

Table 18-12. Levels of key nutritional factors (DM) in selected dry commercial foods used for working and sporting dogs compared to recommended key nutritional factor values.*

Recommended levels for sprint activity

	Energy density (kcal/cup)**	Energy density (kcal ME/g)***	Fat (%)	Carbohydrate (%)	Protein (%)	Vitamin E (IU/kg)	Vitamin C (mg/kg)	Selenium (mg/kg)
Dry Foods	-	3.5-4.0	8-10	55-65	22-28	≥500	150-250	0.5-1.3
Hill's Ideal Balance Active Natural Chicken & Oats Recipe	431	4.5	24.8	41.3	26.0	673	158	0.76
Hill's Science Diet Adult Fitness Lamb Meal & Rice Recipe	367	4.0	16.4	51.5	24.2	593	264	0.58
Iams Eukanuba Premium Performance Dog Food	385	na	22.2	na	33.3	na	na	na
Purina Dog Chow	433	4.1	13.5	53.4	24.0	na	na	na
Purina Pro Plan Sport Performance 30/20 Formula	475	4.8	23.2	34.2	34.1	na	na	na
Royal Canin German Shepherd Breed Health Nutrition	322	4.2	18.9	na	24.4	na	na	na
Royal Canin Labrador Retriever Breed Health Nutrition	276	3.9	12.8	na	33.3	na	na	na

Recommended levels for intermediate activity (low/moderate duration and frequency)

	Energy density (kcal/cup)**	Energy density (kcal ME/g)***	Fat (%)	Carbohydrate (%)	Protein (%)	Vitamine E (IU/kg)	Vitamin C (mg/kg)	Selenium (mg/kg)
Dry Foods	-	4.0-5.0	15-30 (>60% unsaturated)†	30-55	22-32	≥500	150-250	0.5-1.3
Hill's Ideal Balance Active Natural Chicken & Oats Recipe	431	4.5	24.8	41.3	26.0	673	158	0.76
Hill's Science Diet Adult Advanced Fitness Lamb Meal & Rice Recipe	367	4.0	16.4	51.5	24.2	593	264	0.58
Iams Eukanuba Premium Performance Dog Food	385	na	22.2	na	33.3	na	na	na
Purina Dog Chow	428	4.0	13.5	53.4	24.0	na	na	na
Purina Pro Plan Sport Performance 30/20	475	4.8	23.2	34.2	34.1	na	na	na
Royal Canin German Shepherd Breed Health Nutrition	322	4.2	18.9	na	24.4	na	na	na
Royal Canin Labrador Retriever Breed Health Nutrition	276	3.9	12.8	na	33.3	na	na	na

Recommended levels for intermediate activity (high duration and frequency)

	Energy density (kcal/cup)**	Energy density (kcal ME/g)***	Fat (%)	Carbohydrate (%)	Protein (%)	Vitamin E (IU/kg)	Vitamin C (mg/kg)	Selenium (mg/kg)
Dry Foods	-	4.5-5.5	25-40 (>60% unsaturated)†	30-35	22-32	≥500	150-250	0.5-1.3
Hill's Ideal Balance Active Natural Chicken & Oats Recipe	431	4.5	24.8	41.3	26.0	673	158	0.76
Iams Eukanuba Premium Performance Dog Food	385	na	22.2	na	33.3	na	na	na
Purina Dog Chow	428	4.0	13.5	53.4	24.0	na	na	na
Purina Pro Plan Sport Performance 30/20 Formula	475	4.8	23.2	34.2	34.1	na	na	na
Royal Canin German Shepherd Breed Health Nutrition	322	4.2	18.9	na	24.4	na	na	na
Royal Canin Labrador Retriever Breed Health Nutrition	276	3.9	12.8	na	33.3	na	na	na

Recommended levels for endurance activity

	Energy density (kcal/cup)**	Energy density (kcal ME/g)***	Fat (%)	Carbohydrate (%)	Protein (%)	Vitamine E (IU/kg)	Vitamin C (mg/kg)	Selenium (mg/kg)
Dry Foods	-	>6	>50††	<15	28-34	≥500	150-250	0.5-1.3
Hill's Ideal Balance Active Natural Chicken & Oats Recipe	431	4.5	24.8	41.3	26.0	673	158	0.76
Iams Eukanuba Premium Performance Dog Food	385	na	22.2	na	33.3	na	na	na
Purina Pro Plan Performance Formula	475	4.8	23.2	34.2	34.1	na	na	na

*From manufacturers' published information or calculated from manufacturers' published as-fed values or label guarantee value; all values are on a dry matter basis unless otherwise stated. Table 18-1 provides examples of types of activities conducted by working and sporting dogs.

**Energy density values are listed on an as-fed basis and are useful for determining the amount to feed; cup = 8-oz. measuring cup. To convert to kJ, multiply kcal x 4.184.

***Foods higher in energy density are generally more digestible.

†For improved olfaction, fat sources should provide >60% total unsaturated fatty acids (Table 18-11).

††To increase fat content and energy density, adding two tablespoons of vegetable oil per pound (454 g) of food would increase fat content by approximately 6 percentage points; one tablespoonful of vegetable oil = 125 kcal ME; adding vegetable oil to dry commercial foods intended to support endurance activity is recommended.