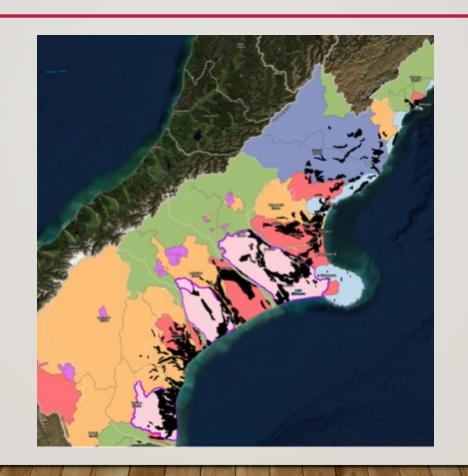
#### STATEMENT OF EVIDENCE BY MR NICHOLAS ASHLEY CONLAND

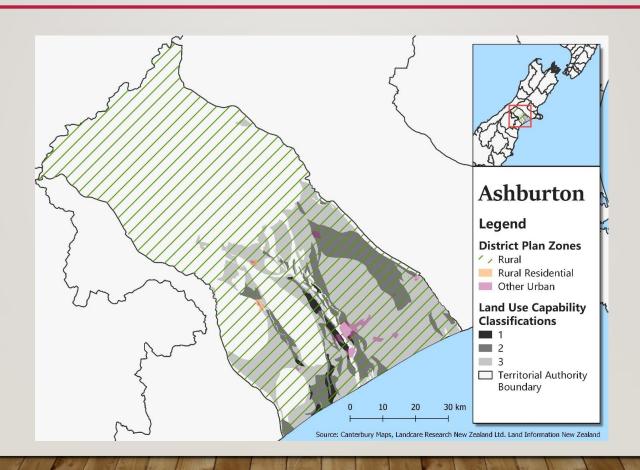
FOR POTATOES NEW ZEALAND

20<sup>TH</sup> OCTOBER 2020

# HIGHLY PRODUCTIVE LAND AREAS IN EACH NAZ



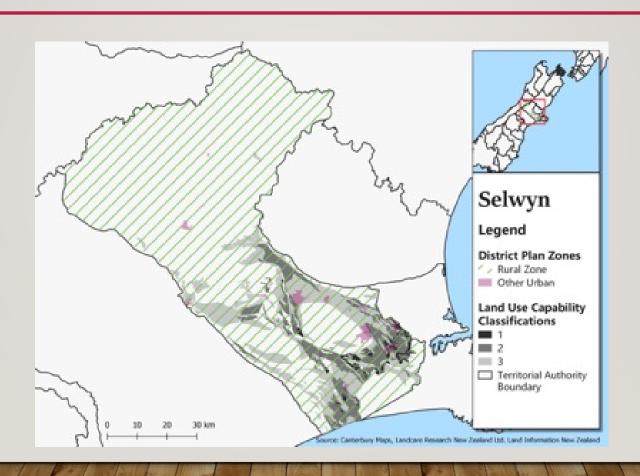
### LUC SOILS FOR POTATO PRODUCTION



65,513ha

LUC I and LUC II in Ashburton District

### LUC SOILS FOR POTATO PRODUCTION



52,649ha

LUC I and LUC II in Selwyn District

# INTRODUCING POTATO ROTATIONS

Farm Type	Climate	Soil	Nitrogen leaching estimate (Kg N/ha/Yr)	Average (kg N/ha/yr)	Minus S1 (kg N/ha/yr)
	C1	\$1	38	1	
	C1	S2	19		
	C1	\$3	13		
	C2	S1	24	23	16
Dairy	C2	S2	11		
	C2	53	6		
	C3	51	50		
	C3	52	30		
	C3	\$3	19		
	C1	S1	24		
	C1	52	20		
	C1	\$3	17		
	C2	S1	13	21	19
Dairy Support	C2	S2	11		
	C2	53	9		
	C3	\$1	35		
	C3	52	31		
	C3	\$3	26		
	C1	S1	18		
	C1	52	15		
	C1	\$3	12		
	C2	S1	12	16	14
Arable	C2	\$2	11		
	C2	53	8		
	C3	51	27		
	C3	52	23		
	C3	\$3	17		

Baseline

Potato rotation on (5 year) Arable	Potato rotation on (6 year) Arable	Potato rotation on (7 year) Arable	
13%	11%	10%	-
11%	9%	8%	
10%	8%	7%	
Potato rotation on (5 year) Arable - Lismore	Potato rotation on (6 year) Arable- Lismore	Potato rotation on (7 year) Arable - Lismore	
•	,	<b>'</b>	
year) Arable - Lismore	year) Arable- Lismore	year) Arable - Lismore	

Baseline

# INTRODUCING POTATO ROTATIONS

Farm Type	Climate	Soil	Nitrogen leaching estimate (Kg N/ha/Yr)	Average (kg N/ha/yr)	Minus S1 (kg N/ha/yr)
	C1	\$1	38	1	
	C1	\$2	19		
	C1	\$3	13		
	C2	S1	24	23	16
Dairy	C2	S2	11		
	C2	53	6		
	C3	S1	50		
	C3	52	30		
	C3	\$3	19		
	C1	S1	24	1	
	C1	52	20		
	C1	\$3	17		
				1	
	C2	S1	13	21	19
Dairy Support	C2	S2	11		13
	C2	S3	9	1	
	C3	S1	35		
	C3	S2	31		
	C3	\$3	26		
	C1	\$1	18	1	
	C1	52	15	1	
	C1	\$3	12	1	
	C2	51	12	16	14
Arable	C2	52	11	10	
	C2	53	8		
	C3	S1	27		
	C3	52	23		
	C3	\$3	17		

Baseline

Potato rotation on (5 year) Dairy Support	Potato rotation on (6 year) Dairy Support	Potato rotation on (7 year) Dairy Support	
13%	11%	9%	+159
11%	9%	8%	'''
10%	8%	7%	-159
	2	Datata antation on 17	
Potato rotation on (5 year) Dairy Support - Lismore	Potato rotation on (6 year) Dairy Support - Lismore	Potato rotation on (7 year) Dairy Support - Lismore	
year) Dairy Support -	year) Dairy Support -	year) Dairy Support -	+159
year) Dairy Support - Lismore	year) Dairy Support - Lismore	year) Dairy Support - Lismore	+159

Baseline

# IMPROVING WATER QUALITY OUTCOMES

