

## Small Ruminant Parasite Herd Risk Analysis

Risk Factors	Scoring guidelines	Risk Level Score	Score
Are multiple adult animals in the same maternity pens?	Yes, single animal in maternity pen at a time Occasionally multiple animals are in maternity pens Frequently multiple animals are in maternity pens Always have multiple animal in maternity pens	Lowest 0-1 Minimal $\geq 3$  Moderate $\geq 6$ Highest $\geq 8$	
Are dams treated for worms prior to entering maternity pen?	Yes, all animals treated with effective product and dose Most animals treated prior to parturition or at least when they come off pasture Only animals that appear to have a problem are treated Animals aren't normally treated at this time	Lowest 0-1 Minimal $\geq 3$  Moderate $\geq 6$ Highest $\geq 8$	
Are dams and newborns moved to pastures, which have not been grazed by other animals in the current year?	Yes, pre-weaned animals and dams are on 'clean' pastures Dams and pre-weaned may be on pasture only with other young animals or only with animals post worming treatment Dams and pre-weaned are separate but may be on pastures that other herdmates grazed the same year Dams and pre-weaned are in mixed groups on pasture with all ages of animals	Lowest 0-1 Minimal $\geq 3$  Moderate $\geq 6$ Highest $\geq 8$	
Is manure spread on pastures prior to grazing during the same growing season?	No, manure is not spread on pastures or fields to be grazed Manure is only spread in the fall prior to the next growing season, or manure is spread and then hay is made Manure is spread after hay is harvested the same growing season, prior to this field being used for grazing Manure is spread on pastures and grazed the same season	Lowest 0-1 Minimal $\geq 3$  Moderate $\geq 6$ Highest $\geq 8$	
Are animals of various ages and stages of production on the same pasture?	No, each age group or production group is grazed separately Animals groups may use the same pasture in a growing season, but there are several weeks between grazing times Younger animals always forward graze ahead of older animals Different ages and production stages are on the pasture at the same time	Lowest 0-1  Minimal $\geq 3$  Moderate $\geq 6$ Highest $\geq 8$	
Does the producer have a systematic means of determining which animals need anthelmintic treatment?	Yes, producer follows FAMACHA or other tested system Producer uses body condition or other parameters Producer uses fecal counts from single animals Producer treats only when clinical signs become obvious	Lowest 0-1 Minimal $\geq 3$  Moderate $\geq 6$ Highest $\geq 8$	
Does the producer have a strategic parasite control program?	Yes, producer matches use of anthelmintics with environmental control methods and animal reservoirs Producer uses pooled egg counts to monitor effectiveness and timing Producer uses anthelmintics several times after grazing season begins Producer uses various anthelmintics when clinical signs appear or when weight loss is noticed	Lowest 0-1  Minimal $\geq 3$  Moderate $\geq 6$ Highest $\geq 8$	
Does the producer work with his/her veterinarian to determine which therapy plan will be most effective, has a strategy, and considers resistance factors.	Yes, effective, tested products at appropriate rates are used only within a control program that includes animal and environment Products are selected and used just based on published label claims Products are selected and used based on advertising or word of mouth claims Products are used without a real plan or sense of purpose	Lowest 0-1  Minimal $\geq 3$  Moderate $\geq 6$ Highest $\geq 8$	
		<b>Total (max 80)</b>	

## Pasture Management

Risk Factors	Scoring Guidelines	Risk Level Score	Score
Are pasture soils droughty or poorly drained?	No, pasture plants show no stress after 14 days of drought. No, pasture plants show stress after 8 -12 days of drought. Yes, soils are very droughty or very wet	Low (0-1) Medium (4-6) High (8-10)	
Is the soil pH in the optimum range for most pasture species?	Yes, pH is between 6.5 and 6.8. Yes, pH is between 6.0 and 6.5. No, pH is below 6.0 or is unknown.	Low (0-1) Medium (4-6) High (8-10)	
Are soil P and K sufficient to produce vigorous plant growth?	Yes, soil test P & K are above the optimum range. Yes, soil test P & K are in the optimum range. No, soil test P & K are below optimum range or unknown.	Low (0-1) Medium (4-6) High (8-10)	
Are there many bare areas in the pastures?	No, less than 5% of the pasture is bare of plants. Bare spots account for 5 to 10% of the area. Bare spots account for 10% or more of the pasture area.	Low (0-1) Medium (4-6) High (8-10)	
Do legumes in the pasture contribute a large percentage to grazeable herbage?	Yes, legumes make up more than 30% of the pasture. In most pastures legumes make up 5 - 30% of the pasture. No, legume density is low, less than 5% of the pasture.	Low (0-1) Medium (4-6) High (8-10)	
Are poisonous plants or weeds able to be grazed by the animals?	No, poisonous plants are removed in or near the pastures A few, but look several times each year for them. Not aware some plants might be poisonous to my animals.	Low (0-1) Medium (4-6) High (8-10)	
Is nitrogen applied in sufficient quantities when legumes comprise less than 25 % of the pasture sward?	Yes, they receive 100 to 150 lbs/ac nitrogen. No, they receive 50 to 80 lbs/ac nitrogen. Many pastures receive less than 30 lbs/ac nitrogen per year.	Low (0-1) Medium (4-6) High (8-10)	
Are pastures grazed to an ideal stubble height that is ideal for the forage species present?	Residual stubble is 2 - 6 inches at least 75 % of the time. Residual stubble is 2 to 6 inches 30 to 60 % of the time. No, residual stubble can be less than 2 or greater than 6 inches 75 % of the time.	Low (0-1) Medium (4-6) High (8-10)	
		<b>Total (max 80)</b>	

## Environmental Quality

Risk Factors	Scoring Guidelines	Risk Level Score	Score
Do animals have access to streams and ponds?	No, animals are fenced away from all streams and ponds. Animals have access to water but other areas are fenced. Yes, animals can freely walk into streams and ponds.	Low (0-1) Medium (4-6) High (8-10)	
Is wildlife able to inhabit the riparian area around your streams and ponds?	Yes, areas are maintained to attract wildlife. Some areas are mowed so they aren't such an eyesore. No interest in maintaining wildlife habitat.	Low (0-1) Medium (4-6) High (8-10)	
How are current and forecasted weather conditions considered when deciding to apply fertilizers and pesticides?	Spraying is NOT done when windy and no spraying or spreading occurs when appreciable rain is forecast.. Sometimes applied when the long-term forecast is not good. We have to stay on schedule with all the jobs that need to be done.	Low (0-1) Medium (4-6) High (8-10)	
Have soil and nutrient conservation plans been developed for your farm, especially for cropped acreage?	Yes, we are concerned with & engage in conservation planning. Pastures are inherently conservation-friendly and some of the cropped acres have a conservation plan. We don't plan to until we are asked or forced to develop a plan.	Low (0-1) Medium (4-6) High (8-10)	
How is manure managed during the winter months?	It is kept in the barn or is stacked outside when necessary. On occasion it is spread, usually on non-sloping fields. It is spread onto fields throughout the winter season.	Low (0-1) Medium (4-6) High (8-10)	
How frequently is manure spread near streams or ponds or on areas where runoff would carry manure into these waters?	Very seldom, it is spread away from open water or where runoff could easily move manure into these waters. Not very often. Heavy rain could cause a problem. Fairly often, much of my land is located in these areas.	Low (0-1) Medium (4-6) High (8-10)	
		<b>Total (max 60)</b>	

**Farm Management**

Risk Factors	Scoring Guidelines	Risk	Score
		Level Score	
Are animals checked daily?	Yes, occurs frequently Yes, occurs occasionally Never or rarely occurs	Lowest 0-1 Moderate 4-6 Highest 8-10	
Are animals reaching market weight or breeding weight at appropriate ages?	Yes, occurs frequently Yes, occurs occasionally Never or rarely occurs	Lowest 0-1 Moderate 4-6 Highest 8-10	
Is lambing/kidding % satisfactory?	Yes, every season Yes, occasionally Never	Lowest 0-1 Moderate 4-6 Highest 8-10	
Is body conditioning/scoring checked regularly on the animals?	Yes, occurs frequently Yes, occurs occasionally Never or rarely occurs	Lowest 0-1 Moderate 4-6 Highest 8-10	
Are records of animal health, production, marketing, sales, etc. routinely kept current?	Yes, occurs frequently Yes, occurs occasionally Never or rarely occurs	Lowest 0-1 Moderate 4-6 Highest 8-10	
Are a variety of practices used to decrease/avoid internal parasites?	Yes a variety of methods are always used Yes a variety are sometimes used No, only one method is used	Lowest 0-1 Moderate 4-6 Highest 8-10	
		<b>Total (max 60)</b>	

**Farm Marketing**

Risk Factors	Scoring Guidelines	Risk	Score
		Level Score	
Is the farm meeting production & economic goals?	Yes, occurs frequently Yes, occurs occasionally Never or rarely occurs	Lowest 0-1 Moderate 4-6 Highest 8-10	
Is production timed to obtain the best price for products?	Yes, we time our production to obtain the best quality products Yes, we try but are sometimes off in this timing No timing in production is used.	Lowest 0-1 Moderate 4-6 Highest 8-10	
Are a variety of methods used to sell products from the farm?	Yes, products are sold at a variety of markets & directly off the farm Yes, products are sold at a few markets No, products are sold only at one place	Lowest 0-1 Moderate 4-6 Highest 8-10	
Is a marketing plan used to sell products?	Yes, we are satisfied with the marketing plan in place Yes, but could improve our plan No marketing plan is used	Lowest 0-1 Moderate 4-6 Highest 8-10	
Are value-added products sold to increase profitability of the farm enterprise?	Yes, occurs frequently Yes, occurs occasionally Never or rarely occurs	Lowest 0-1 Moderate 4-6 Highest 8-10	
		<b>Total (max 50)</b>	