

**WCWARP Policy 16 assessments - proposals relying on proposed Irricalc volumes**

Note - only applications that propose an annual volume greater than that determined using WQN9v2 and which has been justified based on use of Irricalc are included in the following table

Property	Consent #	Requested Volume	WQN9v2 volume	Irricalc volume	Soil Moisture Measurement?	Method/details
Glentanner Station Limited	CRC071362, CRC083609	1,200,000	1,076,000	1,282,910	No	Reliance on soil survey information (Webb)
Lone Star Farms Limited	CRC031175	2,682,000	2,547,900	3,322,203	Yes	Four sites sampled in June 2005 by HydroServices Ltd. This was one sample to represent each of the four soil types on the properties. The applicant has derived PAW values for use in the Irricalc model from the samples taken
Simons Pass Station Limited	CRC062867, CRC082311	14,400,000	13,852,800	16,200,400	No	Reliance on soil survey information (Webb)
Otamatapaio Station	CRC012047	1,496,760	1,228,000	1,617,400	No	Reliance on soil survey information (Webb)
Bellfield Land Co	CRC071649	312,000	271,050	378,430	No	Reliance on soil survey information (Webb)
Bellfield Land Co	CRC011987	1,557,782	1,231,250	1,557,782	No	Reliance on soil survey information (Webb)
Grays Hills Station	CRC042661	1,140,000	1,101,050	1,190,512	No	Reliance on soil survey information (Webb)
Anderson (Bog Roy, Rostriever & Otematata Stations)	CRC012017	1,463,150	1,333,500	1,463,150	No	Reliance on soil survey information (Webb)
Anderson*	CRC012019	765,373	651,000	765,373	No	Reliance on soil survey information (Webb)
Five Rivers Ltd	CRC061154	8,958,000	7,743,750	10,427,190	No	Reliance on soil survey information (Webb)
Southdown Holdings Ltd	CRC040835	12,408,000	10,085,800	13,391,000	No	Reliance on soil survey information (Webb)
Aviemore Ltd	CRC083692	210,000	199,500	280,975	No	Reliance on soil survey information (Webb)
Otematata Station**	CRC041033	180,000	165,000	175,413	No	Reliance on soil survey information (Webb)
Haldon Station***	CRC082269	3,163,100	2,551,800	4,178,700	No	Reliance on soil survey information (Webb)

\* Proposed volume after 5 years once converted to spray and only assumes 70% efficiency

\*\* Additional 30ha not covered by CRC012017

\*\*\* Irricalc volume takes into account border-dyke irrigation (uncertain whether 80% efficiency was assumed)

*Prepared by Claire Penman, Maria Bartlett, Susannah Vesey and Yvette Rodrigo – 10<sup>th</sup> March 2010*