WS#1

Elevation calculation: $3.09 - 1.794 = 1.296$ Empty 2002 Survey points avg.: $273.44 / 80 = 3.42$ Elevation calculation: $3.42 - 1.698 = 1.722$ Elevation difference: $1.722 - 1.296 = 0.426$ Square Footage used in calculation (80 pts x 4) x .0929 = 29.728 m ² Sediment volume: $29.728 \text{ m}^2 \text{ x } .426\text{m} = 12.66 \text{ m}^3$ Basin wide: $12.66 \text{ m}^3 / 69.2 \text{ ha.} = 0.18 \text{ m}^3/\text{ha}$ WS#2 Full 2000 Survey points avg.: $196.97 / 70 = 2.81$ Elevation calculation: $2.81 - 1.543 = 1.267$ Empty 2000 Survey points avg.: $192.75 / 70 = 2.75$ Elevation calculation: $2.75 - 1.405 = 1.345$ Elevation difference: $1.345 - 1.267 = 0.078$
Empty 2002 Survey points avg.: $273.44 / 80 = 3.42$ Elevation calculation: $3.42 - 1.698 = 1.722$ Elevation difference: $1.722 - 1.296 = 0.426$ Square Footage used in calculation (80 pts x 4) x .0929 = 29.728 m ² Sediment volume: $29.728 \text{ m}^2 \text{ x } .426\text{m} = 12.66 \text{ m}^3$ Basin wide: $12.66 \text{ m}^3 / 69.2 \text{ ha.} = 0.18 \text{ m}^3/\text{ha}$ WS#2 Full 2000 Survey points avg.: $196.97 / 70 = 2.81$ Elevation calculation: $2.81 - 1.543 = 1.267$ Empty 2000 Survey points avg.: $192.75 / 70 = 2.75$ Elevation calculation: $2.75 - 1.405 = 1.345$ Elevation difference: $1.345 - 1.267 = 0.078$
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Elevation calculation: $2.75 - 1.405 = 1.345$ Elevation difference: $1.345 - 1.267 = 0.078$
Elevation difference: $1.345 - 1.267 = 0.078$
Square Equation (20 pts x 4) x $0.029 = 26.012$ m
Sediment volume: $26.012 \times 0.078 = 2.03 \text{ m}^3$
Basin wide: $20.012 \times 0.076 = 2.05$ m ³ /ba
WS#3
Full 2000 Survey points avg : $166.27 / 70 = 2.38$
Flevation calculation: $2.38 - 1.501 = 0.879$
Energy 2000 Survey points avg : 225.6 / $70 = 3.22$
Elevation calculation: $3.22 - 1.612 = 1.608$
Elevation difference: $1.608 - 0.870 = 0.729$
Square Ecotage used in calculation (70 nts x 4) x $0020 - 26012$ m
Square robiage used in calculation (70 pts $x + 1$) $x \cdot 0.929 = 20.012$ in Sadiment volume: 26.012 x 0.072 = 18.06 m ³
Basin wide: 18.96 $m^3 / 40.8 ha = 0.381 m^3/ha$
WS#4
Full 2000 Survey points and $(154.02 / 70 - 2.20)$
Flavation calculation: $2.20 - 1.304 = 0.806$
Enclation calculation. $2.20 - 1.594 - 0.000$
Ellipty 2000 Survey points avg.: $224.34770 = 5.21$ Elevation calculation: $3.21 \pm 1.173 = 2.037$
Elevation difference: $2.027 = 0.806 = 1.221$
Elevation difference: $2.037 - 0.000 - 1.231$ Squara Ecotage used in calculation (70 pts x 4) x $0020 - 26.012$ m
Square robulage used in calculation (70 pts x 4) x $.0929 = 20.012$ III Sediment volume: 26 012 x 0 072 = 32 02 m ³
Basin wide: 18.06 m ³ / A 0.8 ha = 0.66 m ³ /

2017 Note: These sediment volume calculations are in question because the WS#1 and WS#2 values are much higher than any of the bucket count calculations that we have recorded since 2003. The WS#3 and #4 values are more reasonable for those sites but the Empty / Full surveys lines are offset by 1 ft. The Empty survey was performed starting at 2 ft. from the basin wall on the gaging station side, where as the Full survey was performed starting at the 1 ft point from the basin wall on the gaging station of the data should be done to decide if the data is useable or not.

WS#1	
Full 2001	Survey points avg.: 265.61 / 90 = 2.95
E	Elevation calculation: $2.95 - 1.610 = 1.340$
Empty 2002	Survey points avg.: 298.31 / 90 = 3.31
E	Elevation calculation: $3.31 - 1.698 = 1.612$
E	Elevation difference: $1.612 - 1.340 = 0.272$
S	guare Footage used in calculation (90 pts x 4) x $.0929 = 33.444 \text{ m}^2$
S	ediment volume: $33.444 \text{ m}^2 \text{ x} .272 \text{ m} = 9.10 \text{ m}^3$
E	Basin wide: $9 \ 10 \ \text{m}^3 \ / \ 69 \ 2 \ \text{ha} = 0 \ 132 \ \text{m}^3/\text{ha}$
WS#2	
Full 2001	Survey points avg.: $197.8 / 70 = 2.83$
F	Elevation calculation: $2.83 - 1.549 = 1.281$
Empty 200	00 Survey points avg.: $192.75 / 70 = 2.75$
E	Elevation calculation: $2.75 - 1.405 = 1.345$
E	Elevation difference: $1.345 - 1.281 = 0.064$
S	guare Footage used in calculation (70 pts x 4) x $.0929 = 26.012$ m
S	ediment volume: $26.012 \times 0.064 = 1.66 \text{ m}^3$
Е	Basin wide: $1.66 \text{ m}^3 / 68.4 \text{ ha} = 0.024 \text{ m}^3/\text{ha}$
WS#3	
Full 2001	Survey points avg.: $205.57 / 70 = 2.94$
E	Elevation calculation: $2.94 - 1.213 = 1.727$
Empty 200	00 Survey points avg.: $225.61 / 70 = 3.22$
E	Elevation calculation: $3.22 - 1.612 = 1.608$
E	Elevation difference: $1.727 - 1.608 = 0.119$
S	quare Footage used in calculation (70 pts x 4) x $.0929 = 26.012$ m
S	ediment volume: $26.012 \times 0.119 = 3.095 \text{ m}^3$
E	Basin wide: $3.095 \text{ m}^3 / 49.8 \text{ ha.} = 0.062 \text{ m}^3/\text{ha}$
WS#4	
Full 2001	Survey points avg.: 249.77 / 70 = 3.54
E	Elevation calculation: $3.54 - 1.499 = 2.041$
Empty 200	00 Survey points avg.: 224.54 / 70 = 3.21
E	Elevation calculation: $3.21 - 1.173 = 2.037$
E	Elevation difference: $2.041 - 2.037 = 0.004$
S	quare Footage used in calculation (70 pts x 4) x $.0929 = 26.012$ m
S	ediment volume: $26.012 \times 0.004 = 0.104 \text{ m}^3$
E	Basin wide: $0.104 \text{ m}^3 / 49.8 \text{ ha.} = 0.002 \text{ m}^3$

2017 Note: These sediment volume calculations are in question because the WS#1 and WS#2 values are much higher than any of the bucket count calculations that we have recorded since 2003. The WS#3 and #4 values are more reasonable for those sites but the Empty / Full surveys lines are offset by 1 ft. The Empty survey was performed starting at 2 ft. from the basin wall on the gaging station side, where as the Full survey was performed starting at the 1 ft point from the basin wall on the gaging station of the data should be done to decide if the data is useable or not.

WS#1

Full 2002 Survey points avg.: 281.05 / 90 = 3.12
Elevation calculation: $3.12 - 1.794 = 1.326$
Empty 2000 Survey points avg.: 298.31 / 90 = 3.31
Elevation calculation: $3.31 - 1.698 = 1.612$
Elevation difference: $1.612 - 1.326 = 0.286$
Square Footage used in calculation (90 pts x 4) x $.0929 = 33.444 \text{ m}^2$
Sediment volume: $33.444 \text{ m}^2 \ge 0.286 \text{m} = 9.57 \text{ m}^3$
Basin wide: $9.57 \text{ m}^3 / 69.2 \text{ ha.} = 0.138 \text{ m}^3/\text{ha}$

WS#2

Full 2002 Survey points avg.: 206.43 / 70 = 2.95
Elevation calculation: $2.95 - 1.698 = 1.252$
Empty 2000 Survey points avg.: 192.75 / 70 = 2.75
Elevation calculation: $2.75 - 1.405 = 1.345$
Elevation difference: $1.345 - 1.252 = 0.093$
Square Footage used in calculation (70 pts x 4) x $.0929 = 26.012$ m
Sediment volume: $26.012 \times 0.093 = 2.419 \text{ m}^3$
Basin wide: 2.419 m ³ / 68.4 ha. = $0.035 \text{ m}^3/\text{ha}$

WS#3

Total $\#$ of 5 gallon buckets = 22
Sediment Volume = $22 \times 0.019 = 0.418 \text{ m}^3$
Basin wide: 0.418 cubic meters / 49.8 hectares = 0.008 m^3 / ha

WS#4

Total $\#$ of 5 gallon buckets = 50.5
Sediment Volume = $50.5 \times 0.019 = 0.960 \text{ m}^3$
Basin wide: 0.960 cubic meters / 48.6 hectares = 0.020 m^3 / ha

2017 Note: These sediment volume calculations for WS# 1 and WS#2 are in question because the WS#1 and WS#2 values are much higher than any of the bucket count calculations that we have recorded since 2003. The WS#3 and #4 values are bucket counts so we have confidence in those values.

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$
	Total $\#$ of 5 gallon buckets = 5.5
	Sediment Volume = $5.5 \times 0.019 = .105 \text{ m}^3$
	Basin wide: 0105 cubic meters / 69.2 hectares = 0.002 m^3 / ha
WS#2	
	Total $\#$ of 5 gallon buckets = 6
	Sediment Volume = $6 \times 0.019 = 0.114 \text{ m}^3$
	Basin wide: 0.114 cubic meters / 68.4 hectares = 0.002 m^3 / ha
WS#3	
	Total # of 5 gallon buckets = 45
	Sediment Volume = $45 \times 0.019 = 0.855 \text{ m}^3$
	Basin wide: 0.855 cubic meters / 49.8 hectares = 0.017 m^3 / ha
WS#4	
W On T	Total # of 5 gallon buckets = 18
	Sediment Volume = $18 \times 0.019 = 0.342 \text{ m}^3$

Basin wide: 0.342 cubic meters / 48.6 hectares = 0.007 m^3 / ha

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$
	Total $\#$ of 5 gallon buckets = 23.5
	Sediment Volume = $23.5 \times 0.019 = 0.447 \text{ m}^3$
	Basin wide: 0447 cubic meters / 69.2 hectares = 0.007 m^3 / ha
WS#2	
	Total # of 5 gallon buckets = 7.5
	Sediment Volume = $7.5 \times 0.019 = 0.143 \text{ m}^3$
	Basin wide: 0.143 cubic meters / 68.4 hectares = 0.002 m^3 / ha
WS#3	
	Total $\#$ of 5 gallon buckets = 137.5
	Sediment Volume = $137.5 \times 0.019 = 2.613 \text{ m}^3$
	Basin wide: 2.613 cubic meters / 49.8 hectares = 0.053 m^3 / ha
WS#4	
	Total # of 5 gallon buckets = 23.5
	Sediment Volume = $23.5 \times 0.019 = 0.447 \text{ m}^3$

Basin wide: 0.447 cubic meters / 48.6 hectares = 0.009 m^3 / ha

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$
	Total $\#$ of 5 gallon buckets = 14.5
	Sediment Volume = $14.5 \times 0.019 = 0.274 \text{ m}^3$
	Basin wide: 0.274 cubic meters / 69.2 hectares = 0.004 m ³ / ha
WS#2	
	Total $\#$ of 5 gallon buckets = 19
	Sediment Volume = $12 \times 0.019 = 0.228 \text{ m}^3$
	Basin wide: 0.228 cubic meters / 68.4 hectares = 0.003 m^3 / ha
WS#3	
	Total $\#$ of 5 gallon buckets = 181
	Sediment Volume = $181 \times 0.019 = 3.439 \text{ m}^3$
	Basin wide: 3.439 cubic meters / 49.8 hectares = 0.069 m^3 / ha
WS#4	
	Total # of 5 gallon buckets = 36
	Sediment Volume = $36 \times 0.019 = 0.684 \text{ m}^3$

Basin wide: 0.684 cubic meters / 48.6 hectares = 0.014 m^3 / ha

Coyote Creek Annual Sediment Basin Yield Calculations for 2006

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$
	Total $\#$ of 5 gallon buckets = 66
	Sediment Volume = $66 \times 0.019 = 1.254 \text{ m}^3$
	Basin wide: 1.254 cubic meters / 69.2 hectares = 0.018 m^3 / ha
WS#2	
	Total $\#$ of 5 gallon buckets = 19
	Sediment Volume = $19 \times 0.019 = 0.361 \text{ m}^3$
	Basin wide: 0.361 cubic meters / 68.4 hectares = 0.005 m^3 / ha
WS#3	
	Total $\#$ of 5 gallon buckets = 884
	Sediment Volume = $884 \times 0.019 = 16.796 \text{ m}^3$
	Basin wide: 16.796 cubic meters / 49.8 hectares = 0.337 m^3 / ha
WS#4	
	Total $\#$ of 5 gallon buckets = 57
	Sediment Volume = $57 \times 0.019 = 1.083 \text{ m}^3$

Basin wide: 1.083 cubic meters / 48.6 hectares = 0.022 m^3 / ha

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$
	Total # of 5 gallon buckets = 14 half buckets / $2 = 7$
	Sediment Volume = $7 \times 0.019 = 0.133 \text{ m}^3$
	Basin wide: 0.133 cubic meters / 69.2 hectares = 0.002 m^3 / ha
WS#2	
	Total # of 5 gallon buckets = 23 half buckets / $2 = 11.5$
	Sediment Volume = $11.5 \times 0.019 = 0.219 \text{ m}^3$
	Basin wide: 0.219 cubic meters / 68.4 hectares = 0.003 m^3 / ha
WS#3	
	Total # of 5 gallon buckets = 327 half buckets / 2 = 163.5 full buckets Sediment Valume = $163.5 \times 0.010 = 3.107 \text{ m}^3$
	Sequinent volume = $103.5 \times 0.019 = 5.107$ m Design wides 2.107 subig metars / 40.8 heateres = 0.062 m ³ /he
	Basin wide: 5.107 cubic meters / 49.8 nectares – 0.065 m / na
WS#4	
	Total # of 5 gallon buckets = 41 half buckets / $2 = 20.5$ full buckets
	Sediment Volume = $20.5 \times 0.019 = 0.390 \text{ m}^3$

Originally, in the field, the bucket tally was recorded in half buckets. I did not realize this so I am correcting my bucket count by dividing the tally by 2 and rounding to the next highest bucket. 7-18-2008

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x 0.003785 m ³ = 0.019 m ³
	Total # of 5 gallon buckets = 7 half buckets / $2 = 3.5$
	Sediment Volume = $3.5 \times 0.019 = .067 \text{ m}^3$
	Basin wide: 0.067 cubic meters / 69.2 hectares = 0.001 m^3 / ha
WS#2	
	Total # of 5 gallon buckets = 11 half buckets / $2 = 5.5$ or 6
	Sediment Volume = $6 \times 0.019 = 0.114 \text{ m}^3$
	Basin wide: 0.114 cubic meters / 68.4 hectares = 0.002 m^3 / ha
WS#3	
	Total # of 5 gallon buckets = 114 half buckets / $2 = 57$ full buckets
	Sediment Volume = $57 \times 0.019 = 1.083 \text{ m}^3$
	Basin wide: 1.083 cubic meters / 49.8 hectares = 0.022 m^3 / ha
WS#A	
W 5 <i>m</i> -	Total # of 5 gallon buckets = 23 half buckets $/2 = 11.5$ or 12 full buckets
	Sediment Volume = $12 \times 0.019 = 0.228 \text{ m}^3$

Basin wide: cubic meters $0.228 \text{ m}^3/48.6 \text{ hectares} = 0.005 \text{ m}^3/\text{ ha}$

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$
	1 otal # of 5 gallon buckets = 33 half buckets / $2 = 16.5$
	Sediment Volume = $16.5 \times 0.019 = 0.314 \text{ m}^3$
	Basin wide: 0.314 cubic meters / 69.2 hectares = 0.005 m^3 / ha
WS#2	
	Total # of 5 gallon buckets = 34 half buckets / $2 = 17$
	Sediment Volume = $17 \times 0.019 = 0.323 \text{ m}^3$
	Basin wide: 0.323 cubic meters / 68.4 hectares = 0.005 m^3 / ha
WS#3	
	Total # of 5 gallon buckets = 165 half buckets / $2 = 82.5$ full buckets
	Sediment Volume = $82.5 \times 0.019 = 1.568 \text{ m}^3$
	Basin wide: 1.568 cubic meters / 49.8 hectares = 0.032 m^3 / ha
WS#A	
W 0# H	Total # of 5 gallon buckets = 81 half buckets $/2 = 40.5$ full buckets
	Sediment Volume = $40.5 \times 0.019 = 0.770 \text{ m}^3$

Basin wide: cubic meters 0.770 m³/ 48.6 hectares = 0.016 m^3 / ha

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003/85$ m ³ = 0.019 m ³ Total # of 5 gallon buckets = 7 half buckets / 2 = 3.5
	Sediment Volume = $3.5 \times 0.019 = 0.067 \text{ m}^3$
	Basin wide: 0.067 cubic meters / 69.2 hectares = 0.001 m^3 / ha
WS#2	
	Total # of 5 gallon buckets = 8 half buckets / $2 = 4$
	Sediment Volume = $4 \times 0.019 = 0.076 \text{ m}^3$
	Basin wide: 0.076 cubic meters / 68.4 hectares = 0.001 m^3 / ha
WS#3	
	Total # of 5 gallon buckets = 94 half buckets / $2 = 47$ full buckets
	Sediment Volume = $47 \times 0.019 = 0.893 \text{ m}^3$
	Basin wide: 0.893 cubic meters / 49.8 hectares = 0.018 m^3 / ha
WS#4	
W Bill I	Total # of 5 gallon buckets = 23 half buckets $/ 2 = 11.5$ full buckets
	Sediment Volume = $11.5 \times 0.019 = 0.219 \text{ m}^3$

Basin wide: cubic meters $0.219 \text{ m}^3/48.6 \text{ hectares} = 0.005 \text{ m}^3/\text{ ha}$

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$ Total # of 5 gallon buckets = 51 half buckets / 2 = 25.5
	Sediment Volume = $25.5 \times 0.019 = 0.485 \text{ m}^3$
	Basin wide: 0.485 cubic meters / 69.2 hectares = 0.007 m^3 / ha
WS#2	
	Total # of 5 gallon buckets = 17 half buckets / $2 = 8.5$ Sediment Volume = $8.5 \times 0.019 = 0.162 \text{ m}^3$
	Basin wide: 0.162 cubic meters / 68.4 hectares = 0.002 m^3 / ha
WS#3	
	Total # of 5 gallon buckets = 949 half buckets / $2 = 474.5$ full buckets Sodiment Volume = 474.5 x 0.010 = 0.016 m ³
	Sediment volume $-4/4.3 \times 0.019 - 9.010$ III Pagin wide: 0.016 aubia matera / 40.8 heateres $= 0.181 \text{ m}^3/\text{he}$
	Dashi wide. 9.010 cubic meters / 49.8 metares $-$ 0.181 m / na
WS#4	
	Total # of 5 gallon buckets = 253 half buckets / $2 = 126.5$ full buckets Sediment Volume = $126.5 \times 0.019 = 2.404 \text{ m}^3$

Basin wide: cubic meters 2.404 m³/ 48.6 hectares = 0.050 m^3 / ha

WS#1	
	1 liquid gallon = 0.003785 m^3 Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$ Total # of 5 gallon buckets = 8 half buckets / 2 = 4 Sediment Volume = 4 x $0.019 = 0076 \text{ m}^3$ Basin wide: 0.076 cubic meters / 69.2 bectares = 0.001 m ³ / ba
	Dashi wide. 0.070 edole meters7 09.2 needates 0.001 m 7 na
WS#2	
	Total # of 5 gallon buckets = 13 half buckets / $2 = 6.5$ Sediment Volume = $6.5 \times 0.019 = 0.124 \text{ m}^3$ Basin wide: 0.124 cubic meters / 68.4 hectares = 0.002 m ³ /ha
WS#3	
	Total # of 5 gallon buckets = 420 half buckets / $2 = 210$ full buckets Sediment Volume = $210 \times 0.019 = 3.99 \text{ m}^3$ Basin wide: 3.99 cubic meters / 49.8 hectares = 0.080 m^3 / ha
WS#4	
	Total # of 5 gallon buckets = 65 half buckets / $2 = 32.5$ full buckets Sediment Volume = $32.5 \times 0.019 = 0.618 \text{ m}^3$

Basin wide: cubic meters 0.618 m³/ 48.6 hectares = 0.013 m^3 / ha

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$
	Total # of 5 gallon buckets = 14 half buckets $/ 2 = 7$
	Sediment Volume in sediment basin = $7 \times 0.019 = 0.133 \text{ m}^3$
	Sediment volume/ha calculation: Volume in sediment basin ÷ watershed (ha's)
	Sed. Volume/ha : 0.133 cubic meters / 69.2 hectares = 0.002 m^3 / ha
WS#2	
	Total # of 5 gallon buckets = 4 half buckets $/ 2 = 2$
	Sediment Volume = $2 \times 0.019 = 0.038 \text{ m}^3$
	Sediment volume/ha: 0.038 cubic meters / 68.4 hectares = 0.0005 m ³ /ha
WS#3	
	Total # of 5 gallon buckets = 543 half buckets / $2 = 271.5$ full buckets
	Sediment Volume = $271.5 \times 0.019 = 5.159 \text{ m}^3$
	Sediment volume/ha: 5.159 cubic meters / 49.8 hectares = 0.104 m^3 / ha
WS#4	
	Total # of 5 gallon buckets = 125 half buckets / $2 = 62.5$ full buckets
	Sediment Volume = $62.5 \times 0.019 = 1.188 \text{ m}^3$
	Sediment volume/ha: cubic meters $1.188 \text{ m}^3/48.6 \text{ hectares} = 0.024 \text{ m}^3/\text{ ha}$

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$
	Total # of 5 gallon buckets = 105 half buckets / $2 = 52.5$
	Sediment Volume in sediment basin = $x 0.019 = 0$. m ³
	Sediment volume/ha calculation: Volume in sediment basin ÷ watershed (ha's)
	Sed. Volume/ha : 1.00 cubic meters / 69.2 hectares = 0.015 m^3 / ha
WS#2	
	Total # of 5 gallon buckets = 13 half buckets $/ 2 = 6.5$
	Sediment Volume = $6.5 \times 0.019 = 0.124 \text{ m}^3$
	Sediment volume/ha: 0.124 cubic meters / 68.4 hectares = 0.002 m^3 / ha
WS#3	
	Total # of 5 gallon buckets = 1113 half buckets / $2 = 556.5$ full buckets
	Sediment Volume = $556.5 \times 0.019 = 10.574 \text{ m}^3$
	Sediment volume/ha: 10.574 cubic meters / 49.8 hectares = 0.212 m^3 / ha
WS#4	
	Total # of 5 gallon buckets = 537 half buckets / $2 = 268.5$ full buckets
	Sediment Volume = $268.5 \times 0.019 = 5.102 \text{ m}^3$
	Sediment volume/ha: cubic meters $5.102 \text{ m}^3/48.6 \text{ hectares} = 0.105 \text{ m}^3/\text{ ha}$

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$
	Total # of 5 gallon buckets = 46 half buckets $/ 2 = 23$
	Sediment Volume in sediment basin = $23 \times 0.019 = 0.437 \text{ m}^3$
	Sediment volume/ha calculation: Volume in sediment basin ÷ watershed (ha's)
	Sed. Volume/ha : 0.437 cubic meters / 69.2 hectares = 0.006 m^3 / ha
WS#2	
W Bil Z	Total # of 5 gallon buckets = 16 half buckets $/ 2 = 8$
	Sediment Volume = $8 \times 0.019 = 0.152 \text{ m}^3$
	Sediment volume/ha: 0.152 cubic meters / 68.4 hectares = 0.002 m^3 / ha
WS#3	
	Total # of 5 gallon buckets = 1484 half buckets / 2 = 742 full buckets
	Sediment Volume = $742 \times 0.019 = 14.098 \text{ m}^3$
	Sediment volume/ha: 14.098 cubic meters / 49.8 hectares = 0.283 m^3 / ha
WS#4	
110/11	Total # of 5 gallon buckets = 944 half buckets $/ 2 = 472$ full buckets
	Sediment Volume = $472 \times 0.019 = 8.968 \text{ m}^3$
	Sediment volume/ha: cubic meters 8.968 m ³ / 48.6 hectares = 0.185 m^3 / ha

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$
	Total # of 5 gallon buckets = 76 half buckets / $2 = 38$
	Sediment Volume in sediment basin = $x 0.019 = 0.722 \text{ m}^3$
	Sediment volume/ha calculation: Volume in sediment basin ÷ watershed (ha's)
	Sed. Volume/ha : 0.772 cubic meters / 69.2 hectares = 0.010 m^3 / ha
WS#2	
W Bil Z	Total # of 5 gallon buckets = 28 half buckets $/ 2 = 14$
	Sediment Volume = $14 \times 0.019 = 0.266 \text{ m}^3$
	Sediment volume/ha: 0.266 cubic meters / 68.4 hectares = 0.004 m^3 / ha
WS#3	
	1 excavator bucket = 33 full - 5 gallon buckets
	Total # of excavator buckets = 11.5 $11.5 \times 33 = 379.55$ gallon buckets Total # of 5 gallon buckets $379.5 + 3 \text{ extra} = 382.5$
	Sediment Volume = $382.5 \times 0.019 = 7.268 \text{ m}^3$
	Sediment volume/ha: 7.268 cubic meters / 49.8 hectares = 0.146 m^3 / ha
WS#4	11 full excavator buckets = $11 \times 33 = 363$ full 5 gallon buckets
	Also 304 $\frac{1}{2}$ buckets collected 304 / 2 = 152 + 10 extra = 162 full buckets
	Total # of 5 gallon buckets = $363 + 162 = 525$ full buckets
	Sediment Volume = $525 \times 0.019 = 9.975 \text{ m}^3$
	Sediment volume/ha: cubic meters 9.975 m ³ / 48.6 hectares = 0.205 m^3 / ha

In the field, sediment was tallied in half buckets of a 5 gallon bucket. Also in an excavator bucket that holds 33 , full, 5 gallon buckets

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$
	Total number of $\frac{1}{2}$ buckets = 25 Total # of 5 collon buckets = 25 holf buckets / 2 = 12.5
	For a first for the second se
	Sediment volume in sediment basin $-12.5 \times 0.019 - 0.258$ in Sediment volume/ha calculation: Volume in sediment basin \div watershed (ha's)
	Sed. Volume/ha : 0.238 cubic meters / 69.2 hectares = 0.003 m^3 / ha
WS#2	
	Total # of $\frac{1}{2}$ buckets = 5
	Total # of 5 gallon buckets = 5 half buckets $/ 2 = 2.5$
	Sediment Volume = $2.5 \times 0.019 = 0.048 \text{ m}^3$
	Sediment volume/ha: 0.048 cubic meters / 68.4 hectares = 0.0007 m ³ /ha
WS#3	
	Total number of $\frac{1}{2}$ buckets = 194
	Total # of 5 gallon buckets = $194/2 = 97$ full buckets
	Sediment Volume = $97 \times 0.019 = 1.843 \text{ m}^3$
	Sediment volume/ha: 1.843 cubic meters / 49.8 hectares = 0.037 m^3 / ha
WS#4	Total number of $\frac{1}{2}$ buckets
	264 half buckets / $2 = 132$ rull 5 gallon buckets
	Sediment volume = $132 \times 0.019 = 2.508 \text{ m}^3$ Sediment volume/he: oubic maters $2.508 \text{ m}^3/48.6$ heaterss = $0.052 \text{ m}^3/hc$
	Sequencent volume/ma. cubic meters $2.308 \text{ m} / 48.0 \text{ metares} = 0.032 \text{ m} / \text{ma}$

In the field, sediment was tallied in half buckets of a 5 gallon bucket. We did not need to use an excavator or backhoe to empty any of the basins, there was not enough sediment in the basins to justify the time and expense.

WS#1	
	1 liquid gallon = 0.003785 m^3
	Volume of a 5 gallon bucket = 5 gal x $0.003785 \text{ m}^3 = 0.019 \text{ m}^3$
	Total number of $\frac{1}{2}$ buckets = 8
	1 otal # of 5 gallon buckets = 8 half buckets / $2 = 4$
	Sediment volume in sediment dasin $-4 \times 0.019 - 0.070$ m Sediment volume/ha calculation: Volume in sediment basin \div watershed (ha's)
	Sed. Volume/ha : $0.076 \text{ m}^3 / 69.2 \text{ hectares} = 0.001 \text{ m}^3 / \text{ha}$
WS#2	
	Total # of $\frac{1}{2}$ buckets = 5
	Total # of 5 gallon buckets = 5 half buckets / $2 = 2.5$
	Sediment Volume = $2.5 \times 0.019 = 0.048 \text{ m}^3$
	Sediment volume/ha: $0.048 \text{ m}^3 / 68.4 \text{ hectares} = 0.0007 \text{ m}^3 / \text{ha}$
WS#3	
	Total number of $\frac{1}{2}$ buckets = 19
	Total # of 5 gallon buckets = $19/2 = 9.5$ full buckets
	Sediment Volume = $9.5 \times 0.019 = 0.181 \text{ m}^3$
	Sediment volume/ha: 0.181 m^3 / 49.8 hectares = 0.0036 m^3 / ha
WS#4	Total number of $\frac{1}{2}$ buckets = 19
	Total # of 5 gallon buckets = $19 / 2 = 9.5$ full 5 gallon buckets
	Sediment Volume = $9.5 \times 0.019 = 0.181 \text{ m}^3$
	Sediment volume/ha: $0.181 \text{ m}^3/48.6 \text{ hectares} = 0.0037 \text{ m}^3/\text{ ha}$

In the field, sediment was tallied in half buckets of a 5 gallon bucket. We did not need to use an excavator or backhoe to empty any of the basins, there was not enough sediment in the basins to justify the time and expense.