

AWI Worm Project

- ***10/15 Drench Resistance Trials Now Done***
- ***Fluke Resistance Tests To Be Done Autumn/Winter***
- ***Mat Playford To Present Results Winter Field Day***
- ***Six Groups***
 - 1. Control (Undrenched)***
 - ***2. BZ (White)***
 - ***3. Levamisole***
 - ***4. Moxidectin (Mectin)***
 - ***5. Closantel***
 - ***6. Monepantel (Zolvix)***

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Farm	BZ (White)	Overall Drench Effectiveness				BZ + Lev	BZ/Lev/Mectin (Triple)
		Levamisole	Moxidectin	Closantel	Monepantel (Zolvix)		
1	57%	81%	75%	16%	100%	94%	99%
2	67%	93%	82%	0%	99%	90%	99%
3	66%	100%	100%	56%	100%	100%	100%
4	95%	100%	100%	73%	100%	100%	100%
5	63%	96%	66%	49%	100%	94%	99%
6	66%	20%	82%	0%	100%	78%	99%
7	77%	96%	73%	91%	100%	94%	100%
8	85%	100%	100%	77%	100%	100%	100%
9	42%	97%	95%	8%	100%	94%	100%
10	83%	75%	100%	17%	100%	85%	100%
Average	70%	86%	87%	39%	100%	93%	100%
Effective	0/10	3/10	4/10	0/10	10/10	3/10	10/10

What was there ?

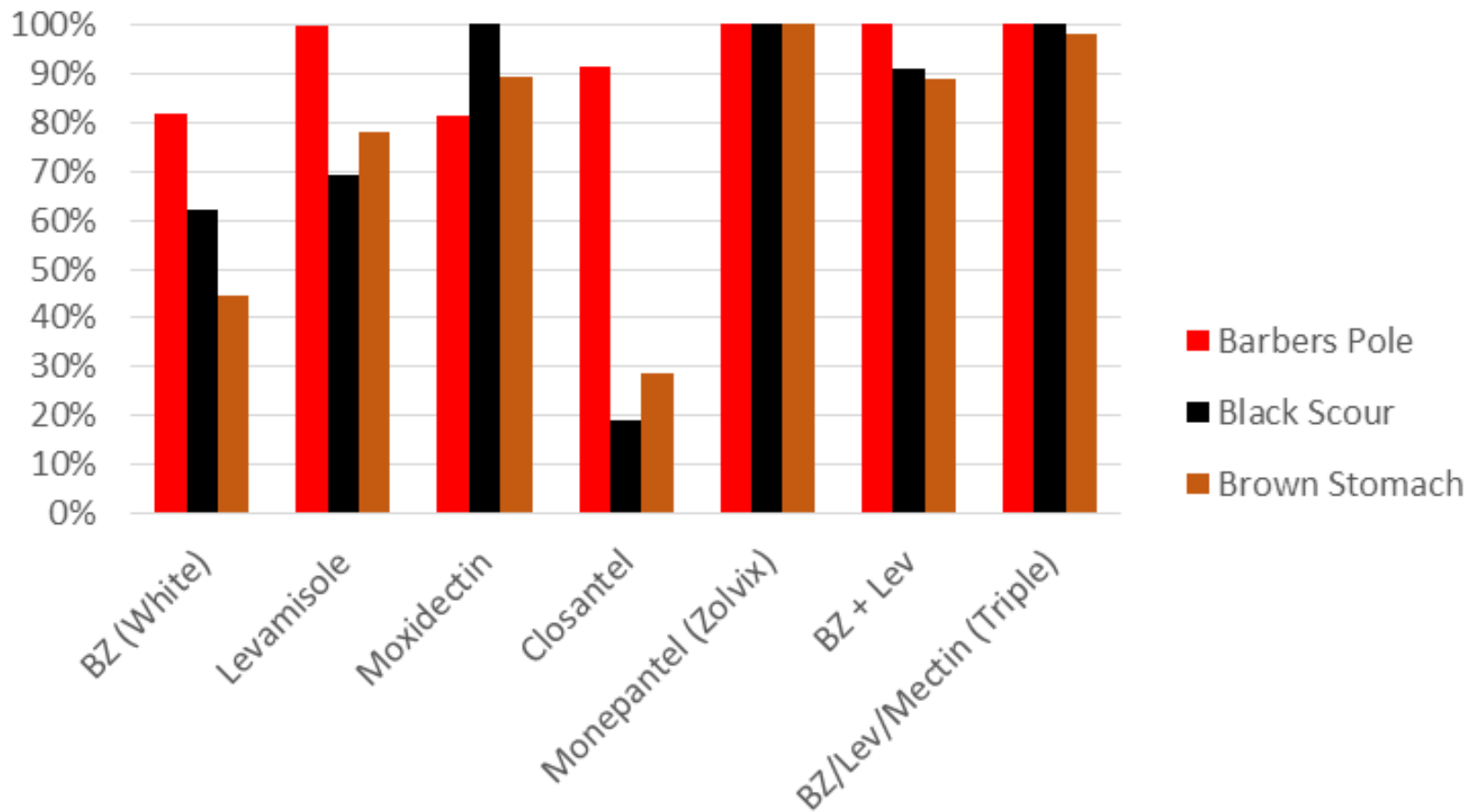
Farm	Barbers Pole	Black Scour	Brown Stomach	Large Bowel	Cooperia
1	3%	31%	58%	4%	4%
2	47%	16%	23%	14%	
3	0%	70%	27%	3%	
4	67%	5%	14%	14%	
5	75%	17%	7%	1%	
6	27%	45%	19%	9%	
7	86%	8%	5%	1%	
8	87%	8%	5%	0%	
9	47%	16%	23%	14%	
10	71%	17%	11%	1%	
Average	51%	23%	19%	6%	

Barbers Pole	BZ (White)	Levamisole	Moxidectin	Closantel	Monepantel (Zolvix)	BZ + Lev	BZ/Lev/Mectin (Triple)
1	100%	100%	100%	100%	100%	100%	100%
2	88%	100%	78%	100%	100%	100%	100%
3	?	?	?	?	?	?	?
4	100%	100%	100%	100%	100%	100%	100%
5	67%	100%	59%	42%	100%	100%	100%
6	51%	100%	35%	100%	100%	100%	100%
7	81%	99%	69%	94%	100%	100%	100%
8	82%	100%	100%	87%	100%	100%	100%
9	79%	100%	93%	100%	100%	100%	100%
10	89%	100%	100%	100%	100%	100%	100%
Average	82%	100%	82%	91%	100%	100%	100%
Effective	2/9	9/9	4/9	6/9	9/9	9/9	9/9

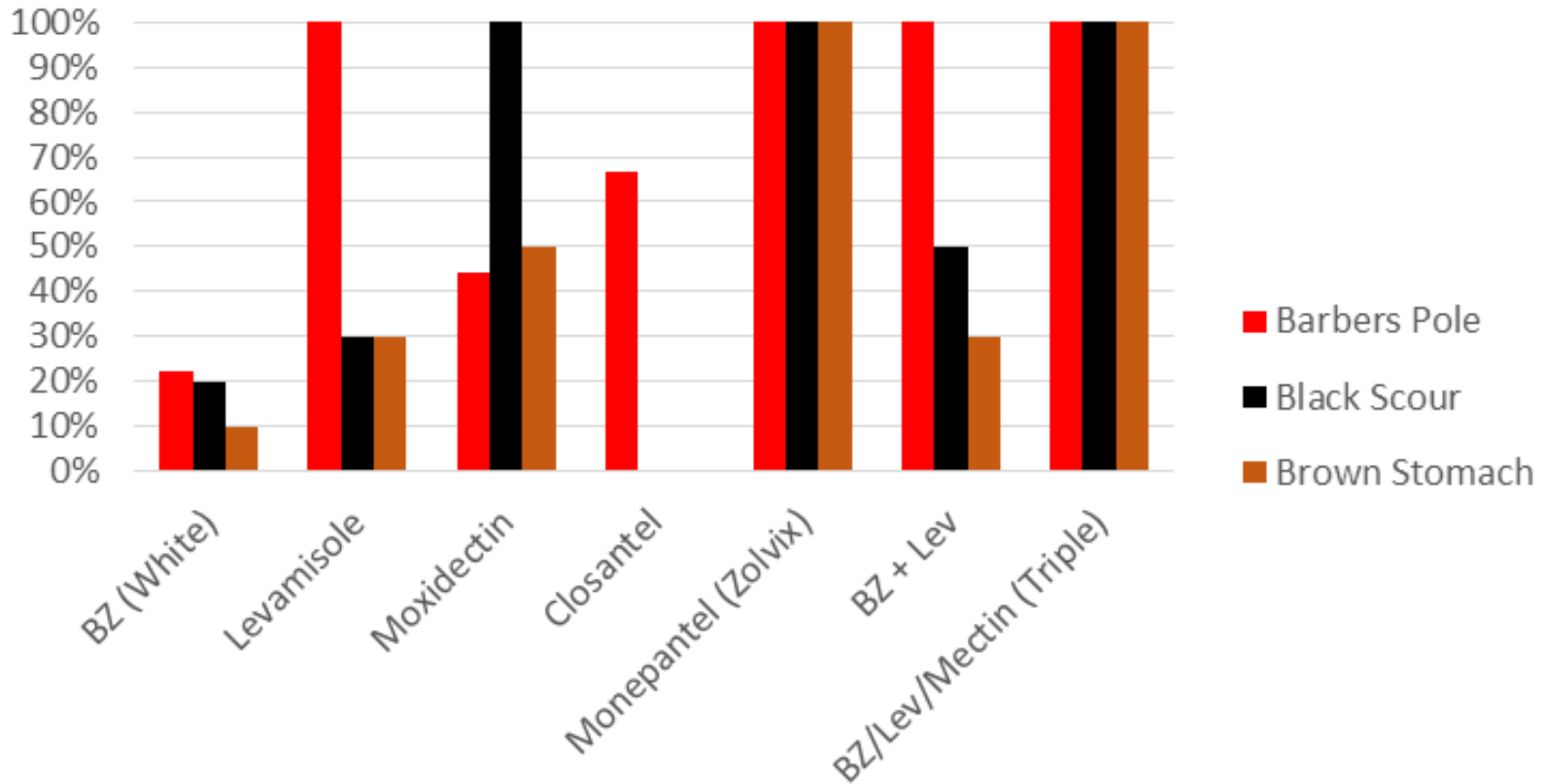
Black Scour (Trich's)	BZ (White)	Levamisole	Moxidectin	Closantel	Monepantel (Zolvix)	BZ + Lev	BZ/Lev/Mectin (Triple)
1	100%	83%	100%	2%	100%	100%	100%
2	27%	67%	100%	0%	100%	76%	100%
3	79%	100%	100%	42%	100%	100%	100%
4	52%	100%	100%	43%	100%	100%	100%
5	31%	84%	100%	20%	100%	89%	100%
6	72%	0%	100%	0%	100%	72%	100%
7	83%	72%	100%	71%	100%	95%	100%
8	100%	100%	100%	13%	100%	100%	100%
9	0%	86%	100%	0%	100%	100%	100%
10	77%	0%	100%	0%	100%	77%	100%
Average	62%	69%	100%	19%	100%	91%	100%
Effective	2/10	3/10	10/10	0/10	10/10	5/10	10/10

Brown Stomach Ostertagia	BZ (White)	Levamisole	Moxidectin	Closantel	Monepantel (Zolvix)	BZ + Lev	BZ/Lev/Mectin (Triple)
1	26%	76%	57%	11%	100%	82%	92%
2	30%	92%	67%	0%	100%	94%	98%
3	28%	100%	100%	87%	100%	100%	100%
4	83%	100%	100%	12%	100%	100%	100%
5	56%	83%	81%	87%	100%	93%	94%
6	62%	0%	96%	0%	100%	62%	98%
7	5%	85%	100%	70%	100%	86%	100%
8	100%	100%	100%	3%	100%	100%	100%
9	0%	96%	90%	16%	100%	96%	100%
10	56%	48%	100%	0%	100%	77%	100%
Average	45%	78%	89%	29%	100%	89%	98%
Effective	1/10	3/10	5/10	0/10	10/10	3/10	8/10

Drench Average Effectiveness



Percentage of Farms Where Effective



Conclusions To Date

- *Results are farm specific*
- *Barbers Pole Present on 9/10 farms and accounted for half the egg output*
- *All farms had black scour and brown stomach worms*
- *Barbers Pole has the most control options, but highest level of resistance to mectins. Levamisole (probably) and closantel (possibly) are worth looking at.*
- *BZ (white drenches) have no role except in combination*
- *Triple (BZ/Lev/Mectin) and Zolvix working on all 10 farms*
- *BZ/Lev Combination resistance very prevalent*