## **Assessing Risk Factors for Parasites**

### Parasite risk

# Higher Class and age of stock:

Weaners Wapiti deer Low CARLA genetics

#### **Environmental factors:**

Warm wet conditions
Autumn/spring
Unusually wet
summer/autumn
Irrigated pastures
Lower altitude
Soil – low biological activity

### Management factors:

Nutrition – poor level Pre-rut weaning High stocking rates Set stocking Deer only grazing

Post grazing residual: < 1250kgDM/ha Grass dominant pasture

### Intermediate



# Lower Class and age of stock:

Adults Red deer High CARLA genetics

#### **Environmental factors:**

Cold dry conditions Winter/summer Drought

Non-irrigated pastures Higher altitude Soil – high biological activity

### **Management factors:**

Nutrition – good level
Post-rut weaning
Low stocking rates
Rotational grazing
Cross-grazing deer and
sheep/cattle
Post grazing residual:
> 1500kgDM/ha
Alternative forages

### **Treatment considerations**

Treat weaners earlier in summer/autumn and more frequently.
Rising yearlings likely to need treatment in spring.

Some adults may need targeted treatment.

Treat weaners in autumn and repeat when necessary.

Rising yearlings +/treatment in spring.

Avoid treating adults if possible.

Treat weaners in autumn but less frequently.

Rising yearlings unlikely to need treatment in spring.

Adults unlikely to need treatment.

## Risk of anthelmintic resistance developing:

### **Increased Risk**

Deer farming >10 years

Deer only grazing

Pour-on anthelmintics used often
Under-dosing – incorrect dose rate
Persistent use of single active anthelmintic
Adult deer treated regularly

No quarantine drench Finisher only deer blocks

Refugia plan not in place Drench gun delivery check not done



Deer farming < 5 years

Cross-grazing deer and sheep/cattle
Effective deer anthelmintic used

Correct dose rate

Triple Combination
Anthelmintic
Adult deer never or rarely
treated
Quarantine drench
Finisher block integrated with
other classes/species
Refugia policy in place
Drench gun delivery checked
regularly

