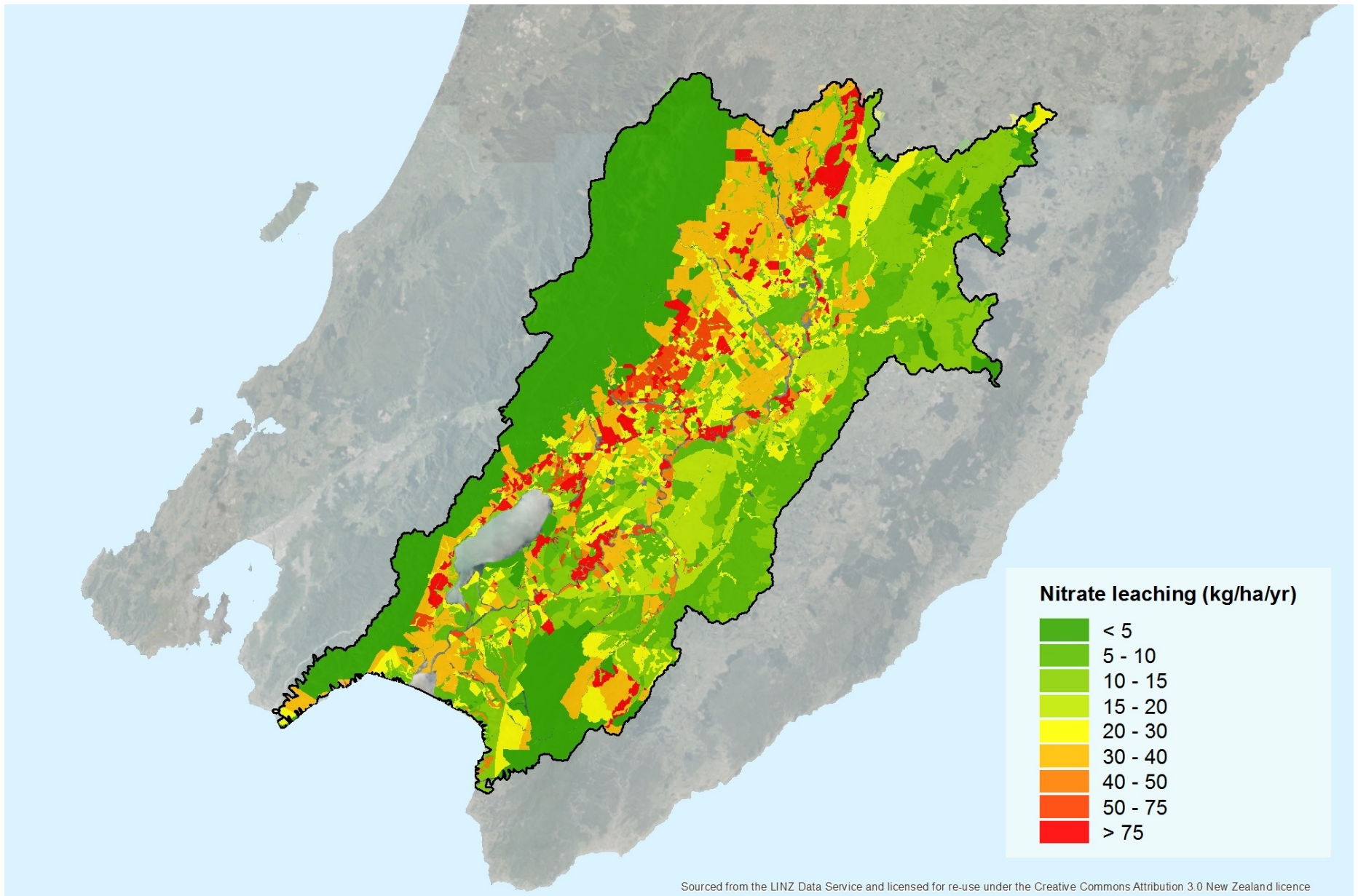


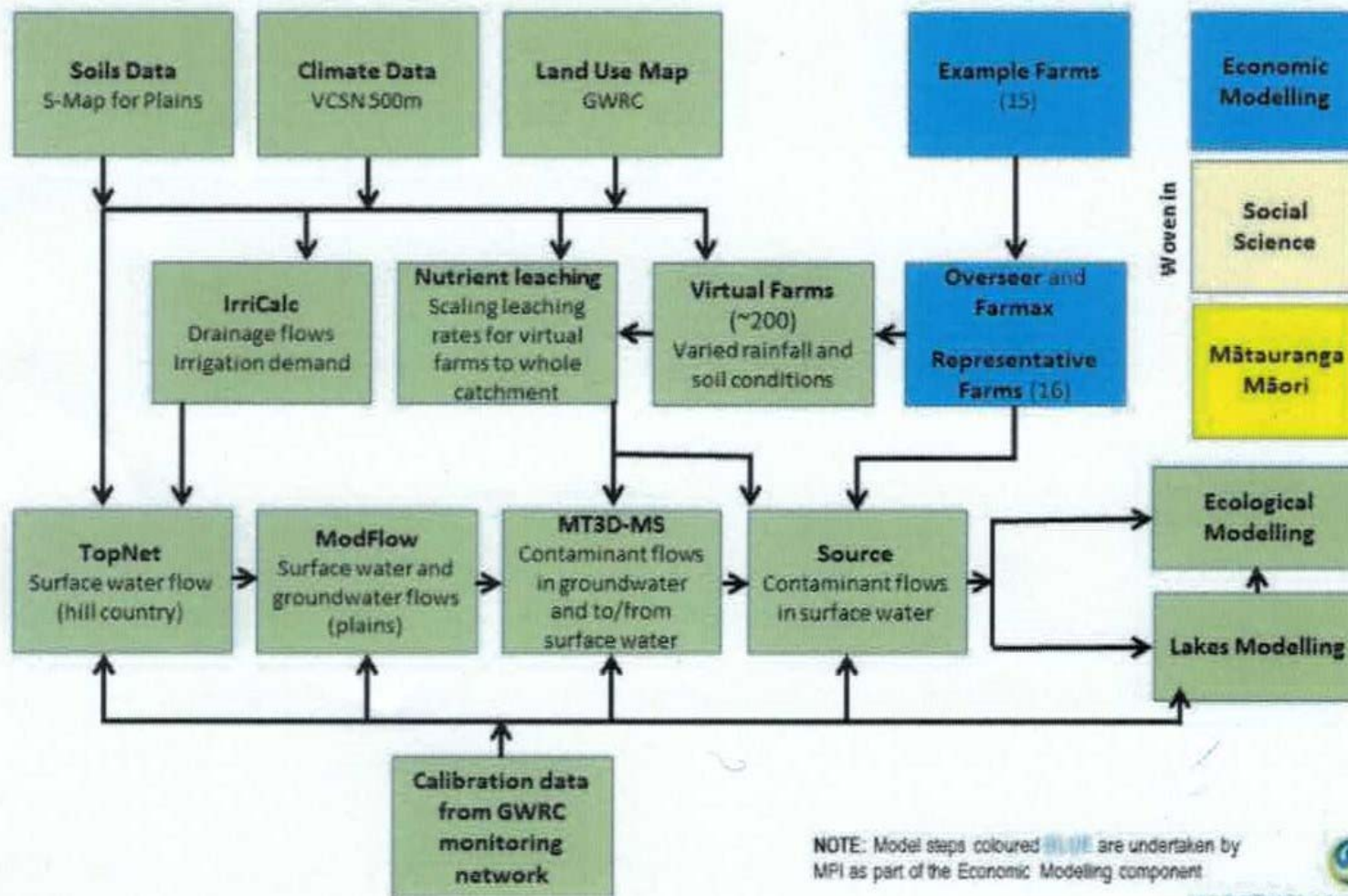
Nutrient load mapping



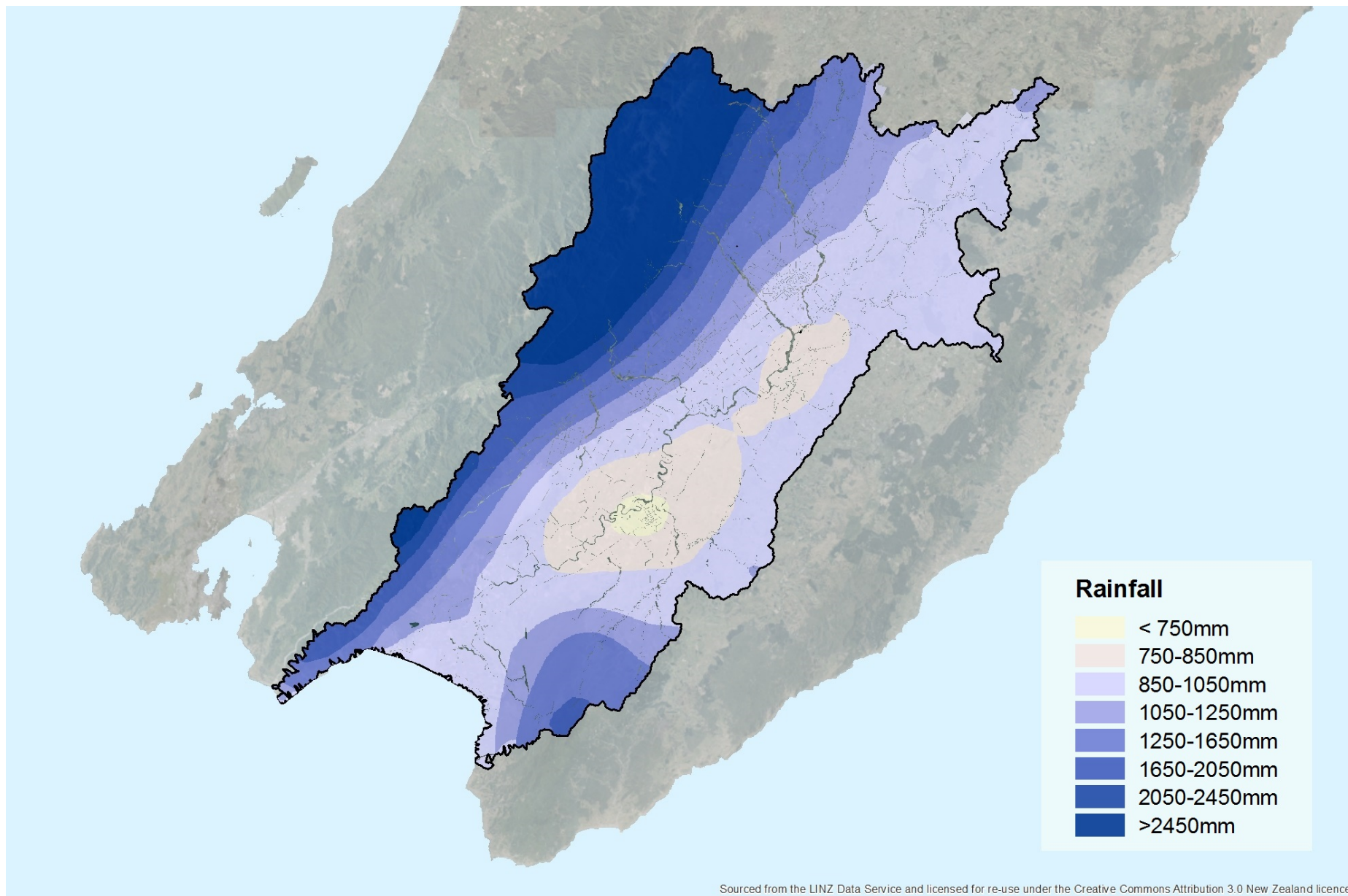
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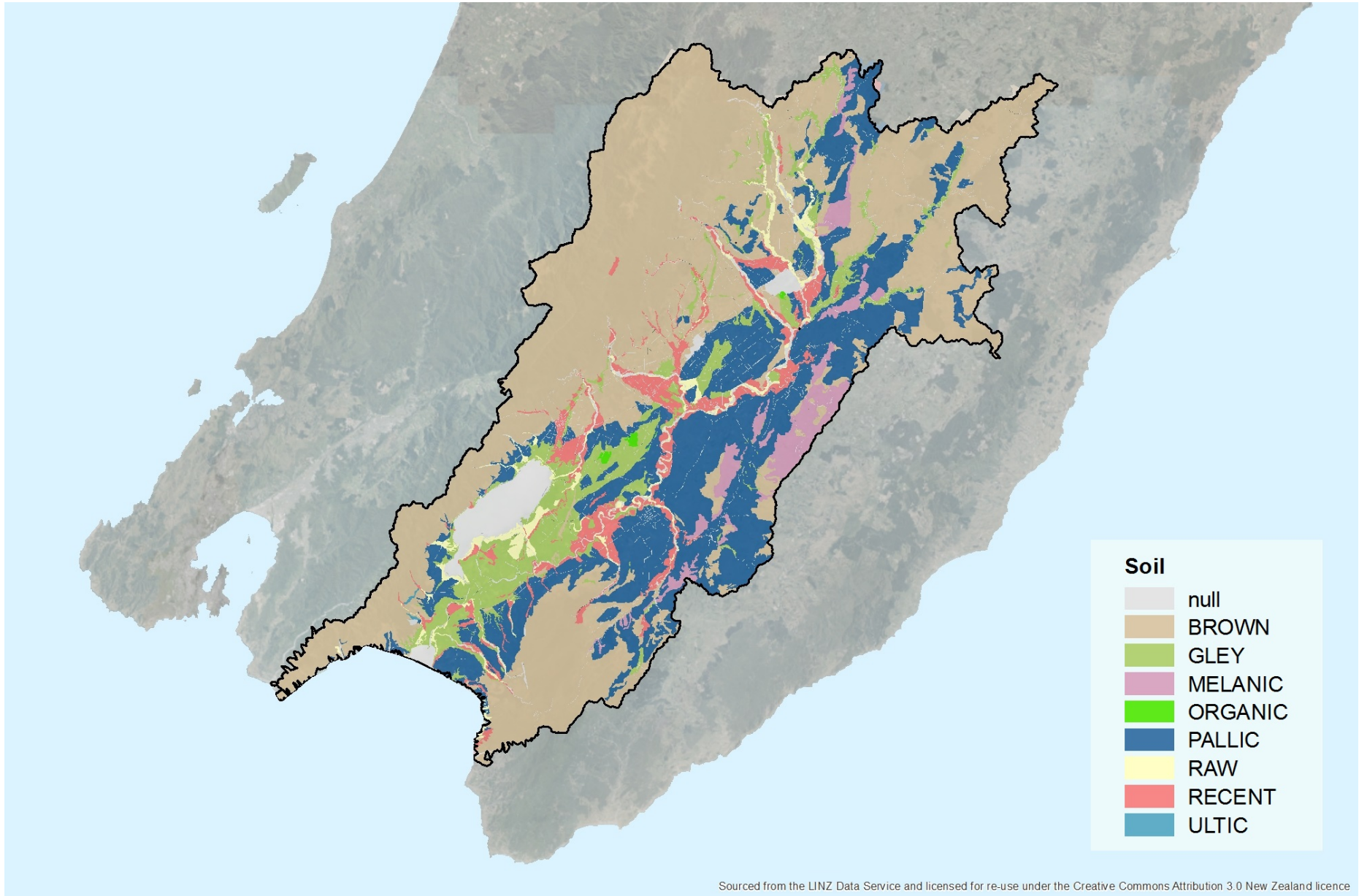
Table 5 Representative farm data for nutrient losses from the “root zone” (results from Overseer)

Representative Farm	Farm Background				Leaching and losses to root zone					Runoff to surface water	
	Effective Area (ha)	Relative Stocking Rate (RSU/ha)	Predominant Soil Type (soil order)	Annual Rainfall (mm/year)	Average annual drainage depth (mm)	Average annual nitrate leached (kgN/ha/yr)	Average annual N concentration in drainage water (ppm)	N lost in urine (kgN/ha/yr)	Annual phosphorus loss (kg P/ha/yr)	Average annual N loss in runoff (kgN/ha/yr)	Average annual P loss in runoff (kgP/ha/yr)
Low rainfall dairy, high production	367	37	Pallic	967	514*	42	7.7	37	1.0	0	0.6
Low rainfall dairy, high production	171	21	Gley	1,356	437*	34	3.3	13	1.5	0	0.9
Moderate rainfall dairy	301	28	Pallic	1,100	356*	24	5.1	19	1.2	0	0.9
High rainfall dairy	204	28	Brown	1,546	739	47	5.3 ^A	31	1.7	1	1.3
Irrigated dairy	426	27	Gley	915	510*	24	4.3 ^A	17	0.9	0	0.6
Organic dairy	355	22	Recent	801	409*	35	6.1	30	0.8	0	0.5
Summer wet sheep and beef finishing	450	11.7	Pallic	1,491	696	20	2.3 ^A	11	5.5	1	5.4
Sheep and bulls	927	11.5	Pallic	870	282	9	3.0 ^A	6	0.9	0	0.8
Irrigated sheep and beef trading	360	13.3	Gley	778	323	15	3.9 ^A	8	0.9	0	0.8
Lamb and bull trading 20% cropping	93	17.3	Pallic	880	153	20	6.3 ^A	6	0.6	0	0.3
Sheep and beef breeding, summer dry	620	11.1	Brown	909	279	8	2.7 ^A	6	0.2	0	0.1
Sheep & beef finishing 65% cropping	313	19.3	Pallic	910	334	21	6.0	8	0.5	0	0.4
Low rainfall dairy support 15% cropping	284	10.2	Gley	970	284	15	3.2	7	0.3	0	0.2
High rainfall dairy support 48% cropping	300	19.6	Gley	1300	617	93	14.3	19	1.0	0	1.0

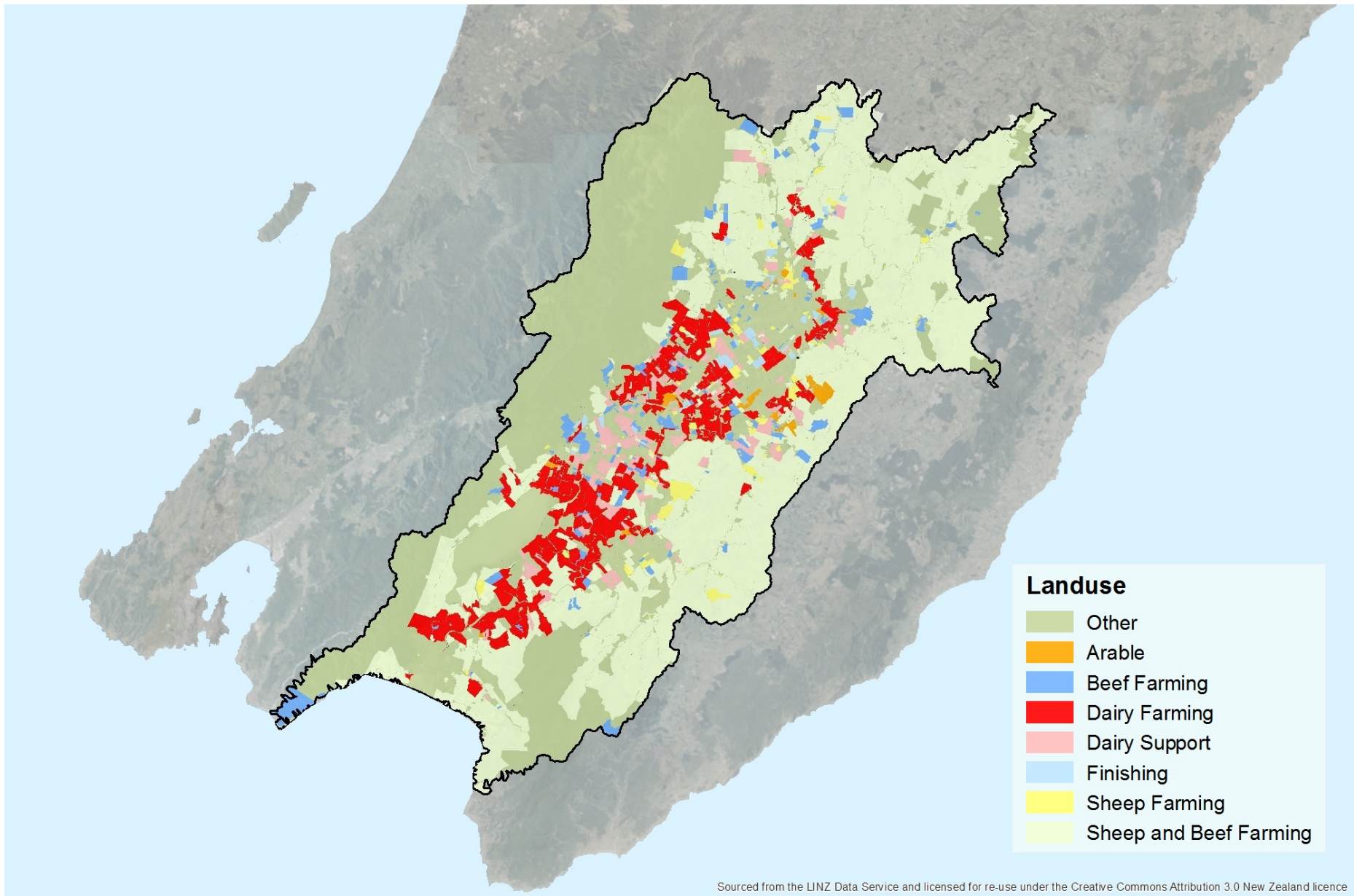


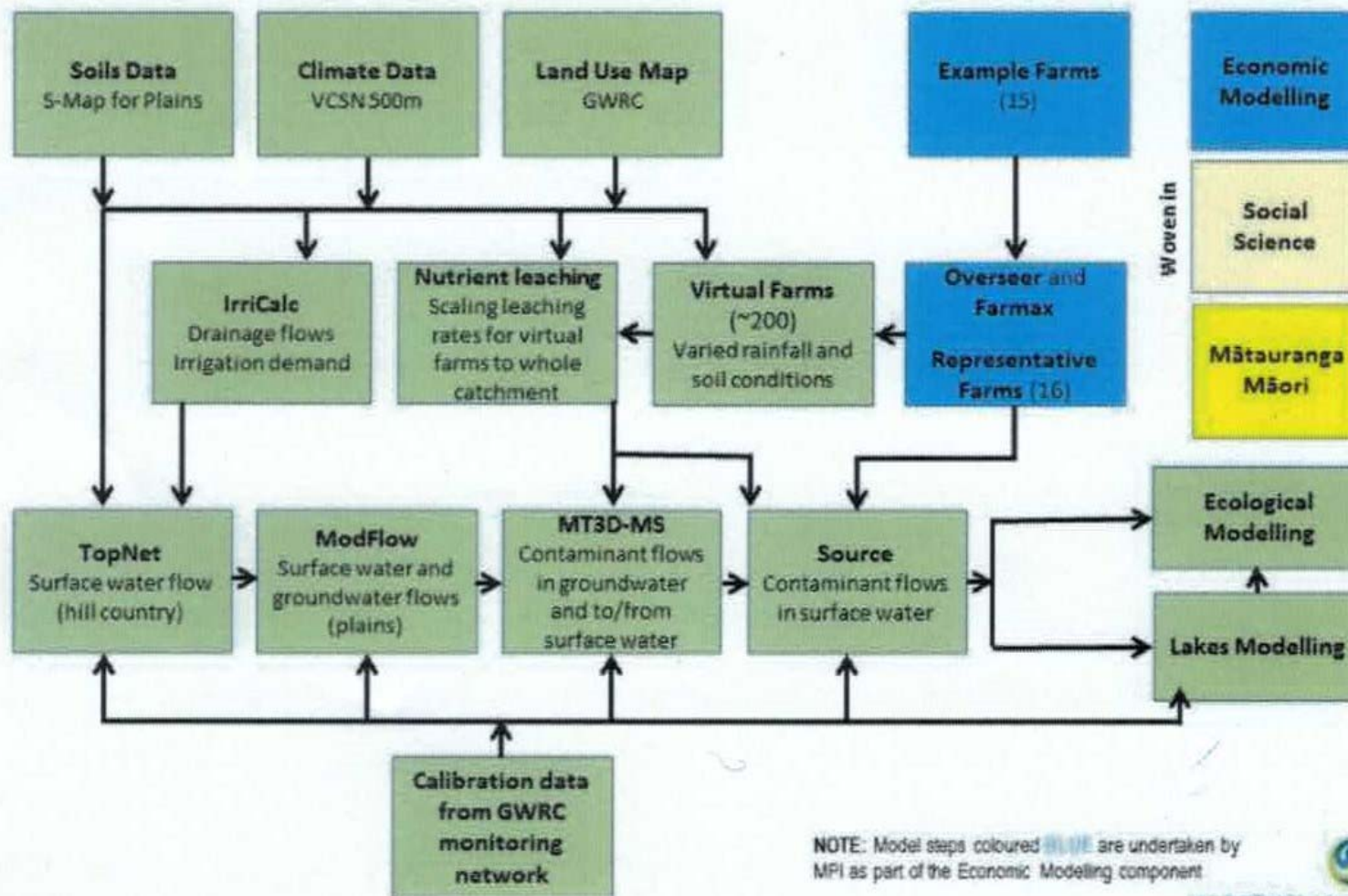
NOTE: Model steps coloured blue are undertaken by MPI as part of the Economic Modelling component

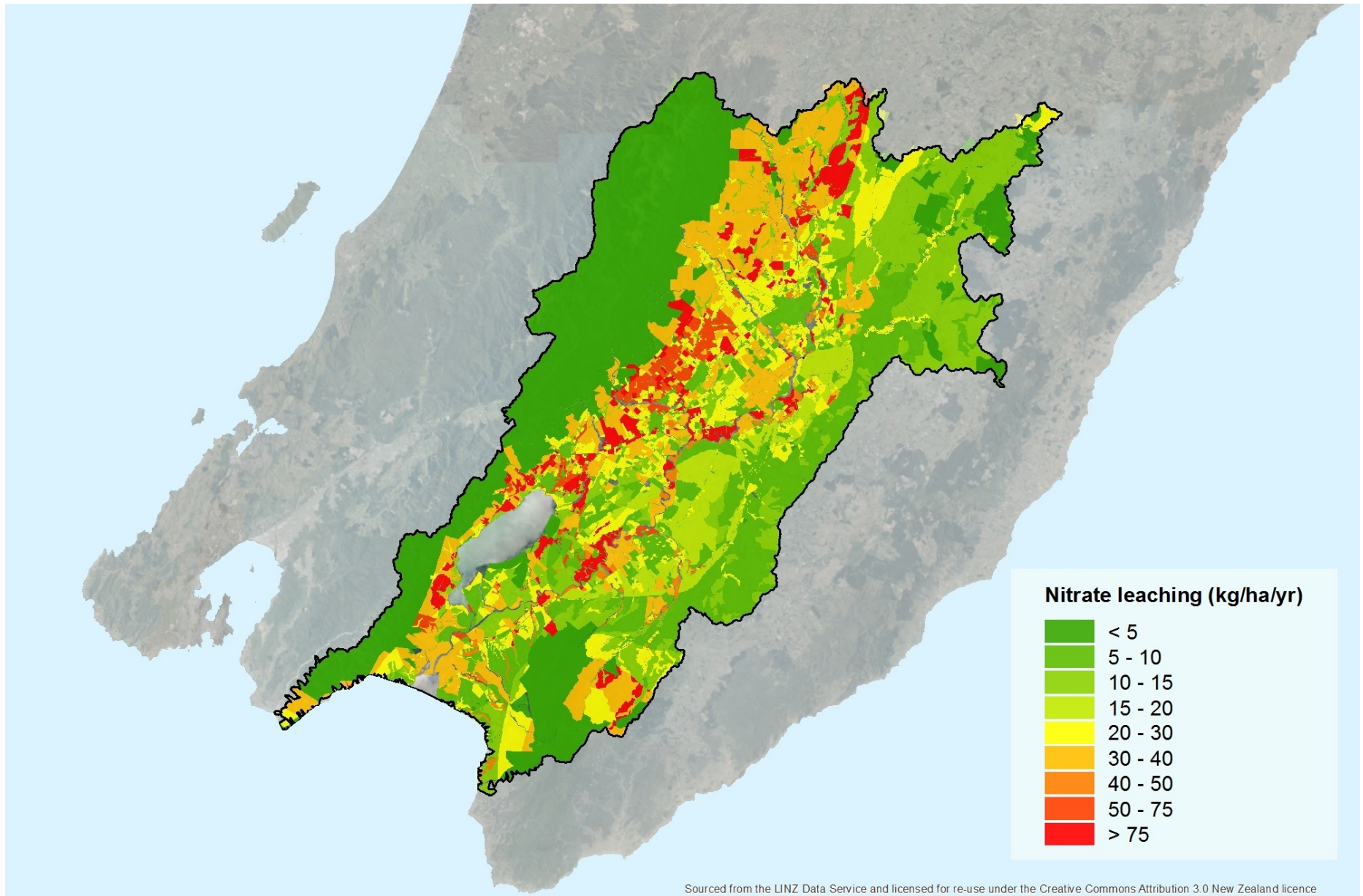




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