Livestock Feeding Statistics

LABORATORIO DI ANALISI ZOOTECNICHE V.le Marconi, 9 46023 GONZAGA (MN- ITALY)
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Feed: **Strow**
Note: **Origin: Italy; results from 2018 to April 2025.**
N° of samples used in statistics: **122**
Values expressed on: **Dry matter**

NIR CNCPS Profile	Media	Standard Deviation (+/-)	Range (68% of samples)	
			media - st.dev	media + st.dev
Moisture %	**9,1**	**3,8**	5,3	12,9
CP %	**5,3**	**1,6**	3,7	6,9
AD ICP %	**18,6**	**5,6**	13,0	24,1
ND ICP %	**43,0**	**13,1**	30,0	56,1
Protein Sol. %CP	**25,3**	**11,8**	13,5	37,1
Total Amino Acids %	**3,5**	**1,6**	2,0	5,1
Total Amino Acids %CP	**59,9**	**10,1**	49,8	70,0
Lysine %	**0,23**	**0,08**	0,16	0,31
Methionine %	**0,08**	**0,03**	0,05	0,11
Leucine %	**0,37**	**0,12**	0,25	0,49
Isoleucine %	**0,17**	**0,07**	0,11	0,24
Histidine %	**0,09**	**0,03**	0,06	0,12
ADF %	**51,9**	**3,9**	48,0	55,7
aNDF %	**80,0**	**5,8**	74,1	85,8
aNDFom %	**77,5**	**6,3**	71,2	83,8
ADL %	**6,7**	**1,1**	5,7	7,8
NDFD12 %NDFom	**25,2**	**5,5**	19,7	30,7
NDFD30 %NDFom	**45,7**	**4,3**	41,5	50,0
NDFD120 %NDFom	**61,4**	**3,8**	57,6	65,2
NDFD240 %NDFom	**64,0**	**3,7**	60,3	67,7
uNDFom12 %DM	**58,0**	**6,0**	52,0	64,1
uNDFom30 %DM	**42,1**	**4,8**	37,3	46,9
uNDFom120 %DM	**29,9**	**3,9**	26,0	33,8
uNDFom240 %DM	**27,9**	**3,7**	24,2	31,7
Starch %	**1,7**	**1,7**	0,0	3,3
EE (Fat) %	**1,93**	**0,35**	1,58	2,27
TFA (FAT) %	**0,37**	**0,16**	0,22	0,53
Palmitic 16:0 %TFA	**26,6**	**8,0**	18,64	34,7
Stearic 18:0 %TFA	**6,2**	**2,1**	4,1	8,3
Oleic 18:1 %TFA	**19,0**	**5,3**	13,6	24,3
Linol 18:2 %TFA	**14,8**	**9,4**	5,4	24,2
Linolen 18:3 %TFA	**32,7**	**13,9**	18,9	46,6

NIR CNCPS Profile (Cornell Net Carbohydrate and Protein System)

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NIR CNCPS Profile	Media	Standard Deviation (+/-)	Range (68% of samples)	
			media - st.dev	media + st.dev
Ash %	**8,1**	**1,8**	6,3	9,9
NFC %	**10,0**	**4,7**	5,3	14,7
Sugar ESC %	**3,2**	**1,7**	1,5	5,0
Sugar WSC %	**4,0**	**2,0**	2,0	6,0
Adj_CP %	**4,8**	**1,9**	2,9	6,6
RFV	**57**	**8**	49	65
RFQ	**58**	**18**	40	76
TDN_Milk2013 %	**40,5**	**4,1**	36,3	44,6
NEL3x Milk2013 Mcal/Kg	**1,05**	**0,07**	0,98	1,12
NEG Milk2013 Mcal/Kg	**0,14**	**0,11**	0,03	0,26
NEM Milk2013 Mcal/Kg	**0,60**	**0,16**	0,44	0,76
Milk/Ton Milk2013 Kg/ton	**785**	**107**	678	892

NIR CNCPS Profile (Cornell Net Carbohydrate and Protein System)
Technique: NIR spectroscopy (calibration curves developed by **Dairyland Lab** - Arcadia USA, applied to samples analyzed at the **Laboratorio Analisi Zootecniche** -MN IT)
Sample preparation: oven-dried at 65°C and ground to 0.5 mm