

S2. Summary of voluntary intake behaviour of horses fed various diets ad libitum with feed intake time over 24 hours (ADF – Acid detergent fibre; Wet Matter – WM; Dry Matter-DM; \pm s.d. STB – Standardbred, TB - Thoroughbred)

Reference	Horses/ Ponies	Feed (24 hr observations unless stated otherwise)	WM intake 500 kg horse	Average DM Intake in %BW	Intake* Rate min/kg	Mean Intake Time hrs/24hrs
Vulink (2001)	Wild Konik	Nature Reserve, NL,				13 \pm 2.0
Van Dierendonck <i>et al.</i> (1996)	Przewalsky	Mongolia steppe grass (18 hrs)				12 \pm 3.6
Magnusson <i>et al.</i> (1994)	Icelandic	Iceland Grass Plains				14 \pm 2.5
Berger <i>et al.</i> (1999)	Przewalsky	Nature Reserve, D				11 \pm 4.4
Ferreira <i>et al.</i> (2013)		Western Asturias,		5.3	22	
Osoro <i>et al.</i> (2015)	Galiciano	June, Heathland, Sep		2.7	11	12 \pm 0,8
Mean Free-ranging, semi-feral horses on grass						12.4 \pm 2.7
Houbiers and Smolders (1990)	12 TB Trotters	Fresh cut summer grass (long DM 16%)	80	2.1	10	13.37
		Fresh cut spring grass(short DM 14%)	84	2.3	8	11.16
	12 Warmblood	Fresh cut summer grass (long DM 16%)	85	2.1	10	14.15
		Fresh cut spring grass(short DM 14%)	90	2.4	8	11.95
Chenost and Martin-Rosset (1985)	TB	Fresh cut hybrid ryegrass (DM 20%)	52	2.6	12	10.36
Dulphy <i>et al.</i> (1997a)	Light horses	Fresh forages (n=16)	63	2	10	10.57
Mean Barn/Stabled horses with cut Fresh Forages/Grass (DM 14 – 20%)			75.6	2.3	9.67	12 \pm 1.5
Bergero <i>et al.</i> (2002)	Ponies Rest	Early cut (DM 56%)	19	2.7	30	9.36
Haylages (some nearly silages)	Light Work	Late cut (DM 63%)	17	2.8	30	8.52
	Med. Work	Late cut (DM 65%)	19	3.1	30	9.3
Mean Stabled, Haylages (DM 56-65%)			23.2	2.8	30	9 \pm 0.5
Martin-Rosset and Dulphy (1987)	Heavy H. Yearlings	Hay medium quality	12	2	40	7.75
Vermorel <i>et al.</i> (1997)	STB	Hay late cut	10	1.7	40	6.42
		Hay medium	11	1.9	40	7.05
Dulphy <i>et al.</i> (1997b)	Light horses	Lucerne hay (n=12)	13	2.2	45	9.55
from various authors		Grass hay (n=38)	13	2.2	35	7.42
		Straws (n=6) [#]	7	1.3	50	5.88
Pearson <i>et al.</i> (2001)	Ponies	Oat straw	12	2.2	45	9
Staniar <i>et al.</i> (2014)	Quarter H.	Teff Hay (40% ADF) [#]	9.1	1.7	45	7
Stabled: Mean Hays (DM 85%)			12 \pm 1.4	2.0 \pm 0.2	40 \pm 5	8 \pm 1.3
Stabled: Mean Straws/High ADF** (DM 88% +)			10 \pm 3.5	1.7 \pm 0.6	48 \pm 2.2	7.3 \pm 4.1
Argo <i>et al.</i> (2002)	Welsh Ponies	Total Chaff-Pellet Mix	21	3.2	25	8.61
		As above – pelleted	25	4.4	18	7.43
		Day 26 Max intake pelleted	28	4.9	18	8.4
Dugdale <i>et al.</i> (2011)	Fat Ponies	Complete Chaff Diet	12	2.3	60	11.6
Mean Concentrate: minimum 50% Chaff Diets			16.5	2.75	25-60	10 \pm 1.8
Mean Concentrate: Pellets			26.4	4.64	18	8 \pm 0.7

*Feed Intake Time as per author or estimated according to Ellis, 2010

[#] High ADF content: only volume limiting forage - if overruled by intake behaviour can lead to compaction colics