

# Tree Row Volume Spraying My Way

# Incremental movement toward High density (Not recommended)

Block	Variety	Tree	Row	Trees/ Acre
PRIDE & JOY	All	15	25	116
BV SWEET CHERRY	All	15	25	116
GRAVEYARD	All	15	25	116
DOUG'S BLOCK	All	15	25	116
JONAGOLD BLOCK	All	20	12	182
ASPER HILL	All	20	10	218
BULL VALLEY	All	18	8	303
CHERRY HILL	All	6	18	403
GUISE BLOCK	All	6	17	427
HINKLE BLOCK	All	6	16	454
WOODS BLOCK	All	5	15	581
THOMAS BLOCK	All	4	14	778
WEAVER BLOCK	All	4	14	778
LUCY BLOCK	All	4	14	778
SWAMP BLOCK	All	4	14	778

- Dr. Paul Steiner
- .09 Gal per 1,000 cubic feet of Tree Row Volume
- Mixed at 4X (4 times the amount of chemical per 100 gallons as recommended on the label for “dilute spraying” - Chemical Amt./100gal tree sprayed to runoff)
- We were spraying a 6X concentration at 50gal/Acre (Industry Standard)



**Nozzle Setting 1**

50

TRV

**Multiplier 1.0**

0.09

Ground

Gal /

**Block**

**Variety**

**Row**

**Height**

**Width**

**Speed**

**Acre**

PRIDE & JOY All 25 0

BV SWEET CHERRY All 0

GRAVEYARD All 0

DOUG'S BLOCK All 0

#N/A #N/A 0

#N/A #N/A 0

#N/A #N/A 0

#N/A #N/A 0

#N/A #N/A 0

#N/A #N/A 0

#N/A #N/A 0

#N/A #N/A 0

#N/A #N/A 0

#N/A #N/A 0

#N/A #N/A 0

#N/A #N/A 0









Nozzle Setting 1

50

TRV

Multiplier

1.0

0.09

Ground

Gal /

Block

Variety

Row

Height

Width

Speed

Acre

PRIDE & JOY

All

25

18

17.715

50

BV SWEET CHERRY

All

25

18

17.715

50

GRAVEYARD

All

25

18

17.715

50

DOUG'S BLOCK

All

25

18

17.715

50

#N/A

#N/A

0

#N/A

#N/A

0

#N/A

#N/A

0

#N/A

#N/A

0

#N/A

#N/A

0

#N/A

#N/A

0

#N/A

#N/A

0

#N/A

#N/A

0

#N/A

#N/A

0

#N/A

#N/A

0

Nozzle Setting 1			50	TRV	Ground Speed	Multiplier	1.0
Block	Variety	Row	Height	Width		Gal / Acre	
JONAGOLD BLOCK	All	20	18	14		49	
ASPER HILL	All	20	18	12		42	
BULL VALLEY	All	18	18	10		39	
CHERRY HILL	All	18	16	8		28	
GUISE BLOCK	All	17	15	7		24	
HINKLE BLOCK	All	17	15	7		24	
WOODS BLOCK	All	15	14	6		22	
THOMAS BLOCK	All	14	13	4		15	
WEAVER BLOCK	All	14	12	4		13	
LUCY BLOCK	All	14	10	3		8	
SWAMP BLOCK	All	14	10	3		8	

**Nozzle Setting 1**

**50**

**TRV**

**Multiplier 1.5**

**0.09**

**Ground**

**Gal /**

**Speed**

**Acre**

Block	Variety	Row	Height	Width	Speed	Acre
CHERRY HILL	All	18	16	8		42
GUISE BLOCK	All	17	15	7		36
HINKLE BLOCK	All	17	15	7		36
WOODS BLOCK	All	15	14	6		
THOMAS BLOCK	All	14	13	4		22
WEAVER BLOCK	All	14	12	4		20
LUCY BLOCK	All	14	10	3		13
SWAMP BLOCK	All	14	10	3		13

Nozzle Setting 1

50

TRV

Multiplier 1.5

0.09

Ground

Gal /

Block

Variety

Row

Height

Width

Speed

Acre

CHERRY HILL All

17

15

7

36

GUISE BLOCK All

17

15

7

36

HINKLE BLOCK All

17

15

7

36

WOODS BLOCK All

17

15

7

36

THOMAS BLOCK All

14

13

4.5

25

WEAVER BLOCK All

14

13

4.5

25

LUCY BLOCK All

14

10

3

13

SWAMP BLOCK All

14

10

3

13

Nozzle Setting 2		50	TRV	Multiplier	1.5	GROUND	Gal /	PSI	FLOW	PSI	FLOW
Block	Variety	Row	Height	Width	Speed	Acre			Gal/m		Gal/m
									/Side		/Side
CHERRY HILL	All	17	15	7	3.6 to	4.2 mph	36	106	2.25	144	2.62
GUISE BLOCK	All	17	15	7	3.6 to	4.2 mph	36	106	2.25	144	2.62
HINKLE BLOCK	All	17	15	7	3.6 to	4.2 mph	36	106	2.25	144	2.62
FUNT BLOCK	All	17	15	7	3.6 to	4.2 mph	36	106	2.25	144	2.62
WOODS BLOCK	All	17	15	7	3.6 to	4.2 mph	36	106	2.25	144	2.62
HOME BLOCK	All	17	15	7	3.6 to	4.2 mph	36	106	2.25	144	2.62
DOG HOUSE	All	17	15	7	3.6 to	4.2 mph	36	106	2.25	144	2.62
GALA BLOCK	All	17	15	7	3.6 to	4.2 mph	36	106	2.25	144	2.62
BUD 9 BLOCK	All	17	15	7	3.6 to	4.2 mph	36	106	2.25	144	2.62
SHEAFFER FARM	All	17	15	7	3.6 to	4.2 mph	36	106	2.25	144	2.62
LESTER'S BLOCK	All	17	15	7	3.6 to	4.2 mph	36	106	2.25	144	2.62
#N/A	#N/A						0	#N/A	0.00	#N/A	0.00
#N/A	#N/A						0	#N/A	0.00	#N/A	0.00
#N/A	#N/A						0	#N/A	0.00	#N/A	0.00
#N/A	#N/A						0	#N/A	0.00	#N/A	0.00



- 4 calibrations
- 50 Gal/ Acre –Big old trees (same as Dad did)
- 36 Gal/ Acre -Dwarf/Semi-dwarf Plantings (TRV calculations say I should be spraying 24 Gal/ Acre)
- 25 Gal/ Acre -Young (3<sup>rd</sup>-4<sup>th</sup> leaf)Dwarf Plantings (TRV calculations say I should be spraying 20 Gal/ Acre)
- 13 Gal/ Acre – New non-bearing plantings (if I can get the sprayer to go that low)
- All are mixed at 6X concentration.

- WARNING
- Do not Double Dip \_Reduce the amount of chemical per tank and the gallons per acre applied.



This subject needs more  
research!!!