

ESTABELECIMENTO E PRODUÇÃO DE LEGUMINOSAS E GRAMÍNEAS FORRAGEIRAS EM PARAGOMINAS, PARÁ, BRASIL

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EMBRAPA/CPATU

ER-B

O ensaio foi conduzido em uma fazenda particular, localizada em Paragominas (3°05'S - 47°21'O), Estado do Pará. A precipitação pluvial média anual é de 1774 mm e a temperatura média anual é 27°C (Fig. 1). A região corresponde ao ecossistema de floresta estacional semi-semperverde. O resultado da análise físico-química do Latossolo Amarelo (Oxissolo) da área experimental é apresentado no Quadro 1.

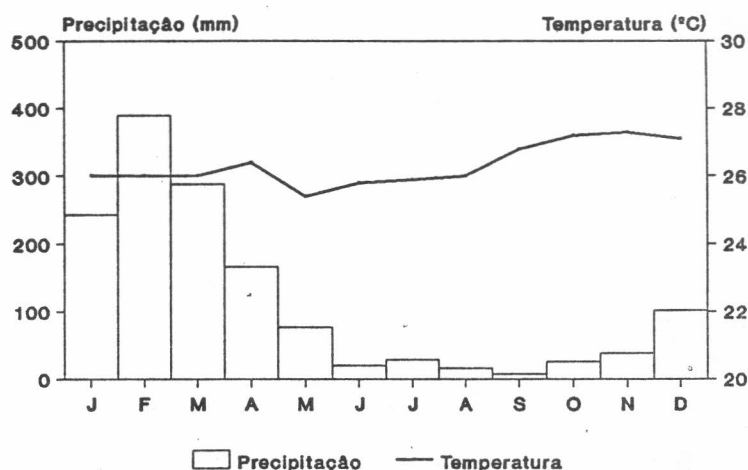


Figura 1. Características climáticas de Paragominas, Pará, Brasil.

Quadro 1. Resultados das análises granulométrica e química do Latossolo Amarelo (0-20 cm) da área experimental.

Areia	Silte	Argila	M.O.	pH (H ₂ O)	Cátions trocáveis				P (Mehlich)
					Al	Ca	Mg	K	
%					meq/100 g				ppm
4	24	72	2,0	5,5	0,0	3,43	0,89	0,26	1,3

Foram avaliados 28 acessos de leguminosas e nove de gramíneas de acordo com a metodologia recomendada pela RIEPT. As datas de sementeira e das avaliações são apresentadas no Quadro 2.

Quadro 2. Data da sementeira e das avaliações do ensaio.

Sementeira	Estabelecimento		Produção/Adaptação			
			Máxima Prec.		Mínima Prec.	
19 Fev 1987	De	10 Mar 1987	1 Mar 1988	21 Mar 1989	9 Set 1987	29 Set 1988
	Até	6 Mai 1987	27 Abr 1988	7 Jun 1989	12 Nov 1987	29 Nov 1988

As gramíneas receberam adubação de estabelecimento de NPK e as leguminosas de NK. Em 6 de fevereiro de 1988 foi feita uma adubação de manutenção equivalente a 30 % para o N e P e 60 % para o K da adubação de estabelecimento.

Resultados e discussão:

Leguminosas

Dentre as leguminosas, Centrosema, principalmente os acessos de C. macrocarpum e C. brasilianum CIAT 5178, CIAT 5657 e CIAT 5365, foi o gênero que teve o melhor estabelecimento. Os acessos de Desmodium e Zornia tiveram estabelecimento bastante lento.

Durante o período chuvoso, vários acessos apresentaram produção e adaptação satisfatórias. De um modo geral, os de melhor desempenho foram C. macrocarpum (todos os acessos), C. pubescens CIAT 5189, C. acutifolium CIAT 5277, S. guianensis CIAT 184, P. phaseoloides CIAT 9900, D. ovalifolium CIAT 350, CIAT 3794 e S. capitata 10280.

C. brasilianum CIAT 5178, embora com excelente desempenho no período chuvoso de 1988, no período chuvoso de 1989 passou a apresentar problemas com microplasma (little leaf). Essa enfermidade também foi detectada em 1989 nos acessos C. brasilianum CIAT 5657, CIAT 5334 e CIAT 5365.

Ataques de Rhizoctonia solani afetaram a maioria dos acessos de Centrosema, no entanto, foi mais patogênica em C. acutifolium CIAT 5568, C. pubescens CIAT 438 e CIAT 442. Esses dois últimos acessos também foram muito atacados por Cercospora.

A antracnose não foi problema sério para o gênero Stylosanthes

No período seco, os acessos de C. macrocarpum apresentaram muito bom desempenho. Outras leguminosas que se destacaram foram

C. pubescens CIAT 5189, S. guianensis CIAT 184 e CIAT 136, C. acutifolium CIAT 5277.

De um modo geral, os acessos de Zornia e Desmodium são bastante prejudicados durante a época seca, tendo sido observado que apenas D. ovalifolium CIAT 350 e CIAT 3794 e Z. latifolia CIAT 7847 são um pouco mais tolerantes a seca.

No período seco de 1987 foi observado ataque de trips no acesso CIAT 5277, principalmente, e a outros acessos de Centrosema. Na mesma época, Z. latifolia CIAT 7847 apresentou murchamento e morte (em 30 % das plantas) idênticos ao causado pela bactéria Corynebacterium flaccumfaciens.

Gramíneas

Melhor estabelecimento foi apresentado por P. maximum CIAT 673, CIAT 622 e B. brizantha CIAT 6780.

Com excessão de A. gayanus CIAT 621, as demais gramíneas, durante a fase de estabelecimento, foram atacadas por insetos raspadores da família Chrysomelidae (pulguilla). Este ataque foi mais intenso nos acessos CIAT 6780, CIAT 6387, CIAT 606, CIAT 6133 e CIAT 6369.

Tanto no período seco como no chuvoso observou-se que os melhores desempenhos foram encontrados em P. maximum CIAT 673, B. brizantha CIAT 6780, B. dictyoneura CIAT 6133 e B. humidicola CIAT 6369.

PERIODO DE ESTABLECIMIENTO PROMEDIO Y COEFICIENTE DE VARIACION DE ALTURA LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			4 SEMANAS		8 SEMANAS		12 SEMANAS	
=====			ALTURA (CM)	CV (%)	ALTURA (CM)	CV (%)	ALTURA (CM)	CV (%)
=====			=====	=====	=====	=====	=====	=====
GRAMINEAS :								
BRACHIARIA	DECUMBEN	606	7		38		65	
ANDROPOGON	GAYANUS	621	5		25		56	
PANICUM	MAXIMUM	622	10		43		68	
PANICUM	MAXIMUM	673	9		41		98	
BRACHIARIA	DICTYONE	6133	5		20		38	
BRACHIARIA	HUMIDICO	6369	3		12		21	
BRACHIARIA	BRIZANTH	6387	7		30		71	
BRACHIARIA	BRIZANTH	6780	8		28		78	
LEGUMINOSAS :								
STYLOSANTHES	GUIANENS	136	2		13		35	
STYLOSANTHES	GUIANENS	184	1		11		26	
DESMODIUM	HETEROPH	349	1		4		3	
DESMODIUM	OVALIFOL	350			3		6	
CENTROSEMA	PUBESCEN	438	4		10		15	
CENTROSEMA	PUBESCEN	442	4		13		11	
ZORNIA	LATIFOLI	728	1		7		11	
DESMODIUM	HETEROPH	3782	1		2		3	
DESMODIUM	OVALIFOL	3788			3		5	
DESMODIUM	OVALIFOL	3793			2		5	
DESMODIUM	OVALIFOL	3794			2		6	
CENTROSEMA	MACROCAR	5065	8		16		28	
CENTROSEMA	BRASILIA	5178	6		15		18	
CENTROSEMA	PUBESCEN	5189	5		14		12	
CENTROSEMA	BRASILIA	5234	5		6		11	
CENTROSEMA	ACUTIFOL	5277	4		10		16	
CENTROSEMA	BRASILIA	5365	5		14		15	
CENTROSEMA	ACUTIFOL	5568	4		10		11	
CENTROSEMA	BRASILIA	5657	5		15		21	
CENTROSEMA	MACROCAR	5713	6		17		25	
CENTROSEMA	MACROCAR	5737	6		18		30	
CENTROSEMA	MACROCAR	5740	5		20		38	
CENTROSEMA	MACROCAR	5744	5		20		20	
ZORNIA	GLABRA	7847			3		13	
ZORNIA	LATIFOLI	9199			5		4	
PUERARIA	PHASEOLO	9900	1		4		18	
STYLOSANTHES	GUIANENS	10136	1		7		13	
STYLOSANTHES	CAPITATA	10280	1		6		13	

PERIODO DE ESTABLECIMIENTO

PORCENTAJE DE COBERTURA

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			4 SEMANAS			8 SEMANAS			12 SEMANAS		
=====			COBERTURA	DUNCAN		COBERTURA	DUNCAN		COBERTURA	DUNCAN	
=====			=====	=====		=====	=====		=====	=====	
GRAMINEAS :			MEDIA=2	D.E.= 1		MEDIA=56	D.E.= 13		MEDIA=88	D.E.= 15	
BRACHIARIA	DECUMBEN	606	1	BA		61	BDAC		93	A	
ANDROPOGON	GAYANUS	621	1	B		35	D		73	A	
PANICUM	MAXIMUM	622	4	BA		67	BA		100	A	
PANICUM	MAXIMUM	673	5	A		76	A		100	A	
BRACHIARIA	DICTYONE	6133	1	B		55	BDAC		75	A	
BRACHIARIA	HUMIDICO	6369	1	B		37	DC		80	A	
BRACHIARIA	BRIZANTH	6387	1	B		48	BDC		91	A	
BRACHIARIA	BRIZANTH	6780	2	BA		63	BAC		98	A	
LEGUMINOSAS :			MEDIA=1	D.E.= 0		MEDIA=19	D.E.= 9		MEDIA=54	D.E.= 13	
STYLOSANTHES	GUIANENS	136	1	A		18	EDFC		71	EBDC	
STYLOSANTHES	GUIANENS	184	1	A		20	EBDFC		56	EDF	
DESMODIUM	HETEROPH	349	1	A		10	EF		50	EGF	
DESMODIUM	OVALIFOL	350				5	F		16	IJ	
CENTROSEMA	PUBESCEN	438	1	A		26	EBDAC		63	EDFC	
CENTROSEMA	PUBESCEN	442	1	A		13	EDF		43	GFH	
ZORNIA	LATIFOLI	728	1	A		8	F		41	GIFH	
DESMODIUM	HETEROPH	3782				4	F		20	IJH	
DESMODIUM	OVALIFOL	3788				5	F		25	GIJH	
DESMODIUM	OVALIFOL	3793				3	F		13	J	
DESMODIUM	OVALIFOL	3794				2	F		10	J	
CENTROSEMA	MACROCAR	5065	1	A		30	BDAC		73	EBDAC	
CENTROSEMA	BRASILIA	5178	1	A		33	BAC		90	BA	
CENTROSEMA	PUBESCEN	5189	1	A		36	BA		70	EBDC	
CENTROSEMA	BRASILIA	5234	1	A		28	BDAC		66	EBDFC	
CENTROSEMA	ACUTIFOL	5277	1	A		33	BAC		90	BA	
CENTROSEMA	BRASILIA	5365	1	A		40	A		91	BA	
CENTROSEMA	ACUTIFOL	5568				16	EDFC		60	EDF	
CENTROSEMA	BRASILIA	5657	1	A		41	A		98	A	
CENTROSEMA	MACROCAR	5713	1	A		30	BDAC		86	BAC	
CENTROSEMA	MACROCAR	5737	1	A		30	BDAC		80	BDAC	
CENTROSEMA	MACROCAR	5740	1	A		33	BAC		60	EDF	
CENTROSEMA	MACROCAR	5744	1	A		30	BDAC		80	BDAC	
ZORNIA	GLABRA	7847				4	F		26	GIJH	
ZORNIA	LATIFOLI	9199				4	F		20	IJH	
PUERARIA	PHASEOLO	9900	1	A		16	EDFC		63	EDFC	
STYLOSANTHES	GUIANENS	10136	1	A		5	F		26	GIJH	
STYLOSANTHES	CAPITATA	10280				6	F		26	GIJH	

CONTINUA..

ESTABLECIMIENTO

EVALUACION DE INSECTOS

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO				TRIPS AC.	PULGUILLA	COMEDOR	HEMIPTERO	SALIVAZO	BARRENAD.	PERFORAD.	OTRO1	OTRO2
GRAMINEAS :												
BRACHIARIA	DECUMBEN	606		0.00	0.67	0.22	0.00	0.00	0.00	0.00	0.00	0.00
ANDROPOGON	GAYANUS	621		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANICUM	MAXIMUM	622		0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANICUM	MAXIMUM	673		0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	DICTYONE	6133		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	HUMIDICO	6369		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	BRIZANTH	6387		0.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	BRIZANTH	6780		0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEGUMINOSAS :												
STYLOSANTHES	GUIANENS	136		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	GUIANENS	184		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	HETEROPH	349		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	350		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	438		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	442		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	LATIFOLI	728		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	HETEROPH	3782		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3788		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3793		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3794		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5065		0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5178		0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	5189		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5234		0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	ACUTIFOL	5277		0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5365		0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	ACUTIFOL	5568		0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5657		0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5713		0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5737		0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5740		0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5744		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	GLABRA	7847		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	LATIFOLI	9199		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PUERARIA	PHASEOLO	9900		0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	GUIANENS	10136		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	CAPITATA	10280		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ESTABLECIMIENTO

EVALUACION DE ENFERMEDADES

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			HOJA					TALLO			OTROS			
			NEGRA	MARRON	NARAN.	CREMA	MARRP.	NARAP.	NEGRA	MARRON	CHANC.	MARCN.	COLORO.	I.PEG.
=====			=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :														
BRACHIARIA	DECUMBEN	606	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ANDROPOGON	GAYANUS	621	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PANICUM	MAXIMUM	622	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PANICUM	MAXIMUM	673	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
BRACHIARIA	DICTYONE	6133	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BRACHIARIA	HUMIDICO	6369	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BRACHIARIA	BRIZANTH	6387	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BRACHIARIA	BRIZANTH	6780	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEGUMINOSAS :														
STYLOSANTHES	GUIANENS	136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STYLOSANTHES	GUIANENS	184	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	HETEROPH	349	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	OVALIFOL	350	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	PUBESCEN	438	0.0	0.2	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	PUBESCEN	442	0.0	0.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZORNIA	LATIFOLI	728	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	HETEROPH	3782	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	OVALIFOL	3788	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	OVALIFOL	3793	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	OVALIFOL	3794	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	BRASILIA	5178	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	PUBESCEN	5189	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	BRASILIA	5234	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	ACUTIFOL	5277	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	BRASILIA	5365	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	ACUTIFOL	5568	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	BRASILIA	5657	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5713	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5737	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5740	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5744	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZORNIA	GLABRA	7847	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZORNIA	LATIFOLI	9199	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PUERARIA	PHASEOLO	9900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STYLOSANTHES	GUIANENS	10136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STYLOSANTHES	CAPITATA	10280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CONTINUA..

EVALUACION : 1

MINIMA PRECIPITACION

PRODUCCION DE MATERIA SECA KG/HA

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			3 SEMANAS		6 SEMANAS		9 SEMANAS		12 SEMANAS	
			MS,KG/HA	DUNCAN	MS,KG/HA	DUNCAN	MS,KG/HA	DUNCAN	MS,KG/HA	DUNCAN
=====			=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :			MEDIA=1332	D.E.=473	MEDIA=1181	D.E.=521	MEDIA=1392	D.E.=545	MEDIA=2338	D.E.=627
BRACHIARIA	DECUMBEN	606	1043	B	1046	BA	546	C	2866	A
ANDROPOGON	GAYANUS	621	1336	BA	1570	A	1963	A	2036	BA
PANICUM	MAXIMUM	622	1370	BA	1516	BA	1496	BAC	2250	BA
PANICUM	MAXIMUM	673	1446	BA	1743	A	1813	BA	2830	A
BRACHIARIA	DICTYONE	6133	2010	A	796	BA	1593	BAC	1583	B
BRACHIARIA	HUMIDICO	6369	1396	BA	510	B	1360	BAC	1600	B
BRACHIARIA	BRIZANTH	6387	1123	BA	1353	BA	1493	BAC	3180	A
BRACHIARIA	BRIZANTH	6780	933	B	913	BA	873	BC	2363	BA
LEGUMINOSAS :			MEDIA=866	D.E.=430	MEDIA=927	D.E.=367	MEDIA=948	D.E.=543	MEDIA=910	D.E.=410
STYLOSANTHES	GUIANENS	136	1080	BDC	1713	BA	1163	EBDCF	1150	EBDFCG
STYLOSANTHES	GUIANENS	184	1406	BAC	1230	EBDACF	1206	EBDACF	1220	EBDFCG
DESMODIUM	HETEROPH	349	0	E	0	G	0	G	0	I
DESMODIUM	OVALIFOL	350	0	E	0	G	0	G	293	IH
CENTROSEMA	PUBESCEN	438	830	DEC	933	EDF	1506	EBDAC	1066	EDFHCG
CENTROSEMA	PUBESCEN	442	786	DEC	686	GF	683	EDGCF	576	IFHG
ZORNIA	LATIFOLI	728	686	DEC	870	EF	553	EDGF	870	EDFHCG
DESMODIUM	HETEROPH	3782	0	E	0	G	0	G	0	I
DESMODIUM	OVALIFOL	3788	0	E	0	G	0	G	0	I
DESMODIUM	OVALIFOL	3793	0	E	0	G	0	G	0	I
DESMODIUM	OVALIFOL	3794	0	E	0	G	0	G	0	I
CENTROSEMA	MACROCAR	5065	1130	BDAC	1673	BAC	1190	EBDACF	1610	BAC
CENTROSEMA	BRASILIA	5178	1416	BAC	1376	EBDACF	1376	EBDAC	2250	A
CENTROSEMA	PUBESCEN	5189	1956	A	1760	A	2266	A	1526	BDAC
CENTROSEMA	BRASILIA	5234	1413	BAC	843	EF	1320	EBDAC	1023	EDFHCG
CENTROSEMA	ACUTIFOL	5277	1370	BAC	1210	EBDACF	950	EDGCF	1113	EBDFCG
CENTROSEMA	BRASILIA	5365	1443	BAC	1290	EBDACF	1526	EBDAC	1140	EBDFCG
CENTROSEMA	ACUTIFOL	5568	1060	BDC	1513	EBDAC	1520	EBDAC	1076	EBDFHCG
CENTROSEMA	BRASILIA	5657	1313	BAC	1366	EBDACF	1743	BAC	1250	EBDFCG
CENTROSEMA	MACROCAR	5713	1333	BAC	1333	EBDACF	2100	BA	1876	BA
CENTROSEMA	MACROCAR	5737	1766	BA	1673	BAC	1623	BDAC	1630	BAC
CENTROSEMA	MACROCAR	5740	986	BDC	976	EDCF	1390	EBDAC	1310	EBDFC
CENTROSEMA	MACROCAR	5744	1076	BDC	1626	BDAC	903	EDGCF	1060	EDFHCG
ZORNIA	GLABRA	7847	620	DEC	940	EDF	453	EGF	753	EIDFHG
ZORNIA	LATIFOLI	9199	123	E	0	G	156	GF	0	I
PUERARIA	PHASEOLO	9900	840	DEC	1020	EBDCF	576	EDGF	470	IHG
STYLOSANTHES	GUIANENS	10136	1293	BAC	1140	EBDACF	1106	EBDCF	1510	EBDAC
STYLOSANTHES	CAPITATA	10280	340	DE	793	EF	613	EDGF	710	EIDFHG

EVALUACION : 1

MAXIMA PRECIPITACION

PRODUCCION DE MATERIA SECA KG/HA

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			3 SEMANAS		6 SEMANAS		9 SEMANAS		12 SEMANAS	
			MS,KG/HA	DUNCAN	MS,KG/HA	DUNCAN	MS,KG/HA	DUNCAN	MS,KG/HA	DUNCAN
=====			=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :			MEDIA=1473	D.E.=460	MEDIA=4276	D.E.=846	MEDIA=3920	D.E.=858	MEDIA=4838	D.E.=1743
BRACHIARIA	DECUMBEN	606	893	C	2886	D	2713	DC	3947	B
ANDROPOGON	GAYANUS	621	1416	BAC	5213	BA	4660	BA	4553	BA
PANICUM	MAXIMUM	622	1863	BA	3023	DC	3653	BDC	3903	B
PANICUM	MAXIMUM	673	2133	A	3683	BDC	4290	BAC	3537	B
BRACHIARIA	DICTYONE	6133	1173	BC	4583	BAC	3726	BDC	5380	BA
BRACHIARIA	HUMIDICO	6369	1153	BC	5210	BA	2443	D	3837	B
BRACHIARIA	BRIZANTH	6387	1380	BAC	5470	A	4136	BAC	6220	BA
BRACHIARIA	BRIZANTH	6780	1773	BAC	4143	BDAC	5740	A	7330	A
LEGUMINOSAS :			MEDIA=1147	D.E.=356	MEDIA=2125	D.E.=494	MEDIA=2368	D.E.=970	MEDIA=2465	D.E.=804
STYLOSANTHES	GUIANENS	136	2266	A	3843	A	2530	FCEBD	3650	B
STYLOSANTHES	GUIANENS	184	2023	BAC	3806	A	4106	B	5110	A
DESMODIUM	HETEROPH	349	540	HI	1360	GFH	1436	FE	1453	D
DESMODIUM	OVALIFOL	350	990	HFEG	2143	GDFCE	2676	FCEBD	3260	CB
CENTROSEMA	PUBESCEN	438	686	HIG	1326	GH	1200	F	2020	CD
CENTROSEMA	PUBESCEN	442	886	HFG	1650	GDFHE	1663	FED	1436	D
ZORNIA	LATIFOLI	728	1813	BDAC	4200	A	3746	CB	3316	CB
DESMODIUM	HETEROPH	3782	146	I	810	H	6616	A	1523	D
DESMODIUM	OVALIFOL	3788	646	HIG	1940	GDFCE	1493	FE	2110	CBD
DESMODIUM	OVALIFOL	3793	800	HFG	1606	GFHE	1890	FCE	1866	CD
DESMODIUM	OVALIFOL	3794	1000	HFEG	1946	GDFCE	2003	FCED	2046	CD
CENTROSEMA	MACROCAR	5065	923	HFEG	2130	GDFCE	1913	FCED	2516	CBD
CENTROSEMA	BRASILIA	5178	963	HFEG	1813	GDCE	2183	FCED	1793	CD
CENTROSEMA	PUBESCEN	5189	1173	HFDEG	1790	GDCE	2016	FCED	2606	CBD
CENTROSEMA	BRASILIA	5234	1083	HFEG	1306	GH	1563	FE	1716	CD
CENTROSEMA	ACUTIFOL	5277	896	HFEG	1640	GDFHE	1683	FED	1860	CD
CENTROSEMA	BRASILIA	5365	1293	FDEG	1920	GDFCE	2063	FCED	1760	CD
CENTROSEMA	ACUTIFOL	5568	1126	HFEG	1916	GDFCE	2063	FCED	2520	CBD
CENTROSEMA	BRASILIA	5657	1283	FDEG	1443	GFH	1660	FED	2020	CD
CENTROSEMA	MACROCAR	5713	1043	HFEG	2176	GDFCE	1823	FCED	1910	CD
CENTROSEMA	MACROCAR	5737	1416	FDEC	2536	DCE	2976	FCEBD	2400	CBD
CENTROSEMA	MACROCAR	5740	1040	HFEG	1960	GDFCE	1993	FCED	2180	CBD
CENTROSEMA	MACROCAR	5744	1103	HFEG	1473	GFH	1846	FCED	2266	CBD
ZORNIA	GLABRA	7847	1600	BDEC	2830	BC	2446	FCEBD	2140	CBD
ZORNIA	LATIFOLI	9199	863	HFG	2320	DFCE	2506	FCEBD	2426	CBD
PUERARIA	PHASEOLO	9900	840	HFG	1510	GFH	1326	F	1563	D
STYLOSANTHES	GUIANENS	10136	2180	BA	3486	BA	3576	CBD	3643	B
STYLOSANTHES	CAPITATA	10280	1486	FDEC	2616	DC	3306	CEBD	5913	A

CONTINUA..

EVALUACION : 1

MINIMA PRECIPITACION

PORCENTAJE DE COBERTURA

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			3 SEMANAS		6 SEMANAS		9 SEMANAS		12 SEMANAS	
			COBERTU.	DUNCAN	COBERTU.	DUNCAN	COBERTU.	DUNCAN	COBERTU.	DUNCAN
=====			=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :			MEDIA=73	D.E.=9	MEDIA=77	D.E.=9	MEDIA=79	D.E.=9	MEDIA=89	D.E.=6
BRACHIARIA	DECUMBEN	606	70	B	76	B	80	B	90	BAC
ANDROPOGON	GAYANUS	621	63	B	70	B	76	B	86	BC
PANICUM	MAXIMUM	622	63	B	73	B	76	B	86	BC
PANICUM	MAXIMUM	673	70	B	73	B	78	B	93	BA
BRACHIARIA	DICTYONE	6133	96	A	96	A	91	BA	100	A
BRACHIARIA	HUMIDICO	6369	96	A	96	A	100	A	100	A
BRACHIARIA	BRIZANTH	6387	70	B	76	B	73	BC	80	C
BRACHIARIA	BRIZANTH	6780	56	B	60	B	56	C	80	C
LEGUMINOSAS :			MEDIA=78	D.E.=7	MEDIA=75	D.E.=12	MEDIA=70	D.E.=16	MEDIA=63	D.E.=13
STYLOSANTHES	GUIANENS	136	73	FDEG	66	EDHGCF	70	EBDACF	73	EBDAC
STYLOSANTHES	GUIANENS	184	73	FDEG	83	EBDAC	81	BDAC	90	BA
DESMODIUM	HETEROPH	349	73	FDEG	83	EBDAC	30	G	30	GIH
DESMODIUM	OVALIFOL	350	66	FHG	73	EBDHGCF	70	EBDACF	76	BDAC
CENTROSEMA	PUBESCEN	438	83	BDEC	60	EHGF	73	EBDACF	46	EGFH
CENTROSEMA	PUBESCEN	442	80	FDEC	60	EHGF	55	EDGCF	56	EGDF
ZORNIA	LATIFOLI	728	66	FHG	63	EDHGF	66	EBDCF	53	EGDFH
DESMODIUM	HETEROPH	3782	36	J	53	HG	23	G	16	I
DESMODIUM	OVALIFOL	3788	53	IH	56	HGF	33	G	56	EGDF
DESMODIUM	OVALIFOL	3793	43	IJ	63	EDHGF	30	G	26	IH
DESMODIUM	OVALIFOL	3794	36	J	56	HGF	30	G	50	EGDFH
CENTROSEMA	MACROCAR	5065	100	A	100	A	100	A	93	BA
CENTROSEMA	BRASILIA	5178	100	A	100	A	96	BA	100	A
CENTROSEMA	PUBESCEN	5189	100	A	96	BA	100	A	63	EDFC
CENTROSEMA	BRASILIA	5234	93	BAC	50	H	93	BA	53	EGDFH
CENTROSEMA	ACUTIFOL	5277	100	A	90	BAC	71	EBDACF	70	EBDC
CENTROSEMA	BRASILIA	5365	96	BA	80	EBDACF	100	A	76	BDAC
CENTROSEMA	ACUTIFOL	5568	100	A	90	BAC	86	BAC	76	BDAC
CENTROSEMA	BRASILIA	5657	100	A	86	BDAC	96	BA	53	EGDFH
CENTROSEMA	MACROCAR	5713	100	A	100	A	100	A	96	BA
CENTROSEMA	MACROCAR	5737	100	A	90	BAC	90	BA	93	BA
CENTROSEMA	MACROCAR	5740	93	BAC	73	EBDHGCF	80	BDAC	96	BA
CENTROSEMA	MACROCAR	5744	100	A	93	BA	100	A	93	BA
ZORNIA	GLABRA	7847	63	HG	63	EDHGF	43	GF	40	GIFH
ZORNIA	LATIFOLI	9199	43	IJ	73	EBDHGCF	55	EDGCF	40	GIFH
PUERARIA	PHASEOLO	9900	86	BDAC	60	EHGF	45	EGF	46	EGFH
STYLOSANTHES	GUIANENS	10136	70	FEG	76	EBDAGCF	76	EBDAC	86	BAC
STYLOSANTHES	CAPITATA	10280	63	HG	56	HGF	50	EDGF	20	I

EVALUACION : 1

MAXIMA PRECIPITACION

PORCENTAJE DE COBERTURA

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			3 SEMANAS		6 SEMANAS		9 SEMANAS		12 SEMANAS	
			COBERTU.	DUNCAN	COBERTU.	DUNCAN	COBERTU.	DUNCAN	COBERTU.	DUNCAN
=====			=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :			MEDIA=87	D.E.=6	MEDIA=95	D.E.=4	MEDIA=99	D.E.=1	MEDIA=99	D.E.=1
BRACHIARIA	DECUMBEN	606	100	A	93	BA	98	A	100	A
ANDROPOGON	GAYANUS	621	66	C	90	B	95	B	91	B
PANICUM	MAXIMUM	622	91	BA	95	BA	100	A	100	A
PANICUM	MAXIMUM	673	91	BA	96	BA	100	A	100	A
BRACHIARIA	DICTYONE	6133	100	A	100	A	100	A	100	A
BRACHIARIA	HUMIDICO	6369	100	A	100	A	100	A	100	A
BRACHIARIA	BRIZANTH	6387	66	C	95	BA	100	A	100	A
BRACHIARIA	BRIZANTH	6780	83	B	96	BA	100	A	100	A
LEGUMINOSAS :			MEDIA=92	D.E.=7	MEDIA=99	D.E.=1	MEDIA=99	D.E.=2	MEDIA=98	D.E.=2
STYLOSANTHES	GUIANENS	136	100	A	100	A	100	A	100	A
STYLOSANTHES	GUIANENS	184	98	BA	100	A	100	A	100	A
DESMODIUM	HETEROPH	349	93	BAC	100	A	100	A	100	A
DESMODIUM	OVALIFOL	350	96	BA	100	A	100	A	100	A
CENTROSEMA	PUBESCEN	438	91	BAC	96	B	98	A	96	BA
CENTROSEMA	PUBESCEN	442	80	DC	96	B	93	B	100	A
ZORNIA	LATIFOLI	728	91	BAC	100	A	100	A	100	A
DESMODIUM	HETEROPH	3782	68	D	96	B	98	A	90	C
DESMODIUM	OVALIFOL	3788	86	BAC	100	A	98	A	100	A
DESMODIUM	OVALIFOL	3793	88	BAC	100	A	100	A	100	A
DESMODIUM	OVALIFOL	3794	90	BAC	100	A	100	A	100	A
CENTROSEMA	MACROCAR	5065	93	BAC	100	A	100	A	100	A
CENTROSEMA	BRASILIA	5178	90	BAC	100	A	100	A	98	A
CENTROSEMA	PUBESCEN	5189	96	BA	100	A	100	A	93	BC
CENTROSEMA	BRASILIA	5234	83	BC	96	B	95	BA	100	A
CENTROSEMA	ACUTIFOL	5277	96	BA	100	A	100	A	100	A
CENTROSEMA	BRASILIA	5365	96	BA	98	BA	100	A	100	A
CENTROSEMA	ACUTIFOL	5568	95	BAC	100	A	98	A	100	A
CENTROSEMA	BRASILIA	5657	96	BA	98	BA	100	A	100	A
CENTROSEMA	MACROCAR	5713	91	BAC	100	A	100	A	100	A
CENTROSEMA	MACROCAR	5737	98	BA	100	A	100	A	100	A
CENTROSEMA	MACROCAR	5740	98	BA	100	A	100	A	100	A
CENTROSEMA	MACROCAR	5744	98	BA	100	A	100	A	100	A
ZORNIA	GLABRA	7847	93	BAC	100	A	100	A	93	BC
ZORNIA	LATIFOLI	9199	95	BAC	100	A	100	A	98	A
PUERARIA	PHASEOLO	9900	83	BC	100	A	100	A	100	A
STYLOSANTHES	GUIANENS	10136	93	BAC	98	BA	100	A	93	BC
STYLOSANTHES	CAPITATA	10280	91	BAC	100	A	100	A	100	A

CONTINUA..

EVALUACION : 1

MINIMA PRECIPITACION

REGRESIONES DE PRODUCCION MEDIA DE MATERIA SECA VS. EDAD LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			LINEAL			CUADRATICO				
=====			R	CONSTA.	NIVEL DE	R	CONSTA.	NIVEL DE	CONSTA.	NIVEL DE
			CUADRADO	LINEAL	SIGNIFI.	CUADRADO	LINEAL	SIGNIFI.	CUADRAT.	SIGNIFI.
=====			=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :										
BRACHIARIA	DECUMBEN	606	0.75	180.5	0.001	0.77	79.8	0.560	10.07	0.450
ANDROPOGON	GAYANUS	621	0.86	205.7	0.001	0.91	412.0	0.001	-20.63	0.030
PANICUM	MAXIMUM	622	0.90	198.8	0.001	0.93	346.0	0.001	-14.72	0.060
PANICUM	MAXIMUM	673	0.92	241.0	0.001	0.94	364.2	0.001	-12.32	0.150
BRACHIARIA	DICTYONE	6133	0.70	163.5	0.001	0.78	388.6	0.010	-22.50	0.080
BRACHIARIA	HUMIDICO	6369	0.70	143.3	0.001	0.72	235.4	0.070	-9.21	0.440
BRACHIARIA	BRIZANTH	6387	0.88	233.7	0.001	0.89	193.0	0.110	4.07	0.710
BRACHIARIA	BRIZANTH	6780	0.84	164.8	0.001	0.85	121.0	0.220	4.38	0.630
LEGUMINOSAS :										
STYLOSANTHES	GUIANENS	136	0.71	140.0	0.001	0.89	418.8	0.001	-27.88	0.001
STYLOSANTHES	GUIANENS	184	0.72	137.4	0.001	0.86	380.2	0.001	-24.28	0.010
DESMODIUM	HETEROPH	349	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.001
DESMODIUM	OVALIFOL	350	0.20	14.5	0.150	0.30	-26.4	0.490	4.04	0.280
CENTROSEMA	PUBESCEN	438	0.81	127.6	0.001	0.90	293.6	0.001	-16.60	0.020
CENTROSEMA	PUBESCEN	442	0.51	72.4	0.010	0.65	223.6	0.020	-15.12	0.080
ZORNIA	LATIFOLI	728	0.81	84.1	0.001	0.90	200.0	0.001	-11.59	0.010
DESMODIUM	HETEROPH	3782	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.001
DESMODIUM	OVALIFOL	3788	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.001
DESMODIUM	OVALIFOL	3793	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.001
DESMODIUM	OVALIFOL	3794	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.001
CENTROSEMA	MACROCAR	5065	0.79	161.0	0.001	0.88	375.8	0.001	-21.48	0.020
CENTROSEMA	BRASILIA	5178	0.86	192.2	0.001	0.88	318.7	0.010	-12.65	0.190
CENTROSEMA	PUBESCEN	5189	0.71	204.3	0.001	0.88	605.0	0.001	-40.08	0.001
CENTROSEMA	BRASILIA	5234	0.55	123.9	0.001	0.66	346.4	0.020	-22.25	0.100
CENTROSEMA	ACUTIFOL	5277	0.68	123.3	0.001	0.84	360.1	0.001	-23.68	0.010
CENTROSEMA	BRASILIA	5365	0.72	146.3	0.001	0.89	430.9	0.001	-28.46	0.001
CENTROSEMA	ACUTIFOL	5568	0.74	143.9	0.001	0.91	421.2	0.001	-27.73	0.001
CENTROSEMA	BRASILIA	5657	0.76	158.6	0.001	0.91	433.8	0.001	-27.52	0.001
CENTROSEMA	MACROCAR	5713	0.86	197.9	0.001	0.92	400.1	0.001	-20.23	0.030
CENTROSEMA	MACROCAR	5737	0.73	183.4	0.001	0.87	498.5	0.001	-31.51	0.010
CENTROSEMA	MACROCAR	5740	0.81	137.2	0.001	0.87	287.9	0.001	-15.07	0.060
CENTROSEMA	MACROCAR	5744	0.64	125.3	0.001	0.81	390.2	0.001	-26.49	0.010
ZORNIA	GLABRA	7847	0.75	76.4	0.001	0.88	205.3	0.001	-12.89	0.010
ZORNIA	LATIFOLI	9199	0.10	6.6	0.300	0.18	30.5	0.250	-2.39	0.350
PUERARIA	PHASEOLO	9900	0.51	72.1	0.010	0.80	287.3	0.001	-21.52	0.001
STYLOSANTHES	GUIANENS	10136	0.83	143.7	0.001	0.90	312.4	0.001	-16.87	0.020
STYLOSANTHES	CAPITATA	10280	0.82	73.4	0.001	0.89	161.0	0.001	-8.76	0.030

EVALUACION : 1

MAXIMA PRECIPITACION

REGRESIONES DE PRODUCCION MEDIA DE MATERIA SECA VS. EDAD

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			LINEAL			CUADRATICO				
			R	CONSTA.	NIVEL DE	R	CONSTA.	NIVEL DE		
			CUADRADO	LINEAL	SIGNIFI.	CUADRADO	LINEAL	SIGNIFI.	CUADRAT.	SIGNIFI.
=====			=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :										
BRACHIARIA	DECUMBEN	606	0.92	339.9	0.001	0.93	445.9	0.001	-10.60	0.390
ANDROPOGON	GAYANUS	621	0.84	489.3	0.001	0.90	1012.2	0.001	-52.29	0.040
PANICUM	MAXIMUM	622	0.83	383.1	0.001	0.86	687.1	0.010	-30.40	0.160
PANICUM	MAXIMUM	673	0.82	405.7	0.001	0.90	925.0	0.001	-51.93	0.010
BRACHIARIA	DICTYONE	6133	0.94	478.2	0.001	0.96	711.6	0.001	-23.33	0.110
BRACHIARIA	HUMIDICO	6369	0.78	380.6	0.001	0.85	853.5	0.001	-47.29	0.050
BRACHIARIA	BRIZANTH	6387	0.90	551.2	0.001	0.92	839.2	0.001	-28.80	0.200
BRACHIARIA	BRIZANTH	6780	0.99	628.9	0.001	0.99	703.1	0.001	-7.42	0.390
LEGUMINOSAS :										
STYLOSANTHES	GUIANENS	136	0.81	357.1	0.001	0.89	805.2	0.001	-44.81	0.020
STYLOSANTHES	GUIANENS	184	0.93	471.1	0.001	0.96	758.8	0.001	-28.78	0.050
DESMODIUM	HETEROPH	349	0.85	148.7	0.001	0.89	280.3	0.001	-13.16	0.080
DESMODIUM	OVALIFOL	350	0.97	292.7	0.001	0.98	400.7	0.001	-10.80	0.080
CENTROSEMA	PUBESCEN	438	0.85	166.9	0.001	0.86	218.1	0.030	-5.13	0.570
CENTROSEMA	PUBESCEN	442	0.86	165.8	0.001	0.97	397.1	0.001	-23.12	0.001
ZORNIA	LATIFOLI	728	0.86	385.8	0.001	0.97	941.3	0.001	-55.56	0.001
DESMODIUM	HETEROPH	3782	0.42	307.9	0.020	0.44	579.7	0.240	-27.19	0.560
DESMODIUM	OVALIFOL	3788	0.93	193.9	0.001	0.96	330.9	0.001	-13.70	0.030
DESMODIUM	OVALIFOL	3793	0.91	190.6	0.001	0.95	355.2	0.001	-16.47	0.020
DESMODIUM	OVALIFOL	3794	0.90	212.1	0.001	0.96	430.9	0.001	-21.88	0.001
CENTROSEMA	MACROCAR	5065	0.94	233.2	0.001	0.96	396.5	0.001	-16.33	0.020
CENTROSEMA	BRASILIA	5178	0.89	203.5	0.001	0.97	444.6	0.001	-24.11	0.001
CENTROSEMA	PUBESCEN	5189	0.96	235.9	0.001	0.98	374.4	0.001	-13.85	0.010
CENTROSEMA	BRASILIA	5234	0.90	169.5	0.001	0.95	330.6	0.001	-16.12	0.010
CENTROSEMA	ACUTIFOL	5277	0.90	185.2	0.001	0.95	356.6	0.001	-17.14	0.010
CENTROSEMA	BRASILIA	5365	0.86	204.0	0.001	0.97	500.1	0.001	-29.61	0.001
CENTROSEMA	ACUTIFOL	5568	0.93	235.9	0.001	0.96	401.7	0.001	-16.58	0.030
CENTROSEMA	BRASILIA	5657	0.87	191.4	0.001	0.91	359.0	0.001	-16.76	0.050
CENTROSEMA	MACROCAR	5713	0.86	205.6	0.001	0.95	472.8	0.001	-26.71	0.001
CENTROSEMA	MACROCAR	5737	0.88	278.0	0.001	0.97	635.4	0.001	-35.73	0.001
CENTROSEMA	MACROCAR	5740	0.93	218.4	0.001	0.98	424.5	0.001	-20.61	0.001
CENTROSEMA	MACROCAR	5744	0.92	207.3	0.001	0.94	331.2	0.001	-12.40	0.100
ZORNIA	GLABRA	7847	0.82	257.3	0.001	0.96	688.5	0.001	-43.12	0.001
ZORNIA	LATIFOLI	9199	0.92	252.6	0.001	0.97	480.3	0.001	-22.78	0.001
PUERARIA	PHASEOLO	9900	0.86	156.6	0.001	0.92	325.6	0.001	-16.91	0.020
STYLOSANTHES	GUIANENS	10136	0.89	382.9	0.001	0.96	826.2	0.001	-44.33	0.001
STYLOSANTHES	CAPITATA	10280	0.86	447.7	0.001	0.86	339.3	0.180	10.84	0.650

CONTINUA..

EVALUACION : 1

MINIMA PRECIPITACION			EVALUACION DE INSECTOS				LOCALIDAD:PARAGOMINAS II BRASIL					
ECOTIPO			TRIPS	AC.	PULGUILLA	COMEDOR	HEMIPTERO	SALIVAZO	BARRENAD.	PERFORAD.	OTRO1	OTRO2
=====			=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :												
BRACHIARIA	DECUMBEN	606	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANDROPOGON	GAYANUS	621	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANICUM	MAXIMUM	622	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANICUM	MAXIMUM	673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	DICTYONE	6133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	HUMIDICO	6369	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	BRIZANTH	6387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	BRIZANTH	6780	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEGUMINOSAS :												
STYLOSANTHES	GUIANENS	136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	GUIANENS	184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	HETEROPH	349	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	438	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	442	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	LATIFOLI	728	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	HETEROPH	3782	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3788	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3793	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3794	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5065	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5178	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	5189	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	ACUTIFOL	5277	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5365	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	ACUTIFOL	5568	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5657	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5713	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5737	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5740	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5744	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	GLABRA	7847	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	LATIFOLI	9199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PUERARIA	PHASEOLO	9900	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	GUIANENS	10136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	CAPITATA	10280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

EVALUACION : 1

MAXIMA PRECIPITACION

EVALUACION DE INSECTOS

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			TRIPS AC.		PULGUILLA COMEDOR	HEMIPTERO SALIVAZO	BARRENAD.	PERFORAD.	OTRO1	OTRO2
=====			=====		=====	=====	=====	=====	=====	=====
GRAMINEAS :										
BRACHIARIA	DECUMBEN	606	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00
ANDROPOGON	GAYANUS	621	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00
PANICUM	MAXIMUM	622	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00
PANICUM	MAXIMUM	673	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00
BRACHIARIA	DICTYONE	6133	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00
BRACHIARIA	HUMIDICO	6369	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00
BRACHIARIA	BRIZANTH	6387	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00
BRACHIARIA	BRIZANTH	6780	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00
LEGUMINOSAS :										
STYLOSANTHES	GUIANENS	136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	GUIANENS	184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	HETEROPH	349	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	438	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	442	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00
ZORNIA	LATIFOLI	728	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00
DESMODIUM	HETEROPH	3782	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3788	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3793	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3794	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5065	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5178	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	5189	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5234	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	ACUTIFOL	5277	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5365	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	ACUTIFOL	5568	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5657	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5713	0.00	0.00	1.17	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5737	0.00	0.00	1.42	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5740	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5744	0.00	0.00	1.42	0.00	0.00	0.00	0.00	0.00
ZORNIA	GLABRA	7847	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	LATIFOLI	9199	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00
PUERARIA	PHASEOLO	9900	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	GUIANENS	10136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	CAPITATA	10280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

CONTINUA..

EVALUACION : 1

MAXIMA PRECIPITACION

EVALUACION DE ENFERMEDADES

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			HOJA								TALLO				OTROS			
			NEGRA	MARRON	NARAN.	CREMA	MARRP.	NARAP.	NEGRA	MARRON	CHANC.	MARN.	COLOR.	I.PEG.	I.G.	PG		
=====			=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :																		
BRACHIARIA	DECUMBEN	606	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ANDROPOGON	GAYANUS	621	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PANICUM	MAXIMUM	622	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
PANICUM	MAXIMUM	673	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
BRACHIARIA	DICTYONE	6133	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BRACHIARIA	HUMIDICO	6369	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BRACHIARIA	BRIZANTH	6387	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BRACHIARIA	BRIZANTH	6780	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEGUMINOSAS :																		
STYLOSANTHES	GUIANENS	136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STYLOSANTHES	GUIANENS	184	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	HETEROPH	349	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	OVALIFOL	350	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	PUBESCEN	438	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	PUBESCEN	442	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZORNIA	LATIFOLI	728	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	HETEROPH	3782	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	OVALIFOL	3788	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	OVALIFOL	3793	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	OVALIFOL	3794	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	BRASILIA	5178	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	PUBESCEN	5189	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	BRASILIA	5234	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	ACUTIFOL	5277	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	BRASILIA	5365	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	ACUTIFOL	5568	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	BRASILIA	5657	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5713	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5737	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5740	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5744	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZORNIA	GLABRA	7847	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZORNIA	LATIFOLI	9199	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PUERARIA	PHASEOLO	9900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STYLOSANTHES	GUIANENS	10136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STYLOSANTHES	CAPITATA	10280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CONTINUA..

EVALUACION : 1

MINIMA PRECIPITACION ALTURA Y NUMERO DE PLANTAS
LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			NPLANTAS	ALTURA
GRAMINEAS :				
BRACHIARIA	DECUMBEN	606		33.3
ANDROPOGON	GAYANUS	621		56.3
PANICUM	MAXIMUM	622		53.8
PANICUM	MAXIMUM	673		50.8
BRACHIARIA	DICTYONE	6133		28.8
BRACHIARIA	HUMIDICO	6369		19.5
BRACHIARIA	BRIZANTH	6387		44.6
BRACHIARIA	BRIZANTH	6780		37.5
LEGUMINOSAS :				
STYLOSANTHES	GUIANENS	136		43.8
STYLOSANTHES	GUIANENS	184		41.3
DESMODIUM	HETEROPH	349		3.2
DESMODIUM	OVALIFOL	350		8.0
CENTROSEMA	PUBESCEN	438		17.5
CENTROSEMA	PUBESCEN	442		14.6
ZORNIA	LATIFOLI	728		23.3
DESMODIUM	HETEROPH	3782		3.3
DESMODIUM	OVALIFOL	3788		5.0
DESMODIUM	OVALIFOL	3793		5.0
DESMODIUM	OVALIFOL	3794		6.2
CENTROSEMA	MACROCAR	5065		47.1
CENTROSEMA	BRASILIA	5178		21.7
CENTROSEMA	PUBESCEN	5189		21.3
CENTROSEMA	BRASILIA	5234		16.4
CENTROSEMA	ACUTIFOL	5277		30.4
CENTROSEMA	BRASILIA	5365		19.6
CENTROSEMA	ACUTIFOL	5568		25.4
CENTROSEMA	BRASILIA	5657		22.1
CENTROSEMA	MACROCAR	5713		42.9
CENTROSEMA	MACROCAR	5737		35.0
CENTROSEMA	MACROCAR	5740		38.3
CENTROSEMA	MACROCAR	5744		32.5
ZORNIA	GLABRA	7847		27.9
ZORNIA	LATIFOLI	9199		8.8
PUERARIA	PHASEOLO	9900		21.7
STYLOSANTHES	GUIANENS	10136		31.3
STYLOSANTHES	CAPITATA	10280		20.8

MAXIMA PRECIPITACION ALTURA Y NUMERO DE PLANTAS
LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			NPLANTAS	ALTURA
GRAMINEAS :				
BRACHIARIA	DECUMBEN	606		58.5
ANDROPOGON	GAYANUS	621		179.0
PANICUM	MAXIMUM	622		103.0
PANICUM	MAXIMUM	673		109.0
BRACHIARIA	DICTYONE	6133		54.6
BRACHIARIA	HUMIDICO	6369		34.2
BRACHIARIA	BRIZANTH	6387		68.8
BRACHIARIA	BRIZANTH	6780		87.3
LEGUMINOSAS :				
STYLOSANTHES	GUIANENS	136		101.0
STYLOSANTHES	GUIANENS	184		96.7
DESMODIUM	HETEROPH	349		15.8
DESMODIUM	OVALIFOL	350		44.6
CENTROSEMA	PUBESCEN	438		33.2
CENTROSEMA	PUBESCEN	442		30.0
ZORNIA	LATIFOLI	728		50.7
DESMODIUM	HETEROPH	3782		4.8
DESMODIUM	OVALIFOL	3788		24.1
DESMODIUM	OVALIFOL	3793		24.1
DESMODIUM	OVALIFOL	3794		22.9
CENTROSEMA	MACROCAR	5065		56.4
CENTROSEMA	BRASILIA	5178		28.9
CENTROSEMA	PUBESCEN	5189		36.4
CENTROSEMA	BRASILIA	5234		25.8
CENTROSEMA	ACUTIFOL	5277		39.6
CENTROSEMA	BRASILIA	5365		24.5
CENTROSEMA	ACUTIFOL	5568		40.6
CENTROSEMA	BRASILIA	5657		31.7
CENTROSEMA	MACROCAR	5713		54.4
CENTROSEMA	MACROCAR	5737		58.1
CENTROSEMA	MACROCAR	5740		65.3
CENTROSEMA	MACROCAR	5744		50.4
ZORNIA	GLABRA	7847		37.8
ZORNIA	LATIFOLI	9199		25.3
PUERARIA	PHASEOLO	9900		55.5
STYLOSANTHES	GUIANENS	10136		52.3
STYLOSANTHES	CAPITATA	10280		54.5

EVALUACION : 2

MINIMA PRECIPITACION

PRODUCCION DE MATERIA SECA KG/HA

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			3 SEMANAS		6 SEMANAS		9 SEMANAS		12 SEMANAS	
			MS,KG/HA	DUNCAN	MS,KG/HA	DUNCAN	MS,KG/HA	DUNCAN	MS,KG/HA	DUNCAN
=====			=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :			MEDIA=478	D.E.=324	MEDIA=689	D.E.=292	MEDIA=1221	D.E.=377	MEDIA=1798	D.E.=1056
BRACHIARIA	DECUMBEN	606	203	B	346	B	1043	CB	1430	A
ANDROPOGON	GAYANUS	621	236	B	390	B	806	CB	1360	A
PANICUM	MAXIMUM	622	116	B	366	B	600	C	1520	A
PANICUM	MAXIMUM	673	220	B	356	B	600	C	1540	A
BRACHIARIA	DICTYONE	6133	490	B	550	B	1503	B	1670	A
BRACHIARIA	HUMIDICO	6369	1760	A	2093	A	2900	A	2170	A
BRACHIARIA	BRIZANTH	6387	280	B	900	B	1290	CB	2683	A
BRACHIARIA	BRIZANTH	6780	520	B	513	B	1030	CB	2016	A
LEGUMINOSAS :			MEDIA=783	D.E.=455	MEDIA=1154	D.E.=516	MEDIA=1290	D.E.=507	MEDIA=1410	D.E.=566
STYLOSANTHES	GUIANENS	136	1253	FCEBD	1353	FCEBDG	553	EF	613	F
STYLOSANTHES	GUIANENS	184	1366	CEBD	1563	FCEBD	2103	BC	1763	CEBD
DESMODIUM	HETEROPH	349	0	I						
DESMODIUM	OVALIFOL	350	743	FCEIHOG	1400	FCEBDG	1423	EFGD	1366	FCED
CENTROSEMA	PUBESCEN	438	640	FEIHOG	700	FEDG	1123	EFD	1120	FED
CENTROSEMA	PUBESCEN	442	100	IH	823	FCEDG	670	EF	853	FED
ZORNIA	LATIFOLI	728	0	I	380	G	820	EF		
DESMODIUM	HETEROPH	3782	0	I						
DESMODIUM	OVALIFOL	3788	450	FIHG	656	FEDG	583	EF	810	FED
DESMODIUM	OVALIFOL	3793	526	FEIHG	573	FG	380	F	620	F
DESMODIUM	OVALIFOL	3794	726	FCEIHOG	596	FG	843	EF	1100	FED
CENTROSEMA	MACROCAR	5065	1700	B	1813	CB	2630	BA	2360	CB
CENTROSEMA	BRASILIA	5178	446	FIHG	623	FEG	656	EF	816	FED
CENTROSEMA	PUBESCEN	5189	973	FCEBHDG	1316	FCEBDG	2263	BC	1940	CBD
CENTROSEMA	BRASILIA	5234	550	FEIHG	456	G	546	F	843	FED
CENTROSEMA	ACUTIFOL	5277	400	FIHG	760	FEDG	536	F	863	FED
CENTROSEMA	BRASILIA	5365	866	FCEIBHDG	580	FG	1033	EFD	1416	FCEBD
CENTROSEMA	ACUTIFOL	5568	420	FIHG	456	G	683	EF	893	FED
CENTROSEMA	BRASILIA	5657	943	FCEBHDG	610	FEG	990	EFD	1280	FCED
CENTROSEMA	MACROCAR	5713	1560	CB	1900	B	2670	BA	2496	B
CENTROSEMA	MACROCAR	5737	1400	CEBD	2003	B	2153	BC	2253	CB
CENTROSEMA	MACROCAR	5740	883	FCEIBHDG	1663	CEBD	1610	ECO	1880	CBD
CENTROSEMA	MACROCAR	5744	1510	CBD	1700	CBD	1996	BCD	1873	CBD
ZORNIA	GLABRA	7847	643	FEIHOG	1200	FCEBDG	995	EFD	893	FED
ZORNIA	LATIFOLI	9199	0	I			660	EF	885	FED
PUERARIA	PHASEOLO	9900	210	IHG	590	FG	466	F	680	FE
STYLOSANTHES	GUIANENS	10136	2556	A	4060	A	3506	A	3833	A
STYLOSANTHES	CAPITATA	10280	1063	FCEBDG	586	FG	1040	EFD	1623	FCEBD

EVALUACION : 2

MAXIMA PRECIPITACION

PRODUCCION DE MATERIA SECA KG/HA

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			3 SEMANAS		6 SEMANAS		9 SEMANAS		12 SEMANAS	
			MS,KG/HA	DUNCAN	MS,KG/HA	DUNCAN	MS,KG/HA	DUNCAN	MS,KG/HA	DUNCAN
=====			=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :			MEDIA=406	D.E.=341	MEDIA=1215	D.E.=250	MEDIA=2113	D.E.=488	MEDIA=5808	D.E.=2712
BRACHIARIA	DECUMBEN	606	320	B	1296	B	2086	BAC	7590	A
ANDROPOGON	GAYANUS	621	0	B	560	C	1973	BAC	6440	A
PANICUM	MAXIMUM	622	306	B	1293	B	1536	BC	4735	A
PANICUM	MAXIMUM	673	286	B	1226	B	2620	A	5900	A
BRACHIARIA	DICTYONE	6133	310	B	1223	B	2513	A	4240	A
BRACHIARIA	HUMIDICO	6369	1500	A	2566	A	2493	A	5285	A
BRACHIARIA	BRIZANTH	6387	420	B	926	CB	2426	BA	5930	A
BRACHIARIA	BRIZANTH	6780	106	B	626	C	1260	C	6345	A
LEGUMINOSAS :			MEDIA=691	D.E.=308	MEDIA=1315	D.E.=442	MEDIA=1434	D.E.=512	MEDIA=2598	D.E.=637
STYLOSANTHES	GUIANENS	136	953	BDAC	1493	BAC	1456	EBD GCF	3790	BAC
STYLOSANTHES	GUIANENS	184	930	BDAC	1683	BA	1550	EBDAGCF	2615	EBDHGCF
DESMODIUM	HETEROPH	349	386	EDF	1610	BAC	1263	EDGF	1945	EHIGF
DESMODIUM	OVALIFOL	350	793	EBDAC	1400	BDAC	2446	BA	3610	BDAC
CENTROSEMA	PUBESCEN	438	660	EBDC	1106	BDC	1040	EHGF	1760	JHIGF
CENTROSEMA	PUBESCEN	442	580	EDFC	1096	BDC	890	HGF	1770	JHIGF
ZORNIA	LATIFOLI	728	566	EDFC	580	DE	566	HG	315	JK
DESMODIUM	HETEROPH	3782	0	F	0	E	83	H	0	K
DESMODIUM	OVALIFOL	3788	603	EDC	1330	BDAC	1283	EDGCF	2925	EBDHAGCF
DESMODIUM	OVALIFOL	3793	1056	BAC	1766	BA	1843	EBD .CF	2090	EDHIGF
DESMODIUM	OVALIFOL	3794	713	EBDC	1433	BDAC	1686	EBDACF	3115	EBDAGCF
CENTROSEMA	MACROCAR	5065	726	EBDC	1393	BDAC	2120	BDAC	3600	BDAC
CENTROSEMA	BRASILIA	5178	286	EF	736	DEC	1033	EHGF	1895	HIGF
CENTROSEMA	PUBESCEN	5189	1220	BA	1603	BAC	1670	EBDACF	2720	EBDHAGCF
CENTROSEMA	BRASILIA	5234	393	EDF	576	DE	576	HG	665	JK
CENTROSEMA	ACUTIFOL	5277	556	EDFC	1536	BAC	1390	EDGCF	2585	EDHGCF
CENTROSEMA	BRASILIA	5365	596	EDC	1376	BDAC	1363	EDGCF	1440	JHIK
CENTROSEMA	ACUTIFOL	5568	660	EBDC	1030	BDC	840	HGF	2010	EHIGF
CENTROSEMA	BRASILIA	5657	383	EDF	1383	BDAC	986	EHGF	1765	JHIGF
CENTROSEMA	MACROCAR	5713	923	BDAC	1650	BA	2010	EBDAC	4230	A
CENTROSEMA	MACROCAR	5737	756	EBDAC	1673	BA	2286	BAC	3510	EBDAC
CENTROSEMA	MACROCAR	5740	626	EBDC	1093	BDC	1720	EBDACF	2825	EBDHAGCF
CENTROSEMA	MACROCAR	5744	846	EBDAC	1473	BAC	1683	EBDACF	2795	EBDHAGCF
ZORNIA	GLABRA	7847	786	EBDAC	1013	BDC	1783	EBDACF	4145	BAC
ZORNIA	LATIFOLI	9199	916	BDAC	2160	A	1540	EBDAGCF	3270	EBDACF
PUERARIA	PHASEOLO	9900	276	EF	913	BDC	1000	EHGF	1635	JHIG
STYLOSANTHES	GUIANENS	10136	813	EBDAC	1723	BA	2523	A	4260	A
STYLOSANTHES	CAPITATA	10280	1343	A	2003	A	1523	EBDAGCF	4165	BA

CONTINUA..

EVALUACION : 2

MAXIMA PRECIPITACION

PORCENTAJE DE COBERTURA

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			3 SEMANAS		6 SEMANAS		9 SEMANAS		12 SEMANAS	
=====			COBERTU.	DUNCAN	COBERTU.	DUNCAN	COBERTU.	DUNCAN	COBERTU.	DUNCAN
=====			=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :			MEDIA=65	D.E.=9	MEDIA=89	D.E.=6	MEDIA=93	D.E.=5	MEDIA=99	D.E.=2
BRACHIARIA	DECUMBEN	606	60	CB	83	BC	86	BC	100	A
ANDROPOGON	GAYANUS	621	36	D	80	C	96	BA	100	A
PANICUM	MAXIMUM	622	60	CB	100	A	96	BA	100	A
PANICUM	MAXIMUM	673	60	CB	93	BA	93	BAC	100	A
BRACHIARIA	DICTYONE	6133	76	B	86	BC	100	A	100	A
BRACHIARIA	HUMIDICO	6369	100	A	100	A	100	A	100	A
BRACHIARIA	BRIZANTH	6387	56	C	80	C	90	BAC	95	A
BRACHIARIA	BRIZANTH	6780	76	B	90	BAC	83	C	100	A
LEGUMINOSAS :			MEDIA=79	D.E.=16	MEDIA=92	D.E.=10	MEDIA=86	D.E.=15	MEDIA=89	D.E.=12
STYLOSANTHES	GUIANENS	136	85	BAC	90	A	86	BA	100	A
STYLOSANTHES	GUIANENS	184	80	BAC	96	A	90	BA	95	A
DESMODIUM	HETEROPH	349	93	A	100	A	96	A	100	A
DESMODIUM	OVALIFOL	350	96	A	100	A	100	A	100	A
CENTROSEMA	PUBESCEN	438	70	BDAC	96	A	93	A	90	BA
CENTROSEMA	PUBESCEN	442	90	A	93	A	80	BA	85	BA
ZORNIA	LATIFOLI	728	53	DC	66	BC	45	DC	32	DE
DESMODIUM	HETEROPH	3782	46	D	60	C	24	D	10	E
DESMODIUM	OVALIFOL	3788	86	BA	100	A	100	A	95	A
DESMODIUM	OVALIFOL	3793	96	A	100	A	100	A	100	A
DESMODIUM	OVALIFOL	3794	100	A	96	A	96	A	100	A
CENTROSEMA	MACROCAR	5065	90	A	100	A	100	A	100	A
CENTROSEMA	BRASILIA	5178	53	DC	80	BA	76	BA	95	A
CENTROSEMA	PUBESCEN	5189	96	A	100	A	100	A	100	A
CENTROSEMA	BRASILIA	5234	56	BDC	80	BA	50	DC	40	DC
CENTROSEMA	ACUTIFOL	5277	73	BDAC	100	A	100	A	100	A
CENTROSEMA	BRASILIA	5365	70	BDAC	96	A	90	BA	90	BA
CENTROSEMA	ACUTIFOL	5568	86	BA	66	BC	63	BC	85	BA
CENTROSEMA	BRASILIA	5657	70	BDAC	100	A	90	BA	90	BA
CENTROSEMA	MACROCAR	5713	96	A	100	A	100	A	100	A
CENTROSEMA	MACROCAR	5737	76	BDAC	100	A	100	A	100	A
CENTROSEMA	MACROCAR	5740	80	BAC	100	A	100	A	100	A
CENTROSEMA	MACROCAR	5744	85	BAC	100	A	100	A	100	A
ZORNIA	GLABRA	7847	80	BAC	96	A	80	BA	90	BA
ZORNIA	LATIFOLI	9199	93	A	100	A	86	BA	65	BC
PUERARIA	PHASEOLO	9900	66	BDAC	93	A	100	A	100	A
STYLOSANTHES	GUIANENS	10136	76	BDAC	90	A	93	A	100	A
STYLOSANTHES	CAPITATA	10280	73	BDAC	96	A	86	BA	95	A

CONTINUA..

EVALUACION : 2

MINIMA PRECIPITACION

REGRESIONES DE PRODUCCION MEDIA DE MATERIA SECA VS. EDAD LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			LINEAL			CUADRATICO				
=====			R	CONSTA.	NIVEL DE	R	CONSTA.	NIVEL DE	CONSTA.	NIVEL DE
			CUADRADO	LINEAL	SIGNIFI.	CUADRADO	LINEAL	SIGNIFI.	CUADRAT.	SIGNIFI.
=====			=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :										
BRACHIARIA	DECUMBEN	606	0.81	108.3	0.001	0.84	34.6	0.600	7.37	0.260
ANDROPOGON	GAYANUS	621	0.84	98.6	0.001	0.87	32.6	0.540	6.60	0.220
PANICUM	MAXIMUM	622	0.88	97.0	0.001	0.96	-21.5	0.460	11.85	0.001
PANICUM	MAXIMUM	673	0.83	98.8	0.001	0.90	-11.0	0.810	10.98	0.030
BRACHIARIA	DICTYONE	6133	0.86	142.0	0.001	0.86	123.7	0.120	1.83	0.800
BRACHIARIA	HUMIDICO	6369	0.70	259.2	0.001	0.78	624.9	0.010	-36.57	0.070
BRACHIARIA	BRIZANTH	6387	0.70	185.4	0.001	0.73	34.2	0.830	15.12	0.330
BRACHIARIA	BRIZANTH	6780	0.82	141.1	0.001	0.84	46.2	0.580	9.49	0.250
LEGUMINOSAS :										
STYLOSANTHES	GUIANENS	136	0.34	89.7	0.030	0.57	382.8	0.010	-29.31	0.040
STYLOSANTHES	GUIANENS	184	0.87	198.4	0.001	0.96	454.3	0.001	-25.59	0.001
DESMODIUM	HETEROPH	349	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.001
DESMODIUM	OVALIFOL	350	0.79	147.6	0.001	0.86	322.1	0.001	-17.46	0.050
CENTROSEMA	PUBESCEN	438	0.85	109.9	0.001	0.87	190.4	0.010	-8.05	0.170
CENTROSEMA	PUBESCEN	442	0.85	79.7	0.001	0.86	123.9	0.010	-4.43	0.300
ZORNIA	LATIFOLI	728	0.79	67.1	0.020	0.99	-34.6	0.090	14.27	0.001
DESMODIUM	HETEROPH	3782	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.001
DESMODIUM	OVALIFOL	3788	0.77	75.0	0.001	0.80	140.9	0.020	-6.58	0.200
DESMODIUM	OVALIFOL	3793	0.71	58.8	0.001	0.79	138.6	0.010	-7.98	0.080
DESMODIUM	OVALIFOL	3794	0.78	98.3	0.001	0.80	162.7	0.030	-6.43	0.330
CENTROSEMA	MACROCAR	5065	0.78	251.7	0.001	0.84	528.0	0.010	-27.63	0.090
CENTROSEMA	BRASILIA	5178	0.80	77.0	0.001	0.83	140.6	0.010	-6.36	0.190
CENTROSEMA	PUBESCEN	5189	0.93	201.7	0.001	0.96	356.2	0.001	-15.44	0.010
CENTROSEMA	BRASILIA	5234	0.72	72.0	0.001	0.74	114.9	0.070	-4.30	0.460
CENTROSEMA	ACUTIFOL	5277	0.82	77.6	0.001	0.85	141.8	0.010	-6.42	0.160
CENTROSEMA	BRASILIA	5365	0.80	119.9	0.001	0.81	164.2	0.060	-4.43	0.570
CENTROSEMA	ACUTIFOL	5568	0.74	77.3	0.001	0.75	104.1	0.110	-2.68	0.650
CENTROSEMA	BRASILIA	5657	0.77	113.9	0.001	0.80	189.4	0.030	-7.55	0.330
CENTROSEMA	MACROCAR	5713	0.86	259.5	0.001	0.91	513.2	0.001	-25.37	0.040
CENTROSEMA	MACROCAR	5737	0.87	232.0	0.001	0.94	487.6	0.001	-25.56	0.010
CENTROSEMA	MACROCAR	5740	0.93	184.0	0.001	0.97	350.3	0.001	-16.63	0.001
CENTROSEMA	MACROCAR	5744	0.74	204.4	0.001	0.82	476.3	0.010	-27.19	0.060
ZORNIA	GLABRA	7847	0.67	101.4	0.001	0.79	280.7	0.010	-17.37	0.070
ZORNIA	LATIFOLI	9199	0.72	69.4	0.010	0.75	7.5	0.930	5.92	0.490
PUERARIA	PHASEOLO	9900	0.70	61.2	0.001	0.72	99.8	0.080	-3.85	0.450
STYLOSANTHES	GUIANENS	10136	0.87	405.9	0.001	0.97	947.6	0.001	-54.18	0.001
STYLOSANTHES	CAPITATA	10280	0.80	131.7	0.001	0.80	172.4	0.070	-4.07	0.640

EVALUACION : 2

MAXIMA PRECIPITACION

REGRESIONES DE PRODUCCION MEDIA DE MATERIA SECA VS. EDAD LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			LINEAL			CUADRATICO				
			R	CONSTA.	NIVEL DE	R	CONSTA.	NIVEL DE	CONSTA.	NIVEL DE
=====			CUADRADO	LINEAL	SIGNIFI.	CUADRADO	LINEAL	SIGNIFI.	CUADRAT.	SIGNIFI.
=====			=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :										
BRACHIARIA	DECUMBEN	606	0.78	397.5	0.001	0.95	-286.5	0.060	71.49	0.001
ANDROPOGON	GAYANUS	621	0.62	327.2	0.001	0.81	-358.6	0.160	71.68	0.010
PANICUM	MAXIMUM	622	0.83	272.0	0.001	0.92	-63.8	0.590	35.10	0.010
PANICUM	MAXIMUM	673	0.87	355.9	0.001	0.97	-105.9	0.230	48.26	0.001
BRACHIARIA	DICTYONE	6133	0.65	291.9	0.001	0.68	43.7	0.870	25.95	0.360
BRACHIARIA	HUMIDICO	6369	0.90	381.2	0.001	0.91	343.9	0.060	3.90	0.810
BRACHIARIA	BRIZANTH	6387	0.83	342.8	0.001	0.96	-154.6	0.170	51.99	0.001
BRACHIARIA	BRIZANTH	6780	0.66	298.1	0.001	0.91	-376.2	0.030	70.48	0.001
LEGUMINOSAS :										
STYLOSANTHES	GUIANENS	136	0.91	248.9	0.001	0.92	145.5	0.170	10.80	0.300
STYLOSANTHES	GUIANENS	184	0.92	215.1	0.001	0.92	290.8	0.010	-7.90	0.360
DESMODIUM	HETEROPH	349	0.87	170.1	0.001	0.88	241.0	0.020	-7.42	0.400
DESMODIUM	OVALIFOL	350	0.99	277.8	0.001	0.99	197.1	0.001	8.44	0.040
CENTROSEMA	PUBESCEN	438	0.93	144.4	0.001	0.94	195.9	0.001	-5.38	0.290
CENTROSEMA	PUBESCEN	442	0.91	137.3	0.001	0.91	170.6	0.010	-3.47	0.540
ZORNIA	LATIFOLI	728	0.34	57.7	0.050	0.47	192.8	0.070	-14.12	0.170
DESMODIUM	HETEROPH	3782	0.23	4.3	0.140	0.23	3.7	0.730	0.07	0.950
DESMODIUM	OVALIFOL	3788	0.93	201.5	0.001	0.94	135.1	0.070	6.95	0.330
DESMODIUM	OVALIFOL	3793	0.92	212.1	0.001	0.96	393.9	0.001	-19.01	0.010
DESMODIUM	OVALIFOL	3794	0.95	229.0	0.001	0.95	180.8	0.030	5.04	0.490
CENTROSEMA	MACROCAR	5065	0.97	263.1	0.001	0.98	163.0	0.010	10.47	0.070
CENTROSEMA	BRASILIA	5178	0.86	134.0	0.001	0.88	66.4	0.340	7.07	0.320
CENTROSEMA	PUBESCEN	5189	0.95	225.5	0.001	0.96	318.2	0.001	-9.69	0.130
CENTROSEMA	BRASILIA	5234	0.72	68.2	0.001	0.77	135.3	0.020	-7.01	0.190
CENTROSEMA	ACUTIFOL	5277	0.96	198.6	0.001	0.96	202.9	0.010	-0.46	0.940
CENTROSEMA	BRASILIA	5365	0.87	152.4	0.001	0.92	286.4	0.001	-14.00	0.040
CENTROSEMA	ACUTIFOL	5568	0.88	143.2	0.001	0.88	144.8	0.070	-0.16	0.980
CENTROSEMA	BRASILIA	5657	0.90	146.2	0.001	0.91	198.4	0.010	-5.45	0.400
CENTROSEMA	MACROCAR	5713	0.95	291.0	0.001	0.96	167.9	0.050	12.87	0.110
CENTROSEMA	MACROCAR	5737	0.97	274.6	0.001	0.97	235.5	0.001	4.09	0.530
CENTROSEMA	MACROCAR	5740	0.96	209.6	0.001	0.96	140.2	0.030	7.25	0.210
CENTROSEMA	MACROCAR	5744	0.98	220.2	0.001	0.98	236.4	0.001	-1.69	0.720
ZORNIA	GLABRA	7847	0.77	259.7	0.001	0.81	31.5	0.850	23.85	0.190
ZORNIA	LATIFOLI	9199	0.87	251.0	0.001	0.87	307.7	0.040	-5.92	0.650
PUERARIA	PHASEOLO	9900	0.92	127.9	0.001	0.92	116.6	0.040	1.18	0.810
STYLOSANTHES	GUIANENS	10136	0.94	313.4	0.001	0.95	199.8	0.060	11.87	0.230
STYLOSANTHES	CAPITATA	10280	0.87	284.1	0.001	0.87	258.1	0.100	2.72	0.850

CONTINUA..

EVALUACION : 2

MINIMA PRECIPITACION

EVALUACION DE INSECTOS

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			TRIPS AC. PULGUILLA COMEDOR			HEMIPTERO SALIVAZO		BARRENAD.	PERFORAD.	OTRO1	OTRO2
=====			=====	=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :											
BRACHIARIA	DECUMBEN	606	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANDROPOGON	GAYANUS	621	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANICUM	MAXIMUM	622	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANICUM	MAXIMUM	673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	DICTYONE	6133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	HUMIDICO	6369	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	BRIZANTH	6387	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	BRIZANTH	6780	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEGUMINOSAS :											
STYLOSANTHES	GUIANENS	136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	GUIANENS	184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	HETEROPH	349	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	438	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	442	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	LATIFOLI	728	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	HETEROPH	3782	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3788	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3793	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3794	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5065	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5178	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	5189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	ACUTIFOL	5277	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	ACUTIFOL	5568	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5657	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5713	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5737	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5740	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5744	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	GLABRA	7847	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	LATIFOLI	9199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PUERARIA	PHASEOLO	9900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	GUIANENS	10136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	CAPITATA	10280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

EVALUACION : 2

MAXIMA PRECIPITACION

EVALUACION DE INSECTOS

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO				TRIPS	AC.	PULGUILLA	COMEDOR	HEMIPTERO	SALIVAZO	BARRENAD.	PERFORAD.	OTRO1	OTRO2
=====				=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :													
BRACHIARIA	DECUMBEN	606		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANDROPOGON	GAYANUS	621		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANICUM	MAXIMUM	622		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANICUM	MAXIMUM	673		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	DICTYONE	6133		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	HUMIDICO	6369		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	BRIZANTH	6387		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	BRIZANTH	6780		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEGUMINOSAS :													
STYLOSANTHES	GUIANENS	136		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	GUIANENS	184		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	HETEROPH	349		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	350		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	438		0.00		0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	442		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	LATIFOLI	728		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	HETEROPH	3782		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3788		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3793		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESMODIUM	OVALIFOL	3794		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5065		0.00		0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5178		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	PUBESCEN	5189		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5234		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	ACUTIFOL	5277		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5365		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	ACUTIFOL	5568		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	BRASILIA	5657		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5713		0.00		0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5737		0.00		0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5740		0.00		0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	MACROCAR	5744		0.00		0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	GLABRA	7847		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	LATIFOLI	9199		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PUERARIA	PHASEOLO	9900		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	GUIANENS	10136		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	CAPITATA	10280		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

CONTINUA..

EVALUACION : 2

MAXIMA PRECIPITACION

EVALUACION DE ENFERMEDADES

LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO			HOJA					TALLO			OTROS			
			NEGRA	MARRON	NARAN.	CREMA	MARRP.	NARAP.	NEGRA	MARRON	CHANC.	MARCN.	CLORO.	I.PEG.
=====			=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
GRAMINEAS :														
BRACHIARIA	DECUMBEN	606	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ANDROPOGON	GAYANUS	621	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PANICUM	MAXIMUM	622	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PANICUM	MAXIMUM	673	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BRACHIARIA	DICTYONE	6133	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BRACHIARIA	HUMIDICO	6369	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BRACHIARIA	BRIZANTH	6387	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BRACHIARIA	BRIZANTH	6780	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEGUMINOSAS :														
STYLOSANTHES	GUIANENS	136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STYLOSANTHES	GUIANENS	184	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	HETEROPH	349	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	OVALIFOL	350	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	PUBESCEN	438	0.0	0.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	PUBESCEN	442	0.0	0.3	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZORNIA	LATIFOLI	728	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	HETEROPH	3782	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	OVALIFOL	3788	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	OVALIFOL	3793	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DESMODIUM	OVALIFOL	3794	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	BRASILIA	5178	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	PUBESCEN	5189	0.0	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	BRASILIA	5234	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	ACUTIFOL	5277	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	BRASILIA	5365	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	ACUTIFOL	5568	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	BRASILIA	5657	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5713	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5737	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5740	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CENTROSEMA	MACROCAR	5744	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZORNIA	GLABRA	7847	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZORNIA	LATIFOLI	9199	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PUERARIA	PHASEOLO	9900	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STYLOSANTHES	GUIANENS	10136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STYLOSANTHES	CAPITATA	10280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CONTINUA..

EVALUACION : 2

MINIMA PRECIPITACION ALTURA Y NUMERO DE PLANTAS
LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO		NPLANTAS	ALTURA
GRAMINEAS :			
BRACHIARIA	DECUMBEN 606		35.4
ANDROPOGON	GAYANUS 621		53.8
PANICUM	MAXIMUM 622		55.4
PANICUM	MAXIMUM 673		45.4
BRACHIARIA	DICTYONE 6133		35.4
BRACHIARIA	HUMIDICO 6369		24.6
BRACHIARIA	BRIZANTH 6387		52.5
BRACHIARIA	BRIZANTH 6780		58.8
LEGUMINOSAS :			
STYLOSANTHES	GUIANENS 136		63.3
STYLOSANTHES	GUIANENS 184		60.0
DESMODIUM	HETEROPH 349		8.3
DESMODIUM	OVALIFOL 350		28.8
CENTROSEMA	PUBESCEN 438		22.5
CENTROSEMA	PUBESCEN 442		24.2
ZORNIA	LATIFOLI 728		22.0
DESMODIUM	HETEROPH 3782		5.0
DESMODIUM	OVALIFOL 3788		20.0
DESMODIUM	OVALIFOL 3793		17.5
DESMODIUM	OVALIFOL 3794		16.3
CENTROSEMA	MACROCAR 5065		57.1
CENTROSEMA	BRASILIA 5178		20.0
CENTROSEMA	PUBESCEN 5189		25.4
CENTROSEMA	BRASILIA 5234		19.2
CENTROSEMA	ACUTIFOL 5277		29.6
CENTROSEMA	BRASILIA 5365		20.0
CENTROSEMA	ACUTIFOL 5568		20.4
CENTROSEMA	BRASILIA 5657		25.4
CENTROSEMA	MACROCAR 5713		49.2
CENTROSEMA	MACROCAR 5737		45.8
CENTROSEMA	MACROCAR 5740		57.5
CENTROSEMA	MACROCAR 5744		44.2
ZORNIA	GLABRA 7847		24.5
ZORNIA	LATIFOLI 9199		16.7
PUERARIA	PHASEOLO 9900		20.8
STYLOSANTHES	GUIANENS 10136		50.4
STYLOSANTHES	CAPITATA 10280		37.9

MAXIMA PRECIPITACION ALTURA Y NUMERO DE PLANTAS
LOCALIDAD: PARAGOMINAS II BRASIL

ECOTIPO		NPLANTAS	ALTURA
GRAMINEAS :			
BRACHIARIA	DECUMBEN 606		58.2
ANDROPOGON	GAYANUS 621		80.9
PANICUM	MAXIMUM 622		84.1
PANICUM	MAXIMUM 673		90.9
BRACHIARIA	DICTYONE 6133		57.7
BRACHIARIA	HUMIDICO 6369		37.7
BRACHIARIA	BRIZANTH 6387		62.3
BRACHIARIA	BRIZANTH 6780		77.3
LEGUMINOSAS :			
STYLOSANTHES	GUIANENS 136		62.7
STYLOSANTHES	GUIANENS 184		58.6
DESMODIUM	HETEROPH 349		7.3
DESMODIUM	OVALIFOL 350		29.1
CENTROSEMA	PUBESCEN 438		21.4
CENTROSEMA	PUBESCEN 442		20.0
ZORNIA	LATIFOLI 728		21.8
DESMODIUM	HETEROPH 3782		3.1
DESMODIUM	OVALIFOL 3788		14.5
DESMODIUM	OVALIFOL 3793		18.2
DESMODIUM	OVALIFOL 3794		20.0
CENTROSEMA	MACROCAR 5065		46.8
CENTROSEMA	BRASILIA 5178		18.2
CENTROSEMA	PUBESCEN 5189		30.5
CENTROSEMA	BRASILIA 5234		17.7
CENTROSEMA	ACUTIFOL 5277		30.0
CENTROSEMA	BRASILIA 5365		16.8
CENTROSEMA	ACUTIFOL 5568		23.2
CENTROSEMA	BRASILIA 5657		24.1
CENTROSEMA	MACROCAR 5713		51.8
CENTROSEMA	MACROCAR 5737		46.4
CENTROSEMA	MACROCAR 5740		56.4
CENTROSEMA	MACROCAR 5744		45.5
ZORNIA	GLABRA 7847		32.3
ZORNIA	LATIFOLI 9199		18.0
PUERARIA	PHASEOLO 9900		27.3
STYLOSANTHES	GUIANENS 10136		31.4
STYLOSANTHES	CAPITATA 10280		46.4