

ESTABLECIMIENTO Y PRODUCCION DE GRAMINEAS Y LEGUMINOSAS FORRAJERAS
EN ALTO MAYO, PERU

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INIPA

EVALUACION : I

PERU

LOCALIDAD:ALTO MAYO

PRODUCCION DE MATERIA SECA KG/HA

MINIMA PRECIPITACION

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 :								
AXONOPUS	-20	A	230	B	487	BA	523	R
BRACHIARIA	-93	A	308	BA	409	B	1319	BA
PASPALUM	600	A	366	BA	573	BA	819	R
PANICUM	604	A	398	BA	986	A	1297	PA
BRACHIARIA	606	A	251	B	646	BA	1341	A
ANDROPOGON	621	A	539	A	859	BA	1283	BA
BRACHIARIA	679	A	526	A	878	BA	1268	BA
LEGUMINOSAS :								
PUDESCEN	-3	B	240	C	540	BA	546	DC
MUCONOID	-4	B	73	DC	498	BA	851	BC
CALPOGONIUM	136	B	160	DC	736	BA	1166	BAC
STYLOSANTHES	184	B						
GUIANENS	349	B						
HETEROPH	350	B						
DESMODIUM	350	A	0	D	0	B	0	D
DESMODIUM	439	B	543	B	844	BA	1323	BA
CENTROSEMA	728	B	221	DC	461	BA	646	C
ZORNIA	285	B	225	DC	419	BA	594	DC
STYLOSANTHES	1019	B	0	D	407	BA	570	DC
CAPITATA	1405	B	0	D	0	B	0	D
GYRIDIUM	300	B	770	A	767	BA	889	BAC
MACRORCAR	5065	B	135	DC	1590	A	1514	A
MISTRIX	9690	B						
PUERARIA	9900	B	261	C	521	BA	922	BAC

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PERU

LOCALIDAD:ALTO MAYO

PRODUCCION DE MATERIA SECA KG/HA

MAXIMA PRECIPITACION

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 :								
AXONOPUS	-20	D			115	D	0	D
BRACHIARIA	-93	CD	700	B	1041	DC	1096	DC
PASPALUM	600	B	2196	BA	3575	BA	3097	BAC
PANICUM	604	A	3169	A	1973	C	3575	BA
BRACHIARIA	606	CB0	808	B	2046	BC	1633	RCC
ANDROPOGON	621	CB0	1170	R	4343	A	5185	A
BRACHIARIA	679	CB	1350	B	1553	DC	2516	RC
LEGUMINOSAS :								
PUDESCEN	-3	BC	400	BAC	743	BA	663	R
MUCONOID	-4	C	252	C	360	BC	599	B
CALPOGONIUM	136	BC	700	BAC	480	BAC	961	BA
STYLOSANTHES	184	C						
GUIANENS	349	C						
HETEROPH	350	C	468	BAC	641	BAC	595	B
DESMODIUM	350	A	903	A	1043	A	1225	PA
DESMODIUM	439	BC	600	BAC	763	BA	1166	BA
CENTROSEMA	728	BC	682	BAC	650	BAC	1216	BA
ZORNIA	285	BA	815	BAC	220	BC	600	R
STYLOSANTHES	1019	BC	875	BC	450	BAC	910	BA
CAPITATA	1405	C	320	BC	838	BA	646	B
GYRIDIUM	300	C	356	BC	720	BA	1277	BA
MACRORCAR	5065	BC	540	BA	0	C	1950	A
MISTRIX	9690	BC						
PUERARIA	9900	BC	504	BAC	713	BA	1153	BA

EVALUACION : 1

LOCALIDAD:ALTO MAYO PERU

PORCENTAJE DE COBERTURA

MINIMA PRECIPITACION

ECOTIPO	3 SEMANAS		6 SEMANAS		9 SEMANAS		12 SEMANAS	
	COBERTU.	DUNCAN	COBERTU.	DUNCAN	COBERTU.	DUNCAN	COBERTU.	DUNCAN
GRAMINEAS :								
AXONOPUS	-20	A	100	A	100	A	100	A
BRACHIARIA	-93	B	51	DC	25	C	63	B
PASPALUM	600	BA	73	DC	56	B	56	R
PANICUM	604	BA	80	D	33	CB	59	R
BRACHIARIA	606	B	30	DC	36	CB	60	R
ANDROPOGON	521	SA	80	SA	30	B	93	A
BRACHIARIA	679	BA	83	BC	58	B	65	R
LEGUMINOSAS :								
CENTROSEMA	-3	A	68	D.E.=16	70	BA	73	BA
CALOPSONIUM	-4	A	81	BC	50	EC	80	BA
STYLOSANTHES	136	B	45	BC	80	BA	86	BA
GUIANENS	184	C	20					
DESMODIUM	349	A	98	A	56	BAC	56	BC
DESMODIUM	350	A	98	A	96	A	100	A
CENTROSEMA	438	C	33	C	78	BAC	55	BA
ZORNIA	728	A	83	A	66	BAC	80	BA
STYLOSANTHES	1019	BC	40	BC	60	BAC	47	B
STYLOSANTHES	1405	BA	73	BA	70	BAC	73	BAC
DESMODIUM	3001	A	95	A	83	BA	60	BC
CENTROSEMA	5065	C	20	C	93	A	73	BAC
AESCHYNOMENE	9690	BC	40	BC	65	BC	83	BA
PUERRARIA	9900	BC	40	BC	65	BC	83	BA

LOCALIDAD:ALTO MAYO PERU

PORCENTAJE DE COBERTURA

MAXIMA PRECIPITACION

ECOTIPO	3 SEMANAS		6 SEMANAS		9 SEMANAS		12 SEMANAS	
	COBERTU.	DUNCAN	COBERTU.	DUNCAN	COBERTU.	DUNCAN	COBERTU.	DUNCAN
GRAMINEAS :								
AXONOPUS	-20	A	48	D.E.=20	55	BA	55	D.E.=21
BRACHIARIA	-93	A	42	BC	43	B	28	B
PASPALUM	500	A	50	BA	90	BA	66	BA
PANICUM	604	A	60	BA	70	BA	50	BA
BRACHIARIA	606	A	46	C	48	B	50	BA
ANDROPOGON	521	A	51	A	90	A	83	A
BRACHIARIA	679	A	63	A	40	B	60	BA
LEGUMINOSAS :								
CENTROSEMA	-3	E	57	D.E.=24	77	D.E.=19	74	D.E.=29
CALOPSONIUM	-4	E	12	EBDAC	100	A	63	A
STYLOSANTHES	136	E	47	EBDC	30	C	66	A
DESMODIUM	349	A	76	BAC	52	BC	90	A
DESMODIUM	350	A	100	BAC	98	A	80	A
CENTROSEMA	438	A	65	BDAC	100	A	83	A
ZORNIA	728	BA	90	BA	100	A	66	A
STYLOSANTHES	1019	BA	79	BAC	95	BA	66	A
STYLOSANTHES	1405	BA	38	BAC	18	DC	100	A
DESMODIUM	3001	BC	38	FDC	70	BA	100	A
CENTROSEMA	5065	BC	60	SDC	53	BC	73	BAC
AESCHYNOMENE	9690	ED	17	EBDAC	80	BA	65	A
PUERRARIA	9900	ED	60	EBDAC	10	D	50	A
PUERRARIA	9900	ED	60	EBDAC	63	BA	83	A

EVALUACION : I

MINIMA PRECIPITACION REGRESIONES DE PRODUCCION MEDIA DE MATERIA SECA VS. EDAD LOCALIDAD:ALTO MAYO PERU

ECOTIPO	P CUADRADO	L I N E A L CONSTA. LINEAL	NIVEL DE SIGNIFI.	C U A D R A T I C O		R CUADRADO	NIVEL DE SIGNIFI.	C U A D R A T I C O	
				LINEAL	LINEAL			LINEAL	LINEAL
GRAMINEAS :									
AXOPODUS	-20	0.95	0.001	52.7	0.001	0.96	0.001	64.0	0.200
BRACHIARIA	-93	0.73	0.001	61.3	0.001	0.79	0.001	-15.1	0.760
PASPALUM	600	0.89	0.001	68.9	0.001	0.89	0.001	54.1	0.220
PANICUM	604	0.92	0.001	104.6	0.001	0.92	0.001	87.5	0.050
BRACHIARIA	606	0.81	0.001	112.3	0.001	0.90	0.001	-43.2	15.55
ANDROPOGON	621	0.94	0.001	103.8	0.001	0.95	0.001	109.4	0.010
BRACHIARIA	679	0.90	0.001	104.2	0.001	0.90	0.001	122.3	0.020
LEGUMINOSAS :									
CENTROSEMA	-3	0.87	0.001	50.6	0.001	0.87	0.001	58.4	0.060
CALOPOGONIUM	-4	0.88	0.001	59.2	0.001	0.98	0.001	-27.8	0.130
GUANENS	136	0.73	0.001	84.0	0.001	0.77	0.001	1.1	0.990
DESMODIUM	349	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
DESMODIUM	350	0.93	0.001	105.9	0.001	0.93	0.001	117.1	0.010
DESMODIUM	436	0.85	0.001	50.0	0.001	0.86	0.001	25.3	0.370
ZORNIA	728	0.87	0.001	49.1	0.001	0.88	0.001	59.2	0.060
STYLOSANTHES	1019	0.63	0.010	31.6	0.010	0.78	0.001	-15.1	0.550
CAPITATA	1405	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
GYROIDES	3001	0.87	0.001	82.2	0.001	0.83	0.001	195.5	0.020
CENTROSEMA	5065	0.52	0.010	124.4	0.010	0.54	0.001	16.9	0.920
PUERARIA	9900	0.88	0.001	64.2	0.001	0.94	0.001	-2.5	0.910

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MAXIMA PRECIPITACION REGRESIONES DE PRODUCCION MEDIA DE MATERIA SECA VS. EDAD LOCALIDAD:ALTO MAYO PERU

ECOTIPO	R CUADRADO	L I N E A L CONSTA. LINEAL	NIVEL DE SIGNIFI.	C U A D R A T I C O		R CUADRADO	NIVEL DE SIGNIFI.	C U A D R A T I C O	
				LINEAL	LINEAL			LINEAL	LINEAL
GRAMINEAS :									
AXOPODUS	-20	0.25	0.310	6.4	0.310	0.30	0.310	19.2	0.550
BRACHIARIA	-93	0.51	0.010	100.3	0.010	0.51	0.010	113.5	0.400
PASPALUM	600	0.91	0.001	309.9	0.001	0.92	0.001	421.2	0.010
PANICUM	604	0.92	0.001	304.9	0.001	0.93	0.001	448.9	0.030
BRACHIARIA	606	0.93	0.001	150.4	0.001	0.93	0.001	170.1	0.110
ANDROPOGON	621	0.90	0.001	413.6	0.001	0.93	0.001	122.8	0.490
BRACHIARIA	679	0.85	0.001	196.1	0.001	0.86	0.001	143.4	0.200
LEGUMINOSAS :									
CENTROSEMA	-3	0.79	0.001	64.1	0.001	0.79	0.001	77.6	0.110
CALOPOGONIUM	-4	0.90	0.001	42.5	0.001	0.94	0.001	4.1	0.540
GUANENS	136	0.64	0.010	75.1	0.010	0.64	0.010	73.1	0.410
DESMODIUM	349	0.80	0.001	58.2	0.001	0.81	0.001	74.5	0.070
DESMODIUM	350	0.60	0.001	126.2	0.001	0.70	0.001	326.4	0.020
CENTROSEMA	438	0.71	0.001	93.3	0.001	0.71	0.001	82.8	0.360
ZORNIA	728	0.85	0.001	94.2	0.001	0.85	0.001	86.4	0.120
STYLOSANTHES	1019	0.44	0.070	67.0	0.070	0.67	0.070	242.4	0.050
CAPITATA	1405	0.83	0.001	72.4	0.001	0.84	0.001	107.1	0.100
GYROIDES	3001	0.84	0.001	63.9	0.001	0.84	0.001	63.9	0.120
CENTROSEMA	5065	0.64	0.001	67.4	0.001	0.67	0.001	22.3	0.790
ACHYRODOME	9690	0.67	0.050	105.7	0.050	0.74	0.050	12.35	0.440
PUERARIA	9900	0.84	0.001	87.5	0.001	0.85	0.001	42.3	0.440

EVALUACION : 1

MINIMA PRECIPITACION	EVALUACION DE INSECTOS					LOCALIDAD:ALTO MAYO					PERU	
	TRIPS AC.	PULGUILLA	COMEDOR	HEMIPTERO	SALIVAZO	BARRENAD.	PERFORAD.	OTRO1	OTRO2			
ECOTIPO												
IGAMINEAS :												
AXONOPUS	-20	0.00	0.25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	-93	0.00	0.25	0.00	0.25	1.92	0.00	0.00	0.00	0.00	0.00	0.00
PASPALUM	600	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAXIMUM	604	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	606	0.00	0.08	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANCOPOGON	621	0.00	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	679	0.00	0.00	0.00	0.25	0.83	0.00	0.00	0.00	0.00	0.00	0.00
LEGUMINOSAS :												
CENTROSEMA	-3	0.00	0.00	2.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALPOGONIUM	-4	0.00	0.00	1.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GYLANSANTHES	136	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	194	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESDOJIUM	349	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESDOJIUM	350	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	438	0.00	0.00	1.42	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	728	0.42	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	1019	0.00	0.11	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITATA	1405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	3001	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESDOJIUM	5065	0.00	0.00	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	9590	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AESCHYNOME	9590	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PUERARIA	9900	0.00	0.00	0.33	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MAXIMA PRECIPITACION	EVALUACION DE INSECTOS					LOCALIDAD:ALTO MAYO					PERU	
	TRIPS AC.	PULGUILLA	COMEDOR	HEMIPTERO	SALIVAZO	BARRENAD.	PERFORAD.	OTRO1	OTRO2			
ECOTIPO												
IGAMINEAS :												
AXONOPUS	-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	-93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PASPALUM	600	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAXIMUM	604	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	606	0.00	0.17	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANCOPOGON	621	0.00	0.50	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRACHIARIA	679	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LEGUMINOSAS :												
CENTROSEMA	-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALPOGONIUM	-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GYLANSANTHES	136	0.00	0.56	0.44	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESDOJIUM	349	0.00	0.08	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESDOJIUM	350	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CENTROSEMA	438	0.00	0.00	1.58	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZORNIA	728	0.00	0.58	0.42	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STYLOSANTHES	1019	0.00	0.57	0.57	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPITATA	1405	0.00	0.57	0.29	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DESDOJIUM	3001	0.00	0.00	0.42	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MACROCAR	5065	0.00	0.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AESCHYNOME	9590	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PUERARIA	9900	0.00	0.00	0.33	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

