

UNIVERSIDAD DE LA REPUBLICA

FACULTAD DE AGRONOMIA

**EFFECTO DEL TIPO Y NIVEL DE SUPLEMENTACION CON
CONCENTRADOS Y DE LA OFERTA DE PASTURAS POR VACA SOBRE LA
PRODUCCION Y COMPOSICIÓN DE LA LECHE Y VARIACION DE PESO Y
CONDICION CORPORAL DE VACAS LECHERAS DE PARICION DE
OTOÑO SUPLEMENTADAS CON ENSILAJE DE MAIZ OFRECIDO AD
LIBITUM.**

por

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**TESIS presentada como
uno de los requisitos
para obtener el título de
Ingeniero Agrónomo.
(Orientación Agrícola-
Ganadera)**

**MONTEVIDEO
URUGUAY
1999**

TOMO II

9.APENDICE.

Apéndice N°1. Resumen de ANOVAS de los resultados obtenidos para la dieta total

Apéndice N°1.1.

Dependent Variable: **Media del consumo total**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	155.602582	11.1144700	44.44	0.0001
BLOQ	3	0.6336584	0.2112195	0.84	0.4815
PAST	1	32.2620545	32.2620545	129.00	0.0001
CONC	1	6.6397081	6.6397081	26.55	0.0001
PAST*CONC	1	1.7555373	1.7555373	7.02	0.0133
NIV	2	92.9147579	46.4573789	185.76	0.0001
PAST*NIV	2	1.3136486	0.6568243	2.63	0.0907
CONC*NIV	2	3.7200865	1.8600432	7.44	0.0027
PAST*CONC*NIV	2	0.4191303	0.2095651	0.84	0.4435
Error	27	6.752532	0.2500940		
Corrected Total	41	162.355114			

R-Square
0.958409

C.V.
2.314933

Root MSE
0.50009

M_TOTC Mean
21.6029

Apéndice N°1.2.

Dependent Variable: **Media del consumo de PC total**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	8.56927139	0.61209081	55.89	0.0001
BLOQ	3	0.02872676	0.00957559	0.87	0.4666
PAST	1	2.03361022	2.03361022	185.69	0.0001
CONC	1	0.24230649	0.24230649	22.13	0.0001
PAST*CONC	1	0.02954032	0.02954032	2.70	0.1121
NIV	2	5.21938701	2.60969351	238.30	0.0001
PAST*NIV	2	0.00107625	0.00053812	0.05	0.9521
CONC*NIV	2	0.16088033	0.08044016	7.35	0.0028
PAST*CONC*NIV	2	0.00054553	0.00027276	0.02	0.9754
Error	27	0.29568643	0.01095135		
Corrected Total	41	8.86495782			

R-Square
0.966645

C.V.
3.198072

Root MSE
0.10465

M_TOTPC Mean
3.27224

Apéndice N°1.3.

Dependent Variable: **Media de la EN1 de la dieta total.**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	394.881569	28.205826	36.31	0.0001
BLOQ	3	1.987147	0.662382	0.85	0.4774
PAST	1	0.824810	0.824810	1.06	0.3119
CONC	1	22.242048	22.242048	28.63	0.0001
PAST*CONC	1	4.521292	4.521292	5.82	0.0229
NIV	2	318.147153	159.073577	204.78	0.0001
PAST*NIV	2	2.035394	1.017697	1.31	0.2864
CONC*NIV	2	12.244414	6.122207	7.88	0.0020
PAST*CONC*NIV	2	0.671032	0.335516	0.43	0.6537
Error	27	20.973560	0.776799		
Corrected Total	41	415.855129			

R-Square	C.V.	Root MSE	M_TOTMC Mean
0.949565	2.765595	0.88136	31.8688

Apéndice N°1.4.

Dependent Variable: **Media de la FDA de la dieta total**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	7.77791658	0.55556547	231.04	0.0001
BLOQ	3	0.00537970	0.00179323	0.75	0.5342
PAST	1	6.42079133	6.42079133	2670.23	0.0001
CONC	1	0.02348462	0.02348462	9.77	0.0042
PAST*CONC	1	0.08081364	0.08081364	33.61	0.0001
NIV	2	0.34563544	0.17281772	71.87	0.0001
PAST*NIV	2	0.28020072	0.14010036	58.26	0.0001
CONC*NIV	2	0.01714034	0.00857017	3.56	0.0423
PAST*CONC*NIV	2	0.07816714	0.03908357	16.25	0.0001
Error	27	0.06492367	0.00240458		
Corrected Total	41	7.84284024			

R-Square	C.V.	Root MSE	M_FDATOT Mean
0.991722	0.852073	0.04904	5.75496

Apéndice N°1.5.

Dependent Variable: **Media de la FDN de la dieta total**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	19.7338146	1.40955820	77.89	0.0001
BLOQ	3	0.04874453	0.01624818	0.90	0.4551
PAST	1	8.34432327	8.34432327	461.06	0.0001
CONC	1	1.36240296	1.36240296	75.28	0.0001
PAST*CONC	1	0.37878696	0.37878696	20.93	0.0001
NIV	2	5.84997380	2.92498690	161.62	0.0001
PAST*NIV	2	1.09646073	0.54823037	30.29	0.0001
CONC*NIV	2	0.37654885	0.18827442	10.40	0.0004
PAST*CONC*NIV	2	0.31433908	0.15716954	8.68	0.0012
Error	27	0.4886444	0.01809790		
Corrected Total	41	20.2224591			

R-Square	C.V.	Root MSE	M_FDNTOT Mean
0.975837	1.228760	0.13453	10.9483

Apéndice N°1.6.

Dependent Variable: **Media de CNE de la dieta total**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	19.4405381	1.3886099	43.93	0.0001
BLOQ	3	0.0866091	0.0288697	0.91	0.4476
PAST	1	0.0048398	0.0048398	0.15	0.6986
CONC	1	1.7239977	1.7239977	54.54	0.0001
PAST*CONC	1	0.1307459	0.1307459	4.14	0.0519
NIV	2	14.9265694	7.4632847	236.12	0.0001
PAST*NIV	2	0.0040217	0.0020109	0.06	0.9385
CONC*NIV	2	0.7754387	0.3877193	12.27	0.0002
PAST*CONC*NIV	2	0.0022644	0.0011322	0.04	0.9649
Error	27	0.8534040	0.0316076		
Corrected Total	41	20.2939422			

R-Square	C.V.	Root MSE	M_TOTCNE Mean
0.957948	3.806360	0.17779	4.67074

Apéndice N°1.7.

Dependent Variable: **Media del contenido de cenizas de la dieta total.**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	2.13207349	0.15229096	87.79	0.0001
BLOQ	3	0.00405160	0.00135053	0.78	0.5163
PAST	1	1.30895521	1.30895521	754.53	0.0001
CONC	1	0.00862275	0.00862275	4.97	0.0343
PAST*CONC	1	0.00898542	0.00898542	5.18	0.0310
NIV	2	0.58855252	0.29427626	169.63	0.0001
PAST*NIV	2	0.00414919	0.00207460	1.20	0.3180
CONC*NIV	2	0.01485388	0.00742694	4.28	0.0243
PAST*CONC*NIV	2	0.00175137	0.00087569	0.50	0.6092
Error	27	0.04683927	0.00173479		
Corrected Total	41	2.17891276			

R-Square
0.978503

C.V.
2.153486

Root MSE
0.04165

M_TOTCE Mean
1.93411

Apéndice N°1.8.

Dependent Variable: **Media del EE de la dieta total**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	0.74161765	0.05297269	50.35	0.0001
BLOQ	3	0.00148265	0.00049422	0.47	0.7058
PAST	1	0.02289192	0.02289192	21.76	0.0001
CONC	1	0.39133957	0.39133957	371.99	0.0001
PAST*CONC	1	0.00005405	0.00005405	0.05	0.8224
NIV	2	0.30316249	0.15158124	144.09	0.0001
PAST*NIV	2	0.00196459	0.00098230	0.93	0.4054
CONC*NIV	2	0.02255324	0.01127662	10.72	0.0004
PAST*CONC*NIV	2	0.00027889	0.00013944	0.13	0.8764
Error	27	0.02840454	0.00105202		
Corrected Total	41	0.77002219			

R-Square
0.963112

C.V.
4.095644

Root MSE
0.03243

M_TOTEE Mean
0.79194

Apéndice N°1.9.

Dependent Variable: **Media de la MOD de la dieta total.**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	107.239766	7.6599830	43.31	0.0001
BLOQ	3	0.4852458	0.1617486	0.91	0.4470
PAST	1	0.1125940	0.1125940	0.64	0.4319
CONC	1	9.0269809	9.0269809	51.04	0.0001
PAST*CONC	1	0.9747885	0.9747885	5.51	0.0265
NIV	2	82.5363458	41.2681729	233.36	0.0001
PAST*NIV	2	0.4297421	0.2148710	1.22	0.3124
CONC*NIV	2	3.7098198	1.8549099	10.49	0.0004
PAST*CONC*NIV	2	0.1790075	0.0895038	0.51	0.6084
Error	27	4.774807	0.1768450		
Corrected Total	41	112.014574			

R-Square	C.V.	Root MSE	M_TOTMO Mean
0.957373	3.260113	0.42053	12.8992

Apéndice N°2. Resumen de ANOVAS de los resultados de consumo de forraje.

Apéndice N°2.1.

Dependent Variable: **Media del consumo de forraje.**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	59.1766980	4.2269070	99999.99	0.0001
BLOQ	3	0.0000000	0.0000000	99999.99	0.0001
PAST	1	56.0241900	56.0241900	99999.99	0.0001
CONC	1	0.0000000	0.0000000	99999.99	0.0001
PAST*CONC	1	0.0000000	0.0000000	99999.99	0.0001
NIV	2	0.0000000	0.0000000	99999.99	0.0001
PAST*NIV	2	0.0000000	0.0000000	99999.99	0.0001
CONC*NIV	2	0.0000000	0.0000000	99999.99	0.0001
PAST*CONC*NIV	2	0.0000000	0.0000000	99999.99	0.0001
Error	27	0.0000000	0.0000000		
Corrected Total	41	59.1766980			

R-Square	C.V.	Root MSE	M_CP Mean
1.000000	0	0	6.55100

Apéndice N°2.2.

Dependent Variable: **Media del contenido de PC del forraje.**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	2.76781796	0.197770128	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	2.62036857	2.62036857	99999.99	0.0001
CONC	1	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC	1	0.00000000	0.00000000	99999.99	0.0001
NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*NIV	2	0.00000000	0.00000000	99999.99	0.0001
CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	2.76781796			

R-Square C.V. Root MSE M_PCP Mean
1.000000 0 0 1.44961

Apéndice N°2.3.

Dependent Variable: **Media del contenido de ENi del forraje.**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	3.53985357	0.25284668	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	3.35127568	3.35127568	99999.99	0.0001
CONC	1	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC	1	0.00000000	0.00000000	99999.99	0.0001
NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*NIV	2	0.00000000	0.00000000	99999.99	0.0001
CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	3.53985357			

R-Square C.V. Root MSE M_MCP Mean
1.000000 0 0 8.24402

Apéndice N°2.4.

Dependent Variable: **Media de la FDA de la pastura**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	9.57407349	0.68386239	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	9.06403585	9.06403585	99999.99	0.0001
CONC	1	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC	1	0.00000000	0.00000000	99999.99	0.0001
NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*NIV	2	0.00000000	0.00000000	99999.99	0.0001
CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	9.57407349			

R-Square	C.V.	Root MSE	M_FDAP Mean
1.000000	0	0	2.23060

Apéndice N°2.5.

Dependent Variable: **Media de la FDN de la pastura**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	16.2913058	1.1636647	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	15.4234225	15.4234225	99999.99	0.0001
CONC	1	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC	1	0.00000000	0.00000000	99999.99	0.0001
NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*NIV	2	0.00000000	0.00000000	99999.99	0.0001
CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	16.2913058			

R-Square	C.V.	Root MSE	M_FDNP Mean
1.000000	0	0	3.66635

Apéndice N°2.6.

Dependent Variable: **Media contenido CNE de la pastura**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	0.18278097	0.01305578	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	0.17304372	0.17304372	99999.99	0.0001
CONC	1	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC	1	0.00000000	0.00000000	99999.99	0.0001
NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*NIV	2	0.00000000	0.00000000	99999.99	0.0001
CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	0.18278097			

R-Square C.V. Root MSE M_CNEP Mean
1.000000 0 0 0.36275

Apéndice N°2.7.

Dependent Variable: **Media del contenido de cenizas de la pastura.**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	1.70931548	0.12209396	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	1.61825546	1.61825546	99999.99	0.0001
CONC	1	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC	1	0.00000000	0.00000000	99999.99	0.0001
NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*NIV	2	0.00000000	0.00000000	99999.99	0.0001
CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	1.70931548			

R-Square C.V. Root MSE M_CEP Mean
1.000000 0 0 0.85446

Apéndice N°2.8.

Dependent Variable: Media del ME de la pastura

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	0.06630180	0.00473584	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	0.06276972	0.06276972	99999.99	0.0001
CONC	1	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC	1	0.00000000	0.00000000	99999.99	0.0001
NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*NIV	2	0.00000000	0.00000000	99999.99	0.0001
CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	0.06630180			

R-Square 1.000000 C.V. 0 Root MSE 0 M_EEP Mean 0.21779

Apéndice N°2.9.

Dependent Variable: Media de la MOD de la pastura

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	2.76781796	0.19770128	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	2.62036857	2.62036857	99999.99	0.0001
CONC	1	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC	1	0.00000000	0.00000000	99999.99	0.0001
NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*NIV	2	0.00000000	0.00000000	99999.99	0.0001
CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
PAST*CONC*NIV	2	0.00000000	0.00000000	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	2.76781796			

R-Square 1.000000 C.V. 0 Root MSE 0 M_MOD Mean 1.44961

Apéndice N°3. Resumen de ANOVAS para los resultados de ensilaje.

Apéndice N°3.1.

Dependent Variable: **Media del consumo de ensilaje**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	18.4153437	1.31538170	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	1.89642796	1.89642796	99999.99	0.0001
CONC	1	0.51979512	0.51979512	99999.99	0.0001
PAST*CONC	1	0.61027758	0.61027758	99999.99	0.0001
NIV	2	8.62823575	4.31411787	99999.99	0.0001
PAST*NIV	2	3.98241094	1.99120547	99999.99	0.0001
CONC*NIV	2	0.07304239	0.03652119	99999.99	0.0001
PAST*CONC*NIV	2	0.95582408	0.47791204	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	18.4153437			

R-Square	C.V.	Root MSE	M_CS Mean
1.000000	0	0	10.1536

Apéndice N°3.2.

Dependent Variable: **Media del contenido de proteína cruda del ensilaje**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	0.10655398	0.00761100	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	0.01123886	0.01123886	99999.99	0.0001
CONC	1	0.00289173	0.00289173	99999.99	0.0001
PAST*CONC	1	0.00344184	0.00344184	99999.99	0.0001
NIV	2	0.04962184	0.02481092	99999.99	0.0001
PAST*NIV	2	0.02322201	0.01161101	99999.99	0.0001
CONC*NIV	2	0.00032401	0.00016200	99999.99	0.0001
PAST*CONC*NIV	2	0.00585175	0.00292587	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	0.10655398			

R-Square	C.V.	Root MSE	M_PCS Mean
1.000000	0	0	0.80983

Apéndice N°3.3.

Dependent Variable: **Media de ENl en el ensilaje**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	39.1051055	2.7932218	99999.99	0.0001
ELOQ	3	0.0000000	0.0000000	99999.99	0.0001
PAST	1	3.9557310	3.9557310	99999.99	0.0001
CONC	1	1.1914737	1.1914737	99999.99	0.0001
PAST*CONC	1	1.3683645	1.3683645	99999.99	0.0001
NIV	2	18.1420721	9.0710361	99999.99	0.0001
PAST*NIV	2	8.6080627	4.3040313	99999.99	0.0001
CONC*NIV	2	0.1535565	0.0767782	99999.99	0.0001
PAST*CONC*NIV	2	1.9410195	0.9705098	99999.99	0.0001
Error	27	0.0000000	0.0000000		
Corrected Total	41	39.1051055			

R-Square C.V. Root MSE M_MCS Mean
1.000000 0 0 14.9226

Apéndice N°3.4.

Dependent Variable: **Media de la FDA del ensilaje**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	1.76110418	0.12579316	99999.99	0.0001
ELOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	0.18677114	0.18677114	99999.99	0.0001
CONC	1	0.04319718	0.04319718	99999.99	0.0001
PAST*CONC	1	0.05287914	0.05287914	99999.99	0.0001
NIV	2	0.83831386	0.41915693	99999.99	0.0001
PAST*NIV	2	0.36958995	0.18479497	99999.99	0.0001
CONC*NIV	2	0.00714158	0.00357079	99999.99	0.0001
PAST*CONC*NIV	2	0.09840681	0.04920340	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	1.76110418			

R-Square C.V. Root MSE M_FDAS Mean
1.000000 0 0 3.09193

Apéndice N°3.5.

Dependent Variable: **Media de la FDN del ensilaje**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	7.62754011	0.54482429	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	0.86056001	0.86056001	99999.99	0.0001
CONC	1	0.22552319	0.22552319	99999.99	0.0001
PAST*CONC	1	0.22331489	0.22331489	99999.99	0.0001
NIV	2	3.50155085	1.75077543	99999.99	0.0001
PAST*NIV	2	1.63873058	0.81936529	99999.99	0.0001
CONC*NIV	2	0.03453635	0.01726818	99999.99	0.0001
PAST*CONC*NIV	2	0.41421382	0.20710691	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	7.62754011			

R-Square C.V. Root MSE M_FDNS Mean
1.000000 0 0 5.77773

Apéndice N°3.6.

Dependent Variable: **Media del CNE del ensilaje**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	0.61995683	0.04428263	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	0.04226547	0.04226547	99999.99	0.0001
CONC	1	0.01522377	0.01522377	99999.99	0.0001
PAST*CONC	1	0.03085499	0.03085499	99999.99	0.0001
NIV	2	0.30616339	0.15308170	99999.99	0.0001
PAST*NIV	2	0.13721250	0.06860625	99999.99	0.0001
CONC*NIV	2	0.00398576	0.00199288	99999.99	0.0001
PAST*CONC*NIV	2	0.02582149	0.01291075	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	0.61995683			

R-Square C.V. Root MSE M_CNES Mean
1.000000 0 0 2.53996

Apéndice N°3.7.

Dependent Variable: **Media de cenizas en el ensilaje**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	0.08147478	0.00581963	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	0.00832543	0.00832543	99999.99	0.0001
CONC	1	0.00193938	0.00193938	99999.99	0.0001
PAST*CONC	1	0.00241209	0.00241209	99999.99	0.0001
NIV	2	0.03844449	0.01922224	99999.99	0.0001
PAST*NIV	2	0.01763513	0.00881757	99999.99	0.0001
CONC*NIV	2	0.00027625	0.00013812	99999.99	0.0001
PAST*CONC*NIV	2	0.00501910	0.00250955	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	0.08147478			

R-Square C.V. Root MSE M_CES Mean
1.000000 0 0 0.69888

Apéndice N°3.8.

Dependent Variable: **Media del EE del ensilaje**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	0.01805271	0.00128948	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	0.00421464	0.00421464	99999.99	0.0001
CONC	1	0.00036746	0.00036746	99999.99	0.0001
PAST*CONC	1	0.00190476	0.00190476	99999.99	0.0001
NIV	2	0.00281690	0.00140845	99999.99	0.0001
PAST*NIV	2	0.00200088	0.00100044	99999.99	0.0001
CONC*NIV	2	0.00515872	0.00257936	99999.99	0.0001
PAST*CONC*NIV	2	0.00048974	0.00024487	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	0.01805271			

R-Square C.V. Root MSE M_EES Mean
1.000000 0 0 0.32578

Apéndice N°3.2.

Dependent Variable: Media de la MOD del ensilaje

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	8.96663654	0.64047404	99999.99	0.0001
BLOQ	3	0.00000000	0.00000000	99999.99	0.0001
PAST	1	0.89775540	0.89775540	99999.99	0.0001
CONC	1	0.25359028	0.25359028	99999.99	0.0001
PAST*CONC	1	0.29190266	0.29190266	99999.99	0.0001
NIV	2	4.23197489	2.11598745	99999.99	0.0001
PAST*NIV	2	1.94027803	0.97013901	99999.99	0.0001
CONC*NIV	2	0.03789252	0.01894626	99999.99	0.0001
PAST*CONC*NIV	2	0.46130366	0.23065183	99999.99	0.0001
Error	27	0.00000000	0.00000000		
Corrected Total	41	8.96663654			
R-Square		C.V.	Root MSE	MOS Mean	
1.000000		0	0	7.08434	

Apéndice N°4. Resumen de ANOVAS de los resultados obtenidos para el concentrado.

Apéndice N°4.1

Dependent Variable: Media del consumo de concentrado

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	162.424757	11.601768	46.39	0.0001
BLOQ	3	0.633658	0.211219	0.84	0.4815
PAST	1	0.183058	0.183058	0.73	0.3998
CONC	1	3.443975	3.443975	13.77	0.0009
PAST*CONC	1	0.295680	0.295680	1.18	0.2865
NIV	2	142.139016	71.069508	284.17	0.0001
PAST*NIV	2	0.740031	0.370016	1.48	0.2456
CONC*NIV	2	3.259389	1.629694	6.52	0.0049
PAST*CONC*NIV	2	0.122902	0.061451	0.25	0.7839
Error	27	6.752532	0.250094		
Corrected Total	41	169.177288			
R-Square		C.V.	Root MSE	MOS Mean	
0.960056		10.20553	0.50009	4.89830	

Apéndice N°4.2.

Dependent Variable: **Media de PC del concentrado**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	7.02929973	0.50209284	45.85	0.0001
BLOQ	3	0.02872676	0.00957559	0.87	0.4666
PAST	1	0.00751597	0.00751597	0.69	0.4147
CONC	1	0.19225731	0.19225731	17.56	0.0003
PAST*CONC	1	0.01281554	0.01281554	1.17	0.2889
NIV	2	6.07498979	3.03749490	277.36	0.0001
PAST*NIV	2	0.03327395	0.01663697	1.52	0.2370
CONC*NIV	2	0.15378283	0.07689142	7.02	0.0035
PAST*CONC*NIV	2	0.00547295	0.00273647	0.25	0.7807
Error	27	0.29568643	0.01095135		
Corrected Total	41	7.32498616			

R-Square	C.V.	Root MSE	M_PCR Mean
0.959633	10.33258	0.10465	1.01280

Apéndice N°4.3.

Dependent Variable: **Media de ENI del concentrado**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	517.093185	36.935227	47.55	0.0001
BLOQ	3	1.987147	0.662382	0.85	0.4774
PAST	1	0.562407	0.562407	0.72	0.4023
CONC	1	13.137733	13.137733	16.91	0.0003
PAST*CONC	1	0.915011	0.915011	1.18	0.2874
NIV	2	449.102382	224.551191	289.07	0.0001
PAST*NIV	2	2.316259	1.158129	1.49	0.2431
CONC*NIV	2	10.943944	5.471972	7.04	0.0035
PAST*CONC*NIV	2	0.381804	0.190902	0.25	0.7838
Error	27	20.973560	0.776799		
Corrected Total	41	538.066745			

R-Square	C.V.	Root MSE	M_MCR Mean
0.961021	10.12802	0.88136	8.70221

Apéndice N°4.4.

Dependent Variable: **Media de la FDA del concentrado**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	1.17782813	0.08413058	34.99	0.0001
BLOQ	3	0.00537970	0.00179323	0.75	0.5342
PAST	1	0.00198519	0.00198519	0.83	0.3716
CONC	1	0.00298033	0.00298033	1.24	0.2754
PAST*CONC	1	0.00295096	0.00295096	1.23	0.2777
NIV	2	1.09198403	0.54599202	227.06	0.0001
PAST*NIV	2	0.00643850	0.00321925	1.34	0.2790
CONC*NIV	2	0.00942808	0.00471404	1.96	0.1603
PAST*CONC*NIV	2	0.00119286	0.00059643	0.25	0.7821
Error	27	0.06492367	0.00240458		
Corrected Total	41	1.24275180			

R-Square	C.V.	Root MSE	M_FDAR Mean
0.947758	11.33973	0.04904	0.43243

Apéndice N°4.5.

Dependent Variable: **Media de la FDN del concentrado**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	15.8350468	1.1310748	62.50	0.0001
BLOQ	3	0.0487445	0.0162482	0.90	0.4551
PAST	1	0.0123096	0.0123096	0.68	0.4168
CONC	1	0.4793172	0.4793172	26.48	0.0001
PAST*CONC	1	0.0204189	0.0204189	1.13	0.2976
NIV	2	13.7655602	6.8827801	380.31	0.0001
PAST*NIV	2	0.0558179	0.0279089	1.54	0.2322
CONC*NIV	2	0.2991808	0.1495904	8.27	0.0016
PAST*CONC*NIV	2	0.0088980	0.0044490	0.25	0.7838
Error	27	0.4886444	0.0180979		
Corrected Total	41	16.3236913			

R-Square	C.V.	Root MSE	M_FDNR Mean
0.970065	8.943271	0.13453	1.50424

Apéndice N°4.6.

Dependent Variable: Media del consumo de CNE del concentrado

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	22.8232755	1.6302340	51.58	0.0001
BLOQ	3	0.0066091	0.0288697	0.91	0.4476
PAST	1	0.0198333	0.0198333	0.63	0.4352
CONC	1	1.4152107	1.4152107	44.77	0.0001
PAST*CONC	1	0.0345708	0.0345708	1.09	0.3049
NIV	2	18.5903882	9.2951941	294.08	0.0001
PAST*NIV	2	0.0958784	0.0479392	1.52	0.2375
CONC*NIV	2	0.6742169	0.3371095	10.67	0.0004
PAST*CONC*NIV	2	0.0149457	0.0074728	0.24	0.7911
Error	27	0.8534040	0.0316076		
Corrected Total	41	23.6766795			

R-Square C.V. Root MSE M_CER Mean
0.963956 10.05554 0.17779 1.76803

Apéndice N°4.7.

Dependent Variable: Media de la ceniza del concentrado

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	0.93424206	0.06673158	38.47	0.0001
BLOQ	3	0.00405160	0.00135053	0.78	0.5163
PAST	1	0.00135182	0.00135182	0.78	0.3852
CONC	1	0.00238343	0.00238343	1.37	0.2514
PAST*CONC	1	0.00208652	0.00208652	1.20	0.2825
NIV	2	0.84899017	0.42449509	244.70	0.0001
PAST*NIV	2	0.00481511	0.00240756	1.39	0.2669
CONC*NIV	2	0.01311849	0.00655925	3.78	0.0357
PAST*CONC*NIV	2	0.00085023	0.00042511	0.25	0.7844
Error	27	0.04683927	0.00173479		
Corrected Total	41	0.98108133			

R-Square C.V. Root MSE M_CER Mean
0.952258 10.93881 0.04165 0.38076

Apéndice N°4.8.

Dependent Variable: **Media del EE del concentrado**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	0.74005554	0.05286111	50.25	0.0001
BLOQ	3	0.00148265	0.00049422	0.47	0.7058
PAST	1	0.00117772	0.00117772	1.12	0.2994
CONC	1	0.36772355	0.36772355	349.54	0.0001
PAST*CONC	1	0.00131709	0.00131709	1.25	0.2730
NIV	2	0.35828099	0.17914049	170.28	0.0001
PAST*NIV	2	0.00192889	0.00096445	0.92	0.4119
CONC*NIV	2	0.02850259	0.01425130	13.55	0.0001
PAST*CONC*NIV	2	0.00076676	0.00038338	0.36	0.6980
Error	27	0.02840454	0.00105202		
Corrected Total	41	0.76846008			

R-Square	C.V.	Root MSE	M_EER Mean
0.963037	13.05898	0.03243	0.24837

Apéndice N°4.9.

Dependent Variable: **Media de la MOD del concentrado**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	136.073039	9.719503	54.96	0.0001
BLOQ	3	0.485246	0.161749	0.91	0.4470
PAST	1	0.112698	0.112698	0.64	0.4317
CONC	1	6.254581	6.254581	35.37	0.0001
PAST*CONC	1	0.199839	0.199839	1.13	0.2972
NIV	2	114.369146	57.184573	323.36	0.0001
PAST*NIV	2	0.551993	0.275996	1.56	0.2284
CONC*NIV	2	3.344551	1.672275	9.46	0.0008
PAST*CONC*NIV	2	0.088807	0.044403	0.25	0.7798
Error	27	4.774807	0.176845		
Corrected Total	41	140.847846			

R-Square	C.V.	Root MSE	M_MOR Mean
0.966100	9.633527	0.42053	4.36527

Apéndice N°5. Resumen de ANOVAS de los resultado de producción y composición de la leche.

Apéndice N°5.1.

Dependent Variable: **Media Producción de Leche**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	447.477028	29.831802	5.88	0.0001
BLOQ	3	23.637636	7.879212	1.55	0.2201
PAST	1	24.537901	24.537901	4.83	0.0352
CONC	1	24.005165	24.005165	4.73	0.0372
PAST*CONC	1	4.341140	4.341140	0.86	0.3620
NIV	2	124.403399	62.201700	12.25	0.0001
PAST*NIV	2	0.900285	0.450142	0.09	0.9154
CONC*NIV	2	38.799979	19.399989	3.82	0.0325
PAST*CONC*NIV	2	7.043491	3.521746	0.69	0.5070
CLECH	1	36.523293	36.523293	7.20	0.0115
Error	32	162.429747	5.075930		
Corrected Total	47	609.906775			

R-Square	C.V.	Root MSE	MLECH Mean
0.733681	8.981471	2.25298	25.0848

Apéndice N°5.2.

Dependent Variable: **Media producción de leche corregida por grasa**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	253.943450	16.9295630	3.55	0.0013
BLOQ	3	28.1792820	9.3930940	1.97	0.1384
PAST	1	15.6738206	15.6738206	3.29	0.0792
CONC	1	17.3619048	17.3619048	3.64	0.0654
PAST*CONC	1	4.3235976	4.3235976	0.91	0.3482
NIV	2	32.9329820	16.4664910	3.45	0.0439
PAST*NIV	2	4.6556219	2.3278110	0.49	0.6183
CONC*NIV	2	37.2583400	18.6291700	3.91	0.0303
PAST*CONC*NIV	2	5.5841933	2.7920966	0.59	0.5627
CLCG	1	16.1000699	16.1000699	3.38	0.0755
Error	32	152.608412	4.7690130		
Corrected Total	47	406.551862			

R-Square	C.V.	Root MSE	MLCG Mean
0.624627	9.423559	2.18381	23.1739

Apéndice N°5.3.

Dependent Variable: **Media de producción de proteína**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	0.49221317	0.03281421	6.66	0.0001
BLOQ	3	0.02415947	0.00805316	1.63	0.2008
PAST	1	0.02548141	0.02548141	5.17	0.0298
CONC	1	0.03773359	0.03773359	7.66	0.0093
PAST*CONC	1	0.01247981	0.01247981	2.53	0.1213
NIV	2	0.11679833	0.05839916	11.86	0.0001
PAST*NIV	2	0.00265221	0.00132611	0.27	0.7657
CONC*NIV	2	0.05328288	0.02664144	5.41	0.0095
PAST*CONC*NIV	2	0.00294764	0.00147382	0.30	0.7435
CGPROT	1	0.07808212	0.07808212	15.85	0.0004
Error	32	0.15763578	0.00492612		
Corrected Total	47	0.64984895			

R-Square	C.V.	Root MSE	MGPROT Mean
0.757427	9.324134	0.07019	0.75274

Apéndice N°5.4.

Dependent Variable: **Media del porcentaje de proteína en leche**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	1.21929220	0.08128615	11.18	0.0001
BLOQ	3	0.00564929	0.00188310	0.26	0.8543
PAST	1	0.00512239	0.00512239	0.70	0.4075
CONC	1	0.02944069	0.02944069	4.05	0.0527
PAST*CONC	1	0.02433205	0.02433205	3.35	0.0767
NIV	2	0.00000485	0.00000243	0.00	0.9997
PAST*NIV	2	0.01712443	0.00856221	1.18	0.3210
CONC*NIV	2	0.03814694	0.01907347	2.62	0.0881
PAST*CONC*NIV	2	0.00845264	0.00422632	0.58	0.5649
CPPROT	1	0.70115649	0.70115649	96.45	0.0001
Error	32	0.23263625	0.00726988		
Corrected Total	47	1.45192845			

R-Square	C.V.	Root MSE	MPPROT Mean
0.839774	2.838413	0.08526	3.00392

Apéndice N°5.5.

Dependent Variable: **Media de producción de grasa**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	0.32424002	0.02161600	2.26	0.0261
BLOQ	3	0.06166312	0.02055437	2.15	0.1137
PAST	1	0.02378415	0.02378415	2.48	0.1248
CONC	1	0.01898492	0.01898492	1.98	0.1687
PAST*CONC	1	0.00729065	0.00729065	0.76	0.3894
NIV	2	0.00986696	0.00493348	0.52	0.6022
PAST*NIV	2	0.01248048	0.00624024	0.65	0.5279
CONC*NIV	2	0.05903980	0.02951990	3.08	0.0596
PAST*CONC*NIV	2	0.00867812	0.00433906	0.45	0.6396
CGGRAS	1	0.04803482	0.04803482	5.02	0.0322
Error	32	0.30639723	0.00957491		
Corrected Total	47	0.63063725			

R-Square	C.V.	Root MSE	MGGRAS Mean
0.514147	11.17032	0.09785	0.87600

Apéndice N°5.6.

Dependent Variable: **Media del porcentaje de grasa en leche**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	3.64485927	0.24299062	2.25	0.0268
BLOQ	3	0.32862769	0.10954256	1.01	0.3999
PAST	1	0.00167709	0.00167709	0.02	0.9017
CONC	1	0.01774891	0.01774891	0.16	0.6881
PAST*CONC	1	0.01490822	0.01490822	0.14	0.7129
NIV	2	1.34110587	0.67055293	6.20	0.0053
PAST*NIV	2	0.04049873	0.02024936	0.19	0.8302
CONC*NIV	2	0.07398425	0.03699213	0.34	0.7129
PAST*CONC*NIV	2	0.01759674	0.00879837	0.08	0.9221
CPGRAS	1	1.19015173	1.19015173	11.00	0.0023
Error	32	3.46161691	0.10817553		
Corrected Total	47	7.10647619			

R-Square	C.V.	Root MSE	MPGRAS Mean
0.512893	9.340065	0.32890	3.52139

Apéndice N°5.7.

Dependent Variable: **Media de producción de lactosa**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	1.30861744	0.08724116	6.09	0.0001
BLOQ	3	0.05592830	0.01864277	1.30	0.2906
PAST	1	0.09711302	0.09711302	6.78	0.0138
CONC	1	0.08130785	0.08130785	5.68	0.0233
PAST*CONC	1	0.01052971	0.01052971	0.74	0.3975
NIV	2	0.32341929	0.16170964	11.30	0.0002
PAST*NIV	2	0.00329608	0.00164804	0.12	0.8916
CONC*NIV	2	0.14826445	0.07413222	5.18	0.0113
PAST*CONC*NIV	2	0.01622217	0.00811109	0.57	0.5730
CGLACT	1	0.08987913	0.08987913	6.28	0.0175
Error	32	0.45806895	0.01431465		
Corrected Total	47	1.76668639			

R-Square	C.V.	Root MSE	MGLACT Mean
0.740719	9.962099	0.11964	1.20099

Apéndice N°5.8.

Dependent Variable: **Media del porcentaje de lactosa en leche**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	1.14022032	0.07601469	11.78	0.0001
BLOQ	3	0.03072767	0.01024256	1.59	0.2116
PAST	1	0.09016019	0.09016019	13.97	0.0007
CONC	1	0.02779053	0.02779053	4.31	0.0461
PAST*CONC	1	0.00007554	0.00007554	0.01	0.9145
NIV	2	0.02813578	0.01406789	2.18	0.1295
PAST*NIV	2	0.00799789	0.00399894	0.62	0.5444
CONC*NIV	2	0.11774940	0.05887470	9.13	0.0007
PAST*CONC*NIV	2	0.00304854	0.00152427	0.24	0.7909
CPLACT	1	0.55462468	0.55462468	85.96	0.0001
Error	32	0.20645654	0.00645177		
Corrected Total	47	1.34667687			

R-Square	C.V.	Root MSE	MPLACT Mean
0.846692	1.681124	0.08032	4.77793

Apéndice N°5.9.

Dependent Variable: **Media de producción de sólidos no grasos**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	3.87202450	0.25813497	6.18	0.0001
BLOQ	3	0.18073403	0.06024468	1.44	0.2485
PAST	1	0.25538478	0.25538478	6.12	0.0189
CONC	1	0.26082736	0.26082736	6.25	0.0177
PAST*CONC	1	0.05391307	0.05391307	1.29	0.2642
NIV	2	0.96371904	0.48185952	11.54	0.0002
PAST*NIV	2	0.01296716	0.00648358	0.16	0.8568
CONC*NIV	2	0.44035930	0.22017965	5.28	0.0105
PAST*CONC*NIV	2	0.04324766	0.02162383	0.52	0.6006
CGSNG	1	0.35341051	0.35341051	8.47	0.0065
Error	32	1.33568053	0.04174002		
Corrected Total	47	5.20770503			

R-Square C.V. Root MSE MGSNG Mean
0.743518 9.594587 0.20430 2.12936

Apéndice N°5.10.

Dependent Variable: **Media del porcentaje de SNG**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	3.84533228	0.25635549	16.05	0.0001
BLOQ	3	0.06108631	0.02036210	1.27	0.2997
PAST	1	0.12492353	0.12492353	7.82	0.0087
CONC	1	0.11082073	0.11082073	6.94	0.0129
PAST*CONC	1	0.02328367	0.02328367	1.46	0.2362
NIV	2	0.02672554	0.01336277	0.84	0.4425
PAST*NIV	2	0.04978592	0.02489296	1.56	0.2260
CONC*NIV	2	0.23591771	0.11795885	7.38	0.0023
PAST*CONC*NIV	2	0.00647292	0.00323646	0.20	0.8176
CPSNG	1	2.23891350	2.23891350	140.16	0.0001
Error	32	0.51117367	0.01597418		
Corrected Total	47	4.35650595			

R-Square C.V. Root MSE MPSNG Mean
0.882664 1.490112 0.12639 8.48185

Apéndice N°5.11.

Dependent Variable: **Media de la producción de caseína**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	0.37413388	0.02494226	8.10	0.0001
BLOQ	3	0.02294518	0.00764839	2.48	0.0785
PAST	1	0.02846825	0.02846825	9.25	0.0047
CONC	1	0.01988129	0.01988129	6.46	0.0161
PAST*CONC	1	0.00820008	0.00820008	2.66	0.1125
NIV	2	0.08319772	0.04159886	13.51	0.0001
PAST*NIV	2	0.00333710	0.00166855	0.54	0.5868
CONC*NIV	2	0.03182835	0.01591418	5.17	0.0113
PAST*CONC*NIV	2	0.00097883	0.00048941	0.16	0.8537
CGCAS	1	0.06259555	0.06259555	20.33	0.0001
Error	32	0.09851514	0.00307860		
Corrected Total	47	0.47264902			

R-Square	C.V.	Root MSE	MGCAS Mean
0.791568	9.748840	0.05549	0.56915

Apéndice N°5.12.

Dependent Variable: **Media del porcentaje de caseína**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	1.29374017	0.08624934	11.90	0.0001
BLOQ	3	0.04021955	0.01340652	1.85	0.1580
PAST	1	0.04521945	0.04521945	6.24	0.0178
CONC	1	0.05963202	0.05963202	8.23	0.0072
PAST*CONC	1	0.02524525	0.02524525	3.48	0.0712
NIV	2	0.00838722	0.00419361	0.58	0.5664
PAST*NIV	2	0.06164583	0.03082292	4.25	0.0230
CONC*NIV	2	0.04457443	0.02228721	3.08	0.0600
PAST*CONC*NIV	2	0.00238382	0.00119191	0.16	0.8491
CPCAS	1	0.59149417	0.59149417	81.61	0.0001
Error	32	0.23191908	0.00724747		
Corrected Total	47	1.52565925			

R-Square	C.V.	Root MSE	MPCAS Mean
0.847988	3.757139	0.08513	2.26588

Apéndice N°5.13.

Dependent Variable: **Media del recuento de células somáticas**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	2794395.24	186293.02	1.33	0.2421
BLOQ	3	810598.84	270199.61	1.93	0.1449
PAST	1	540846.79	540846.79	3.86	0.0582
CONC	1	165400.52	165400.52	1.18	0.2854
PAST*CONC	1	944.36	944.36	0.01	0.9351
NIV	2	46427.08	23213.54	0.17	0.8481
PAST*NIV	2	26039.01	13019.50	0.09	0.9115
CONC*NIV	2	582485.63	291242.82	2.08	0.1417
PAST*CONC*NIV	2	259398.46	129699.23	0.93	0.4067
CRCS	1	1070876.61	1070876.61	7.64	0.0094
Error	32	4485008.72	140156.52		
Corrected Total	47	7279403.96			

R-Square	C.V.	Root MSE	MRCS Mean
0.383877	134.2432	374.375	278.878

Apéndice N°6. Resumen de regresiones lineales para producción de leche y composición estimadas para asignación de pastura 10 Kg/v/d y concentrado AA.

Modelo lineal

Apéndice N°6.1.

Dependent Variable: **Producción de leche**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	379.20964	379.20964	42.840	0.0001
Error	58	513.40666	8.85184		
C Total	59	892.61630			

Root MSE	2.97520	R-square	0.4248
Dep Mean	24.73817	Adj R-sq	0.4149
C.V.	12.02678		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	18.580167	1.01622564	18.284	0.0001
NIV	1	1.026333	0.15680702	6.545	0.0001

Apéndice N°6.2.Dependent Variable: **Producción de LCG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	231.31290	231.31290	27.736	0.0001
Error	58	483.71260	8.33987		
C Total	59	715.02550			

Root MSE	2.88788	R-square	0.3235
Dep Mean	22.52517	Adj R-sq	0.3118
C.V.	12.82070		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	17.715667	0.98640007	17.960	0.0001
NIV	1	0.801583	0.15220484	5.266	0.0001

Apéndice N°6.4.Dependent Variable: **Porcentaje de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.00306	0.00306	0.076	0.7840
Error	58	2.34210	0.04038		
C Total	59	2.34516			

Root MSE	0.20095	R-square	0.0013
Dep Mean	2.97200	Adj R-sq	-0.0159
C.V.	6.76145		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	2.954500	0.06863757	43.045	0.0001
NIV	1	0.002917	0.01059101	0.275	0.7840

Apéndice N°6.4.Dependent Variable: **Producción de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.37908	0.37908	45.512	0.0001
Error	58	0.48310	0.00833		
C Total	59	0.86218			

Root MSE	0.09126	R-square	0.4397
Dep Mean	0.73415	Adj R-sq	0.4300
C.V.	12.43135		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.539450	0.03117285	17.305	0.0001
NIV	1	0.032450	0.00481007	6.746	0.0001

Apéndice N°6.5.Dependent Variable: **Porcentaje de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.54289	0.54289	4.942	0.0301
Error	58	6.37081	0.10984		
C Total	59	6.91370			

Root MSE	0.33142	R-square	0.0785
Dep Mean	3.41483	Adj R-sq	0.0626
C.V.	9.70541		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	3.647833	0.11320267	32.224	0.0001
NIV	1	-0.038833	0.01746755	-2.223	0.0301

Apéndice N°6.6.Dependent Variable: **Producción de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.24430	0.24430	15.771	0.0002
Error	58	0.89843	0.01549		
C Total	59	1.14273			

Root MSE	0.12446	R-square	0.2138
Dep Mean	0.84202	Adj R-sq	0.2002
C.V.	14.78114		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.685717	0.04251107	16.130	0.0001
NIV	1	0.026050	0.00655960	3.971	0.0002

Apéndice N°6.7.Dependent Variable: **Porcentaje de lactosa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.08372	0.08372	1.968	0.1660
Error	58	2.46784	0.04255		
C Total	59	2.55156			

Root MSE	0.20627	R-square	0.0328
Dep Mean	4.75800	Adj R-sq	0.0161
C.V.	4.33531		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	4.666500	0.07045595	66.233	0.0001
NIV	1	0.015250	0.01087159	1.403	0.1660

Apéndice N°6.8.Dependent Variable: **Producción de lactosa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	1.01538	1.01538	39.573	0.0001
Error	58	1.48819	0.02566		
C Total	59	2.50357			

Root MSE	0.16018	R-square	0.4056
Dep Mean	1.17900	Adj R-sq	0.3953
C.V.	13.58630		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.860350	0.05471275	15.725	0.0001
NIV	1	0.053108	0.00844236	6.291	0.0001

Apéndice N°6.9.Dependent Variable: **Porcentaje de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.11881	0.11881	0.977	0.3270
Error	58	7.05259	0.12160		
C Total	59	7.17140			

Root MSE	0.34871	R-square	0.0166
Dep Mean	8.43000	Adj R-sq	-0.0004
C.V.	4.13650		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	8.321000	0.11910602	69.862	0.0001
NIV	1	0.018167	0.01837846	0.988	0.3270

Apéndice N°6.10.

Dependent Variable: **Producción de SNG**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	3.09525	3.09525	43.816	0.0001
Error	58	4.09726	0.07064		
C Total	59	7.19251			

Root MSE	0.26579	R-square	0.4303
Dep Mean	2.08637	Adj R-sq	0.4205
C.V.	12.73920		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	1.530017	0.09078335	16.853	0.0001
NIV	1	0.092725	0.01400817	6.619	0.0001

Apéndice N°6.11.

Dependent Variable: **Porcentaje de caseína**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.00420	0.00420	0.141	0.7088
Error	58	1.73014	0.02983		
C Total	59	1.73434			

Root MSE	0.17271	R-square	0.0024
Dep Mean	2.20900	Adj R-sq	-0.0148
C.V.	7.81863		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	2.229500	0.05899289	37.793	0.0001
NIV	1	-0.003417	0.00910280	-0.375	0.7088

Apéndice N°6.12.

Dependent Variable: Producción de caseína

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.18320	0.18320	35.626	0.0001
Error	58	0.29825	0.00514		
C Total	59	0.48144			

Root MSE 0.07171 R-square 0.3805
Dep Mean 0.54540 Adj R-sq 0.3698
C.V. 13.14796

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.410050	0.02449327	16.741	0.0001
NIV	1	0.022558	0.00377939	5.969	0.0001

Apéndice N°6.13.

Dependent Variable: Recuento de células somáticas

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	217857.60000	217857.60000	0.578	0.4501
Error	58	21849257.133	376711.32989		
C Total	59	22067114.732			

Root MSE 613.76814 R-square 0.0099
Dep Mean 332.23333 Adj R-sq -0.0072
C.V. 184.74009

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	479.833333	209.64173047	2.289	0.0257
NIV	1	-24.600000	32.34842130	-0.760	0.4501

Apéndice N°7. Resumen de regresiones cuadráticas para producción de leche y composición estimadas para asignación de pastura 10 Kg/v/d y concentrado AA.

Apéndice N°7.1.

Dependent Variable: **Producción de leche**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	420.18309	210.09155	25.348	0.0001
Error	57	472.43320	8.28830		
C Total	59	892.61630			

Root MSE 2.87894 R-square 0.4707
 Dep Mean 24.73817 Adj R-sq 0.4522
 C.V. 11.63765

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	24.423500	2.80604468	8.704	0.0001
NIV	1	-1.311000	1.06213463	-1.234	0.2222
NIV2	1	0.194778	0.08760339	2.223	0.0302

Apéndice N°7.2.

Dependent Variable: **Producción de LCG**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	271.13754	135.56877	17.408	0.0001
Error	57	443.88795	7.78751		
C Total	59	715.02550			

Root MSE 2.79061 R-square 0.3792
 Dep Mean 22.52517 Adj R-sq 0.3574
 C.V. 12.38886

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	23.476500	2.71995084	8.631	0.0001
NIV	1	-1.502750	1.02954668	-1.460	0.1499
NIV2	1	0.192028	0.08491558	2.261	0.0276

Apéndice N°7.3.

Dependent Variable: Porcentaje de proteína

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.01567	0.00783	0.192	0.8261
Error	57	2.32949	0.04087		
C Total	59	2.34516			

Root MSE 0.20216 R-square 0.0067
 Dep Mean 2.97200 Adj R-sq -0.0282
 C.V. 6.80212

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	3.057000	0.19704018	15.515	0.0001
NIV	1	-0.039083	0.07458299	-0.511	0.6116
NIV2	1	0.003417	0.00615150	0.555	0.5809

Apéndice N°7.4.

Dependent Variable: Producción de proteína

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.42376	0.21189	27.550	0.0001
Error	57	0.43840	0.00769		
C Total	59	0.86216			

Root MSE 0.08770 R-square 0.4915
 Dep Mean 0.73415 Adj R sq 0.4737
 C.V. 11.94571

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.732450	0.08547884	8.569	0.0001
NIV	1	-0.044750	0.03235517	-1.383	0.1720
NIV2	1	0.005433	0.00266861	2.411	0.0192

Apéndice N°7.5.Dependent Variable: **Porcentaje de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.57622	0.28811	2.591	0.0837
Error	57	6.33748	0.11118		
C Total	59	6.91370			

Root MSE	0.33344	R-square	0.0833
Dep Mean	3.41483	Adj R-sq	0.0512
C.V.	9.76453		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	3.814500	0.32499936	11.737	0.0001
NIV	1	-0.105500	0.12301767	-0.858	0.3947
NIV2	1	0.005556	0.01014633	0.548	0.5861

Apéndice N°7.6.Dependent Variable: **Producción de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.30686	0.15343	10.463	0.0001
Error	57	0.83587	0.01466		
C Total	59	1.14273			

Root MSE	0.12110	R-square	0.2685
Dep Mean	0.84202	Adj R-sq	0.2429
C.V.	14.38172		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.914050	0.11803028	7.744	0.0001
NIV	1	-0.065283	0.04467642	-1.461	0.1494
NIV2	1	0.007611	0.00368485	2.066	0.0434

Apéndice N°7.7.Dependent Variable: **Porcentaje de lactosa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.23283	0.11642	2.862	0.0654
Error	57	2.31873	0.04068		
C Total	59	2.55156			

Root MSE	0.20169	R-square	0.0913
Dep Mean	4.75800	Adj R-sq	0.0594
C.V.	4.23900		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	5.019000	0.19658459	25.531	0.0001
NIV	1	-0.125750	0.07441054	-1.690	0.0965
NIV2	1	0.011750	0.00613728	1.915	0.0606

Apéndice N°7.8.Dependent Variable: **Producción de lactosa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	1.18752	0.59376	25.717	0.0001
Error	57	1.31605	0.02309		
C Total	59	2.50357			

Root MSE	0.15195	R-square	0.4743
Dep Mean	1.17900	Adj R-sq	0.4559
C.V.	12.88797		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	1.239100	0.14810176	8.367	0.0001
NIV	1	-0.098392	0.05605898	-1.755	0.0846
NIV2	1	0.012625	0.00462367	2.731	0.0084

Apéndice N°7.9.Dependent Variable: **Porcentaje de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.36724	0.18362	1.538	0.2235
Error	57	6.80416	0.11937		
C Total	59	7.17140			

Root MSE	0.34550	R-square	0.0512
Dep Mean	8.43000	Adj R-sq	0.0179
C.V.	4.09847		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	8.776000	0.33675312	26.061	0.0001
NIV	1	-0.163833	0.12746666	-1.285	0.2039
NIV2	1	0.015167	0.01051327	1.443	0.1546

Apéndice N°7.10.Dependent Variable: **Producción de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	3.54556	1.77278	27.708	0.0001
Error	57	3.64695	0.06398		
C Total	59	7.19251			

Root MSE	0.25295	R-square	0.4930
Dep Mean	2.08637	Adj R-sq	0.4752
C.V.	12.12375		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	2.142600	0.24654110	8.691	0.0001
NIV	1	-0.152308	0.09331991	-1.632	0.1082
NIV2	1	0.020419	0.00769690	2.653	0.0103

Apéndice N°7.11.Dependent Variable: **Porcentaje de caseína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.01051	0.00525	0.174	0.8409
Error	57	1.72383	0.03024		
C Total	59	1.73434			

Root MSE	0.17390	R-square	0.0061
Dep Mean	2.20900	Adj R-sq	-0.0288
C.V.	7.87253		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	2.302000	0.16950074	13.581	0.0001
NIV	1	-0.032417	0.06415885	-0.505	0.6153
NIV2	1	0.002417	0.00529173	0.457	0.6496

Apéndice N°7.12.Dependent Variable: **Producción de caseína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.20834	0.10417	21.741	0.0001
Error	57	0.27310	0.00479		
C Total	59	0.48144			

Root MSE	0.06922	R-square	0.4327
Dep Mean	0.54540	Adj R-sq	0.4128
C.V.	12.69144		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.554800	0.06746642	8.223	0.0001
NIV	1	-0.035342	0.02553716	-1.384	0.1718
NIV2	1	0.004825	0.00210627	2.291	0.0257

Apéndice N°7.13.

Dependent Variable: **Recuento de células somáticas**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	572763.23333	286381.61667	0.759	0.4726
Error	57	21494351.5	377093.88596		
C Total	59	22067114.733			

Root MSE 614.07971 R-square 0.0260
 Dep Mean 332.23333 Adj R-sq -0.0082
 C.V. 184.83386

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	-64.000000	598.53086108	-0.107	0.9152
NIV	1	192.933333	226.55389604	0.852	0.3980
NIV2	1	-18.127778	18.68585041	-0.970	0.3361

Apéndice N°8. Resumen de regresiones lineal para producción de leche y composición estimadas para asignación de pastura 10 Kg/v/d y concentrado AL.

Apéndice N°8.1.

Dependent Variable: **Producción de leche**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	61.42962	61.42962	10.694	0.0018
Error	58	333.15927	5.74413		
C Total	59	394.58889			

Root MSE 2.39669 R-square 0.1557
 Dep Mean 24.12467 Adj R-sq 0.1411
 C.V. 9.93461

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	21.646167	0.81862565	26.442	0.0001
NIV	1	0.413083	0.12631668	3.270	0.0018

Apéndice N°8.2.Dependent Variable: **Producción de LCG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	27.73890	27.73890	5.656	0.0207
Error	58	284.47166	4.90468		
C Total	59	312.21057			

Root MSE	2.21465	R-square	0.0888
Dep Mean	22.25150	Adj R-sq	0.0731
C.V.	9.95282		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	20.586000	0.75644769	27.214	0.0001
NIV	1	0.277583	0.11672241	2.378	0.0207

Apéndice N°8.3.Dependent Variable: **Porcentaje de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.02970	0.02970	0.867	0.3557
Error	58	1.98773	0.03427		
C Total	59	2.01743			

Root MSE	0.18512	R-square	0.0147
Dep Mean	2.95833	Adj R-sq	-0.0023
C.V.	6.25774		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	3.012833	0.06323218	47.647	0.0001
NIV	1	-0.009083	0.00975694	-0.931	0.3557

Apéndice N°8.4.Dependent Variable: **Producción de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.04090	0.04090	6.873	0.0112
Error	58	0.34514	0.00595		
C Total	59	0.38603			

Root MSE	0.07714	R-square	0.1059
Dep Mean	0.71293	Adj R-sq	0.0905
C.V.	10.82012		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.648983	0.02634841	24.631	0.0001
NIV	1	0.010658	0.00406565	2.622	0.0112

Apéndice N°8.5.Dependent Variable: **Porcentaje de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.54990	0.54990	2.307	0.1343
Error	58	13.82686	0.23839		
C Total	59	14.37677			

Root MSE	0.48826	R-square	0.0382
Dep Mean	3.50650	Adj R-sq	0.0217
C.V.	13.92432		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	3.741000	0.16677126	22.432	0.0001
NIV	1	-0.039083	0.02573336	-1.519	0.1343

Apéndice N°8.6.Dependent Variable: **Producción de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.02034	0.02034	1.543	0.2192
Error	58	0.76459	0.01318		
C Total	59	0.78493			

Root MSE	0.11482	R-square	0.0259
Dep Mean	0.84013	Adj R-sq	0.0091
C.V.	13.66631		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.795033	0.03921686	20.273	0.0001
NIV	1	0.007517	0.00605129	1.242	0.2192

Apéndice N°8.7.Dependent Variable: **Porcentaje de lactosa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.00784	0.00784	0.253	0.6172
Error	58	1.80018	0.03104		
C Total	59	1.80802			

Root MSE	0.17617	R-square	0.0043
Dep Mean	4.67717	Adj R-sq	-0.0128
C.V.	3.76670		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	4.649167	0.06017515	77.261	0.0001
NIV	1	0.004667	0.00928523	0.503	0.6172

Apéndice N°8.8.Dependent Variable: **Producción de lactosa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.15006	0.15006	10.411	0.0021
Error	58	0.83599	0.01441		
C Total	59	0.98605			

Root MSE	0.12006	R-square	0.1522
Dep Mean	1.12848	Adj R-sq	0.1376
C.V.	10.63879		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	1.005983	0.04100724	24.532	0.0001
NIV	1	0.020417	0.00632756	3.227	0.0021

Apéndice N°8.9.Dependent Variable: **Porcentaje de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.00702	0.00702	0.065	0.8001
Error	58	6.29426	0.10852		
C Total	59	6.30129			

Root MSE	0.32943	R-square	0.0011
Dep Mean	8.33550	Adj R-sq	-0.0161
C.V.	3.95209		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	8.362000	0.11252054	74.315	0.0001
NIV	1	-0.004417	0.01736230	-0.254	0.8001

Apéndice N°8.10.Dependent Variable: **Producción de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.41453	0.41453	9.535	0.0031
Error	58	2.52159	0.04348		
C Total	59	2.93612			

Root MSE	0.20851	R-square	0.1412
Dep Mean	2.01028	Adj R-sq	0.1264
C.V.	10.37208		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	1.806683	0.07121911	25.368	0.0001
NIV	1	0.033933	0.01098935	3.088	0.0031

Apéndice N°8.11.Dependent Variable: **Porcentaje de caseína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.22650	0.22650	6.537	0.0132
Error	58	2.00952	0.03465		
C Total	59	2.23602			

Root MSE	0.18614	R-square	0.1013
Dep Mean	2.18117	Adj R-sq	0.0858
C.V.	8.53381		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	2.331667	0.06357774	36.674	0.0001
NIV	1	-0.025083	0.00981026	-2.557	0.0132

Apéndice N°8.12.Dependent Variable: **Producción de caseína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.00618	0.00618	1.728	0.1939
Error	58	0.20729	0.00357		
C Total	59	0.21346			

Root MSE	0.05978	R-square	0.0289
Dep Mean	0.52473	Adj R-sq	0.0122
C.V.	11.39286		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.499883	0.02041949	24.481	0.0001
NIV	1	0.004142	0.00315080	1.314	0.1939

Apéndice N°8.13.Dependent Variable: **Recuento de células somáticas****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	30580.90000	30580.90000	0.048	0.8270
Error	58	36794208.083	634382.89799		
C Total	59	36824788.983			

Root MSE	796.48157	R-square	0.0008
Dep Mean	403.01667	Adj R-sq	-0.0164
C.V.	197.62993		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	347.716667	272.05024922	1.278	0.2063
NIV	1	9.216667	41.97826481	0.220	0.8270

Apéndice N°9. Resumen de regresiones cuadráticas para producción de leche y composición estimadas para asignación de pastura 10 Kg/v/d y concentrado AL.

Apéndice N°9.1.

Dependent Variable: **Producción de leche**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	79.72064	39.86032	7.216	0.0016
Error	57	314.86825	5.52400		
C Total	59	394.58889			

Root MSE	2.35032	R-square	0.2020
Dep Mean	24.12467	Adj R-sq	0.1740
C.V.	9.74239		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	17.742000	2.29080863	7.745	0.0001
NIV	1	1.974750	0.86710921	2.277	0.0265
NIV2	1	-0.130139	0.07151796	-1.820	0.0741

Apéndice N°9.2.

Dependent Variable: **Producción de LCG**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	43.74781	21.87390	4.644	0.0135
Error	57	268.46276	4.70987		
C Total	59	312.21057			

Root MSE	2.17022	R-square	0.1401
Dep Mean	22.25150	Adj R-sq	0.1100
C.V.	9.75316		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	16.933500	2.11527285	8.005	0.0001
NIV	1	1.738583	0.80066599	2.171	0.0341
NIV2	1	-0.121750	0.06603782	-1.844	0.0704

Apéndice N°9.3.Dependent Variable: **Porcentaje de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.15710	0.07855	2.407	0.0992
Error	57	1.86033	0.03264		
C Total	59	2.01743			

Root MSE	0.18066	R-square	0.0779
Dep Mean	2.95833	Adj R-sq	0.0455
C.V.	6.10675		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	2.687000	0.17608379	15.260	0.0001
NIV	1	0.121250	0.06665065	1.819	0.0741
NIV2	1	-0.010861	0.00549725	-1.976	0.0530

Apéndice N°9.4.Dependent Variable: **Producción de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.08798	0.04399	8.413	0.0006
Error	57	0.29805	0.00523		
C Total	59	0.38603			

Root MSE	0.07231	R-square	0.2279
Dep Mean	0.71293	Adj R-sq	0.2008
C.V.	10.14283		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.450900	0.07048065	6.398	0.0001
NIV	1	0.089892	0.02667810	3.369	0.0014
NIV2	1	-0.006603	0.00220037	-3.001	0.0040

Apéndice N°9.5.Dependent Variable: **Porcentaje de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.55621	0.27811	1.147	0.3248
Error	57	13.82056	0.24247		
C Total	59	14.37677			

Root MSE	0.49241	R-square	0.0387
Dep Mean	3.50650	Adj R-sq	0.0050
C.V.	14.04273		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	3.813500	0.47994019	7.946	0.0001
NIV	1	-0.068083	0.18166535	-0.375	0.7092
NIV2	1	0.002417	0.01498351	0.161	0.8724

Apéndice N°9.6.Dependent Variable: **Producción de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.04397	0.02199	1.691	0.1934
Error	57	0.74095	0.01300		
C Total	59	0.78493			

Root MSE	0.11401	R-square	0.0560
Dep Mean	0.84013	Adj R-sq	0.0229
C.V.	13.57095		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.654700	0.11112716	5.891	0.0001
NIV	1	0.063650	0.04206348	1.513	0.1358
NIV2	1	-0.004678	0.00346934	-1.348	0.1829

Apéndice N°9.7.Dependent Variable: **Porcentaje de lactosa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.29205	0.14603	5.491	0.0066
Error	57	1.51597	0.02660		
C Total	59	1.80802			

Root MSE	0.16308	R-square	0.1615
Dep Mean	4.67717	Adj R-sq	0.1321
C.V.	3.48678		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	4.162500	0.15895309	26.187	0.0001
NIV	1	0.199333	0.06016639	3.313	0.0016
NIV2	1	-0.016222	0.00496244	-3.269	0.0018

Apéndice N°9.8.Dependent Variable: **Producción de lactosa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.25758	0.12879	10.077	0.0002
Error	57	0.72847	0.01278		
C Total	59	0.98605			

Root MSE	0.11305	R-square	0.2612
Dep Mean	1.12848	Adj R-sq	0.2353
C.V.	10.01783		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.706650	0.11018711	6.413	0.0001
NIV	1	0.140150	0.04170766	3.360	0.0014
NIV2	1	-0.009978	0.00343999	-2.901	0.0053

Apéndice N°9.9.Dependent Variable: **Porcentaje de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.79921	0.39960	4.140	0.0210
Error	57	5.50208	0.09653		
C Total	59	6.30129			

Root MSE	0.31069	R-square	0.1268
Dep Mean	8.33550	Adj R-sq	0.0962
C.V.	3.72730		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	7.549500	0.30282214	24.930	0.0001
NIV	1	0.320583	0.11462322	2.797	0.0070
NIV2	1	-0.027083	0.00945396	-2.865	0.0058

Apéndice N°9.10.Dependent Variable: **Producción de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.74570	0.37285	9.702	0.0002
Error	57	2.19042	0.03843		
C Total	59	2.93612			

Root MSE	0.19603	R-square	0.2540
Dep Mean	2.01028	Adj R-sq	0.2278
C.V.	9.75144		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	1.281350	0.19106798	6.706	0.0001
NIV	1	0.244067	0.07232241	3.375	0.0013
NIV2	1	-0.017511	0.00596505	-2.936	0.0048

Apéndice N°9.11.

Dependent Variable: **Porcentaje de caseína**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.26502	0.13251	3.832	0.0274
Error	57	1.97099	0.03458		
C Total	59	2.23602			

Root MSE 0.18595 R-square 0.1185
 Dep Mean 2.18117 Adj R-sq 0.0876
 C.V. 8.52543

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	2.152500	0.18124546	11.876	0.0001
NIV	1	0.046583	0.06860442	0.679	0.4999
NIV2	1	-0.005972	0.00565840	-1.055	0.2957

Apéndice N°9.12.

Dependent Variable: **Producción de caseína**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.02807	0.01404	4.316	0.0180
Error	57	0.18539	0.00325		
C Total	59	0.21346			

Root MSE 0.05703 R-square 0.1315
 Dep Mean 0.52473 Adj R-sq 0.1010
 C.V. 10.86842

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.364800	0.05558619	6.563	0.0001
NIV	1	0.058175	0.02104030	2.765	0.0077
NIV2	1	-0.004503	0.00173537	-2.595	0.0120

Apéndice N°9.13.

Dependent Variable: **Recuento de células somáticas**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	1824966.5333	912483.26667	1.486	0.2349
Error	57	34999822.45	614031.97281		
C Total	59	36824788.983			

Root MSE 783.60192 R-square 0.0496
 Dep Mean 403.01667 Adj R-sq 0.0162
 C.V. 194.43412

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	1570.550000	763.76067859	2.056	0.0443
NIV	1	-479.916667	289.09613293	-1.660	0.1024
NIV2	1	40.761111	23.84424717	1.709	0.0928

Apéndice N°10. Resumen de regresiones lineales para producción de leche y composición estimadas para asignación de pastura 15 Kg/v/d y concentrado AA

Apéndice N°10.1.

Dependent Variable: **Producción de leche**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	417.44521	417.44521	29.934	0.0001
Error	58	808.85262	13.94573		
C Total	59	1226.29783			

Root MSE 3.73440 R-square 0.3404
 Dep Mean 26.53833 Adj R-sq 0.3290
 C.V. 14.07172

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	20.077333	1.27554004	15.740	0.0001
NIV	1	1.076833	0.19682010	5.471	0.0001

Apéndice N°10.2.Dependent Variable: **Producción de LCG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	214.50792	214.50792	27.847	0.0001
Error	58	446.77587	7.70303		
C Total	59	661.28379			

Root MSE	2.77543	R-square	0.3244
Dep Mean	24.67633	Adj R-sq	0.3127
C.V.	11.24735		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	20.044833	0.94799108	21.145	0.0001
NIV	1	0.771917	0.14627820	5.277	0.0001

Apéndice N°10.3.Dependent Variable: **Porcentaje de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.22952	0.22952	6.643	0.0125
Error	58	2.00394	0.03455		
C Total	59	2.23346			

Root MSE	0.18588	R-square	0.1028
Dep Mean	3.10583	Adj R-sq	0.0873
C.V.	5.98480		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	2.954333	0.06348941	46.533	0.0001
NIV	1	0.025250	0.00979663	2.577	0.0125

Apéndice N°10.4.

Dependent Variable: Producción de proteína

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.59049	0.59049	46.185	0.0001
Error	58	0.74155	0.01279		
C Total	59	1.33204			

Root MSE 0.11307 R-square 0.4433
 Dep Mean 0.82352 Adj R-sq 0.4337
 C.V. 13.73041

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.580517	0.03862152	15.031	0.0001
NIV	1	0.040500	0.00595943	6.796	0.0001

Apéndice N°10.5.

Dependent Variable: Porcentaje de grasa

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	1.00489	1.00489	5.472	0.0228
Error	58	10.65108	0.18364		
C Total	59	11.65597			

Root MSE 0.42853 R-square 0.0862
 Dep Mean 3.88267 Adj R-sq 0.0705
 C.V. 11.96125

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	3.899667	0.14637142	26.642	0.0001
NIV	1	-0.052833	0.02258560	-2.339	0.0228

Apéndice N°10.6.Dependent Variable: **Producción de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.18632	0.18632	16.535	0.0001
Error	58	0.65357	0.01127		
C Total	59	0.83989			

Root MSE 0.10615 R-square 0.2218
 Dep Mean 0.93738 Adj R-sq 0.2084
 C.V. 11.32439

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.800883	0.03625813	22.088	0.0001
NIV	1	0.022750	0.00559475	4.066	0.0001

Apéndice N°10.7.Dependent Variable: **Porcentaje de lactosa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.38220	0.38220	18.476	0.0001
Error	58	1.19984	0.02069		
C Total	59	1.58204			

Root MSE 0.14383 R-square 0.2416
 Dep Mean 4.86600 Adj R-sq 0.2285
 C.V. 2.95580

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	4.670500	0.04912704	95.070	0.0001
NIV	1	0.032583	0.00758047	4.298	0.0001

Apéndice N°10.8.Dependent Variable: **Producción de lactosa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	1.37233	1.37233	36.851	0.0001
Error	58	2.15990	0.03724		
C Total	59	3.53223			

Root MSE	0.19298	R-square	0.3885
Dep Mean	1.29417	Adj R-sq	0.3780
C.V.	14.91119		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.923717	0.06591372	14.014	0.0001
NIV	1	0.061742	0.01017071	6.071	0.0001

Apéndice N°10.9.Dependent Variable: **Porcentaje de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	1.20409	1.20409	14.735	0.0003
Error	58	4.73941	0.08171		
C Total	59	5.94350			

Root MSE	0.28586	R-square	0.2026
Dep Mean	8.67183	Adj R-sq	0.1888
C.V.	3.29638		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	8.324833	0.09763858	85.262	0.0001
NIV	1	0.057833	0.01506596	3.839	0.0003

Apéndice N°10.10.Dependent Variable: **Producción de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	4.33886	4.33886	40.528	0.0001
Error	58	6.20939	0.10706		
C Total	59	10.54825			

Root MSE	0.32720	R-square	0.4113
Dep Mean	2.30355	Adj R-sq	0.4012
C.V.	14.20407		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	1.644850	0.11175935	14.718	0.0001
NIV	1	0.109783	0.01724484	6.366	0.0001

Apéndice N°10.11.Dependent Variable: **Porcentaje de caseína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.46225	0.46225	7.762	0.0072
Error	58	3.45397	0.05955		
C Total	59	3.91622			

Root MSE	0.24403	R-square	0.1180
Dep Mean	2.41783	Adj R-sq	0.1028
C.V.	10.09297		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	2.202833	0.08335249	26.428	0.0001
NIV	1	0.035833	0.01286157	2.786	0.0072

Apéndice N°10.12.Dependent Variable: **Producción de caseína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.47611	0.47611	37.084	0.0001
Error	58	0.74464	0.01284		
C Total	59	1.22075			

Root MSE	0.11331	R-square	0.3900
Dep Mean	0.64285	Adj R-sq	0.3795
C.V.	17.62582		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.424650	0.03870191	10.972	0.0001
NIV	1	0.036367	0.00597183	6.090	0.0001

Apéndice N°10.13Dependent Variable: **Recuento de células somáticas****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	46172.02500	46172.02500	2.662	0.1082
Error	58	1006166.825	17347.703879		
C Total	59	1052338.85			

Root MSE	131.71068	R-square	0.0439
Dep Mean	152.45000	Adj R-sq	0.0274
C.V.	86.39599		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	84.500000	44.98776262	1.878	0.0654
NIV	1	11.325000	6.94176248	1.631	0.1082

Apéndice N°11. Resumen de regresiones cuadráticas para producción de leche y composición estimadas para asignación de pastura 15 Kg/v/d y concentrado AA.

Apéndice N°11.1.

Dependent Variable: **Producción de leche**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	417.69546	208.84773	14.722	0.0001
Error	57	808.60237	14.18601		
C Total	59	1226.29783			

Root MSE	3.76643	R-square	0.3406
Dep Mean	26.53833	Adj R-sq	0.3175
C.V.	14.19242		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	20.534000	3.67106336	5.593	0.0001
NIV	1	0.894167	1.38955860	0.643	0.5225
NIV2	1	0.015222	0.11460886	0.133	0.8948

Apéndice N°11.2.

Dependent Variable: **Producción de LCG**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	215.08616	107.54308	13.738	0.0001
Error	57	446.19763	7.82803		
C Total	59	661.28379			

Root MSE	2.79786	R-square	0.3253
Dep Mean	24.67633	Adj R-sq	0.3016
C.V.	11.33824		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	20.739000	2.72701800	7.605	0.0001
NIV	1	0.494250	1.03222172	0.479	0.6339
NIV2	1	0.023139	0.08513621	0.272	0.7868

Apéndice N°11.3.Dependent Variable: **Porcentaje de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.47162	0.23581	7.629	0.0012
Error	57	1.76184	0.03091		
C Total	59	2.23346			

Root MSE	0.17581	R-square	0.2112
Dep Mean	3.10583	Adj R-sq	0.1835
C.V.	5.66066		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	3.403500	0.17135903	19.862	0.0001
NIV	1	-0.154417	0.06486225	-2.381	0.0206
NIV2	1	0.014972	0.00534975	2.799	0.0070

Apéndice N°11.4.Dependent Variable: **Producción de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.62369	0.31185	25.094	0.0001
Error	57	0.70835	0.01243		
C Total	59	1.33204			

Root MSE	0.11148	R-square	0.4682
Dep Mean	0.82352	Adj R-sq	0.4496
C.V.	13.53673		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.746850	0.10865456	6.874	0.0001
NIV	1	-0.026033	0.04112756	-0.633	0.5293
NIV2	1	0.005544	0.00339214	1.634	0.1077

Apéndice N°11.5.Dependent Variable: **Porcentaje de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	1.01022	0.50511	2.704	0.0755
Error	57	10.64575	0.18677		
C Total	59	11.65597			

Root MSE	0.43217	R-square	0.0867
Dep Mean	3.58267	Adj R-sq	0.0546
C.V.	12.06269		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	3.833000	0.42122342	9.100	0.0001
NIV	1	-0.026167	0.15944008	-0.164	0.8702
NIV2	1	-0.002222	0.01315040	-0.169	0.8664

Apéndice N°11.6.Dependent Variable: **Producción de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.18772	0.09386	8.204	0.0007
Error	57	0.65217	0.01144		
C Total	59	0.83989			

Root MSE	0.10697	R-square	0.2235
Dep Mean	0.93738	Adj R-sq	0.1963
C.V.	11.41104		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.835050	0.10425680	8.010	0.0001
NIV	1	0.009083	0.03946294	0.230	0.8188
NIV2	1	0.001139	0.00325485	0.350	0.7277

Apéndice N°11.7.

Dependent Variable: **Porcentaje de lactosa**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.65581	0.32790	20.179	0.0001
Error	57	0.92623	0.01625		
C Total	59	1.58204			

Root MSE 0.12747 R-square 0.4145
 Dep Mean 4.86600 Adj R-sq 0.3940
 C.V. 2.61969

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	5.148000	0.12424639	41.434	0.0001
NIV	1	-0.158417	0.04702933	-3.368	0.0014
NIV2	1	0.015917	0.00387891	4.103	0.0001

Apéndice N°11.8.

Dependent Variable: **Producción de lactosa**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	1.40347	0.70173	18.790	0.0001
Error	57	2.12876	0.03735		
C Total	59	3.53223			

Root MSE 0.19325 R-square 0.3973
 Dep Mean 1.29417 Adj R-sq 0.3762
 C.V. 14.93261

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	1.084800	0.18835954	5.759	0.0001
NIV	1	-0.002692	0.07129722	-0.038	0.9700
NIV2	1	0.005369	0.00588050	0.913	0.3650

Apéndice N°11.9.

Dependent Variable: **Porcentaje de SNG**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	2.23454	1.11727	17.170	0.0001
Error	57	3.70895	0.06507		
C Total	59	5.94350			

Root MSE 0.25509 R-square 0.3760
 Dep Mean 8.67183 Adj R-sq 0.3541
 C.V. 2.94156

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	9.251500	0.24862807	37.210	0.0001
NIV	1	-0.312833	0.09410986	-3.324	0.0016
NIV2	1	0.030889	0.00776205	3.979	0.0002

Apéndice N°11.10.

Dependent Variable: **Producción de SNG**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	4.47033	2.23517	20.962	0.0001
Error	57	6.07792	0.10663		
C Total	59	10.54825			

Root MSE 0.32654 R-square 0.4238
 Dep Mean 2.30355 Adj R-sq 0.4036
 C.V. 14.17563

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	1.975850	0.31827443	6.208	0.0001
NIV	1	-0.022617	0.12047217	-0.188	0.8518
NIV2	1	0.011033	0.00993638	1.110	0.2715

Apéndice N°11.11.

Dependent Variable: **Porcentaje de caseína**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.74646	0.37323	6.712	0.0024
Error	57	3.16975	0.05561		
C Total	59	3.91622			

Root MSE 0.23582 R-square 0.1906
 Dep Mean 2.41783 Adj R-sq 0.1622
 C.V. 9.75324

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	2.689500	0.22984614	11.701	0.0001
NIV	1	-0.158833	0.08700059	-1.826	0.0731
NIV2	1	0.016222	0.00717569	2.261	0.0276

Apéndice N°11.12.

Dependent Variable: **Producción de caseína**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.51224	0.25612	20.605	0.0001
Error	57	0.70852	0.01243		
C Total	59	1.22075			

Root MSE 0.11149 R-square 0.4196
 Dep Mean 0.64285 Adj R-sq 0.3992
 C.V. 17.34315

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.598150	0.10866742	5.504	0.0001
NIV	1	-0.033033	0.04113243	-0.803	0.4253
NIV2	1	0.005783	0.00339255	1.705	0.0937

Apéndice N°11.13.

Dependent Variable: **Recuento de células somáticas**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	291065.70000	145532.85000	10.897	0.0001
Error	57	761273.15000	13355.66930		
C Total	59	1052338.85			

Root MSE 115.56673 R-square 0.2766
 Dep Mean 152.45000 Adj R-sq 0.2512
 C.V. 75.80632

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	536.250000	112.64051595	4.761	0.0001
NIV	1	-169.375000	42.63631067	-3.973	0.0002
NIV2	1	15.058333	3.51658363	4.282	0.0001

Apéndice N°12. Resumen de regresiones lineales para producción de leche y composición estimadas para asignación de pastura 15 Kg/v/d y concentrado AL.

Apéndice N°12.1.

Dependent Variable: **Producción de leche**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	76.92302	76.92302	13.211	0.0006
Error	58	337.71548	5.82268		
C Total	59	414.63850			

Root MSE 2.41302 R-square 0.1855
 Dep Mean 24.92817 Adj R-sq 0.1715
 C.V. 9.67991

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	22.154667	0.82420431	26.880	0.0001
NIV	1	0.462250	0.12717749	3.635	0.0006

Apéndice N°12.2.Dependent Variable: **Producción de LCG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.04624	0.04624	0.008	0.9303
Error	58	347.43795	5.99031		
C Total	59	347.48419			

Root MSE	2.44751	R-square	0.0001
Dep Mean	23.19367	Adj R-sq	-0.0171
C.V.	10.55250		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	23.261667	0.83598412	27.825	0.0001
NIV	1	-0.011333	0.12899515	-0.088	0.9303

Apéndice N°12.3.Dependent Variable: **Porcentaje de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.29412	0.29412	20.338	0.0001
Error	58	0.83876	0.01446		
C Total	59	1.13289			

Root MSE	0.12026	R-square	0.2596
Dep Mean	2.97050	Adj R-sq	0.2469
C.V.	4.04833		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	3.142000	0.04107513	76.494	0.0001
NIV	1	-0.028583	0.00633803	-4.510	0.0001

Apéndice N°12.4.Dependent Variable: **Producción de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.01862	0.01862	2.767	0.1016
Error	58	0.39023	0.00673		
C Total	59	0.40885			

Root MSE	0.08203	R-square	0.0455
Dep Mean	0.74007	Adj R-sq	0.0291
C.V.	11.08353		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.696917	0.02801704	24.875	0.0001
NIV	1	0.007192	0.00432312	1.664	0.1016

Apéndice N°12.5.Dependent Variable: **Porcentaje de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	5.41696	5.41696	43.268	0.0001
Error	58	7.26128	0.12519		
C Total	59	12.67824			

Root MSE	0.35383	R-square	0.4273
Dep Mean	3.55400	Adj R-sq	0.4174
C.V.	9.95578		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	4.290000	0.12085538	35.497	0.0001
NIV	1	-0.122667	0.01864839	-6.578	0.0001

Apéndice N°12.6.Dependent Variable: **Producción de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.06139	0.06139	4.761	0.0332
Error	58	0.74781	0.01289		
C Total	59	0.80920			

Root MSE	0.11355	R-square	0.0759
Dep Mean	0.88150	Adj R-sq	0.0599
C.V.	12.88127		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.959850	0.03878416	24.749	0.0001
NIV	1	-0.013058	0.00598453	-2.182	0.0332

Apéndice N°12.7.Dependent Variable: **Porcentaje de lactosa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.17956	0.17956	7.551	0.0080
Error	58	1.37920	0.02378		
C Total	59	1.55876			

Root MSE	0.15421	R-square	0.1152
Dep Mean	4.80200	Adj R-sq	0.0999
C.V.	3.21127		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	4.668000	0.05267118	88.625	0.0001
NIV	1	0.022333	0.00812734	2.748	0.0080

Apéndice N°12.8.Dependent Variable: **Producción de lactosa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.26896	0.26896	15.293	0.0002
Error	58	1.02007	0.01759		
C Total	59	1.28903			

Root MSE	0.13262	R-square	0.2087
Dep Mean	1.19883	Adj R-sq	0.1950
C.V.	11.06220		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	1.034833	0.04529743	22.845	0.0001
NIV	1	0.027333	0.00698955	3.911	0.0002

Apéndice N°12.9.Dependent Variable: **Porcentaje de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.01406	0.01406	0.273	0.6036
Error	58	2.99166	0.05158		
C Total	59	3.00573			

Root MSE	0.22711	R-square	0.0047
Dep Mean	8.47250	Adj R-sq	-0.0125
C.V.	2.68059		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	8.510000	0.07757391	109.702	0.0001
NIV	1	-0.006250	0.01196991	-0.522	0.6036

Apéndice N°12.10.Dependent Variable: **Producción de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.51325	0.51325	9.905	0.0026
Error	58	3.00527	0.05181		
C Total	59	3.51851			

Root MSE	0.22763	R-square	0.1459
Dep Mean	2.11340	Adj R-sq	0.1311
C.V.	10.77074		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	1.886850	0.07775007	24.268	0.0001
NIV	1	0.037758	0.01199710	3.147	0.0026

Apéndice N°12.11.Dependent Variable: **Porcentaje de caseína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.10920	0.10920	3.758	0.0574
Error	58	1.68548	0.02906		
C Total	59	1.79468			

Root MSE	0.17047	R-square	0.0608
Dep Mean	2.25550	Adj R-sq	0.0447
C.V.	7.55797		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	2.360000	0.05822661	40.531	0.0001
NIV	1	-0.017417	0.00898456	-1.939	0.0574

Apéndice N°12.12.

Dependent Variable: **Producción de caseína**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	0.01669	0.01669	2.232	0.1406
Error	58	0.43354	0.00747		
C Total	59	0.45023			

Root MSE 0.08646 R-square 0.0371
 Dep Mean 0.56360 Adj R-sq 0.0205
 C.V. 15.34017

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.522750	0.02953076	17.702	0.0001
NIV	1	0.006808	0.00455669	1.494	0.1406

Apéndice N°12.13.

Dependent Variable: **Recuento de células somáticas**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	1	312405.62500	312405.62500	2.984	0.0894
Error	58	6072391.3083	104696.40187		
C Total	59	6384796.9333			

Root MSE 323.56823 R-square 0.0489
 Dep Mean 181.46667 Adj R-sq 0.0325
 C.V. 178.30726

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	358.216667	110.51959201	3.241	0.0020
NIV	1	-29.458333	17.05354328	-1.727	0.0894

Apéndice N°13. Resumen de regresiones cuadráticas para producción de leche y composición estimadas para asignación de pastura 15 Kg/v/d y concentrado AL.

Apéndice N°13.1.

Dependent Variable: **Producción de leche**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	84.38806	42.19403	7.283	0.0015
Error	57	330.25044	5.79387		
C Total	59	414.63850			

Root MSE 2.40705 R-square 0.2035
 Dep Mean 24.92817 Adj R-sq 0.1756
 C.V. 9.65593

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	19.660500	2.34609759	8.380	0.0001
NIV	1	1.459917	0.88803700	1.644	0.1057
NIV2	1	-0.083139	0.07324406	-1.135	0.2611

Apéndice N°13.2.

Dependent Variable: **Producción de LCG**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	11.07544	5.53772	0.938	0.3973
Error	57	336.40875	5.90191		
C Total	59	347.48419			

Root MSE 2.42938 R-square 0.0319
 Dep Mean 23.19367 Adj R-sq -0.0021
 C.V. 10.47434

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	20.230000	2.36787088	8.544	0.0001
NIV	1	1.201333	0.89627855	1.340	0.1854
NIV2	1	-0.101056	0.07392381	-1.367	0.1770

Apéndice N°13.3.Dependent Variable: **Porcentaje de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.40759	0.20379	16.016	0.0001
Error	57	0.72530	0.01272		
C Total	59	1.13289			

Root MSE	0.11280	R-square	0.3598
Dep Mean	2.97050	Adj R-sq	0.3373
C.V.	3.79744		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	3.449500	0.10994658	31.374	0.0001
NIV	1	-0.151583	0.04161661	-3.642	0.0006
NIV2	1	0.010250	0.00343248	2.986	0.0042

Apéndice N°13.4.Dependent Variable: **Producción de proteína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.01863	0.00932	1.361	0.2646
Error	57	0.39022	0.00685		
C Total	59	0.40885			

Root MSE	0.08274	R-square	0.0456
Dep Mean	0.74007	Adj R-sq	0.0121
C.V.	11.18011		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.700500	0.08064522	8.686	0.0001
NIV	1	0.005758	0.03052556	0.189	0.8510
NIV2	1	0.000119	0.00251771	0.047	0.9623

Apéndice N°13.5.Dependent Variable: **Porcentaje de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	5.44396	2.72198	21.447	0.0001
Error	57	7.23428	0.12692		
C Total	59	12.67824			

Root MSE	0.35625	R-square	0.4294
Dep Mean	3.55400	Adj R-sq	0.4094
C.V.	10.02404		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	4.140000	0.34723383	11.923	0.0001
NIV	1	-0.062667	0.13143379	-0.477	0.6353
NIV2	1	-0.005000	0.01084048	-0.461	0.6464

Apéndice N°13.6.Dependent Variable: **Producción de grasa****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.08334	0.04167	3.272	0.0452
Error	57	0.72586	0.01273		
C Total	59	0.80920			

Root MSE	0.11285	R-square	0.1030
Dep Mean	0.88150	Adj R-sq	0.0715
C.V.	12.86164		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.824600	0.10998914	7.497	0.0001
NIV	1	0.041042	0.04163272	0.986	0.3284
NIV2	1	-0.004508	0.00343381	-1.313	0.1945

Apéndice N°13.7.

Dependent Variable: Porcentaje de lactosa

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.26704	0.13352	5.892	0.0047
Error	57	1.29172	0.02266		
C Total	59	1.55876			

Root MSE	0.15054	R-square	0.1713
Dep Mean	4.80200	Adj R-sq	0.1422
C.V.	3.13491		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	4.398000	0.14672650	29.974	0.0001
NIV	1	0.130333	0.05553842	2.347	0.0224
NIV2	1	-0.009000	0.00458073	-1.965	0.0543

Apéndice N°13.8.

Dependent Variable: Producción de lactosa

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.30691	0.15345	8.906	0.0004
Error	57	0.98212	0.01723		
C Total	59	1.28903			

Root MSE	0.13126	R-square	0.2381
Dep Mean	1.19883	Adj R-sq	0.2114
C.V.	10.94927		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.857000	0.12793988	6.698	0.0001
NIV	1	0.098467	0.04842737	2.033	0.0467
NIV2	1	-0.005928	0.00399422	-1.484	0.1433

Apéndice N°13.9.Dependent Variable: **Porcentaje de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.01575	0.00787	0.150	0.8609
Error	57	2.98998	0.05246		
C Total	59	3.00573			

Root MSE	0.22903	R-square	0.0052
Dep Mean	8.47250	Adj R-sq	-0.0297
C.V.	2.70324		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	8.547500	0.22323288	38.290	0.0001
NIV	1	-0.021250	0.08449736	-0.251	0.8023
NIV2	1	0.001250	0.00696922	0.179	0.8583

Apéndice N°13.10.Dependent Variable: **Producción de SNG****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.55760	0.27880	5.367	0.0073
Error	57	2.96091	0.05195		
C Total	59	3.51851			

Root MSE	0.22792	R-square	0.1585
Dep Mean	2.11340	Adj R-sq	0.1289
C.V.	10.78434		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	1.694600	0.22214535	7.628	0.0001
NIV	1	0.114658	0.08408571	1.364	0.1781
NIV2	1	-0.006408	0.00693527	-0.924	0.3594

Apéndice N°13.11.Dependent Variable: **Porcentaje de caseína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.15601	0.07800	2.713	0.0749
Error	57	1.63867	0.02875		
C Total	59	1.79468			

Root MSE	0.16955	R-square	0.0869
Dep Mean	2.25550	Adj R-sq	0.0549
C.V.	7.51737		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	2.557500	0.16526116	15.476	0.0001
NIV	1	-0.096417	0.06255410	-1.541	0.1288
NIV2	1	0.006583	0.00515938	1.276	0.2071

Apéndice N°13.12.Dependent Variable: **Producción de caseína****Análisis de varianza**

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	0.01669	0.00834	1.097	0.3408
Error	57	0.43354	0.00761		
C Total	59	0.45023			

Root MSE	0.08721	R-square	0.0371
Dep Mean	0.56360	Adj R-sq	0.0033
C.V.	15.47412		

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	0.521500	0.08500385	6.135	0.0001
NIV	1	0.007308	0.03217537	0.227	0.8211
NIV2	1	-0.000041667	0.00265378	-0.016	0.9875

Apéndice N°13.13.

Dependent Variable: **Recuento de células somáticas**

Análisis de varianza

Source	DF	Sum of Squares	Mean Square	F Value	Prob>F
Model	2	594190.83333	297095.41667	2.924	0.0618
Error	57	5790606.1	101589.5807		
C Total	59	6384796.9333			

Root MSE 318.73120 R-square 0.0931
 Dep Mean 181.46667 Adj R-sq 0.0612
 C.V. 175.64174

Parámetros estimados

Variable	DF	Parameter Estimate	Standard Error	T for H0: Parameter=0	Prob > T
INTERCEP	1	842.800000	310.66075012	2.713	0.0088
NIV	1	-223.291667	117.59026621	-1.899	0.0626
NIV2	1	16.152778	9.69868169	1.665	0.1013

Apéndice N°14 Resultados de ANOVAS para la ganancia de peso.

Dependent Variable: **Ganancia de peso de las vacas**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	12	0.79743272	0.06645273	1.08	0.4087
BLOQ	1	0.01552413	0.01552413	0.25	0.6192
PAST	1	0.04718140	0.04718140	0.76	0.3881
CONC	1	0.05044046	0.05044046	0.82	0.3724
PAST*CONC	1	0.00199995	0.00199995	0.03	0.8582
NIV	2	0.41773373	0.20886687	3.38	0.0457
PAST*NIV	2	0.08989450	0.04494725	0.73	0.4901
CONC*NIV	2	0.14339195	0.07169598	1.16	0.3251
PAST*CONC*NIV	2	0.00008115	0.00004058	0.00	0.9993
Error	34	2.09854713	0.06172197		
Corrected Total	46	2.89597984			

R-Square C.V. Root MSE GAN Mean
 0.275359 58.25894 0.24844 0.42644

Apéndice N°15. Resultados de los ANOVAS para variación de la condición corporal.

Dependent Variable: **Variación de la condición corporal**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	12	0.00021475	0.00001790	0.81	0.6417
BLOQ	1	0.00002184	0.00002184	0.98	0.3281
PAST	1	0.00000708	0.00000708	0.32	0.5758
CONC	1	0.00000257	0.00000257	0.12	0.7355
PAST*CONC	1	0.00000172	0.00000172	0.08	0.7826
NIV	2	0.00012082	0.00006041	2.72	0.0800
PAST*NIV	2	0.00002463	0.00001231	0.56	0.5791
CONC*NIV	2	0.00000412	0.00000206	0.09	0.9115
PAST*CONC*NIV	2	0.00003717	0.00001858	0.84	0.4415
Error	34	0.00075432	0.00002219		
Corrected Total	46	0.00096907			

R-Square	C.V.	Root MSE	GAN Mean
0.221605	205.5780	0.00471	0.00229