

# Trace Element “Cheat Sheet”

We thought this cheat sheet based on season and management practices, rather than just the trace element itself might be a handy thing to have in your vehicle:

## Dairy cattle:

Season	Timing	Calves	Yearlings/ heifers	Cows
Winter	Pre-calving			Serum selenium 5 Serum copper 10
Spring	Post-weaning	<b>Whole blood selenium*</b> 5		
		<u>Serum selenium*</u> 5		
Summer	Pre-mating		<b>Whole blood selenium*</b> 5	<b>Whole blood selenium*</b> 5
			<u>Serum selenium*</u> 5	<u>Serum selenium*</u> 5
			Liver copper* ≥10	Liver copper* ≥10
			<u>Serum copper*</u> 10	<u>Serum copper*</u> 10
Autumn	Pregnancy testing	<b>Whole blood selenium*</b> 5	<b>Whole blood selenium*</b> 5	
		<u>Serum selenium*</u> 5	<u>Serum selenium*</u> 5	
Autumn	Post-weaning	Liver copper ≥10	<u>Liver copper*</u> ≥10	Liver copper* ≥10
		Serum copper 10	Serum copper* 10	Serum copper* 10
				Whole blood selenium* 5
				<u>Serum selenium*</u> 5
				<u>Liver selenium*</u> 5

## Beef cattle:

Season	Timing	Calves	Yearlings/ heifers	Cows
Winter	Pre-calving			Serum selenium 5 Serum copper 10
Spring	Marking	<b>Whole blood selenium*</b> 5		
		<u>Serum selenium*</u> 5		
Summer	Pre-mating			Serum selenium 5 Serum copper 10
Autumn	Weaning or pregnancy testing	<b>Whole blood selenium*</b> 5	<b>Whole blood selenium*</b> 5	
		<u>Serum selenium*</u> 5	<u>Serum selenium*</u> 5	
Autumn	Post-weaning	Liver copper ≥10	<u>Liver copper*</u> ≥10	<u>Liver copper*</u> ≥10
		Serum copper 10	Serum copper* 10	Serum copper* 10
			Whole blood selenium* 5	Whole blood selenium* 5
			<u>Serum selenium*</u> 5	<u>Serum selenium*</u> 5
			<u>Liver selenium*</u> 5	<u>Liver selenium*</u> 5

**Bold font\*** - trace element highly significant for this stock class  
Normal font - trace element less significant for this stock class  
Underlined - preferred sample for this stock class

**Sample types required:**  
Serum - red top tube; Liver - biopsy tube; Whole blood - EDTA

Please refer to our current price book for sample types, test turn-around times and pricing. If you have any questions or would like any further information, please contact your local Gribbles Veterinary laboratory or Territory Manager.

### Sheep:

Season	Timing	Pre-weaned lambs	Weaned lambs	Ewes
Winter	Mid-pregnancy			<b>Serum inorganic iodine*</b> 10
	Pre-lambing			<b>Whole blood selenium*</b> 5 <b>Liver selenium*</b> 5 Liver copper ≥10
Spring	Lambing	<b>Lamb thyroid:body weight ratio*</b>		
	Pre-weaning	<b>Liver B12*</b> 5 Whole blood selenium 5		
Summer	Post-weaning		<u>Liver B12*</u> 5 <b>Serum B12*</b> 10 Whole blood selenium* 5 <b>Liver selenium*</b> 5	
Autumn	Pre-tupping			<b>Whole blood selenium*</b> 5 <u>Liver selenium*</u> 5

### Deer:

Season	Timing	Weaners	Yearlings	Adults
Winter	After scanning		<b>Liver copper*</b> ≥10 <b>Serum copper*</b> 10 Whole blood selenium 5	
				<u>Liver copper*</u> ≥10 <b>Serum copper*</b> 10 <u>Liver selenium*</u> 5 <u>Whole blood selenium*</u> 5
Spring	Pre-calving			
Summer	At slaughter	<u>Liver copper*</u> ≥10 <u>Liver selenium*</u> 5		
Autumn	Post-weaning			<u>Liver copper*</u> ≥10 <b>Serum copper*</b> 10 <u>Liver selenium*</u> 5 <b>Whole blood selenium*</b> 5

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