

Livestock Feeding Statistics

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Feed: **Mixed grass silage* with DM <35% (Moisture>65%)**

Note: **Origin: Italy; results from 2018 to April 2025.**

N° of samples used in statistics: **744** **selected as per the indicated Dry Matter.**

Values expressed on: **Dry matter**

Standard NIR Profile	Media	Standard Deviation (+/-)	Range (68% of samples)	
			media - st.dev	media + st.dev
Moisture %	72,5	4,3	68,2	76,9
CP %	9,8	1,9	7,9	11,8
Protein Sol. %CP	65,6	8,6	57,0	74,2
EE (Fat) %	2,24	0,42	1,82	2,66
CF %	35,0	3,6	31,5	38,6
Ash %	8,5	2,5	6,0	11,0
aNDF %	63,1	5,5	57,7	68,6
aNDFom %	60,3	5,4	54,9	65,7
ADF %	41,2	4,5	36,7	45,7
ADL %	5,1	1,1	4,0	6,2
Starch %	4,6	2,8	1,8	7,3
NFC %	19,1	5,2	13,9	24,3
Sugars %	2,94	1,47	1,47	4,41
Ammonia ppm	1917	839	1078	2756
Ammonia %CP	10,09	4,31	5,78	14,40
Lactic ac. %	6,34	1,72	4,62	8,06
Acetic ac. %	0,95	0,28	0,67	1,23
Butyric ac. %	0,26	0,10	0,16	0,36
pH	4,26	0,44	3,82	4,69
Milk forage Unit/kg	0,64	0,13	0,51	0,77

Note to **Starch**: the average value found concerns 36% of the samples, the remaining 62% is less than 2.

N° of samples used in **XRF** statistics: **166** **all samples in statistics**

Values expressed on: **Dry matter**

Standard XRF Profile	Media	Standard Deviation (+/-)	Range (68% of samples)	
			media - st.dev	media + st.dev
Ca %	0,49	0,26	0,23	0,75
Cl %	0,70	0,44	0,26	1,15
K %	2,36	0,65	1,71	3,01
Mg %	0,15	0,06	0,09	0,21
Na %	0,11	0,10	0,01	0,21
S %	0,18	0,04	0,14	0,22
P %	0,27	0,05	0,22	0,32
Fe ppm	437	729	-	1166
Cu ppm	5,9	1,8	4,1	7,8
Zn ppm	31	10	21	41
Mn ppm	66	41	26	107
Si %	2,11	1,12	0,99	3,23
DCAD -Ender 1971 m.eq/100g	34,0	12,9	21,1	46,9

* This refers to commercial grass mixes and autumn-winter mixes. Single-variety grasses are excluded.

Technique: **NIR** spectroscopy (calibration curves developed by Laboratorio Analisi Zootechniche).

Technique: **XRF** X-ray fluorescence (calibration curves developed by Laboratorio Analisi Zootechniche).

Sample preparation: oven-dried at 65°C and ground to 0.5 mm