HOW TO CALCULATE Potential Fermentable Fiber (pFF or pfNDF)

pFF = potential Fermentable Fiber =
NDF – Indigestible Fiber = NDF –((100 - TDN) - FML

Note - calculate NDF(Neutral Detergent Fiber) and TDN (Total Digestible Nutrients) on a dry matter basis from hay or feed analysis

FML = Fecal metabolic loss, plug in around 10% for grain, 12% for byproduct feeds and 15% for forages

Indigestible Fiber is (100 - TDN) - FML

SUMMARY OF HAY SAMPLES AND HOW THEY MEET SMALL RUMINANT REQUIREMENTS

Hay Samples	NDF	TDN	FML	Indigest. Fiber	pFF	CP	
Cornell Sheep Farm (CUSF) –" 1st" Cut Late (after one grazing) - Grass	60.1	58	15	27	33.1	18.2	DAMP
Cornell Sheep Farm (CUSF) – 2nd Cut - Grass	60.4	59	15	26	34.4	14.9	
SwantonFarm – 1st Cut – mostly Grass	67.9	56	15	29	38.9	7.8	
SwantonFarm – 2nd Cut – Grass/Clover	52.6	59	15	26	26.6	12.7	
HH Farm – 1st Cut Late (no grazing) – Grass, Forbs, Legumes	58.3	57	15	28	30.3	8.6	
HH Farm– 2nd Cut – Grass/Alfalfa	53.7	59	15	26	27.7	13.5	
LR Farm– 2nd Cut – Trefoil/Grass	58.9	58	15	27	31.9	11.9	DAMP

Total Diet Requirements for Ewes/Does	Early Pregnancy		Late Pregnancy		Early Lactation			Late Lactation		
# of lambs/kids		1	2	3	1	2	3	1	2	3
Digestible Dry Matter % - use TDN figures	55	60	63	65	65	70	75	60	65	70
Dry Matter Intake, lb	3	4	4.2	4.4	6	7	8	5	5.5	6
Crude Protein%	10	11	11.5	12	14	15	16	12	13	14
INDigestible Fiber	30	25	23	20	20	15	10	25	20	15
Fermentable Fiber	20	22	22	22	22	26	30	21	25	28