



FACT SHEET

MAY 2020

SUPPLEMENTARY FEED GUIDE

Farmers in many regions are considering a range of supplementary feed options this year and a B+LNZ commissioned feed calculator will help them make informed decisions about the best feed for their budget and livestock requirements.

Put together by BakerAg, the feed calculator provides indicative dry matter (DM) and energy (MJME) content of a wide range of supplementary feeds as well as a breakdown of costs per kilogram of DM and MJME.

B+LNZ Extension Manager Mark Harris says the table includes a number of less commonly used feeds such as tapioca, canola meal, corn gluten meal, broil and vegetables. He says the costs provided were the costs of the feed on 20 April, so while these may vary, these will at least give farmers an indication of the relative value of different feeds.

All of the costs are exclusive of freight and while energy (MJME) is a critical value, other nutritional factor should be taken into account when farmers are looking at purchasing non-traditional supplementary feeds.

Please note: These figures are intended as a guide and examples only. B+LNZ recommends for accuracy that you get test results for your supplement feed or crop. B+LNZ also recommends that feed planning decisions are monitored by weighing and/or Body Condition Scoring stock.



To calculate cost of feed:

- a) Unit (eg tonne, bale, bag)
- b) Unit weight (kg)
- c) Dry matter %
- d) $\text{kgDM/unit} = b \times c$
- e) Cost
- f) $\text{Cost per kgDM} = e/d$
- g) ME
- h) $\text{Cost per mjME} = f/g$

Example calculation:

Balage bales
 Unit weight = 450kg
 Dry matter = 37%
 $\text{kgDM/unit} = 450 \times 37\% = 166.5\text{kg}$
 Cost = \$90
 $\text{Cost per kgDM} = \$90 / 166.5 = 54.1\text{c}$
 ME = 10
 $\text{Cost per MJME} = 54.1\text{c}/10\text{mjme} = 5.41\text{c/MJME}$

Feed type	% DM	kgDM/ wet tonne	MJME/ kgDM	\$Cents/ kgDM	Cents / MJME	Range Cents/ kgDM
Pasture	18%	180	10.5	10	0.95	8.5-12.5

Crops						
Swede	11%	110	13.5	27	2.0	24-30
Turnip	10%	100	13.5	30	2.2	26-34
Rape	20%	200	12.4	31	2.5	26-34
Kale	16%	160	11.9	31	2.6	26-34
Fodder beet	20%	200	12	22	1.8	19-25
Green maize	24%	240	10.5	20	1.9	17-23
Lucerne	24%	240	11	23	2.1	19-27
Fodder radish	11%	110	11.5	24	2.1	20-28

Green feeds						
Oats	17%	170	13	21	1.62	17-25
Barley	17%	170	12.5	31	2.48	26-35
Ryecorn	17%	170	12.2	19	1.56	16-23
Wheat	17%	170	9.5	30	3.16	26-34

Supplements	% DM	kgDM/ wet tonne	Cost/ unit	MJME/ kgDM	Cents / kgDM	Cents / MJME	Range (\$/unit)
Baleage	37%	370	\$90/ Bale (450kg)	10	54.1	5.41	\$80-105/ Bale
Hay	85%	850	\$80/ Bale (300kg)	8	31.4	3.92	\$70-\$90/ Bale
Hay - Lucerne	85%	850	\$130/ Bale (300kg)	9	51.0	5.66	\$120-140/ Bale
Silage - Maize	35%	350	119/ T	10.8	34.0	3.15	\$110-\$130/ T
Silage - Grass	35%	350	116/ T	10.5	33.0	3.14	\$105-\$125/ T
Straw - Barley	86%	860	\$45/ Bale (200kg)	7.1	26.2	3.68	\$40-\$50/ Bale
Straw - Pea	86%	860	\$30/ Bale (210kg)	7.2	16.6	2.31	\$25-\$35/ Bale
Straw - Wheat	86%	860	\$30/ Bale (220kg)	5.7	15.9	2.78	\$25-\$35/ Bale

Concentrates	% DM	kgDM/ wet tonne	Cost/ Tonne	MJME/ kgDM	Cents / kgDM	Cents / MJME	Range (\$/ T)
Sheep nuts	94%	940	\$835	12	88.83	7.40	\$805-\$865
Wheat	86%	860	\$470	13.5	54.65	4.05	\$450-\$490
Barley	86%	860	\$450	13.1	52.33	3.99	\$430-\$470
Oats	86%	860	\$440	11.6	51.16	4.41	\$420-\$460
Maize meal (kibbled)	86%	860	\$510	13.9	59.30	4.27	\$485-\$535
Linseed cake	86%	860	\$1,100	12	127.91	10.66	\$1000-\$1200
Peas	86%	860	\$400	13.1	46.51	3.55	\$390-\$410
Broll (Pollards + Bran)	85%	850	\$440	10.5	51.76	4.93	\$420-\$460
Brewers grains	35%	350	\$615	10	175.71	17.57	\$580-\$650
Molasses	75%	750	\$384	11.8	51.20	4.34	\$370-\$400
Lucerne meal	86%	860	\$1,000	10	116.28	11.63	\$950-\$1050
PKE	90%	900	\$420	11	46.67	4.24	\$400-\$440
Soybean hulls - pellets	88%	880	\$615	12	69.89	5.82	\$590-\$640
Soy meal	88%	880	\$750	12	85.23	7.10	\$730-\$770
Tapioca	88%	880	\$390	12.5	44.32	3.55	\$370-\$410
Canola meal	89%	890	\$685	11.7	76.97	6.58	\$670-\$700
Corn gluten meal	95%	950	\$480	12.7	50.53	3.98	\$460-\$500
Dry distillers wheat	95%	950	\$485	12.7	51.05	4.02	\$460-\$510
Carrots	13%	130	\$40	13	30.77	2.37	\$10-\$50
Potatoes	24%	240	\$30	12.6	12.50	0.99	\$10-\$50
Onions	10%	100	\$25	13	25.00	1.92	\$10-\$40
Pumpkin	8.4%	84	\$40	12.9	47.62	3.69	\$10-\$50

The above information is presented in accordance with industry averages. Pricing is subject to change over time as well between regions of New Zealand and companies.

Some of these feed sources are not commonly found, this report is intended to provide guidance on a vast range of supplement livestock feeds. Although some feed types appear superior from a cents/ kg or MJME aspect it needs mentioning that there are a range of other nutritional factors not included in this report (e.g. crude protein, fat, minerals). All prices are exclusive of freight

Thanks for the collaboration Sam Vivian-Greer from Baker Ag.

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