



# GROUND COVER™

# Paddock Diary

FOR Paddock RECORDING ONLY

INSERT YEAR HERE 20 \_\_\_\_



**GRDC™**

GRAINS RESEARCH  
& DEVELOPMENT  
CORPORATION































# PADDOCK OBSERVATIONS

Year: \_\_\_\_\_ Paddock Name: \_\_\_\_\_ Total Arable Area: \_\_\_\_\_ (ha) Crop: \_\_\_\_\_ Variety: \_\_\_\_\_

Observation	CHECK 1 PRE SEASON			CHECK 2 ESTABLISHMENT			CHECK 3 TILLERING/BRANCHING			CHECK 4 ELONGATION			CHECK 5 FLOWERING			CHECK 6 HARVEST			
	Date	Record		Date	Record		Date	Record		Date	Record		Date	Record		Date	Record		
Soil	Wet soil depth																		
	Plant available water																		
	Seed bed condition																		
	Stubble cover %																		
	Test results - P																		
	Test results - N																		
Crop Protection	Test results - Root disease																		
	Test results - other																		
	Weeds																		
	Weeds																		
	Weeds																		
	Weeds																		
Crop Observations	Disease																		
	Disease																		
	Disease																		
	Pests																		
	Pests																		
	Pests																		
Crop Observations	Growth stage																		
	Nutrient Status - P																		
	Nutrient Status - N																		
	Nutrient Status - Trace																		
	Density																		
	Stresses																		
Crop Observations	Seeding depth																		
	Row spacing																		

## PADDOCK MAP


## NOTES

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## WUE (WATER USE EFFICIENCY)

Crop	Date	Record
Growing Season Rain (GSR) = [		] mm
Water Loss Factor (WLS)		
Effective Rainfall (ER) = (GSR - WLS)		
ER = [		] - [
Yield [		] t/ha
Water Use Efficiency (WUE)		
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$		
WUE = $\frac{[ \quad ] \times 1000}{[ \quad ]}$		] kg/ha/mm

GSR Growing Season Rainfall, ER Effective Rainfall, WLF Water Loss Factor

## CROP PERFORMANCE

Date	Record
Yield	
Grade	
Price (\$/t)	
Quality issues	
Hectolitre weight	
Screenings	
Protein	
Oil	
Admixture	



























# PADDOCK OBSERVATIONS

Year: Paddock Name: Total Arable Area: (ha) Crop: Variety:

Observation	CHECK 1 PRE SEASON			CHECK 2 ESTABLISHMENT			CHECK 3 TILLERING/BRANCHING			CHECK 4 ELONGATION			CHECK 5 FLOWERING			CHECK 6 HARVEST			
	Date	Record		Date	Record		Date	Record		Date	Record		Date	Record		Date	Record		
Soil	Wet soil depth																		
	Plant available water																		
	Seed bed condition																		
	Stubble cover %																		
	Test results - P																		
	Test results - N																		
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Crop Protection	Test results - other																		
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	Weeds																		
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	Disease																		
	Disease																		
Crop Observations	Disease																		
	Pests																		
	Pests																		
	Pests																		
	Growth stage																		
	Nutrient Status - P																		
	Nutrient Status - N																		
Crop Observations	Nutrient Status - Trace																		
	Density																		
	Stresses																		
	Seeding depth																		
	Row spacing																		

## CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		

## WUE (WATER USE EFFICIENCY)

**Crop** \_\_\_\_\_

Growing Season Rain (GSR) = [ \_\_\_\_\_ ] mm

Water Loss Factor (WLS) \_\_\_\_\_

Effective Rainfall (ER) = (GSR - WLS)

ER = [ \_\_\_\_\_ ] - [ \_\_\_\_\_ ] = [ \_\_\_\_\_ ] mm

Yield [ \_\_\_\_\_ ] t/ha

**Water Use Efficiency (WUE)**

WUE =  $\frac{\text{Yield} \times 1000}{\text{ER}}$

WUE =  $\frac{[ \quad ] \times 1000}{[ \quad ]}$  = [ \_\_\_\_\_ ] kg/ha/mm

GSR Growing Season Rainfall, ER Effective Rainfall, WLS Water Loss Factor

## NOTES

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## PADDOCK MAP




# PADDOCK OBSERVATIONS

Year: \_\_\_\_\_ Paddock Name: \_\_\_\_\_ Total Arable Area: \_\_\_\_\_ (ha) Crop: \_\_\_\_\_ Variety: \_\_\_\_\_

Observation	CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record
Soil	Wet soil depth											
	Plant available water											
	Seed bed condition											
	Stubble cover %											
	Test results - P											
	Test results - N											
Crop Protection	Test results - Root disease											
	Test results - other											
	Weeds											
	Weeds											
	Weeds											
	Weeds											
	Weeds											
	Disease											
	Disease											
	Disease											
Crop Observations	Pests											
	Pests											
	Pests											
	Growth stage											
	Nutrient Status - P											
	Nutrient Status - N											
Crop Observations	Nutrient Status - Trace											
	Density											
	Stresses											
	Seeding depth											
	Row spacing											

# PADDOCK MAP


# NOTES

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# WUE (WATER USE EFFICIENCY)

<b>Crop</b>	
<b>Growing Season Rain (GSR) =</b> [                      ] mm	
<b>Water Loss Factor (WLS)</b>	
Effective Rainfall (ER) = (GSR – WLF)	
ER = [                      ] - [                      ] = [                      ] mm	
<b>Yield</b> [                      ] t/ha	
<b>Water Use Efficiency (WUE)</b>	
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$	
WUE = $\frac{[                      ] \times 1000}{[                      ]}$ = [                      ] kg/ha/mm	

**GSR** Growing Season Rainfall, **ER** Effective Rainfall, **WLF** Water Loss Factor

# CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		

























# PADDOCK OPERATIONS

Date	Time		Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (C)	Delta T	Operator	
	Start	Finish																

# PADDOCK OBSERVATIONS

Year: Paddock Name: Total Arable Area: (ha) Crop: Variety:

		CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
Observation	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	
Soil	Wet soil depth												
	Plant available water												
	Seed bed condition												
	Stubble cover %												
	Test results - P												
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	Test results - Root disease												
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Crop Protection	Weeds												
	Weeds												
	Weeds												
	Weeds												
	Weeds												
	Disease												
	Disease												
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	Pests												
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	Nutrient Status - P												
	Nutrient Status - N												
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	Density												
	Stresses												
	Seeding depth												
	Row spacing												

## PADDOCK MAP


## NOTES

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## WUE (WATER USE EFFICIENCY)

<b>Crop</b>	
<b>Growing Season Rain (GSR) = [ ] mm</b>	[ ] mm
<b>Water Loss Factor (WLS)</b>	
Effective Rainfall (ER) = (GSR - WLS)	
ER = [ ] - [ ] = [ ] mm	
<b>Yield [ ] t/ha</b>	
<b>Water Use Efficiency (WUE)</b>	
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$	
WUE = $\frac{[ ] \times 1000}{[ ]} = [ ]$ kg/ha/mm	

## CROP PERFORMANCE

	Date	Record
<b>Yield</b>		
<b>Grade</b>		
<b>Price (\$/t)</b>		
<b>Quality issues</b>		
<b>Hectolitre weight</b>		
<b>Screenings</b>		
<b>Protein</b>		
<b>Oil</b>		
<b>Admixture</b>		

GSR Growing Season Rainfall, ER Effective Rainfall, WLF Water Loss Factor



# PADDOCK OBSERVATIONS

Year: \_\_\_\_\_ Paddock Name: \_\_\_\_\_ Total Arable Area: \_\_\_\_\_ (ha) Crop: \_\_\_\_\_ Variety: \_\_\_\_\_

Observation	CHECK 1 PRE SEASON			CHECK 2 ESTABLISHMENT			CHECK 3 TILLERING/BRANCHING			CHECK 4 ELONGATION			CHECK 5 FLOWERING			CHECK 6 HARVEST		
	Date	Record		Date	Record		Date	Record		Date	Record		Date	Record		Date	Record	
Soil	Wet soil depth																	
	Plant available water																	
	Seed bed condition																	
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	Pests																	
Growth stage																		
Nutrient Status - P																		
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Density																		
Stresses																		
Seeding depth																		
Row spacing																		

# PADDOCK MAP


# NOTES


# WUE (WATER USE EFFICIENCY)

Crop	Date	Record
Growing Season Rain (GSR) = [ ] mm		
Water Loss Factor (WLS)		
Effective Rainfall (ER) = (GSR - WLS)		
ER = [ ] - [ ] = [ ] mm		
Yield [ ] t/ha		
Water Use Efficiency (WUE)		
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$		
WUE = $\frac{[ ] \times 1000}{[ ]} = [ ]$ kg/ha/mm		

# CROP PERFORMANCE

Date	Record
Yield	
Grade	
Price (\$/t)	
Quality issues	
Hectolitre weight	
Screenings	
Protein	
Oil	
Admixture	

GSR Growing Season Rainfall, ER Effective Rainfall, WLS Water Loss Factor



# PADDOCK OBSERVATIONS

Year: \_\_\_\_\_ Paddock Name: \_\_\_\_\_ Total Arable Area: \_\_\_\_\_ (ha) Crop: \_\_\_\_\_ Variety: \_\_\_\_\_

Observation	CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record
<b>Soil</b>  Wet soil depth Plant available water Seed bed condition Stubble cover % Test results - P Test results - N Test results - Root disease Test results - other  Weeds Weeds Weeds Weeds Weeds Disease Disease Disease Pests Pests Pests												
<b>Crop Protection</b>												
<b>Crop Observations</b>												

# PADDOCK MAP


# NOTES


# WUE (WATER USE EFFICIENCY)

<b>Crop</b>	
<b>Growing Season Rain (GSR)</b> = [      ] mm	
<b>Water Loss Factor (WLS)</b>	
Effective Rainfall (ER) = (GSR – WLS)	
ER = [      ] – [      ] = [      ] mm	
<b>Yield</b> [      ] t/ha	
<b>Water Use Efficiency (WUE)</b> WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$	
WUE = $\frac{[      ] \times 1000}{[      ]} = [      ]$ kg/ha/mm	

GSR Growing Season Rainfall, ER Effective Rainfall, WLF Water Loss Factor

# CROP PERFORMANCE

		Date	Record
Yield			
Grade			
Price (\$/t)			
Quality issues			
Hectolitre weight			
Screenings			
Protein			
Oil			
Admixture			

# Paddock Operations

Date	Time		Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (°C)	Delta T	Operator	
	Start	Finish																

# PADDOCK OBSERVATIONS

Year:  Paddock Name:  Total Arable Area:  (ha) Crop:  Variety:

Observation	CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record
Soil	Wet soil depth											
	Plant available water											
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	Test results - P											
Crop Protection	Test results - N											
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	Weeds											
Crop Observations	Weeds											
	Disease											
	Disease											
	Pests											
	Pests											

## WUE (WATER USE EFFICIENCY)

Crop	Date	Record
Growing Season Rain (GSR) = [		] mm
Water Loss Factor (WLS)		
Effective Rainfall (ER) = (GSR - WLS)		
ER = [		] - [
Yield [		] t/ha
Water Use Efficiency (WUE)		
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$		
WUE = $\frac{[ ] \times 1000}{[ ]}$ = [		] kg/ha/mm

## NOTES


## WUE (WATER USE EFFICIENCY)

Crop	Date	Record
Growing Season Rain (GSR) = [		] mm
Water Loss Factor (WLS)		
Effective Rainfall (ER) = (GSR - WLS)		
ER = [		] - [
Yield [		] t/ha
Water Use Efficiency (WUE)		
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$		
WUE = $\frac{[ ] \times 1000}{[ ]}$ = [		] kg/ha/mm

## PADDOCK MAP


GSR Growing Season Rainfall, ER Effective Rainfall, WLS Water Loss Factor





















# PADDOCK OPERATIONS

Date	Time	Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (C)	Delta T	Operator	
	Start																Finish

# PADDOCK OBSERVATIONS

Year: \_\_\_\_\_ Paddock Name: \_\_\_\_\_ Total Arable Area: \_\_\_\_\_ (ha) Crop: \_\_\_\_\_ Variety: \_\_\_\_\_

Observation	CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record
Soil	Wet soil depth											
	Plant available water											
	Seed bed condition											
	Stubble cover %											
	Test results - P											
	Test results - N											
	Test results - Root disease Test results - other											
Crop Protection	Weeds											
	Weeds											
	Weeds											
	Weeds											
	Disease											
	Disease											
	Disease											
Crop Observations	Pests											
	Pests											
	Pests											
	Growth stage											
	Nutrient Status - P											
	Nutrient Status - N											
	Nutrient Status - Trace Density Stresses Seeding depth Row spacing											

# PADDOCK MAP


# NOTES

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# WUE (WATER USE EFFICIENCY)

Crop	Date	Record
Growing Season Rain (GSR) = [ _____ ] mm		
Water Loss Factor (WLS)		
Effective Rainfall (ER) = (GSR - WLS)		
ER = [ _____ ] - [ _____ ] = [ _____ ] mm		
Yield [ _____ ] t/ha		
Water Use Efficiency (WUE)		
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$		
WUE = $\frac{[ \text{_____} ] \times 1000}{[ \text{_____} ]}$ = [ _____ ] kg/ha/mm		

GSR Growing Season Rainfall, ER Effective Rainfall, WLF Water Loss Factor

# CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		

# PADDOCK OPERATIONS

Date	Time		Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (°C)	Delta T	Operator		
	Start	Finish																	

# PADDOCK OBSERVATIONS

Year: Paddock Name: Total Arable Area: (ha) Crop: Variety:

Observation	CHECK 1 PRE SEASON			CHECK 2 ESTABLISHMENT			CHECK 3 TILLERING/BRANCHING			CHECK 4 ELONGATION			CHECK 5 FLOWERING			CHECK 6 HARVEST		
	Date	Record		Date	Record		Date	Record		Date	Record		Date	Record		Date	Record	
Soil	Wet soil depth																	
	Plant available water																	
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# PADDOCK MAP


# NOTES


# WUE (WATER USE EFFICIENCY)

<b>Crop</b>	
<b>Growing Season Rain (GSR)</b> = [ ] mm	
<b>Water Loss Factor (WLS)</b>	
Effective Rainfall (ER) = (GSR - WLF)	
ER = [ ] - [ ] = [ ] mm	
<b>Yield</b> [ ] t/ha	
<b>Water Use Efficiency (WUE)</b>	
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$	
WUE = $\frac{[ ] \times 1000}{[ ]}$ = [ ] kg/ha/mm	

GSR Growing Season Rainfall, ER Effective Rainfall, WLF Water Loss Factor

# CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		

# PADDOCK OPERATIONS

Date	Time Start	Time Finish	Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (C)	Delta T	Operator

# PADDOCK OBSERVATIONS

Year: \_\_\_\_\_ Paddock Name: \_\_\_\_\_ Total Arable Area: \_\_\_\_\_ (ha) Crop: \_\_\_\_\_ Variety: \_\_\_\_\_

Observation	CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record
Soil	Wet soil depth											
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	Weeds											
Crop Observations	Weeds											
	Disease											
	Disease											
	Disease											
	Pests											
	Pests											
	Pests											
	Growth stage											
	Nutrient Status - P											
	Nutrient Status - N											
Crop Observations	Nutrient Status - Trace											
	Density											
	Stresses											
	Seeding depth											
Row spacing												

## PADDOCK MAP


## NOTES

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## WUE (WATER USE EFFICIENCY)

Crop	Date	Record
$Growing\ Season\ Rain\ (GSR) = [ \quad ] \text{ mm}$		
$Water\ Loss\ Factor\ (WLS)$		
$Effective\ Rainfall\ (ER) = (GSR - WLS)$		
$ER = [ \quad ] - [ \quad ] = [ \quad ] \text{ mm}$		
$Yield\ [ \quad ] \text{ t/ha}$		
$Water\ Use\ Efficiency\ (WUE)$		
$WUE = \frac{Yield \times 1000}{ER}$		
$WUE = [ \quad ] \times 1000 = [ \quad ] \text{ kg/ha/mm}$		

**GSR** Growing Season Rainfall, **ER** Effective Rainfall, **WLS** Water Loss Factor

## CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		



# PADDOCK OBSERVATIONS

Year: Paddock Name: Total Arable Area: (ha) Crop: Variety:

Observation	CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
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Crop Observations	Disease											
	Pests											
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	Growth stage											
	Nutrient Status - P											
Crop Observations	Nutrient Status - N											
	Nutrient Status - Trace											
	Density											
	Stresses											
	Seeding depth											
Row spacing												

# PADDOCK MAP


# NOTES

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# WUE (WATER USE EFFICIENCY)

**Crop**

**Growing Season Rain (GSR) =** [                      ] mm

**Water Loss Factor (WLS)**

Effective Rainfall (ER) = (GSR – WLF)

ER = [                      ] – [                      ] = [                      ] mm

**Yield** [                      ] t/ha

**Water Use Efficiency (WUE)**

WUE =  $\frac{\text{Yield} \times 1000}{\text{ER}}$

WUE =  $\frac{[                      ] \times 1000}{[                      ]}$  = [                      ] kg/ha/mm

GSR Growing Season Rainfall, ER Effective Rainfall, WLF Water Loss Factor

# CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		



# PADDOCK OPERATIONS

Date	Time Start	Time Finish	Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (°C)	Delta T	Operator

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GROUNDCOVER™ PADDOCK DIARY

# PADDOCK OBSERVATIONS

Year: \_\_\_\_\_ Paddock Name: \_\_\_\_\_ Total Arable Area: \_\_\_\_\_ (ha) Crop: \_\_\_\_\_ Variety: \_\_\_\_\_

Observation	CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record
Soil	Wet soil depth											
	Plant available water											
	Seed bed condition											
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	Test results - P											
	Test results - N											
Crop Protection	Test results - Root disease											
	Test results - other											
	Weeds											
	Weeds											
	Weeds											
	Weeds											
Crop Observations	Disease											
	Disease											
	Disease											
	Pests											
	Pests											
	Pests											
Crop Observations	Growth stage											
	Nutrient Status - P											
	Nutrient Status - N											
	Nutrient Status - Trace											
	Density											
	Stresses											
Crop Observations	Seeding depth											
	Row spacing											

## PADDOCK MAP


## NOTES

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## WUE (WATER USE EFFICIENCY)

<b>Crop</b>	
<b>Growing Season Rain (GSR) =</b> [ _____ ] mm	
<b>Water Loss Factor (WLS)</b>	
Effective Rainfall (ER) = (GSR – WLS)	
ER = [ _____ ] – [ _____ ] = [ _____ ] mm	
<b>Yield</b> [ _____ ] t/ha	
<b>Water Use Efficiency (WUE)</b>	
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$	
WUE = $\frac{[ \text{Yield} ] \times 1000}{[ \text{ER} ]}$ = [ _____ ] kg/ha/mm	

GSR Growing Season Rainfall, ER Effective Rainfall, WLS Water Loss Factor

## CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		

# PADDOCK OPERATIONS

Date	Time		Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (C)	Delta T	Operator		
	Start	Finish																	

# PADDOCK OBSERVATIONS

Year: Paddock Name: Total Arable Area: (ha) Crop: Variety:

Observation	CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record
Soil	Wet soil depth											
	Plant available water											
	Seed bed condition											
	Stubble cover %											
	Test results - P											
	Test results - N											
	Test results - Root disease											
Test results - other												
Crop Protection	Weeds											
	Weeds											
	Weeds											
	Weeds											
	Weeds											
	Disease											
	Disease											
Crop Observations	Disease											
	Pests											
	Pests											
	Pests											
	Growth stage											
	Nutrient Status - P											
	Nutrient Status - N											
Crop Observations	Nutrient Status - Trace											
	Density											
	Stresses											
	Seeding depth											
	Row spacing											

## PADDOCK MAP


## NOTES

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## WUE (WATER USE EFFICIENCY)

Crop	Date	Record
Growing Season Rain (GSR) = [ ] mm		
Water Loss Factor (WLS)		
Effective Rainfall (ER) = (GSR - WLS)		
ER = [ ] - [ ] = [ ] mm		
Yield [ ] t/ha		
Water Use Efficiency (WUE)		
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$		
WUE = $\frac{[ ] \times 1000}{[ ]} = [ ]$ kg/ha/mm		

GSR Growing Season Rainfall, ER Effective Rainfall, WLS Water Loss Factor

## CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		

# PADDOCK OPERATIONS

Date	Time		Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (C)	Delta T	Operator	
	Start	Finish																

# PADDOCK OBSERVATIONS

Year: \_\_\_\_\_

Paddock Name: \_\_\_\_\_

Total Arable Area: \_\_\_\_\_

(ha)

Crop: \_\_\_\_\_

Variety: \_\_\_\_\_

		CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
	Observation	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record
Soil	Wet soil depth												
	Plant available water												
	Seed bed condition												
	Stubble cover %												
	Test results - P												
	Test results - N												
	Test results - Root disease												
Crop Protection	Test results - other												
	Weeds												
	Weeds												
	Weeds												
	Weeds												
	Disease												
	Disease												
Crop Observations	Disease												
	Pests												
	Pests												
	Pests												
	Growth stage												
	Nutrient Status - P												
	Nutrient Status - N												
Crop Observations	Nutrient Status - Trace												
	Density												
	Stresses												
	Seeding depth												
	Row spacing												

# PADDOCK MAP


# NOTES


# WUE (WATER USE EFFICIENCY)

Crop	Date	Record
Growing Season Rain (GSR) = [ _____ ] mm		
Water Loss Factor (WLS)		
Effective Rainfall (ER) = (GSR - WLS)		
ER = [ _____ ] - [ _____ ] = [ _____ ] mm		
Yield [ _____ ] t/ha		
<b>Water Use Efficiency (WUE)</b>		
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$		
WUE = $\frac{[ \quad ] \times 1000}{[ \quad ]} = [ \quad ]$ kg/ha/mm		

GSR Growing Season Rainfall, ER Effective Rainfall, WLS Water Loss Factor

# CROP PERFORMANCE

Date	Record
Yield	
Grade	
Price (\$/t)	
Quality issues	
Hectolitre weight	
Screenings	
Protein	
Oil	
Admixture	

# PADDOCK OPERATIONS

Date	Time	Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (C)	Delta T	Operator	
	Start																Finish

# PADDOCK OBSERVATIONS

Year: Paddock Name: Total Arable Area: (ha) Crop: Variety:

Observation	CHECK 1 PRE SEASON			CHECK 2 ESTABLISHMENT			CHECK 3 TILLERING/BRANCHING			CHECK 4 ELONGATION			CHECK 5 FLOWERING			CHECK 6 HARVEST		
	Date	Record		Date	Record		Date	Record		Date	Record		Date	Record		Date	Record	
Soil	Wet soil depth																	
	Plant available water																	
	Seed bed condition																	
	Stubble cover %																	
	Test results - P																	
	Test results - N																	
Crop Protection	Test results - Root disease																	
	Test results - other																	
	Weeds																	
	Weeds																	
	Weeds																	
	Weeds																	
	Disease																	
	Disease																	
	Disease																	
	Pests																	
Crop Observations	Pests																	
	Pests																	
	Pests																	
	Growth stage																	
	Nutrient Status - P																	
	Nutrient Status - N																	
	Nutrient Status - Trace																	
	Density																	
Stresses																		
Seeding depth																		
Row spacing																		

## PADDOCK MAP


## NOTES


## WUE (WATER USE EFFICIENCY)

Crop	Date	Record
Growing Season Rain (GSR) = [ ] mm		
Water Loss Factor (WLS)		
Effective Rainfall (ER) = (GSR - WLS)		
ER = [ ] - [ ] = [ ] mm		
Yield [ ] t/ha		
Water Use Efficiency (WUE)		
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$		
WUE = $\frac{[ ] \times 1000}{[ ]} = [ ]$ kg/ha/mm		

## CROP PERFORMANCE

Date	Record
Yield	
Grade	
Price (\$/t)	
Quality issues	
Hectolitre weight	
Screenings	
Protein	
Oil	
Admixture	

GSR Growing Season Rainfall, ER Effective Rainfall, WLS Water Loss Factor



# Paddock Operations

Date	Time		Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (C)	Delta T	Operator		
	Start	Finish																	

# PADDOCK OBSERVATIONS

Year: \_\_\_\_\_ Paddock Name: \_\_\_\_\_ Total Arable Area: \_\_\_\_\_ (ha) Crop: \_\_\_\_\_ Variety: \_\_\_\_\_

Observation	CHECK 1 PRE SEASON			CHECK 2 ESTABLISHMENT			CHECK 3 TILLERING/BRANCHING			CHECK 4 ELONGATION			CHECK 5 FLOWERING			CHECK 6 HARVEST		
	Date	Record		Date	Record		Date	Record		Date	Record		Date	Record		Date	Record	
Soil	Wet soil depth																	
	Plant available water																	
	Seed bed condition																	
	Stubble cover %																	
	Test results - P																	
Crop Protection	Test results - N																	
	Test results - Root disease																	
	Test results - other																	
Crop Observations	Weeds																	
	Weeds																	
	Weeds																	
	Weeds																	
	Disease																	
	Disease																	
	Disease																	
	Pests																	
	Pests																	
	Pests																	
Crop Observations	Growth stage																	
	Nutrient Status - P																	
	Nutrient Status - N																	
	Nutrient Status - Trace																	
	Density																	
	Stresses																	
Seeding depth																		
Row spacing																		

## PADDOCK MAP


## NOTES

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## WUE (WATER USE EFFICIENCY)

**Crop** \_\_\_\_\_

**Growing Season Rain (GSR)** = [ \_\_\_\_\_ ] mm

**Water Loss Factor (WLS)** \_\_\_\_\_

Effective Rainfall (ER) = (GSR - WLF) \_\_\_\_\_

ER = [ \_\_\_\_\_ ] - [ \_\_\_\_\_ ] = [ \_\_\_\_\_ ] mm

**Yield** [ \_\_\_\_\_ ] t/ha

**Water Use Efficiency (WUE)** \_\_\_\_\_

WUE =  $\frac{\text{Yield} \times 1000}{\text{ER}}$  \_\_\_\_\_

WUE =  $\frac{[ \text{_____} ] \times 1000}{[ \text{_____} ]} = [ \text{_____} ] \text{ kg/ha/mm}$

GSR Growing Season Rainfall, ER Effective Rainfall, WLF Water Loss Factor

## CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		

# PADDOCK OPERATIONS

Date	Time		Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (C)	Delta T	Operator		
	Start	Finish																	

# PADDOCK OBSERVATIONS

Year: \_\_\_\_\_ Paddock Name: \_\_\_\_\_ Total Arable Area: \_\_\_\_\_ (ha) Crop: \_\_\_\_\_ Variety: \_\_\_\_\_

OBSERVATION		CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
		Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record
Soil	Wet soil depth												
	Plant available water												
	Seed bed condition												
	Stubble cover %												
Crop Protection	Test results - P												
	Test results - N												
	Test results - Root disease												
	Test results - other												
Crop Observations	Weeds												
	Weeds												
	Weeds												
	Weeds												
	Weeds												
	Disease												
	Disease												
	Disease												
	Pests												
Pests													
Pests													
Growth stage													
Nutrient Status - P													
Nutrient Status - N													
Nutrient Status - Trace													
Density													
Stresses													
Seeding depth													
Row spacing													

# PADDOCK MAP


# NOTES

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# WUE (WATER USE EFFICIENCY)

Crop	Date	Record
Growing Season Rain (GSR) = [ _____ ] mm		
Water Loss Factor (WLS)		
Effective Rainfall (ER) = (GSR – WLS)		
ER = [ _____ ] t/ha		
Yield [ _____ ] t/ha		
Water Use Efficiency (WUE)		
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$		
WUE = $\frac{[ \text{_____} ] \times 1000}{[ \text{_____} ]}$ = [ _____ ] kg/ha/mm		

GSR Growing Season Rainfall, ER Effective Rainfall, WLF Water Loss Factor

# CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		



# PADDOCK OBSERVATIONS

Year: Paddock Name: Total Arable Area: (ha) Crop: Variety:

Observation	CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record
Soil	Wet soil depth											
	Plant available water											
	Seed bed condition											
	Stubble cover %											
	Test results - P											
Test results - N	Test results - Root disease											
	Test results - other											
	Weeds											
Crop Protection	Weeds											
	Weeds											
	Weeds											
	Weeds											
	Disease											
	Disease											
	Disease											
	Pests											
	Pests											
	Pests											
Crop Observations	Growth stage											
	Nutrient Status - P											
	Nutrient Status - N											
	Nutrient Status - Trace											
	Density											
	Stresses											
Seeding depth												
Row spacing												

## PADDOCK MAP


## NOTES


## WUE (WATER USE EFFICIENCY)

<b>Crop</b>	
<b>Growing Season Rain (GSR)</b> = [                      ] mm	
<b>Water Loss Factor (WLS)</b>	
Effective Rainfall (ER) = (GSR - WLS)	
ER = [                      ] - [                      ] = [                      ] mm	
<b>Yield</b> [                      ] t/ha	
<b>Water Use Efficiency (WUE)</b>	
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$	
WUE = $\frac{[                      ] \times 1000}{[                      ]} = [                      ]$ kg/ha/mm	

## CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		

GSR Growing Season Rainfall, ER Effective Rainfall, WLS Water Loss Factor

# PADDOCK OPERATIONS

Date	Time Start	Time Finish	Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (C)	Delta T	Operator				

# PADDOCK OBSERVATIONS

Year: Paddock Name: (ha) Total Arable Area: Crop: Variety:

Observation	CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record
Soil	Wet soil depth											
	Plant available water											
	Seed bed condition											
	Stubble cover %											
Crop Protection	Test results - P											
	Test results - N											
	Test results - Root disease											
	Test results - other											
Crop Observations	Weeds											
	Weeds											
	Weeds											
	Weeds											
	Disease											
	Disease											
	Disease											
Pests												
Pests												
Pests												
Growth stage												
Nutrient Status - P												
Nutrient Status - N												
Nutrient Status - Trace												
Density												
Stresses												
Seeding depth												
Row spacing												

# PADDOCK MAP


# WUE (WATER USE EFFICIENCY)

**Crop** \_\_\_\_\_

**Growing Season Rain (GSR)** = [ \_\_\_\_\_ ] mm

**Water Loss Factor (WLS)** \_\_\_\_\_

Effective Rainfall (ER) = (GSR – WLS)

ER = [ \_\_\_\_\_ ] - [ \_\_\_\_\_ ] = [ \_\_\_\_\_ ] mm

**Yield** [ \_\_\_\_\_ ] t/ha

**Water Use Efficiency (WUE)**

WUE =  $\frac{\text{Yield} \times 1000}{\text{ER}}$

WUE =  $\frac{[ \text{Yield} ] \times 1000}{[ \text{ER} ]}$  = [ \_\_\_\_\_ ] kg/ha/mm

# NOTES

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# CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		

GSR Growing Season Rainfall, ER Effective Rainfall, WLS Water Loss Factor



# PADDOCK OPERATIONS

Date	Time		Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (C)	Delta T	Operator
	Start	Finish															

# PADDOCK OBSERVATIONS

Year:  Paddock Name:  Total Arable Area:  (ha) Crop:  Variety:

Observation	CHECK 1 PRE SEASON			CHECK 2 ESTABLISHMENT			CHECK 3 TILLERING/BRANCHING			CHECK 4 ELONGATION			CHECK 5 FLOWERING			CHECK 6 HARVEST		
	Date	Record		Date	Record		Date	Record		Date	Record		Date	Record		Date	Record	
<b>Soil</b>	Wet soil depth																	
	Plant available water																	
	Seed bed condition																	
	Stubble cover %																	
	Test results - P																	
<b>Crop Protection</b>	Test results - N																	
	Test results - Root disease																	
	Test results - other																	
	Weeds																	
	Weeds																	
	Weeds																	
<b>Crop Observations</b>	Weeds																	
	Disease																	
	Disease																	
	Disease																	
	Pests																	
	Pests																	
<b>Crop Performance</b>	Pests																	
	Growth stage																	
	Nutrient Status - P																	
	Nutrient Status - N																	
	Nutrient Status - Trace																	
	Density																	
<b>Notes</b>	Stresses																	
	Seeding depth																	
	Row spacing																	

## WUE (WATER USE EFFICIENCY)

<b>Crop</b>	
<b>Growing Season Rain (GSR)</b> = [ <input type="text"/> ] mm	
<b>Water Loss Factor (WLS)</b>	
Effective Rainfall (ER) = (GSR - WLF)	
ER = [ <input type="text"/> ] - [ <input type="text"/> ] = [ <input type="text"/> ] mm	
<b>Yield</b> [ <input type="text"/> ] t/ha	
<b>Water Use Efficiency (WUE)</b>	
WUE = $\frac{\text{Yield} \times 1000}{\text{ER}}$	
WUE = [ <input type="text"/> ] x 1000 = [ <input type="text"/> ] kg/ha/mm	

GSR Growing Season Rainfall, ER Effective Rainfall, WLF Water Loss Factor

## NOTES


## PADDOCK MAP


	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		

# PADDOCK OPERATIONS

Date	Time		Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (°C)	Delta T	Operator		
	Start	Finish																	

# PADDOCK OBSERVATIONS

Year: Paddock Name: Total Arable Area: (ha) Crop: Variety:

Observation	CHECK 1 PRE SEASON		CHECK 2 ESTABLISHMENT		CHECK 3 TILLERING/BRANCHING		CHECK 4 ELONGATION		CHECK 5 FLOWERING		CHECK 6 HARVEST	
	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record	Date	Record
Soil	Wet soil depth											
	Plant available water											
	Seed bed condition											
	Stubble cover %											
	Test results - P											
	Test results - N											
	Test results - Root disease											
	Test results - other											
Crop Protection	Weeds											
	Weeds											
	Weeds											
	Weeds											
	Disease											
	Disease											
Crop Observations	Growth stage											
	Nutrient Status - P											
	Nutrient Status - N											
	Nutrient Status - Trace											
	Density											
	Stresses											

## PADDOCK MAP


## WUE (WATER USE EFFICIENCY)

Crop		Date	Record
Growing Season Rain (GSR) = [ ] mm			
Water Loss Factor (WLS)			
Effective Rainfall (ER) = (GSR – WLF)			
ER = [ ] – [ ] = [ ] mm			
Yield [ ] t/ha			
Water Use Efficiency (WUE)			
$WUE = \frac{\text{Yield} \times 1000}{ER}$			
WUE = $\frac{[ ] \times 1000}{[ ]} = [ ]$ kg/ha/mm			

## CROP PERFORMANCE

	Date	Record
Yield		
Grade		
Price (\$/t)		
Quality issues		
Hectolitre weight		
Screenings		
Protein		
Oil		
Admixture		

GSR Growing Season Rainfall, ER Effective Rainfall, WLF Water Loss Factor

# PADDOCK OPERATIONS

Date	Time		Area Treated	Operation / Machine	Product(s) Applied	Pest/Weed Targets	Product Rate (/ha)	Chemical MOA Group(s)	Chemical Batch Number	Spray Volume (L/ha)	Nozzle Type, Size & Angle	Sprayer Pressure (kPa)	Wind Speed (km/hr)	Wind Direction	Temp (C)	Delta T	Operator
	Start	Finish															



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