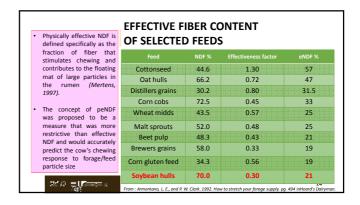
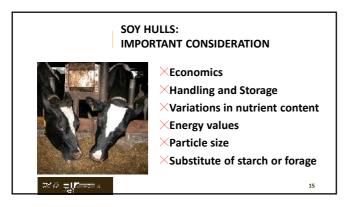
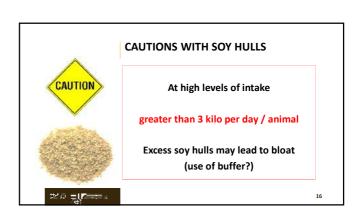


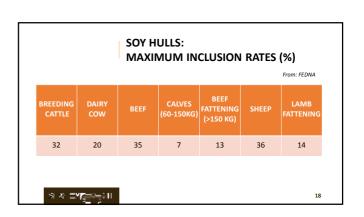
FIBROUS CO PRODUCTS COMPARISON: CHEMICAL COMPOSITION AND FIBER DIGESTION SOY **BREWERS** COTTONSEED BEET PULP SPECIFICATIONS HULLSA HULLS CP (% of DM) 11.3 25.4 9.7 4.1 NDF (% of DM) 70.3 46.0 54.0 90.0 Lignin (% of DM) 6.0 2.0 24.0 NDF K_d, h⁻¹ (% of DM) 0.070 0.043 0.116 0.035 0.5 2.7 NDF Lag, h (% of DM) 0.8 NDF in soybean hulls and beet pulp is obviously very rapidly digested. ^o Data for soyhulls from Shain et al. (20). ^b NDF digestion data from Torrent et al. and 13



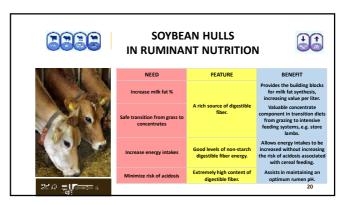


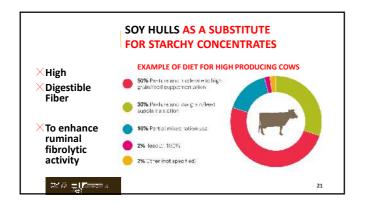


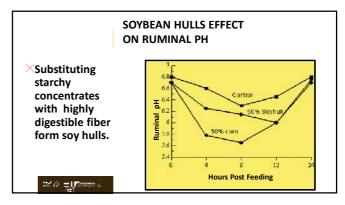


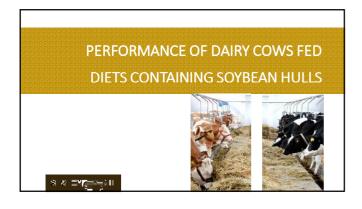






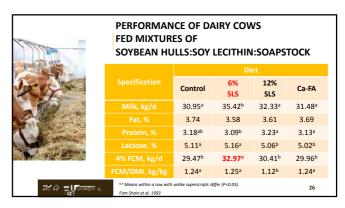


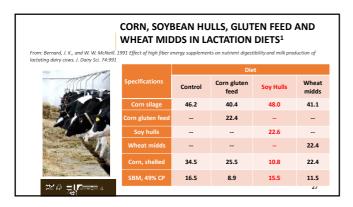


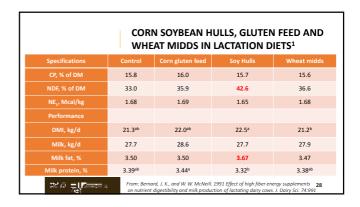


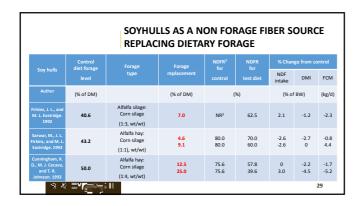
From: Nakamura, T., and F. G. Owen. 1989. High amounts of soy hulls for pelleted concentrate diets. J. Dairy Sci. 72:988 PERFORMANCE OF DAIRY COWS FED DIETS CONTAINING SOYBEAN HULLS IN PLACE OF CORN IN THE CONCENTRATE MIX			
Specifications	Diets		
	Corn	Corn-Soy Hulls	Soy Hulls
DMI, % of BW	4.32	4.36	4.38
Milk, kg/d	29.8ª	28.9 ^{ab}	27.3 ^b
3.5% FCM, kg/d	27.8	28.1	27.1
FCM/DMI, kg/kg	1.20	1.18	1.15
Milk fat, %	3.13 ^a	3.33 ^{ab}	3.49 ^b
Milk protein, %	3.08 ^a	3.00 ^a	2.84 ^b
Milk lactose, %	5.06	4.85	5.11
% % ≣ ∨r _==:II %	As Access within a row with unilie superscripts differ (P.0.0.5). **Holomura, T., and F. G. Owen. 1989. High amounts of soy hulls for pelleted concentrate diets. J. Dairy Sci. 72:988 24		

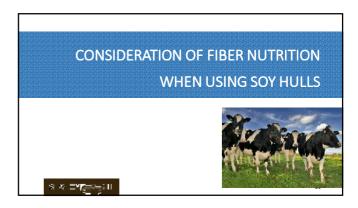


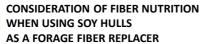












- \times ADF = 19 to 21% of dry matter (minimum)
- × NDF = 26 to 29% (minimum)
- × NDF from coarse roughage = at least 65% of NDF from coarse roughage
- \times Particle size = 1 cm theoretical length of cut

aco = Terme v

Adequate fiber level of proper particle length assures normal chewing activity and ruminal function.

SOY HULLS
CONCLUDING REMARKS

