

APPENDIX 6 - DRENCH RESISTANCE SUMMARY NEW ZEALAND CASE STUDY FARMS

The table below summarises the results of the drench resistance tests which were carried out in New Zealand as part of the Project, using FEC reduction % as a measure of drench efficacy.

DrenchSmart Case Study Farmer ID	FECPAK ⁶² User (Y/N)	Season	Current Drench		FEC Reduction % by Active							Current Drench Effectiveness		Number of Drenches with Resistance <98%	Number of Drenches with Resistance <95%
			Brand Used	Current Active(s)	BZ	Lev	Comb (BZ & Lev)	Aba	Moxi	Comb (Lev & Aba)	Comb (BZ, Lev & Aba)	At <98%	At <95%		
1	N	Autumn	Combination Lev & Aba	Combination (Lev & Aba)	86.4%	97.2%	99.5%	99.7%	96.5%	99.5%		Y	Y	3	1
2	Y	Autumn	Combination Triple, Cydectin	Combination (BZ, Lev & Aba), Moxidectin		71.9%	93.6%	99.5%	93.1%	93.5%	99.4%	N	N	4	4
3	Y	Autumn	Alliance Triple, Cydectin	Combination (BZ, Lev& Aba), Moxidectin	96.0%	96.6%	99.7%	98.9%	98.3%	100.0%	99.9%	Y	Y	2	0
4	Y	Autumn	Matrix, Switch, Moxi	Combination (BZ, Lev& Aba), Combination (Lev & Aba), Moxidectin			95.5%		95.8%	100.0%	98.5%	N	Y	2	0
5	Y	Autumn	Scanda	Combination (BZ & Lev)	58.8%	46.1%	38.9%	100.0%	99.8%	99.5%	99.0%	N	N	3	3
6	Y	Autumn	Scanda, Combimax, Cydectin	Combination (BZ & Lev), Moxidectin	84.0%	63.9%	89.3%	98.3%	96.3%	81.8%	97.1%	N	N	6	4
7	Y	Autumn	Combination, Switch	Combination (Lev & Aba)	98.6%	96.8%	99.4%	100.0%	100.0%	99.3%	98.9%	Y	Y	1	0
8	Y	Autumn	Scanda	Combination (BZ & Lev)	60.0%	63.5%	56.0%	99.6%	99.7%	98.1%	91.1%	N	N	4	4
9	N	Autumn	Clear & ABA	Combination (Lev & Aba)	67.7%	92.6%	91.2%	99.6%	99.5%	100.0%	99.0%	Y	Y	3	3
10	Y	Autumn	Combo Plus Tape	Combination (BZ & Lev)	17.6%	84.3%	96.3%	96.5%	98.5%	98.9%	97.9%	N	Y	5	2
11	N	Autumn	Arrest	Combination (BZ & Lev)	93.2%	87.5%	95.7%	98.4%	99.4%	98.2%	98.9%	Y	N	3	2
12	Y	Autumn			98.6%	95.9%	99.2%		99.8%	99.7%	99.9%	?	?	1	0
13	N	Autumn	Scanda	Combination (BZ & Lev)	11.6%	45.8%	80.4%	99.8%	99.7%	99.8%		N	N	3	3

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DrenchSmart Case Study Farmer ID	FECPAK ^{G2} User (Y/N)	Season	Current Drench		FEC Reduction % by Active							Current Drench Effectiveness		Number of Drenches with Resistance <98%	Number of Drenches with Resistance <95%
			Brand Used	Current Active(s)	BZ	Lev	Comb (BZ & Lev)	Aba	Moxi	Comb (Lev & Aba)	Comb (BZ, Lev & Aba)	At ≥98%	At ≥95%		
14	N	Autumn	Combo White and Clear, Triple Combo	Combination (BZ & Lev), Combination (BZ ,Lev & Aba)			74.7%	99.7%	99.2%	97.8%	95.1%	N	Y	3	1
15	N	Autumn	Arrest, Matrix, Bionic Capsules	Combination (BZ & Lev), Combination (Lev & Aba), Combination (BZ ,Lev & Aba)	100.0%	99.2%	100.0%	99.1%	100.0%	100.0%	99.0%	Y	Y	0	0
16	Y	Autumn	Combination	Combination (BZ & Lev)		98.8%	99.2%	96.2%	98.0%	98.3%	93.5%	Y	Y	2	1
17	N	Autumn	Triple Combination and First	Combination (BZ & Lev), Combination (BZ ,Lev & Aba)	94.3%	96.4%	98.2%	99.6%	100.0%	100.0%	99.0%	Y	Y	2	1
18	N	Autumn	Ravensdown Combo, Abamectin, Combination Triple, Moximax	Combination (BZ & Lev), Abamectin, Moxidectin	69.7%		98.4%	99.3%	99.8%	99.1%	99.9%	Y	Y	1	1
19	Y	Autumn	Scanda	Combination (BZ & Lev)	64.6%	83.0%	92.8%	98.9%	99.5%	98.7%	97.0%	N	N	4	3
20	N	Autumn			57.8%	58.2%	30.2%	98.5%	99.0%	99.0%		?	?	3	3
21	N	Autumn	Clear, White, Combinations	Combination (BZ & Lev)	47.1%	55.3%	60.6%	90.0%	48.2%	62.2%	64.4%	N	N	7	7
22	Y	Autumn	Switch, First, Combatape, Startect, Matrix	Combination (BZ & Lev), Combination (Lev & Aba); Combination (Derquantel, Lev & Aba), Combination (BZ, Lev & Aba)	90.0%	95.2%	100.0%	99.0%	100.0%	99.8%	98.8%	Y	Y	2	1
23	N	Autumn	Combo BZ, LEV	Combination (BZ & Lev)	7.6%	0.0%	0.0%	99.0%	98.8%	99.0%	96.1%	N	N	4	3
24	N	Autumn	Arrest, Switch	Combination (BZ & Lev), Combination (Lev & Aba)	98.9%	93.2%	98.8%	99.3%	99.5%	97.4%		N	Y	2	1
No. farms using ineffective drench												12	9		
Total No. farms												24	24		
Percentage of farms using an ineffective drench												50%	38%		

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