

### SUPPLEMENTARY MATERIAL 3

**Table S3.** Experiment in lowland ecological sites, F. Cantos Experimental Ranch, Semiarid Chaco. Herbaceous biomass per species (kg DM/ha). Average+SD.

**Tabla S3.** Experimento en sitios ecológicos bajos, Campo Experimental F. Cantos, Chaco Semiárido. Biomasa herbácea por especie (kg MS/ha). Media+desvío estándar (SD).

Species	Life form	Status	Palatability	Woody_Encr		Ref_Eco		Roll_Buffel Texas		Roll_Gatton Panic		Roll_Fire	
				Average	SD	Average	SD	Average	SD	Average	SD	Average	SD
<i>Alternanthera albida</i>	Broadleaf herb	Native	Non palatable	0.0	0.0	42.5	120.2	16.3	46.0	0,0	0,0	0,0	0,0
<i>Amphilophium carolinae</i>	Broadleaf herb	Native	Non palatable	22.5	36.2	0.0	0.0	30.4	45.2	3,8	10,6	11,3	18,1
<i>Aristida mendocina</i>	Grass	Native	Palatable	0.0	0.0	15.6	31.3	6.3	17.7	0,0	0,0	0,0	0,0
<i>Ayenia odonellii</i>	Broadleaf herb	Native	Non palatable	0.0	0.0	0.0	0.0	55.4	152.7	113,7	299,9	0,0	0,0
<i>Bidens pilosa</i>	Broadleaf herb	Native	Non palatable	30.0	70.1	0.0	0.0	47.5	88.1	0,0	0,0	26,3	74,2
<i>Boerhavia diffusa</i>	Broadleaf herb	-	Non palatable	0.6	1.8	0.0	0.0	6.3	11.9	15,0	21,4	1,3	3,5
<i>Bothriochloa alta</i>	Grass	Native	Palatable	0.0	0.0	188.8	414.0	0.0	0.0	0,0	0,0	0,0	0,0
<i>Bothriochloa imperatoides</i>	Grass	Native	Palatable	0.0	0.0	166.3	373.3	30.0	84.9	0,0	0,0	18,8	53,0
<i>Cardiospermum halicacabum</i>	Broadleaf herb	-	Non palatable	1.3	3.5	0.0	0.0	5.0	14.1	24,0	40,9	12,5	35,4
<i>Cenchrus ciliaris</i>	Grass	Exotic	Palatable	0.0	0.0	0.0	0.0	2444.8	2406.5	1,3	3,5	0,0	0,0
<i>Cenchrus myosuroides</i>	Grass	Native	Palatable	0.0	0.0	35.0	99.0	0.0	0.0	0,0	0,0	0,0	0,0
<i>Cenchrus pilcomayensis</i>	Grass	Native	Palatable	0.0	0.0	0.0	0.0	164.1	464.2	0,0	0,0	0,0	0,0
<i>Chloris castilloniana</i>	Grass	Native	Palatable	0.0	0.0	93.8	265.2	0.0	0.0	0,0	0,0	0,0	0,0
<i>Chloris ciliata</i>	Grass	Native	Palatable	0.0	0.0	10.0	28.3	0.0	0.0	0,0	0,0	0,0	0,0
<i>Clematis montevidensis</i>	Broadleaf herb	Native	Non palatable	0.0	0.0	0.0	0.0	1.3	3.5	0,0	0,0	2,5	7,1
<i>Digitaria californica</i>	Grass	Native	Palatable	187.5	530.3	0.0	0.0	0.0	0.0	0,0	0,0	0,0	0,0
<i>Digitaria insularis</i>	Grass	Native	Low palatable	17.2	41.7	0.0	0.0	50.6	100.4	19,4	35,9	0,0	0,0
<i>Elionurus muticus</i>	Grass	Native	Low palatable	2.5	7.1	4196.3	2087.7	0.0	0.0	0,0	0,0	87,5	247,5
<i>Eragrostis cilianensis</i>	Grass	Exotic	Low palatable	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0,0	8,8	24,7

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				Average	SD	Average	SD	Average	SD	Average	SD	Average	SD
<i>Eragrostis orthoclada</i>	Grass	Native	Palatable	0.0	0.0	52.5	74.8	0.0	0.0	0.0	0,0	0,0	0,0
<i>Gomphrena pulchella</i>	Broadleaf herb	Native	Non palatable	0.0	0.0	0.0	0.0	58.8	166.2	0,0	0,0	251,3	710,6
<i>Gouinia latifolia</i>	Grass	Native	Palatable	1068.4	952.6	0.0	0.0	546.3	689.8	604,8	661,2	197,5	263,4
<i>Gouinia paraguayensis</i>	Grass	Native	Palatable	2.5	7.1	0.0	0.0	0.0	0.0	0,0	0,0	0,0	0,0
<i>Heimia salicifolia</i>	Broadleaf herb	Native	Non palatable	43.8	88.1	28.8	81.3	66.3	187.4	263,8	339,2	103,1	211,2
<i>Heliotropium veronicifolium</i>	Broadleaf herb	Native	Non palatable	18.8	49.0	0.0	0.0	22.3	24.7	14,0	20,2	186,1	287,4
<i>Heteropogon contortus</i>	Grass	Naturalized	Palatable	0.0	0.0	1487.5	738.2	0.0	0.0	0,0	0,0	0,0	0,0
<i>Indigofera parodiana</i>	Broadleaf herb	Native	Palatable	0.0	0.0	27.5	60.2	0.0	0.0	0,0	0,0	0,0	0,0
<i>Leptochloa pluriflora</i>	Grass	Native	Palatable	152.5	224.4	0.0	0.0	2022.1	2747.5	1533,0	2465,6	402,5	476,3
<i>Megathyrsus maximus</i>	Grass	Exotic	Palatable	0.0	0.0	0.0	0.0	0.0	0.0	6684,6	6159,6	0,0	0,0
<i>Pappophorum pappiferum</i>	Grass	Native	Palatable	44.3	101.8	300.0	486.3	121.3	342.9	99,0	175,8	100,0	282,8
<i>Pappophorum sp.</i>	Grass	Native	Palatable	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0,0	32,5	91,9
<i>Paspalum plicatulum</i>	Grass	Native	Palatable	0.0	0.0	237.5	671.8	0.0	0.0	0,0	0,0	0,0	0,0
<i>Pseudabutilon virgatum</i>	Broadleaf herb	Native	Non palatable	2.5	3.8	0.0	0.0	11.9	15.1	8,5	11,0	91,3	134,8
<i>Rhynchosia senna</i>	Broadleaf herb	Native	Palatable	0.0	0.0	99.4	89.1	16.5	29.3	13,1	27,9	285,7	544,3
<i>Setaria globulifera</i>	Grass	Native	Palatable	1.3	3.5	0.0	0.0	21.3	40.2	0,0	0,0	0,0	0,0
<i>Setaria lachnea</i>	Grass	Native	Palatable	301.4	360.8	65.0	183.8	535.6	604.1	584,9	916,9	2250,8	1688,8
<i>Setaria parviflora</i>	Grass	Native	Palatable	0.0	0.0	70.0	130.8	0.0	0.0	0,0	0,0	0,0	0,0
<i>Setaria sp.</i>	Grass	Native	Palatable	20.0	56.6	0.0	0.0	0.0	0.0	0,0	0,0	0,0	0,0
<i>Sida spinosa</i>	Broadleaf herb	Native	Non palatable	0.0	0.0	0.0	0.0	53.8	98.3	8,8	24,7	337,5	954,6
<i>Sida variegata</i>	Broadleaf herb	Native	Non palatable	0.0	0.0	0.0	0.0	48.8	118.1	36,9	38,8	736,4	1717,5
<i>Solanum elaeagnifolium</i>	Broadleaf herb	Native	Non palatable	0.0	0.0	0.0	0.0	0.0	0.0	2,5	7,1	0,0	0,0
<i>Solanum tuberosum</i>	Broadleaf herb	Native	Non palatable	0.6	1.8	0.0	0.0	0.0	0.0	0,0	0,0	0,0	0,0
<i>sp. 1</i>	Broadleaf herb	-	Non palatable	4.1	5.6	0.0	0.0	0.0	0.0	0,0	0,0	0,0	0,0
<i>sp. 2</i>	Broadleaf herb	-	Non palatable	5.0	14.1	0.0	0.0	0.0	0.0	0,0	0,0	0,0	0,0
<i>sp. 3</i>	Broadleaf herb	-	Non palatable	0.0	0.0	17.5	34.1	0.6	1.8	0,6	1,8	14,8	41,7

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<i>sp. 4</i>	Broadleaf herb	-	Non palatable	1.6	2.3	0.0	0.0	1.3	3.5	3,8	10,6	2,5	4,6
<i>sp. 5</i>	Broadleaf herb	-	Non palatable	71.3	110.8	0.0	0.0	0.0	0.0	12,5	35,4	0,0	0,0
<i>Sphaeralcea bonariensis</i>	Broadleaf herb	Native	Non palatable	0.0	0.0	0.0	0.0	35.0	99.0	0,0	0,0	103,8	293,4
<i>Tagetes minuta</i>	Broadleaf herb	Native	Non palatable	10.0	28.3	41.3	116.7	156.3	441.9	148,1	164,6	297,5	841,5
<i>Urochloa adspersa</i>	Grass	Native	Palatable	21.3	60.1	0.0	0.0	773.1	12579	317,5	572,1	674,8	880,4
<i>Wissadula densiflora</i>	Broadleaf herb	Native	Non palatable	144.1	130.9	6.3	17.7	46.4	83.0	58,5	163,5	149,7	219,0
<i>Zinnia peruviana</i>	Broadleaf herb	Native	Non palatable	0.0	0.0	0.0	0.0	0.0	0.0	24,8	58,8	0,0	0,0