2, V3, V4, V5							shrub	145
<i>Byrsonima subterranea</i> Brade & Markgr.	V1, V3, V4, V5						x	shrub	427
MALVACEAE									
<i>Melochia graminifolia</i> A.St.-Hil.	V3							shrub	720
<i>Waltheria albicans</i> Turcz.*	V5				x	x		shrub	652
MELASTOMACEAE									
<i>Cambessedesia hilariana</i> (Kunth) DC.	V2			x		x		subshrub	699a
<i>Desmoscelis villosa</i> (Aubl.) Naudin	V1, V2, V3, V4, V5	x	x	x		x	x	shrub	viewed
<i>Miconia chamissois</i> Naudin	V1, V2, V3, V4, V5	x	x	x		x		shrub	440
<i>Microlicia viminalis</i> (DC.) Triana*	V1, V2, V3, V4, V5						x	shrub	96
<i>Pterolepis repanda</i> (DC.) Triana*	V1, V2, V3, V4, V5							herb	13
<i>Tococa nitens</i> (Benth.) Triana	V1, V2, V3, V4, V5							shrub	2
MENISPERMACEAE									
<i>Cissampelos ovalifolia</i> DC.	V1, V2				x	x	x	subshrub	351
MYRTACEAE									
<i>Eugenia angustissima</i> O.Berg	V1							shrub	42
<i>Eugenia sprengelii</i> DC.*	V1							shrub	41
OCHNACEAE									
<i>Sauvagesia linearifolia</i> A.St.-Hil.	V1, V2, V3, V4, V5			x			x	subshrub	7
<i>Sauvagesia ramosa</i> (Gleason) Sastre	V4	x	x	x			x	subshrub	165
ONAGRACEAE									
<i>Ludwigia nervosa</i> (Poir.) H.Hara	V1, V2, V3, V4, V5	x	x	x			x	shrub	21
ORCHIDACEAE									
<i>Cleistes metallina</i> (Barb.Rodr.) Schltr.*	V1, V3, V4							herb	70
<i>Cyrtopodium flavum</i> Link & Otto ex Rchb.f.*	V1							herb	454
<i>Cyrtopodium fowliei</i> L.C.Menezes*	V1							herb	28
<i>Habenaria schwackei</i> Barb.Rodr.	V3, V4						x	herb	168
<i>Veyretia simplex</i> (Griseb.) Szlach.	V2, V4, V5							herb	331
OROBANCHACEAE									



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FAMILY/SPECIES	EESGTO	GO	MS	TM	CSS	CS	CLU	Growth Forms	N
<i>Buchnera juncea</i> Cham. & Schltld.	V1, V3			x			x	shrub	310
<i>Buchnera lavandulacea</i> Cham. & Schltld.	V1, V2, V3, V4, V5				x	x	x	shrub	469
<i>Esterhazyia splendida</i> J.C.Mikan*	V5			x		x	x	shrub	729
PASSIFLORACEAE									
<i>Passiflora mansoi</i> (Mart.) Mast.*	V2							vine	355
PHYLLANTHACEAE									
<i>Phyllanthus niruri</i> L.	V1, V2, V3, V4, V5							herb	164
PIPERACEAE									
<i>Piper fuliginum</i> Kunth	V1	x	x					subshrub	19
POACEAE									
<i>Agenium villosum</i> (Nees) Pilg.	V1, V2, V3							herb	319
<i>Andropogon angustatus</i> (J. Presl) Steud.*	V1							herb	141
<i>Andropogon carinatus</i> Nees*	V1, V2, V3, V4, V5			x				herb	366
<i>Andropogon bicornis</i> L.	V1, V2, V3, V4, V5	x	x	x				herb	321
<i>Andropogon lateralis</i> Nees*	V1, V2, V3, V4, V5	x	x	x			x	herb	3
<i>Andropogon leucostachyus</i> Kunth	V3, V4, V5	x	x	x	x			herb	303
<i>Andropogon selloanus</i> (Hack.) Hack.	V1, V2, V3, V4, V5			x			x	herb	320
<i>Andropogon virgatus</i> Desv.	V1, V2, V3, V4, V5	x		x		x	x	herb	151
<i>Anthraenantia lanata</i> (Kunth) Benth.	V1, V2, V3, V4, V5	x	x	x		x		herb	367
<i>Axonopus brasiliensis</i> (Spreng.) Kuhlmann*	V1, V2, V3, V4, V5	x	x	x		x	x	herb	349
<i>Axonopus comans</i> (Trin. ex Döll) Kuhlmann*	V1, V2, V3, V4, V5	x	x				x	herb	179
<i>Axonopus fastigiatus</i> (Nees ex Trin.) Kuhlmann*	V1, V2, V3, V4, V5						x	herb	62
<i>Axonopus</i> sp.1	V4							herb	304
<i>Echinolaena inflexa</i> (Poir.) Chase	V1, V2, V3, V4, V5	x		x	x	x	x	herb	86
<i>Eriochrysis cayennensis</i> P. Beauv.*	V1, V2	x	x	x			x	herb	34
<i>Eriochrysis holcooides</i> (Nees) Kuhlmann*	V2, V3	x	x					herb	365
<i>Gymnopogon foliosus</i> (Willd.) Nees	V5				x	x	x	herb	89
<i>Ichnanthus procurrens</i> (Nees ex Trin.) Swallen	V1, V2, V3, V4, V5	x	x	x	x		x	herb	193
<i>Mesosetum penicillatum</i> Mez	V1, V2, V3, V4, V5							herb	329
<i>Panicum campestre</i> Nees ex Trin.	V1, V4, V5							herb	307
<i>Paspalum ammodes</i> Trin.	V1, V2, V4						x	herb	181
<i>Paspalum approximatum</i> Döll	V1							herb	47
<i>Paspalum carinatum</i> Humb. & Bonpl. ex Flügge	V2						x	herb	714
<i>Paspalum dedecae</i> Quari*	V1, V2, V3, V4, V5		x				x	herb	200
<i>Paspalum ellipticum</i> Döll*	V5					x	x	herb	597
<i>Paspalum glaziovii</i> (A.G.Burm.) S.Denham*	V4							herb	348
<i>Paspalum guttatum</i> Trin.*	V2							herb	572
<i>Paspalum hyalinum</i> Nees ex Trin.	V1, V2, V3, V4, V5			x			x	herb	431
<i>Paspalum lanciflorum</i> Nees ex Steud.	V2, V3, V5							herb	192
<i>Paspalum lineare</i> Trin.	V1, V2, V3, V4, V5			x			x	herb	344
<i>Paspalum maculosum</i> Trin.	V1, V3, V4	x	x			x	x	herb	187
<i>Paspalum pectinatum</i> Nees ex Trin.*	V2, V5			x		x	x	herb	708
<i>Paspalum polyphyllum</i> Nees*	V4				x	x	x	herb	397
<i>Paspalum stellatum</i> Humb. & Bonpl. ex Flügge	V1, V2, V3, V4, V5	x	x			x	x	herb	608
<i>Saccharum asperum</i> (Nees) Steud.*	V3, V4, V5	x	x	x				herb	417
<i>Saccharum villosum</i> Steud.*	V3		x					herb	441
<i>Sacciolepis angustissima</i> (Hochst. ex Steud.) Kuhlmann*	V5							herb	569
<i>Sacciolepis myuros</i> (Lam.) Chase*	V1						x	herb	453
<i>Trachypogon spicatus</i> (L.f.) Kuntze	V1, V2, V3, V4, V5			x	x	x	x	herb	9
<i>Trichantheium cyanescens</i> (Nees ex Trin.) Zuloaga & Morrone	V2, V3, V4					x	x	herb	137
POLYGALACEAE									
<i>Polygala abreu</i> Marques & J.F.B.Pastore*	V4							subshrub	447
<i>Polygala adenophora</i> DC.	V1, V2, V3, V4, V5							subshrub	4
<i>Polygala celosioides</i> Mart. ex A.W.Benn.	V1, V2, V3, V4, V5						x	subshrub	43
<i>Polygala gracilis</i> Kunth	V1, V2, V3, V4, V5						x	subshrub	356



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<i>Polygala longicaulis</i> Kunth	V1, V2, V3, V4, V5	x	x	x		x	x	subshrub	8
<i>Polygala moquiniana</i> A.St.-Hil. & Moq.*	V4							subshrub	391
<i>Polygala sellowiana</i> A.St.-Hil. & Moq.	V2, V3							subshrub	691
<i>Polygala tenuis</i> DC.	V1, V2, V3	x				x	x	subshrub	689
<i>Polygala timoutou</i> Aubl.	V3, V4			x			x	subshrub	492
RAPATEACEAE									
<i>Cephalostemon angustatus</i> Malme	V1, V4		x	x				herb	475
<i>Cephalostemon microglochin</i> Sandwith	V1							herb	152
<i>Cephalostemon riedelianus</i> Körn.	V1, V2, V3, V4, V5						x	herb	81
RUBIACEAE									
<i>Borreria tenella</i> (Kunth) Cham. & Schltl.	V5							shrub	690
<i>Diodia</i> sp.1	V5							subshrub	92
<i>Perama hirsuta</i> Aubl.	V1, V2, V3, V4, V5			x				subshrub	69
<i>Perama galioides</i> (Kunth) Poir.*	V5							subshrub	678
<i>Staelia virgata</i> (Link ex Roem. & Schult.) K.Schum.	V2						x	subshrub	605
SANTALANACEAE									
<i>Thesium aphyllum</i> Mart. ex A. DC.	V4							subshrub	599
SCROPHULARIACEAE									
<i>Buddleja stachyoides</i> Cham. & Schltl.*	V2							shrub	663
STYRACACEAE									
<i>Styrax ferrugineus</i> Nees & Mart.	V3, V4, V5							shrub	146
URTICACEAE									
<i>Cecropia pachystachya</i> Trécul	V2, V4	x	x	x				tree	viewed
VERBENACEAE									
<i>Lippia</i> sp.1	V2							herb	624
XYRIDACEAE									
<i>Abolboda pulchella</i> Humb.	V1, V2, V3, V4, V5			x			x	herb	98
<i>Abolboda poarchon</i> Seub.	V1, V2, V3, V4, V5	x	x				x	herb	32
<i>Xyris almae</i> Kral & Wand.*	V3							herb	527
<i>Xyris blanchetiana</i> Malme*	V3, V4, V5						x	herb	529
<i>Xyris brevifolia</i> Michx.**	V5							herb	526
<i>Xyris dawsonii</i> L.B.Sm. & Downs*	V3, V4, V5						x	herb	120
<i>Xyris egleri</i> L.B.Sm. & Downs**	V1, V3							herb	389
<i>Xyris fallax</i> Malme	V1, V2, V3, V4, V5						x	herb	148
<i>Xyris hymenachne</i> Mart.	V1, V2, V3, V4, V5						x	herb	674
<i>Xyris macrocephala</i> Vahl	V1, V2, V3, V4, V5	x	x				x	herb	135
<i>Xyris paradisiaca</i> Wand.*	V5						x	herb	103
<i>Xyris paraensis</i> Poepp. ex Kunth*	V1, V2, V3, V4, V5						x	herb	24
<i>Xyris pterygoblephara</i> Steud.*	V3, V4, V5							herb	306
<i>Xyris savanensis</i> Miq.	V3, V4, V5	x	x	x			x	herb	71
<i>Xyris seubertii</i> L.A.Nilsson*	V4, V5						x	herb	139
<i>Xyris spinulosa</i> Kral & L.B.Sm.*	V3, V5		x					herb	564
<i>Xyris tortula</i> Mart.*	V1, V2, V3, V4, V5	x	x	x			x	herb	189
<i>Xyris</i> sp.1	V1, V2, V3, V4, V5							herb	35
<i>Xyris</i> sp.2	V1							herb	65
<i>Xyris</i> sp.3	V3, V4							herb	73
<i>Xyris</i> sp.4	V4, V5							herb	83
<i>Xyris</i> sp.5	V1							herb	100
<i>Xyris</i> sp.6	V4							herb	125
Total em cada Vereda	127, 130, 126, 135, 128								

