APPENDIX B
ADHESION AND RETENTION RESULTS

Table 31: Adhesion and Retention using 0.72% Garlon 4

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
673 µm	0	100	70	100	100	100	100		100	100	100	100	100	100
	22.5	100	0	100	100	100	100		100	81*	100	100	100	100
	45	100	0	100	100	100	68		100	25*	100	100	100	100
965 µm	0	0	0	0	0	0	0		100	81*	100	100	100	97*
	22.5	0	0	0	0	0	0		100	25*	100	100	100	81*
	45	0	0	0	0	0	0		100	25*	100	100	100	81*
1992 µm	0			0	0						97*	81*		
	22.5			0	0						100	58*		
	45			0	0						100	58*		

Table 32: Adhesion and Retention using 3.59% Garlon 4

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
676 µm	0	100	46	100	100	100	100		100	100	100	100	100	100
	22.5	100	0	100	100	100	100		100	97*	100	100	100	100
	45	100	0	100	100	100	66		100	81*	100	100	100	100
951 µm	0	100	0	100	20	100	22		100	97*	100	100	100	97*
	22.5	100	0	100	58	100	6		100	97*	100	100	100	100
	45	94	0	100	80	100	14		100	81*	100	100	100	81*
1930 µm	0			0	0						100	100		
	22.5			0	0						100	93*		
	45			0	0						100	97*		

Table 33: Adhesion and Retention using 7.18% Garlon 4

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
607 µm	0	100	100	100	100	100	100		100	100	100	100	100	100
	22.5	100	100	100	100	100	100		100	100	100	100	100	100
	45	100	18	100	100	100	100		100	100	100	100	100	100
965 µm	0	100	4	100	100	100	100		100	97*	100	100	100	100
	22.5	100	0	100	100	100	100		100	97*	100	100	100	100
	45	100	0	100	100	100	100		100	81*	100	100	100	100
1992 µm	0			0	0						100	100		
	22.5			0	0						100	73*		
	45			0	0						100	97*		

*** qualitative observation data**

Table 34: Adhesion and Retention using 1% Garlon 3A

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	A	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
671 μm	0	100	34	88	90	100	100		100	81*	100	100	100	100
	22.5	100	0	84	12	100	88		100	81*	100	100	100	100
	45	78	0	72	0	84	2		100	25*	100	100	100	100
1071 μm	0	0	0	0	0	0	0		100	25*	100	100	100	97*
	22.5	0	0	0	0	0	0		100	25*	100	100	100	97*
	45	0	0	0	0	0	0		100	25*	100	100	100	97*
2114 μm	0			0	0						100	97*		
	22.5			0	0						100	97*		
	45			0	0						100	97*		

Table 35: Adhesion and Retention using 5% Garlon 3A

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
681 μm	0	100	90	100	100	100	100		100	100	100	100	100	100
	22.5	100	36	100	100	100	100		100	100	100	100	100	100
	45	100	0	100	100	100	100		100	97*	100	100	100	100
951μm	0	70	0	4	0	88	0		100	97*	100	100	100	100
	22.5	88	0	10	0	76	0		100	97*	100	100	100	97*
	45	80	0	8	0	76	0		100	81*	100	100	100	81*
2040 μm	0			0	0						100	97*		
	22.5			0	0						100	81*		
	45			0	0						100	81*		

Table 36: Adhesion and Retention using 10% Garlon 3A

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
642 μm	0	100	100	100	100	100	100		100	100	100	100	100	100
	22.5	100	100	100	100	100	100		100	100	100	100	100	100
	45	100	0	100	100	100	100		100	97*	100	100	100	100
1050 μm	0	68	0	100	14	100	6		100	97*	100	100	100	100
	22.5	100	0	100	4	100	0		100	81*	100	100	100	97*
	45	100	0	100	24	100	0		100	58*	100	100	100	81*
2040 μm	0			100	0						100	97*		
	22.5			0	0						100	88*		
	45			0	0						100	97*		

*** qualitative observation data**

Table 37: Adhesion and Retention using 1% Triclopyr TEA + sequestrant

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
684 µm	0	100	28	100	88	100	100		100	81*	100	100	100	100
	22.5	100	0	100	24	100	86		100	25*	100	100	100	100
	45	72	0	48	0	80	12		100	25*	100	100	100	100
1048 µm	0	0	0	0	0	0	0		100	97*	100	100	100	97*
	22.5	0	0	0	0	0	0		100	58*	100	100	100	97*
	45	0	0	0	0	0	0		97*	25*	100	100	100	97*
2340 µm	0			0	0						100	73*		
	22.5			0	0						97*	73*		
	45			0	0						97*	58*		

Table 38: Adhesion and Retention using 5% Triclopyr TEA + sequestrant

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
658 µm	0	100	34	100	66	100	100		100	81*	100	100	100	100
	22.5	100	0	100	82	100	100		100	58*	100	100	100	100
	45	58	0	70	8	100	68		100	58*	100	100	100	100
1015 µm	0	36	0	12	0	92	0		100	97*	100	100	100	100
	22.5	10	0	0	0	46	0		100	58*	100	100	100	100
	45	8	0	0	0	38	0		100	25*	100	100	100	100
2310 µm	0			0	0						97*	58*		
	22.5			0	0						97*	81*		
	45			0	0						97*	58*		

Table 39: Adhesion and Retention using 10% Triclopyr TEA + sequestrant

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
609 µm	0	100	100	100	100	100	100		100	100	100	100	100	100
	22.5	100	60	100	100	100	100		100	100	100	100	100	100
	45	100	2	94	90	100	82		100	97*	100	100	100	100
993 µm	0	78	0	12	16	100	0		100	97*	100	100	100	100
	22.5	86	0	10	0	100	0		100	81*	100	100	100	100
	45	84	0	18	0	98	0		100	81*	100	100	100	100
2390 µm	0			0	0						100	97*		
	22.5			0	0						100	73*		
	45			0	0						97*	58*		

*** qualitative observation data**

Table 40: Adhesion and Retention using 1% Triclopyr TEA + seq. + 0.2% Silwet 408 + 0.01% n-octyl pyrrolidone

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
735	0	100	92	100	100	100	100		100	100	100	100	100	100
	22.5	100	64	100	100	100	100		100	100	100	100	100	100
	45	100	0	100	100	100	100		100	58*	100	100	100	100
1060	0	100	0	100	100	100	78*		100	81*	100	100	100	100
	22.5	100	0	100	100	100	76*		100	81*	100	100	100	100
	45	100	0	100	100	100	24*		100	81*	100	100	100	97*
2090	0			100	0						100	97*		
	22.5			0	0						100	97*		
	45			0	0						100	58*		

Table 41: Adhesion and Retention using 5% Triclopyr TEA + seq. + 0.2% Silwet 408 + 0.05% n-octyl pyrrolidone

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
685	0	100	100	100	100	100	100		100	100	100	100	100	100
	22.5	100	100	100	100	100	100		100	100	100	100	100	100
	45	100	24	100	100	100	100		100	81*	100	100	100	100
947	0	100	0	100	100	100	100		100	97*	100	100	100	100
	22.5	100	16	100	100	100	100		100	81*	100	100	100	100
	45	100	20	100	100	100	100		100	81*	100	100	100	100
2012	0			100	0						100	97*		
	22.5			100	0						100	100		
	45			100	0						100	97*		

*** qualitative observation data**

Table 42: Adhesion and Retention using 1% Triclopyr TEA + seq. + 0.2% Silwet L-77+ 0.01% n-octyl pyrrolidone

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
613	0	100	100	100	100	100	100		100	100	100	100	100	100
	22.5	100	50	100	100	100	100		100	81*	100	100	100	100
	45	100	0	100	100	100	100		100	25*	100	100	100	100
1043	0	100	0	100	38	100	18		100	81*	100	100	100	97*
	22.5	100	0	100	22	100	24		100	58*	100	100	100	81*
	45	100	0	100	18	100	4		100	25*	100	100	100	81*
2094	0			0	0						100	97*		
	22.5			0	0						100	97*		
	45			0	0						100	97*		

Table 43: Adhesion and Retention using 5% Triclopyr TEA + seq. + 0.2% Silwet L-77+ 0.05% n-octyl pyrrolidone

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
629	0	100	100	100	100	100	100		100	100	100	100	100	100
	22.5	100	96	100	100	100	100		100	100	100	100	100	100
	45	100	16	100	100	100	100		100	81*	100	100	100	100
1003	0	100	10	100	100	100	40		100	58*	100	100	100	100
	22.5	100	0	100	100	100	38		100	58*	100	100	100	100
	45	86	0	100	100	100	18		100	58*	100	100	100	81*
2024	0			100	0						100	97*		
	22.5			100	0						100	97*		
	45			100	0						100	97*		

*** qualitative observation data**

Table 44 : Adhesion and Retention using 1% Triclopyr TEA + seq. + 0.2% Silwet 408 + 0.01% alcohol ethoxylate

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
726	0	100	84	100	100	100	100		100	81*	100	100	100	100
	22.5	100	14	100	100	100	100		100	81*	100	100	100	100
	45	100	0	100	100	100	100		100	25*	100	100	100	100
1056	0	100	0	100	100	100	32		100	81*	100	100	100	100
	22.5	100	0	100	90	100	22		100	81*	100	100	100	100
	45	100	0	100	86	100	84		100	25*	100	100	100	100
1973	0			33	0						88*	81*		
	22.5			0	0						88*	81*		
	45			0	0						88*	58*		

Table 45: Adhesion and Retention using 5% Triclopyr TEA + seq. + 0.2% Silwet 408 + 0.05% alcohol ethoxylate

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
653	0	100	100	100	100	100	100		100	100	100	100	100	100
	22.5	100	96	100	100	100	100		100	100	100	100	100	100
	45	100	6	100	100	100	100		100	97*	100	100	100	100
1027	0	100	0	100	100	100	100		100	97*	100	100	100	100
	22.5	100	6	100	100	100	100		100	97*	100	100	100	100
	45	100	0	100	100	100	100		100	81*	100	100	100	100
1893	0			0	0						100	88*		
	22.5			23	0						97*	81*		
	45			0	0						88*	81*		

*** qualitative observation data**

Table 46: Adhesion and Retention using 1% Triclopyr TEA + seq. + 0.2% Silwet L-77 + 0.01% alcohol ethoxylate

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
697	0	100	94	100	100	100	100		100	100	100	100	100	100
	22.5	100	72	100	100	100	100		100	100	100	100	100	100
	45	100	0	100	100	100	100		100	25*	100	100	100	100
1049	0	100	0	100	100	100	66		100	81*	100	100	100	100
	22.5	100	0	100	100	100	40		100	81*	100	100	100	100
	45	100	0	100	70	100	14		100	25*	100	100	100	81*
1933	0			100	0						100	93*		
	22.5			20	0						97*	81*		
	45			0	0						85*	81*		

Table 47: Adhesion and Retention using 5% Triclopyr TEA + seq. + 0.2% Silwet L-77 + 0.05% alcohol ethoxylate

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
639	0	100	100	100	100	100	100		100	100	100	100	100	100
	22.5	100	100	100	100	100	100		100	100	100	100	100	100
	45	100	2	100	100	100	100		100	97*	100	100	100	100
993	0	100	0	100	100	100	52		100	97*	100	100	100	100
	22.5	100	0	100	100	100	58		100	81*	100	100	100	100
	45	100	0	100	100	100	20		100	58*	100	100	100	58*
1981	0			30	0						88*	88*		
	22.5			27	0						97*	85*		
	45			0	0						88*	58*		

*** qualitative observation data**

Table 48: Adhesion and Retention using 1% Triclopyr TEA + seq. + 0.2% Silwet 408 + 0.01% alkyl phenolic glycol ether

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
717	0	100	88	100	100	100	100		100	81*	100	100	100	100
	22.5	100	32	100	100	100	100		100	58*	100	100	100	100
	45	100	0	100	100	100	92		100	25*	100	100	100	100
1020	0	100	0	100	100	100	62		100	81*	100	100	100	100
	22.5	100	0	100	100	100	82		100	25*	100	100	100	100
	45	100	0	100	100	100	16		100	25*	100	100	100	97*
2086	0			10	0						88*	81*		
	22.5			0	0						97*	81*		
	45			0	0						88*	81*		

Table 49: Adhesion and Retention using 5% Triclopyr TEA + seq. + 0.2% Silwet 408 + 0.05% alkyl phenolic glycol ether

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
669	0	100	98	100	100	100	100		100	100	100	100	100	100
	22.5	100	88	100	100	100	100		100	100	100	100	100	100
	45	100	4	100	100	100	100		100	81*	100	100	100	100
1091	0	100	100	100	100	100	56		100	81*	100	100	100	81*
	22.5	100	100	100	100	100	68		100	81*	100	100	100	81*
	45	88	100	100	100	100	62		100	81*	100	100	100	81*
1973	0			57	0						100	93*		
	22.5			0	0						88*	85*		
	45			0	0						97*	81*		

*** qualitative observation data**

Table 50: Adhesion and Retention using 1% Triclopyr TEA + seq. + 0.2% Silwet L-77 + 0.01% alkyl phenolic glycol ether

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
694	0	100	68	100	100	100	100		100	81*	100	100	100	100
	22.5	100	4	100	100	100	100		100	81*	100	100	100	100
	45	100	0	100	100	100	78		100	25*	100	100	100	81*
1039	0	100	0	100	64	100	0		100	25*	100	100	100	81*
	22.5	100	0	100	14	100	0		100	25*	100	100	100	81*
	45	100	0	100	0	100	0		100	25*	100	100	100	81*
2039	0			10	0						88*	58*		
	22.5			57	0						100	93*		
	45			0	0						97*	81*		

Table 51: Adhesion and Retention using 5% Triclopyr TEA + seq. + 0.2% Silwet L-77 + 0.05% alkyl phenolic glycol ether

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
658	0	100	96	100	100	100	100		100	100	100	100	100	100
	22.5	100	90	100	100	100	100		100	100	100	100	100	100
	45	100	0	100	100	100	100		100	25*	100	100	100	100
924	0	100	8	100	100	100	36		100	97*	100	100	100	100
	22.5	100	0	100	100	100	56		100	97*	100	100	100	100
	45	100	0	100	100	100	54		100	97*	100	100	100	97*
	0			100	0						100	93*		
	22.5			0	0						97*	97*		
	45			0	0						85*	81*		

*** qualitative observation data**

Table 52: Adhesion and Retention using 1% Triclopyr TEA + seq. + 0.2% Silwet 408

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
642	0	100	78	100	100	100	100		100	81*	100	100	100	100
	22.5	100	12	100	100	100	100		100	25*	100	100	100	100
	45	100	0	100	100	100	100		100	25*	100	100	100	100
1021	0	82	0	100	100	100	34		100	25*	100	100	100	100
	22.5	76	0	100	100	100	30		100	25*	100	100	100	81*
	45	82	0	100	100	100	8		100	25*	100	100	100	81*
2198	0			0	0						100	100		
	22.5			33	0						100	100		
	45			100	0						100	81*		

Table 53: Adhesion and Retention using5% Triclopyr TEA + seq. + 0.2% Silwet 408

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
728	0	100	40	100	100	100	100		100	97*	100	100	100	100
	22.5	100	68	100	100	100	100		100	97*	100	100	100	100
	45	100	0	100	100	100	100		100	25*	100	100	100	100
1145	0	100	0	100	100	100	40		100	81*	100	100	100	81*
	22.5	100	0	100	100	100	60		100	25*	100	100	100	81*
	45	96	0	100	100	100	50		100	25*	100	100	100	81*
2156	0			100	0						100	97*		
	22.5			100	0						100	97*		
	45			100	0						100	88*		

*** qualitative observation data**

Table 54: Adhesion and Retention using 1% Triclopyr TEA + seq. + 0.2% Silwet L-77

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
679	0	100	80	100	100	100	100		100	81*	100	100	100	100
	22.5	100	10	100	100	100	100		100	58*	100	100	100	100
	45	100	0	100	100	100	80		100	25*	100	100	100	100
1005	0	100	6	100	100	100	72		100	81*	100	100	100	100
	22.5	100	0	100	92	100	84		100	81*	100	100	100	81*
	45	100	0	100	16	92	8		100	58*	100	100	100	81*
2072	0			33	0						100	88*		
	22.5			0	0						100	73*		
	45			0	0						100	58*		

Table 55: Adhesion and Retention using 5% Triclopyr TEA + seq. + 0.2% Silwet L-77

DROP SIZE	LEAF ANGLE	ADHESION							RETENTION					
		RM		SG		RO			RM		SG		RO	
		AD	AB	AD	AB	AD	AB		AD	AB	AD	AB	AD	AB
638	0	100	100	100	100	100	100		100	100	100	100	100	100
	22.5	100	90	100	100	100	100		100	100	100	100	100	100
	45	100	0	100	100	100	84*		100	81*	100	100	100	100
976	0	100	14	100	88	100	32		100	58*	100	100	100	100
	22.5	100	0	100	62	100	44		100	58*	100	100	100	81*
	45	100	0	100	44	100	25		100	58*	100	100	100	81*
2115	0			100	0						100	97*		
	22.5			100	0						100	97*		
	45			100	0						100	88*		

*** qualitative observation data**