

### CURRENT METER NOTES

Date: *Oct 25 - 15* 191*1* *11:30* A.M.  
 Stream: *Margaret LaSalle LaSalle ditch from Escalante Creek.*  
 Locality: *Near head of ditch.*  
 Meter: *Jacob's*  
 Meter Constant:  $2.02 \frac{8}{7} \text{ ft}^2 \text{ V}$   
 Total Area: *0.26 ft<sup>2</sup>*  
 Mean Velocity: *1.11 ft/sec.*  
 Discharge: *0.31 ft<sup>3</sup>/sec.*  
 Gage Height:  $\left\{ \begin{array}{l} \text{Beginning} \text{ ---} \\ \text{End} \text{ ---} \\ \text{Mean} \text{ ---} \end{array} \right.$   
 Observer: *S. F. Vance, Jr.*

OBSERVATIONS										COMPUTATIONS				
Distance from Initial Point	L. gage in Feet	Depth of Channel in Feet	T. time in 30 seconds	Revolutions	Revolutions per second	VELOCITY			Mean Depth	Width	Area	DISCHARGE IN CUBIC FEET		
						At Point	Mean in Vertical	Mean in Section						
<i>00</i>	<i>10</i>	<i>.07</i>	<i>30</i>	<i>17</i>	<i>.57</i>									
<i>0.5</i>	<i>.25</i>	<i>10</i>	<i>24</i>	<i>27</i>	<i>.54</i>			<i>.65</i>	<i>10</i>	<i>0.65</i>		<i>0.5</i>		
<i>1.0</i>	<i>.30</i>	<i>11</i>	<i>20</i>	<i>28</i>	<i>.56</i>			<i>1.09</i>	<i>20</i>	<i>21.8</i>		<i>1.5</i>		
<i>1.5</i>	<i>(.35)</i>	<i>11</i>	<i>16</i>	<i>28</i>	<i>.56</i>			<i>1.26</i>	<i>20</i>	<i>25.2</i>		<i>1.7</i>		

*Measured 10 feet out how much water the lessee on the LaSalle place was using in this ditch. No measuring device was installed in this ditch.*

**CURRENT METER NOTES**

Date *6-30-15* *12:30* *P.M.* Meter *Latic*  
 Meter Constant  $2.32 \frac{K}{V}$  *4.6 V*  
 Stream *Margaret Lavette La Salle* *4 ft from Peacettle Creek*  
 Locality *Near head of ditch*  
 Gage Height:  $\left\{ \begin{array}{l} \text{Beginning} \text{ ---} \\ \text{End} \text{ ---} \\ \text{Mean} \text{ ---} \end{array} \right.$  Total Area *6.31 ft<sup>2</sup>*  
 Mean Velocity *1.15 ft/sec.*  
 Discharge *0.72 ft<sup>3</sup>/sec.*  
 Observer *S. E. Vance, Jr.*

OBSERVATIONS										COMPUTATION			
Distance from Initial Point	Depth in feet	Depth of observation in feet	Rate in percent	Revolutions	Revolutions per second	VELOCITY			Mean Depth	Width	Area	DISCHARGE IN SECOND FEET	
						At	Mean in Section	Mean in Section					
<i>00</i>	<i>00</i>				<i>00</i>	<i>00</i>							
<i>0.5</i>	<i>30</i>	<i>21</i>	<i>50</i>	<i>8</i>	<i>11</i>	<i>82</i>	<i>40</i>	<i>51</i>	<i>18</i>	<i>0.5</i>	<i>0.9</i>	<i>.02</i>	
<i>1.0</i>	<i>65</i>	<i>34</i>	<i>50</i>	<i>20</i>	<i>16</i>	<i>99</i>	<i>94</i>	<i>70</i>	<i>50</i>	<i>0.5</i>	<i>2.5</i>	<i>.18</i>	
<i>1.5</i>	<i>55</i>	<i>33</i>	<i>50</i>	<i>51</i>	<i>102</i>	<i>248</i>	<i>244</i>	<i>172</i>	<i>40</i>	<i>0.5</i>	<i>20</i>	<i>.52</i>	
<i>1.75</i>	<i>30</i>	<i>9</i>											
<i>2.0</i>	<i>00</i>				<i>00</i>	<i>00</i>	<i>102</i>	<i>34</i>	<i>0.5</i>	<i>17</i>		<i>.21</i>	

*Measured to find out how much water the lessee on the La Salle place was using in this ditch. No measuring device was installed in this ditch.*

**CURRENT METER NOTES**

Date *6-30-15* *4:20* *P. M.* Meter *Latic*  
 Meter Constant  $2.32 \frac{R}{V}$   
 Stream *North Fork of Pocahontas Creek*  
 Locality *Just below Isabelle Layatta Nation's upper part of diversion.*  
 Gage Height:  $\left\{ \begin{array}{l} \text{Beginning} \\ \text{End} \\ \text{Mean} \end{array} \right.$  Total Area *1.37 ft<sup>2</sup>*  
 Mean Velocity *1.48 ft/sec.*  
 Discharge *2.03 ft<sup>3</sup>/sec.*  
 Observer *S. E. Vance, Jr.*

OBSERVATIONS										COMPUTATIONS		
Discharge from P. M.	Depth in feet	Depth of Observation at feet	Time in seconds	Revolutions	Revolutions per second	VELOCITY			Mean Depth	Width	Area	DISCHARGE IN CUBIC FEET
						At Point	Mean in Vertical	Mean in Section				
0	0.0	0.0	0	0	0							
1	1.5	0.9	10	18	1.8	1.13	1.13	1.01	1.0	1.0	2.0	
2	4.0	2.4	30	57	1.9	1.55	1.55	1.34	3.0	10	3.3	
3	3.5	2.1	30	45	2.0	2.16	2.16	1.85	3.8	10	3.8	
4	2.5	1.5	30	31	1.3	1.28	1.28	1.72	2.0	10	2.2	
5	1.0	0.6	30	11	0.3	0.80	0.80	1.04	1.0	1.0	1.8	

Note - About 0.10 ft<sup>3</sup>/sec. was running in the light Nation ditch  
 so the total flow in N. Fork Pocahontas Creek is 2.13 ft<sup>3</sup>/sec.

### CURRENT METER NOTES

Date *6-10-15* 191*1* *10:00* A.M.

Meter *Laffie*

Meter Constant  $2.32 \frac{R}{T} = 1.66 V$

Stream *South Fork of Focutelle Creek*

Locality *100 yds. above Sylvester Carlisle's Ford of Pincision*

Gage Height. { *Beginning*  
*End*  
*Mean*

Total Area *0.27 ft<sup>2</sup>*

Mean Velocity *1.78 ft./sec.*

Discharge *0.40 ft<sup>3</sup>/sec.*

Observer *S. E. Vance, Jr.*

OBSERVATIONS										COMPUTATIONS				
Distance from Vertical Point	Depth in feet	Depth of Observation in feet	Time in seconds	Revolutions	Revolutions per second	VELOCITY			Mean Depth	Width	Area	DISCHARGE IN SECOND FEET		
						At Point	Mean in Vertical	Mean in Section						
<i>ε</i>	<i>.10</i>	<i>.06</i>	<i>50</i>	<i>38</i>	<i>76</i>	<i>1.82</i>	<i>1.82</i>							
<i>0.5</i>	<i>.25</i>	<i>.15</i>	<i>50</i>	<i>25</i>	<i>36</i>	<i>1.36</i>	<i>1.36</i>	<i>1.59</i>	<i>.18</i>	<i>.65</i>	<i>.11</i>	<i>.14</i>		
<i>10</i>	<i>.50</i>	<i>.30</i>	<i>50</i>	<i>28</i>	<i>36</i>	<i>1.36</i>	<i>1.36</i>	<i>1.36</i>	<i>.22</i>	<i>.68</i>	<i>.11</i>	<i>.15</i>		
<i>15</i>	<i>.75</i>	<i>.45</i>	<i>50</i>	<i>36</i>	<i>72</i>	<i>1.73</i>	<i>1.73</i>	<i>1.55</i>	<i>.15</i>	<i>.65</i>	<i>.11</i>	<i>.11</i>		

### CURRENT METER NOTES

Date *6-13-15* 191*5* *3:45* A.M. Meter *Lullie*  
P.M. Meter Constant  $2 \frac{R}{T} = 26.7$   
 Stream *North Fork of Peconic Creek*  
 Locality *Just below Isabelle Lavette Narva's upper point of diversion.*  
 Gauge Height. } Beginning  
} End  
} Mean  
 Observer *S. L. Vance, Jr.* Total Area *220 ft<sup>2</sup>*  
Mean Velocity *2.12 ft./sec.*  
Discharge *4.66 ft.<sup>3</sup>/sec.*

OBSERVATIONS										COMPUTATIONS				
Distance from Initial Point	Depth in feet	Depth of Observation in feet	Time in seconds	Revolutions	Revolutions per second	VELOCITY			Area	DISCHARGE IN SECOND FEET				
						At Point	Mean in Vertical	Mean in Section						
<i>65</i>	<i>1.00</i>	<i>54</i>	<i>50</i>	<i>20</i>	<i>50</i>	<i>1.02</i>	<i>1.02</i>							
<i>60</i>	<i>50</i>	<i>30</i>	<i>50</i>	<i>50</i>	<i>76</i>	<i>1.52</i>	<i>1.52</i>	<i>1.76</i>	<i>45</i>	<i>65</i>	<i>32</i>			
<i>55</i>	<i>55</i>	<i>33</i>	<i>50</i>	<i>71</i>	<i>78</i>	<i>2.34</i>	<i>2.34</i>	<i>2.08</i>	<i>52</i>	<i>65</i>	<i>54</i>			
<i>50</i>	<i>60</i>	<i>56</i>	<i>50</i>	<i>39</i>	<i>18</i>	<i>1.63</i>	<i>1.63</i>	<i>1.77</i>	<i>50</i>	<i>65</i>	<i>58</i>			
<i>45</i>	<i>65</i>	<i>39</i>	<i>50</i>	<i>24</i>	<i>58</i>	<i>1.41</i>	<i>1.41</i>	<i>1.52</i>	<i>46</i>	<i>65</i>	<i>47</i>			
<i>40</i>	<i>70</i>	<i>38</i>	<i>50</i>	<i>70</i>	<i>140</i>	<i>3.31</i>	<i>3.31</i>	<i>2.36</i>	<i>45</i>	<i>65</i>	<i>80</i>			
<i>38</i>	<i>60</i>	<i>36</i>	<i>50</i>	<i>72</i>	<i>63</i>	<i>1.55</i>	<i>1.55</i>	<i>2.13</i>	<i>45</i>	<i>65</i>	<i>75</i>			
<i>36</i>	<i>80</i>	<i>24</i>	<i>50</i>	<i>67</i>	<i>154</i>	<i>3.18</i>	<i>3.18</i>	<i>2.57</i>	<i>50</i>	<i>65</i>	<i>89</i>			
<i>25</i>	<i>90</i>	<i>27</i>	<i>50</i>	<i>50</i>	<i>100</i>	<i>2.39</i>	<i>2.39</i>	<i>2.78</i>	<i>30</i>	<i>65</i>	<i>58</i>			

\* *A rack just above this point causes the slower velocity. No water was flowing in the Narva ditches.*

**CURRENT METER NOTES**

Date *6-14-15* *1915* *7:00* A.M. *7:00* P.M. Meter *Lullis*  
 Stream *Ely Foxatello Creek* Meter Constant  $252 \frac{9}{7} = 1.06 V$   
 Locality *Below Tony Lavalla Point of Diversion*  
 Gage Height.  $\left\{ \begin{array}{l} \text{Beginning} \\ \text{End} \\ \text{Mean} \end{array} \right.$  Total Area *1.20 ft<sup>2</sup>*  
Mean Velocity *1.82 ft/sec*  
Discharge *2.18 ft<sup>3</sup>/sec.*  
 Observer *S. E. Vance, Jr.*

OBSERVATIONS										COMPUTATIONS				
Distance from Initial Point	Depth in feet	Depth of Observation in feet	Time in seconds	Revolutions	Revolutions per second	VELOCITY			Mean Depth	Width	Area	DISCHARGE IN CUBIC FEET		
						At Point	Mean in Vertical	Mean in Section						
<i>64</i>	<i>50</i>							<i>.60</i>						
<i>59</i>	<i>45</i>	<i>15</i>	<i>50</i>	<i>78</i>	<i>1.56</i>	<i>3.67</i>	<i>3.67</i>	<i>1.83</i>	<i>.32</i>	<i>0.5</i>	<i>.16</i>	<i>.11</i>		
<i>54</i>	<i>40</i>	<i>15</i>	<i>50</i>	<i>53</i>	<i>1.06</i>	<i>2.53</i>	<i>2.53</i>	<i>3.10</i>	<i>.50</i>	<i>0.5</i>	<i>.25</i>	<i>.13</i>		
<i>49</i>	<i>30</i>	<i>24</i>	<i>50</i>	<i>31</i>	<i>.68</i>	<i>1.63</i>	<i>1.63</i>	<i>2.08</i>	<i>.35</i>	<i>0.5</i>	<i>.18</i>	<i>.37</i>		
<i>44</i>	<i>35</i>	<i>21</i>	<i>50</i>	<i>35</i>	<i>.70</i>	<i>1.68</i>	<i>1.68</i>	<i>1.65</i>	<i>.38</i>	<i>0.5</i>	<i>.19</i>	<i>.31</i>		
<i>39</i>	<i>40</i>	<i>31</i>	<i>50</i>	<i>34</i>	<i>.68</i>	<i>1.63</i>	<i>1.63</i>	<i>1.66</i>	<i>.37</i>	<i>0.5</i>	<i>.18</i>	<i>.30</i>		
<i>34</i>	<i>40</i>	<i>24</i>	<i>50</i>	<i>46</i>	<i>.92</i>	<i>2.21</i>	<i>2.21</i>	<i>1.72</i>	<i>.40</i>	<i>0.5</i>	<i>.20</i>	<i>.28</i>		
<i>29</i>	<i>30</i>	<i>18</i>	<i>50</i>	<i>15</i>	<i>.36</i>	<i>.75</i>	<i>.75</i>	<i>1.48</i>	<i>.35</i>	<i>0.5</i>	<i>.17</i>	<i>.25</i>		
<i>24</i>	<i>50</i>							<i>.60</i>				<i>.63</i>		



### CURRENT METER NOTES

Date *6-18-15* 191*5* 9:00 A.M.

Meter *Laffie*

Stream *P. S. Toney Ditch*

Meter Constant  $2.32 \frac{R}{T} = 1.06 = V$

Locality *In Lower End of Flume across Focattella Creek*

Gage Height.  $\left\{ \begin{array}{l} \text{Beginning} \text{ ---} \\ \text{End} \text{ ---} \\ \text{Mean} \text{ ---} \end{array} \right.$

Total Area *0.91 ft<sup>2</sup>*

Mean Velocity *2.51 ft/sec.*

Discharge *1.03 ft<sup>3</sup>*

Observer *S. E. Vance, Jr.*

OBSERVATIONS							COMPUTATIONS				
Distance from local Point	Depth in feet	Depth of observation in feet	Time in seconds	Revolutions	Revolutions per second	VELOCITY			Mean Depth	Wetted Area	DISCHARGE IN CUBIC FEET
						At Point	Mean in Vertical	Mean in Section			
<i>.00</i>	<i>.10</i>	<i>.20</i>	<i>50</i>	<i>55</i>	<i>1.10</i>						
<i>.16</i>	<i>.15</i>	<i>.26</i>	<i>50</i>	<i>50</i>	<i>1.00</i>			<i>2.62</i>	<i>.465</i>	<i>.21</i>	<i>.55</i>
<i>.72</i>	<i>1.00</i>							<i>2.39</i>	<i>.39</i>	<i>.16</i>	<i>.20</i>

*Note: Observations were taken midway between soundings and at .06 depth and the velocity at these points was assumed to be the mean velocity in the sections.*

**CURRENT METER NOTES**

Date *7-2-15* 191*5* 12:30 <sup>PM</sup>  
 Stream *North Fork of Pocotalle Creek*  
 Locality *Just below Isabelle Lavatta Naron's upper point of diversion.*  
 Gage Height { Beginning \_\_\_\_\_ Total Area *1.17 ft<sup>2</sup>*  
                   { End \_\_\_\_\_ Mean Velocity *1.45 ft./sec.*  
                   { Mean \_\_\_\_\_ Discharge *1.70 ft.<sup>3</sup>/sec.*  
 Observer *S. F. Vance, Jr.*

Meter *Lathie*  
 Meter Constant *2.32* <sup>R</sup>  
*1.06 = V*

OBSERVATIONS								COMPUTATIONS				
Distance from Point	Depth in feet	Depth of Observation in feet	Time in seconds	Revolutions	Revolutions per second	VELOCITY			Wet Depth	Width	Area	DISCHARGE IN SECOND FEET
						At Point	Mean in Vertical	Mean in Section				
<i>0</i>	<i>16</i>	<i>16</i>	<i>50</i>	<i>13</i>	<i>26</i>	<i>66</i>	<i>11</i>					
<i>1</i>	<i>26</i>	<i>16</i>	<i>50</i>	<i>7</i>	<i>38</i>	<i>93</i>	<i>74</i>	<i>80</i>	<i>10</i>	<i>13</i>		<i>12</i>
<i>2</i>	<i>30</i>	<i>18</i>	<i>50</i>	<i>34</i>	<i>68</i>	<i>113</i>	<i>113</i>	<i>128</i>	<i>25</i>	<i>16</i>	<i>25</i>	<i>32</i>
<i>3</i>	<i>35</i>	<i>21</i>	<i>50</i>	<i>44</i>	<i>88</i>	<i>211</i>	<i>211</i>	<i>137</i>	<i>37</i>	<i>16</i>	<i>32</i>	<i>60</i>
<i>4</i>	<i>20</i>	<i>1</i>	<i>50</i>	<i>30</i>	<i>56</i>	<i>124</i>	<i>130</i>	<i>174</i>	<i>27</i>	<i>10</i>	<i>27</i>	<i>37</i>
<i>5</i>	<i>12</i>	<i>09</i>	<i>50</i>	<i>16</i>	<i>32</i>	<i>80</i>	<i>80</i>	<i>138</i>	<i>18</i>	<i>10</i>	<i>18</i>	<i>19</i>

Note: At the time of this observation *0.36 ft.<sup>3</sup>/sec.* was flowing in the Naron ditch on the left side of Pocotalle creek, making the total flow of the creek *2.06 ft.<sup>3</sup>/sec.*

### CURRENT METER NOTES

Meter *Lathic*

Date *7-2-15* 191*5* 12:00 noon Meter Constant  $2.32 \frac{R}{V}$

Stream *North Fork of Peconic Creek*

Locality *Above all diversions and below James Cronin's house,*

Gage Height:  $\left\{ \begin{array}{l} \text{Beginning} \\ \text{End} \\ \text{Mean} \end{array} \right.$  \_\_\_\_\_

Total Area *2.88 ft<sup>2</sup>*

Mean Velocity *0.82 ft/sec.*

Discharge *2.35 ft<sup>3</sup>/sec.*

Observer *S. E. Price, Jr.*

OBSERVATIONS										COMPUTATIONS			
Distance from Initial Point	Depth in feet	Depth of Observation in feet	Time in seconds	Revolutions	Revolutions per second	VELOCITY		Mean Depth	Width	Area	DISCHARGE IN SECOND FOOT		
						At Point	Mean in Vertical						
5.5	20	18	50	7	.14	.78	.78						
4.5	25	15	50	27	.54	1.32	1.32	.85	53	10	53		
3.5	30	12	50	16	.32	.80	.80	1.00	72	10	72		
2.5	30	12	50	14	.28	.70	.70	.75	70	10	70		
1.5	50	30	50	15	.30	.75	.75	.72	10	10	10		
0.5	15	09	50	1	.16	.24	.24	.55	33	10	33		

**CURRENT METER NOTES**

Date: 7-2-15 1915 7:30 A.M.  
 Meter Lathie  
 Meter Constant  $2.32 \frac{R}{I} = 1.00$   
 Stream: Margaret Lavatta La Salle ditch from Focattelle Creek N.  
 Locality: Near head of ditch.  
 Gage Height: { Beginning: Total Area 0.78 ft<sup>2</sup>  
 End: Mean Velocity 1.17 ft/sec.  
 Mean: Discharge 0.91 ft<sup>3</sup>/sec.  
 Observer: S. E. Vance, Jr.

OBSERVATIONS										COMPUTATIONS			
Depth from bottom in feet	Depth in feet	Depth of observation in feet	Time in seconds	Revolutions	Revolutions per second	VELOCITY			Mean Depth	Width	Area	DISCHARGE IN SECOND FEET	
						At Point	Mean in Vertical	Mean in Section					
0.0	0.0												
0.5	0.5	18	50	11	22	87	57	89	15	0.87		0.2	
1.0	1.0	36	50	18	36	89	89	73	12	1.23		0.17	
1.5	1.5	36	50	21	102	234	234	1.66	10	1.66		0.50	
1.75	1.75											0.22	
2.00	2.00											0.22	

Measured to find out how much water the lessee on the La Salle place was using in this ditch. No measuring device was installed in this ditch.

### CURRENT METER NOTES

Date *7-2-15* at *11:20* a.m.  
 Station *Margaret Lavatta LaSalle* Ditch from *Pocatello* Creek.  
 Locality *Near head of ditch.*  
 Gage Height:  $\left\{ \begin{array}{l} \text{Beginning} \text{ ---} \\ \text{End} \text{ ---} \\ \text{Mean} \text{ ---} \end{array} \right.$   
 Observer *S. E. Jones, Jr.*  
 Meter *Lattice*  
 Meter Constant  $2.32 \frac{R}{V}$   
 Total Area *0.65 ft<sup>2</sup>*  
 Mean Velocity *1.40 ft/sec.*  
 Discharge *0.91 ft<sup>3</sup>/sec.*

OBSERVATIONS										COMPUTATIONS			
Time of Day	Wind	Temp	Bar	Dir	Wind	Dir	VELOCITY			Mean Depth	Width	Area	DISCHARGE IN SECOND FEET
							At Point	Mean in Vertical	Mean in Section				
<i>00</i>	<i>00</i>						<i>00</i>	<i>00</i>					
<i>05</i>	<i>57</i>	<i>21</i>	<i>30</i>	<i>25</i>	<i>50</i>	<i>122</i>	<i>1.22</i>	<i>1.11</i>	<i>.17</i>	<i>0.5</i>	<i>.09</i>	<i>0.5</i>	
<i>10</i>	<i>50</i>	<i>20</i>	<i>30</i>	<i>25</i>	<i>50</i>	<i>136</i>	<i>1.36</i>	<i>1.29</i>	<i>.42</i>	<i>0.5</i>	<i>.21</i>	<i>.27</i>	
<i>15</i>	<i>51</i>	<i>20</i>	<i>30</i>	<i>26</i>	<i>50</i>	<i>221</i>	<i>2.21</i>	<i>1.79</i>	<i>.50</i>	<i>0.5</i>	<i>.25</i>	<i>.13</i>	
<i>19</i>	<i>48</i>					<i>150</i>	<i>1.50</i>	<i>1.05</i>	<i>.25</i>	<i>0.4</i>	<i>.10</i>	<i>.14</i>	

*Measured to find out how much water the lessee on the LaSalle place was using in this ditch. No measuring device was installed in this ditch.*