

Kees Zeestraten  
 Ohau Downs Wairepo Block  
 File: OD\_CROP\_100 ha\_Wairepo.ovc

Melissa Robson

## Parameter report

Parameter name	Units	Value
Assessment year not given		
Region		High Country (> 300 m)

### Block setup summary

Block name	Effective area (ha)	
Year 1 rotation	33.0	
Year 2 rotation	33.0	
Year 3 rotation	33.0	
Total area		1000

### Block Information

Parameter name	Units	Value
Block name		Year 1 rotation
Effective area	ha	33
Region		High Country (> 300 m)
Cultivated area	% of area	100
Distance from coast	km	90
Rainfall	mm	706
Seasonal variation in rainfall		Low
Annual potential evapotranspiration (PET)		801-950
Seasonal variation in PET		Moderate
Soil type		HOLBROOK
Soil order (default)		Recent
Soil group (default)		Sedimentary
Soil texture group		Light
Depth to stones		< 0.3 m
TBK reserve K test		Not known
Final grid month		December
Years in pasture		10

### Irrigation nutrient concentrations for block

Irrigation Source		Block specific						
Irrigation Units		mg/l						
N	P	K	S	Ca	Mg	Na		
0.5	0.1	1.6	2.5	9.3	2.2	9.5		

### Crop Information

Prior history		Pasture
<b>Previous year</b>		
January	Crop	Grazed pasture
Irrigation rate	mm	100

## Block Information

Parameter name	Units	Value					
February	Crop	Grazed pasture					
Irrigation rate	mm	100					
March	Crop	Grazed pasture					
Irrigation rate	mm	100					
April	Crop	Grazed pasture					
May	Crop	Grazed pasture					
June	Crop	Grazed pasture					
<b>Lime / dolomite application</b>							
Lime material		Lime (good quality)					
Rate	kg/ha/yr	250					
July	Crop	Grazed pasture					
August	Crop	Grazed pasture					
September	Crop	Grazed pasture					
October	Crop	Grazed pasture					
<b>Soluble fertiliser (kg/ha/month)</b>							
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>
Urea	50	0	0	0	0	0	0
November				Crop			Grazed pasture
<b>Soluble fertiliser (kg/ha/month)</b>							
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>
Urea	50	0	0	0	0	0	0
Irrigation rate				mm		100	
December				Crop			Grazed pasture
<b>Soluble fertiliser (kg/ha/month)</b>							
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>
Urea	50	0	0	0	0	0	0
Irrigation rate				mm		100	
<b>Current assessment year</b>							
January	Crop	Grazed pasture					
Irrigation rate	mm	100					
February	Crop	Grazed pasture					
March							
Management Option		Crop sown					
<b>Crop sowing details</b>							
Crop category		Grain crops					
Crop type		Wheat (autumn)					
Product yield	grain	12					
Cultivation practice at sowing		Direct drilled					
Residual disposal method		Removed					
Olsen P		22					
QT K		7					
QT Ca		5					
QT Mg		9					
QT Na		8					
<b>Soluble fertiliser (kg/ha/month)</b>							
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>
None	0	35	110	13	0	0	0
Irrigation rate				mm		25	
April				Crop			Wheat (autumn)

## Block Information

Parameter name					Units	Value			
May					Crop	Wheat (autumn)			
June					Crop	Wheat (autumn)			
July					Crop	Wheat (autumn)			
August					Crop	Wheat (autumn)			
September					Crop	Wheat (autumn)			
Irrigation rate					mm	25			
October					Crop	Wheat (autumn)			
<b>Soluble fertiliser (kg/ha/month)</b>									
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>		
Urea	120	0	0	12	0	20	0		
Irrigation rate					mm	50			
November					Crop	Wheat (autumn)			
<b>Soluble fertiliser (kg/ha/month)</b>									
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>		
Urea	60	0	0	0	0	0	0		
Irrigation rate					mm	50			
December					Crop	Wheat (autumn)			
<b>Soluble fertiliser (kg/ha/month)</b>									
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>		
Urea	40	0	0	0	0	0	0		

## Block Information

Parameter name					Units	Value			
Block name						Year 2 rotation			
Effective area					ha	33			
Region						High Country (> 300 m)			
Cultivated area					% of area	100			
Distance from coast					km	90			
Rainfall					mm	706			
Seasonal variation in rainfall						Low			
Annual potential evapotranspiration (PET)						801-950			
Seasonal variation in PET						Moderate			
Soil type						FORK			
Soil order (default)						Brown			
Soil group (default)						Sedimentary			
Soil texture group						Light			
Depth to stones						0.3 - 0.7 m			
TBK reserve K test						Not known			
Final grid month						December			
Years in pasture						9			
Irrigation nutrient concentrations for block									
Irrigation Source						Block specific			
Irrigation Units						mg/l			
	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>		
	0.5	0.1	1.6	2.5	9.3	2.2	9.5		

## Block Information

Parameter name	Units	Value
<b>Crop Information</b>		
Prior history		Grain crop
<b>Previous year</b>		
January		
Management Option		Crop sown
<b>Crop sowing details</b>		
Crop category		Grain crops
Crop type		Wheat (autumn)
Product yield	grain	11
Cultivation practice at sowing		Direct drilled
Residual disposal method		Retained
Olsen P		22
QT K		7
QT Ca		5
QT Mg		9
QT Na		8
<b>Soluble fertiliser (kg/ha/month)</b>		
<b>N Type</b>	<b>N</b>	<b>P</b>
None	0	30
	<b>K</b>	<b>S</b>
	110	13
		<b>Ca</b>
		0
		<b>Mg</b>
		0
		<b>Na</b>
		0
February		Crop
March		Crop
Irrigation rate		mm
April		Crop
May		Crop
June		Crop
July		Crop
August		Crop
September		Crop
Irrigation rate		mm
October		Crop
<b>Soluble fertiliser (kg/ha/month)</b>		
<b>N Type</b>	<b>N</b>	<b>P</b>
Urea	120	0
	<b>K</b>	<b>S</b>
	0	12
		<b>Ca</b>
		0
		<b>Mg</b>
		20
		<b>Na</b>
		0
Irrigation rate		mm
November		Crop
<b>Soluble fertiliser (kg/ha/month)</b>		
<b>N Type</b>	<b>N</b>	<b>P</b>
Urea	60	0
	<b>K</b>	<b>S</b>
	0	0
		<b>Ca</b>
		0
		<b>Mg</b>
		0
		<b>Na</b>
		0
Irrigation rate		mm
December		Crop
<b>Soluble fertiliser (kg/ha/month)</b>		
<b>N Type</b>	<b>N</b>	<b>P</b>
Urea	40	0
	<b>K</b>	<b>S</b>
	0	0
		<b>Ca</b>
		0
		<b>Mg</b>
		0
		<b>Na</b>
		0
Irrigation rate		mm
<b>Current assessment year</b>		
January		
Management Option		Final harvest
February		Crop
		No crop uptake

## Block Information

Parameter name	Units	Value					
March							
Management Option		Crop sown					
<b>Crop sowing details</b>							
Crop category		Forages					
Crop type		Triticale (autumn)					
Yield at final defoliation	dry matter	13					
Cultivation practice at sowing		Direct drilled					
Olsen P		22					
QT K		10					
QT Ca		5					
QT Mg		15					
QT Na		8					
<b>Soluble fertiliser (kg/ha/month)</b>							
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>
None	0	50	80	13	0	0	0
Irrigation rate				mm		25	
April				Crop		Triticale (autumn)	
May				Crop		Triticale (autumn)	
June				Crop		Triticale (autumn)	
July				Crop		Triticale (autumn)	
August				Crop		Triticale (autumn)	
September							
Management Option						Defoliation	
<b>Defoliation details</b>							
Defoliation method						Grazed in situ	
Dominant animal type						Male cattle	
<b>Soluble fertiliser (kg/ha/month)</b>							
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>
Urea	50	0	0	12	0	20	0
October				Crop		Triticale (autumn)	
<b>Soluble fertiliser (kg/ha/month)</b>							
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>
Urea	100	0	0	0	0	0	0
Irrigation rate				mm		50	
November				Crop		Triticale (autumn)	
<b>Soluble fertiliser (kg/ha/month)</b>							
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>
Urea	75	0	0	0	0	0	0
Irrigation rate				mm		50	
December				Crop		Triticale (autumn)	
Irrigation rate				mm		50	

## Block Information

Parameter name	Units	Value
Block name		Year 3 rotation
Effective area	ha	33
Region		High Country (> 300 m)

## Block Information

Parameter name	Units	Value
Cultivated area	% of area	100
Distance from coast	km	90
Rainfall	mm	706
Seasonal variation in rainfall		Low
Annual potential evapotranspiration (PET)		801-950
Seasonal variation in PET		Moderate
Soil type		PUKAKI
Soil order (default)		Brown
Soil group (default)		Sedimentary
Soil texture group		Medium
Depth to stones		0.3 - 0.7 m
TBK reserve K test		Not known
Final grid month		December
Years in pasture		8

### Irrigation nutrient concentrations for block

Irrigation Source							
Irrigation Units							
N	P	K	S	Ca	Mg	Na	
0.5	0.1	1.6	2.5	9.3	2.2	9.5	Block specific mg/l

## Crop Information

Prior history		Grain crop					
<b>Previous year</b>							
January							
Management Option		Final harvest					
February	Crop	No crop uptake					
March							
Management Option		Crop sown					
<b>Crop sowing details</b>							
Crop category		Forages					
Crop type		Triticale (autumn)					
Yield at final defoliation	dry matter	13					
Cultivation practice at sowing		Direct drilled					
Olsen P		22					
QT K		10					
QT Ca		5					
QT Mg		15					
QT Na		8					
<b>Soluble fertiliser (kg/ha/month)</b>							
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>
None	0	50	80	13	0	0	0
Irrigation rate				mm		25	
April				Crop		Triticale (autumn)	
May				Crop		Triticale (autumn)	
June				Crop		Triticale (autumn)	
July				Crop		Triticale (autumn)	
August				Crop		Triticale (autumn)	
September							

## Block Information

Parameter name					Units	Value			
Management Option						Defoliation			
<b>Defoliation details</b>									
Defoliation method						Grazed in situ			
Dominant animal type						Male cattle			
<b>Soluble fertiliser (kg/ha/month)</b>									
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>		
Urea	50	0	0	12	0	20	0		
October					Crop	Triticale (autumn)			
<b>Soluble fertiliser (kg/ha/month)</b>									
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>		
Urea	100	0	0	0	0	0	0		
Irrigation rate					mm	50			
November					Crop	Triticale (autumn)			
<b>Soluble fertiliser (kg/ha/month)</b>									
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>		
Urea	75	0	0	0	0	0	0		
Irrigation rate					mm	50			
December					Crop	Triticale (autumn)			
Irrigation rate					mm	50			
<b>Current assessment year</b>									
January									
Management Option						Final harvest			
February					Crop	No crop uptake			
March									
Management Option						Crop sown			
<b>Crop sowing details</b>									
Crop category						Grain crops			
Crop type						Wheat (autumn)			
Product yield					grain	12			
Cultivation practice at sowing						Direct drilled			
Residual disposal method						Removed			
Olsen P						22			
QT K						10			
QT Ca						5			
QT Mg						15			
QT Na						8			
<b>Soluble fertiliser (kg/ha/month)</b>									
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>		
DAP	25	42	100	13	0	0	0		
Irrigation rate					mm	25			
April					Crop	Wheat (autumn)			
May					Crop	Wheat (autumn)			
June					Crop	Wheat (autumn)			
July					Crop	Wheat (autumn)			
August					Crop	Wheat (autumn)			
September					Crop	Wheat (autumn)			
<b>Soluble fertiliser (kg/ha/month)</b>									
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>		
Urea	75	0	0	12	0	20	0		

## Block Information

Parameter name					Units	Value			
Irrigation rate					mm	25			
October					Crop	Wheat (autumn)			
<b>Soluble fertiliser (kg/ha/month)</b>									
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>		
Urea	50	0	0	0	0	0	0	0	
Irrigation rate					mm	50			
November						Final harvest			
Management Option						Final harvest			
<b>Soluble fertiliser (kg/ha/month)</b>									
<b>N Type</b>	<b>N</b>	<b>P</b>	<b>K</b>	<b>S</b>	<b>Ca</b>	<b>Mg</b>	<b>Na</b>		
Urea	50	0	0	0	0	0	0	0	
Irrigation rate					mm	50			
December						Crop sown			
Management Option						Crop sown			
<b>Crop sowing details</b>									
Crop category						Forages			
Crop type						Annual ryegrass			
Cultivation practice at sowing						Direct drilled			
Olsen P						22			
QT K						7			
QT Ca						5			
QT Mg						9			
QT Na						8			
Irrigation rate					mm	50			