

1 **Supplementary Table 1.** Composition of the Prepartum Diet for Dry-Off Cows.

Ingredient	Weight/Cow (kg)	DM 1 (%)	Final DMI 1 (kg)
Hay	5.50	85.14%	4.68
Oats	5.75	36.20%	2.08
Corn	8.84	30.30%	2.68
Protein	2.00	93.00%	1.86
Ground Barley	0.75	97.26%	0.66
Minerals	0.42	97.26%	0.41
Total	23.36	53.17%	12.37

2 ¹Dry matter intake (DMI) is computed by multiplying the percentage of dry matter (DM%) in the given feed by
3 the weight (kg) of the offered feed. The daily DMI goal is established at 2% of the cow's body weight.

4 **Supplementary Table 2.** Nutritional Components in Early Lactation Cow Feeding.

Ingredient	Weight/Cow (kg)	DM 1 (%)	Final DMI 1 (kg)
Hay Dairy	2.50	88.50	2.21
Grass Silage	10.75	31.80	3.42
Oats	5.99	36.20	2.17
Barley-Dakota	11.50	40.00	4.80
Corn	13.52	31.50	4.26
Whey	2.75	17.00	0.47
Protein	4.75	93.30	4.43
Energy Dairy	4.25	88.00	3.74
Ground Barley	1.75	88.00	1.54
Mineral and Fat	1.26	97.26	1.23
Total	59.02	47.56	28.07

5 ¹Dry matter intake (DMI) is computed by multiplying the percentage of dry matter (DM%) in the given feed by
6 the weight (kg) of the offered feed. The daily DMI goal is established at 2% of the cow's body weight.