



# 2014-2015 Salmon in the Classroom

Alaska Department of Fish and Game  
Sport Fish Aquatic Education Program



# Salmon In the Classroom

Here are some examples to help you get started.

Day 1	Day 2	Day 2
<b>Observations/Comments:</b> Received Eggs! Eggs look Orange! Put eggs in at 12:00 noon <b>Data:</b> Tank Temp. $\frac{6^{\circ} \text{C}}$ Daily TU's $\frac{3}$ ATU $\frac{3}$	<b>Observations/Comments:</b> First Full Day no change <b>Data:</b> Tank Temp. $\frac{5^{\circ} \text{C}}$ Daily TU's $\frac{5}$ ATU $\frac{8}$	<b>Observations/Comments:</b> Turn tank temp down $1^{\circ}$ <b>Data:</b> Tank Temp. $\frac{7^{\circ} \text{C}}$ Daily TU's $\frac{7}$ ATU $\frac{15}$

Day 1:

**Observation/Comments:**

You never know what is going to be important, record any observations or changes.

**Data:**

Tank Temp:

Tank temperature was measured at  $6^{\circ}$  Celsius when eggs were placed into the tank.

Daily TU's (Thermal Units):

A thermal unit is defined as one degree per 24 hour period. Since our eggs were only in the aquarium for approximately half the day, 12 hours it is only going to be half the thermal units.

Accumulative Thermal Units:

This is the summation of all of the thermal Units up to this point. There are no prior days, so the ATU equals the Daily TU's.

Day 2:

**Observation/Comments:**

You never know what is going to be important, record any observations or changes.

**Data:**

Tank Temp:

Tank temperature was measured at  $5^{\circ}$  Celsius.

Daily TU's (Thermal Units):

A thermal unit is defined as one degree per 24 hour period. Since our eggs were in approximately  $5^{\circ}$  Celsius water for 24 hours our thermal units equals 5.

Accumulative Thermal Units:

This is the summation of all of the thermal Units up to this point. Add the ATU from day 1 to the thermal units from day 2 (day 1, 3 ATU + day 2, 5 ATU's = 8)

Day 3:

**Observation/Comments:**

You never know what is going to be important, record any observations or changes.

**Data:**

Tank Temp:

Tank temperature was measured at  $7^{\circ}$  Celsius.

Daily TU's (Thermal Units):

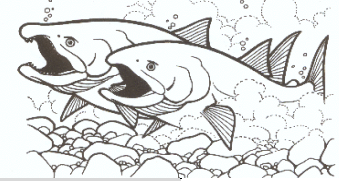

A thermal unit is defined as one degree per 24 hour period. Since our eggs were in approximately  $7^{\circ}$  Celsius water for 24 hours our thermal units equals 7.

Accumulative Thermal Units:


This is the summation of all of the thermal Units up to this point. Add the ATU from day 2 to the thermal units from day 3 (day 2, 8 ATU + day 3, 7 ATU's = 15)



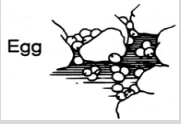

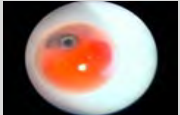
# September, 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
 <p>Salmon making a nest. A salmon nest is called a redd.</p>	1	2	3	4	5	6
			<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>Conversion Formulas:</b>            Celsius (°C) = 5/9 (F - 32)            Fahrenheit (°F) = (5/9 X C) + 32         </div> <div style="border: 1px solid black; padding: 5px;"> <b>Water temperature</b> determines how FAST or SLOW your salmon will develop. Keeping track of temperature will help you determine how the salmon are developing.         </div>		<b>Important things in September:</b> 1)) Get aquarium setup 2) Sign up for Eggtake 3) Get fertilized eggs from ADF&G. See eggtake date in October.  Start recording observations and collecting temperature information	
7	8	9	10	11	12	13
	Need to setup Aquarium Use dechlorinated water  Record water temperature to ensure tank gets cold  Data: Tank Temp (°F) _____ Tank Temp (°C) _____		Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:
						Data: Tank Temp (°F) _____ Tank Temp (°C) _____
14	15	16	17	18	19	20
Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:
Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____
21	22	23	24	25	26	27
Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:
Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____
28	29	30	1-Oct	2-Oct	3-Oct	4-Oct
Observations/Comments:	Observations/Comments:	Observations/Comments:	<b>September Summary</b>			
Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____	Ave Tank Temp _____ _____		Eggs laid by the female salmon	

# October, 2014

Sunday		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-Sep  Egg takes happen this month!	29-Sep	30-Sep Copy information from the end of the previous month  Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	1 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	2 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	3 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	4 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	
5 Observations/Comments: When you get your eggs start Calculating Thermal Units (TU)  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	6 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	7 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	8 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	9 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	10 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	11 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	
12 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	13 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	14 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	15 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	16 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	17 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	18 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	
19 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	20 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	21 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	22 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	23 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	24 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	25 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	
26 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	27 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	28 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	29 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	30 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	31 Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	1-Nov  <b>October Summary</b> Ave Tank Temp _____ Ave. Daily TUs _____ ATU _____	




# November, 2014

Sunday		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday														
26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	1															
<table border="1"> <tr> <td colspan="3">Accumulated Thermal Units (ATUs) required to reach important embryonic developmental stages in coho salmon</td> </tr> <tr> <td>STAGE</td> <td>ATUs in °C</td> <td>ATUs in °F</td> </tr> <tr> <td>To Eyed Stage</td> <td>220</td> <td>396</td> </tr> <tr> <td>To Hatch</td> <td>400-500</td> <td>720-900</td> </tr> <tr> <td>To emergence</td> <td>700-800</td> <td>1260-1800</td> </tr> </table>		Accumulated Thermal Units (ATUs) required to reach important embryonic developmental stages in coho salmon			STAGE	ATUs in °C	ATUs in °F	To Eyed Stage	220	396	To Hatch	400-500	720-900	To emergence	700-800	1260-1800	 <p><b>Egg</b></p> <p>Salmon grow slowly in cold water.</p>			Copy information from the end of the previous month  Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____
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2	3	4	5	6	7	8															
Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:														
Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____														
9	10	11	12	13	14	15															
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16	17	18	19	20	21	22															
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23	24	25	26	27	28	29															
Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:	Observations/Comments:														
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30	<b>November Summary</b> Ave Tank Temp _____ Ave. Daily TU's _____ ATU _____																				
Observations/Comments:																					
Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____																					

# December, 2014



30-Nov Sunday	1 Monday	2 Tuesday	3 Wednesday	4 Thursday	5 Friday	6 Saturday
Copy information from the end of the previous month  Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____
7	8	9	10	11	12	13
Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____
14	15	16	17	18	19	20
Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____
21	22	23	24	25 Christmas Day	26	27
Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____
28	29	30	31	2-Jan December Summary	3-Jan 4-Jan	
Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Ave Tank Temp _____ Ave. Daily TUs _____ ATU _____	<div style="border: 1px solid black; padding: 5px;"> <p><b>Winter break note:</b>              If you think your salmon may hatch over Winter break, then someone should check on them periodically over the vacation. After salmon hatch, water changes become necessary once every week. Remove water from the top of the tank and replace it with COLD dechlorinated water.  <b>Do not disturb the Alevin!</b></p> </div>	

January, 2015



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-Dec  Alevin need clean, cold (dechlorinated) water.	29-Dec 	30-Dec 	31-Dec Copy information from the end of the previous month  Tank Temp (°C) _____ Daily TU's _____ ATU _____	<b>1</b> <b>New Years Day</b> Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	<b>2</b> Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	<b>3</b> Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____
<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Students Return Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>
Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____
<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>
Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	<b>Martin Luther King Jr.</b> Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____
<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments: <i>January Summary</i> Ave. Temp _____ Ave Da. _____  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____





# February, 2015

Sunday		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday																
25-Jan		26-Jan		27-Jan		28-Jan		29-Jan		30-Jan		31-Jan																
<table border="1"> <tr> <td colspan="3">Accumulated Thermal Units (ATUs) required to reach important embryonic developmental stages in coho salmon</td> </tr> <tr> <td>STAGE</td> <td>ATUs in °C</td> <td>ATUs in °F</td> </tr> <tr> <td>To Eyed Stage</td> <td>220</td> <td>396</td> </tr> <tr> <td>To Hatch</td> <td>400-500</td> <td>720-900</td> </tr> <tr> <td>To emergence</td> <td>700-800</td> <td>1260-1800</td> </tr> </table>		Accumulated Thermal Units (ATUs) required to reach important embryonic developmental stages in coho salmon			STAGE	ATUs in °C	ATUs in °F	To Eyed Stage	220	396	To Hatch	400-500	720-900	To emergence	700-800	1260-1800			<p><b>Fry</b></p>  <p>Fry are visual predators. Food for your salmon can be picked up from Fish and Game. Do not overfeed your Fish. Perform weekly water changes replacing no more than 1/2 your water.</p>				 <p>Go ice fishing in February. ADF&amp;G has an ice fishing curriculum online!</p>				<p>Copy information from the end of the previous month</p> <p>Tank Temp (°C) _____            Daily TU's _____            ATU _____</p>	
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STAGE	ATUs in °C	ATUs in °F																										
To Eyed Stage	220	396																										
To Hatch	400-500	720-900																										
To emergence	700-800	1260-1800																										
<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>		<b>5</b>		<b>6</b>		<b>7</b>																
Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:																
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<b>8</b>		<b>9</b>		<b>10</b>		<b>11</b>		<b>12</b>		<b>13</b>		<b>14</b>																
Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:																
Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____																
<b>15</b>		<b>16</b>		<b>17</b>		<b>18</b>		<b>19</b>		<b>20</b>		<b>21</b>																
Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:																
Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		<p><b>Presidents Day</b></p> Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____																
<b>22</b>		<b>23</b>		<b>24</b>		<b>25</b>		<b>26</b>		<b>27</b>		<b>28</b>																
Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:																
Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		<p><b>February Summary</b></p> Ave Tank Temp _____ Ave. Daily TUs _____ Daily: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____																




# March, 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																		
22-Feb 	22-Feb <table border="1"> <tr> <td colspan="2">Accumulated Thermal Units (ATUs) required to reach important embryonic developmental stages in coho salmon</td> </tr> <tr> <td>STAGE</td> <td>ATUs in °C</td> </tr> <tr> <td>To Eyed Stage</td> <td>220</td> </tr> <tr> <td>To Hatch</td> <td>400-500</td> </tr> <tr> <td>To emergence</td> <td>700-800</td> </tr> <tr> <td></td> <td>ATUs in °F</td> </tr> <tr> <td></td> <td>396</td> </tr> <tr> <td></td> <td>720-900</td> </tr> <tr> <td></td> <td>1260-1800</td> </tr> </table>	Accumulated Thermal Units (ATUs) required to reach important embryonic developmental stages in coho salmon		STAGE	ATUs in °C	To Eyed Stage	220	To Hatch	400-500	To emergence	700-800		ATUs in °F		396		720-900		1260-1800					22-Feb Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____
Accumulated Thermal Units (ATUs) required to reach important embryonic developmental stages in coho salmon																								
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	ATUs in °F																							
	396																							
	720-900																							
	1260-1800																							
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>																		
Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Grades Released Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____																		
<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>																		
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<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>																		
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<b>29</b>	<b>30</b>	<b>31</b>	1-Apr <b>March Summary</b>  Ave Tank Temp _____ Ave. Daily TUs _____ ATU _____	2-Apr	3-Apr  Coho Fry	4-Apr																		

April, 2015

Sunday		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
29-Mar		30-Mar		31-Mar		1		2		3		4	
		Copy information from the end of the previous month  Tank Temp (°F) _____ Daily TU's _____ ATU _____		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:	
				Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	
5		6		7		8		9		10		11	
Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:	
Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	
12		13		14		15		16		17		18	
Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:	
Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	
19		20		21		22		23		24		25	
Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:	
Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	
26		27		28		29		30		1-May		2-May	
Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		Observations/Comments:		<b>May Summary</b>  Ave Tank Temp _____ Ave. Daily TUs _____ ATU _____			
Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____		Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____					

May, 2015

Sunday		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
27-Apr	28-Apr	29-Apr	30-Apr	29-Apr				29-Apr	1	2			
 You must release salmon in an approved location. Contact Fish and Game to find out which lakes are approved for salmon release in your area.								Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____			
3	4	5	6	7	8	9							
Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____							
10	11	12	13	14	15	16							
Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____							
17	18	19	20	21	22	23							
Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____	Observations/Comments:  <b>Send ADF&amp;G Release numbers</b>  Data: Tank Temp (°F) _____ Tank Temp (°C) _____ Daily TU's _____ ATU _____			Salmon ready for release							
25	26	27	28	29	30	31							
		<b>GO Fishing!</b>	<b>Go Fishing Again!</b>		<b>Go Fishing!</b>	Send Jay pictures of the catch.							<b>May Summary</b>  Ave Tank Temp _____ Ave. Daily TUs _____ ATU _____