

Karluk River Sockeye Salmon Ages and Life Cycles

Age 2-3

Age	Year	Life cycle ¹												FW-SW ² Scale Annuli
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2₁ = 0.1	0	Eggs in gravel o o o o o o o o o o o o											0	
	1	o o o o o o o o o o Fry to lake - Smolts to sea s s s s s s s s s s s s s s s s s s												1
	2	s s s s s s s s s s s s s s s s Adults return to spawn & die												
3₁ = 0.2	0	Eggs in gravel o o o o o o o o o o o o											0	
	1	o o o o o o o o o o Fry to lake - Smolts to sea s s s s s s s s s s s s s s s s s s												2
	2	s s												
	3	s s s s s s s s s s s s s s s s Adults return to spawn & die												
3₂ = 1.1	0	Eggs in gravel o o o o o o o o o o o o												
	1	o o o o o o o o o o Fry to lake f												1
	2	f Smolts to sea s s s s s s s s s s s s s s s s s s												1
	3	s s s s s s s s s s s s s s s s Adults return to spawn & die												
3₃ = 2.0	0	Eggs in gravel o o o o o o o o o o o o												
	1	o o o o o o o o o o Fry to lake f												2
	2	f Smolts to sea - Adults return to spawn & die												
	3	f f												0

¹o = Eggs and aelvins incubating in substrate; f = juvenile growth in freshwater; s = growth in the ocean

²FW = Freshwater; SW = Saltwater

Age 4

Age	Year	Life cycle ¹												FW-SW ² Scale Annuli													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
4₁ = 0.3	0														Eggs in gravel	o	o	o	o	o	o	o	o	o	o	0	
	1	o	o	o	o	o	o	o	o	o	o	o	o	o	Fry to lake - Smolts to sea	s	s	s	s	s	s	s	s	s	s	}	3
	2	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s			
	3	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s			
	4	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	Adults return to spawn & die		
4₂ = 1.2	0													Eggs in gravel	o	o	o	o	o	o	o	o	o	o	}	2	
	1	o	o	o	o	o	o	o	o	o	o	o	o	Fry to lake	f	f	f	f	f	f	f	f	f	f			
	2	f	f	f	f	f	f	f	f	f	f	f	f	Smolts to sea	s	s	s	s	s	s	s	s	s	s			
	3	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s				
	4	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	Adults return to spawn & die			
4₃ = 2.1	0													Eggs in gravel	o	o	o	o	o	o	o	o	o	o	}	1	
	1	o	o	o	o	o	o	o	o	o	o	o	Fry to lake	f	f	f	f	f	f	f	f	f	f				
	2	f	f	f	f	f	f	f	f	f	f	f	Smolts to sea	s	s	s	s	s	s	s	s	s	s				
	3	f	f	f	f	f	f	f	f	f	f	f	s	s	s	s	s	s	s	s	s	s					
	4	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	Adults return to spawn & die				

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Age 4-5

		Life cycle ¹												FW-SW ²			
Age	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Scale Annuli			
4₄ = 3.0	0	Eggs in gravel o o o o o o o o o o o o] 3				
	1	o o o o o o o o o o				Fry to lake		f f									
	2	f f															
	3	f f															
	4	f f f f f f f f f f f f f f f Smolts to sea - Adults return to spawn & die															
5₁ = 0.4	0	Eggs in gravel o o o o o o o o o o o o] 4				
	1	o o o o o o o o o o				Fry to lake - Smolts to sea		s s									
	2	s s															
	3	s s															
	4	s s															
	5	s s s s s s s s s s s s s s s Adults return to spawn & die															
5₂ = 1.3	0	Eggs in gravel o o o o o o o o o o o o] 3				
	1	o o o o o o o o o o				Fry to lake		f f									
	2	f f f f f f f f f f f f f f f f				Smolts to sea		s s									
	3	s s															
	4	s s															
	5	s s s s s s s s s s s s s s s Adults return to spawn & die															

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Age 5

		Life cycle ¹												FW-SW ²
Age	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Scale Annuli
5₃ = 2.2	0													
	1													2
	2													
	3													2
	4													
	5													
5₄ = 3.1	0													
	1													3
	2													
	3													1
	4													
	5													
5₅ = 4.0	0													
	1													4
	2													
	3													0
	4													
	5													

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Age 6

Age	Year	Life cycle ¹												FW-SW ²											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Scale Annuli											
6₂ = 1.4	0											Eggs in gravel		o o o o o o o o o o	}	1									
	1	o o o o o o o o o o				Fry to lake		f f																	
	2	f f f f f f f f f f f f f f										Smolts to sea		s s s s s s s s s s s s s s s s s s s s											
	3	s s																							
	4	s s																							
	5	s s																							
	6	s s s s s s s s s s s s										Adults return to spawn & die													
6₃ = 2.3	0											Eggs in gravel		o o o o o o o o o o	}	2									
	1	o o o o o o o o o o				Fry to lake		f f																	
	2	f f f f f f f f f f f f f f										Smolts to sea		s s s s s s s s s s s s s s s s s s s s											
	3	f f																							
	4	s s																							
	5	s s																							
	6	s s s s s s s s s s s s										Adults return to spawn & die													
6₄ = 3.2	0											Eggs in gravel		o o o o o o o o o o	}	3									
	1	o o o o o o o o o o				Fry to lake		f f																	
	2	f f f f f f f f f f f f f f										Smolts to sea		s s s s s s s s s s s s s s s s s s s s											
	3	f f																							
	4	f f f f f f f f f f f f f f										Smolts to sea		s s s s s s s s s s s s s s s s s s s s											
	5	s s																							
	6	s s s s s s s s s s s s										Adults return to spawn & die													

¹o = Eggs and aelvins incubating in substrate; f = juvenile growth in freshwater; s = growth in the ocean

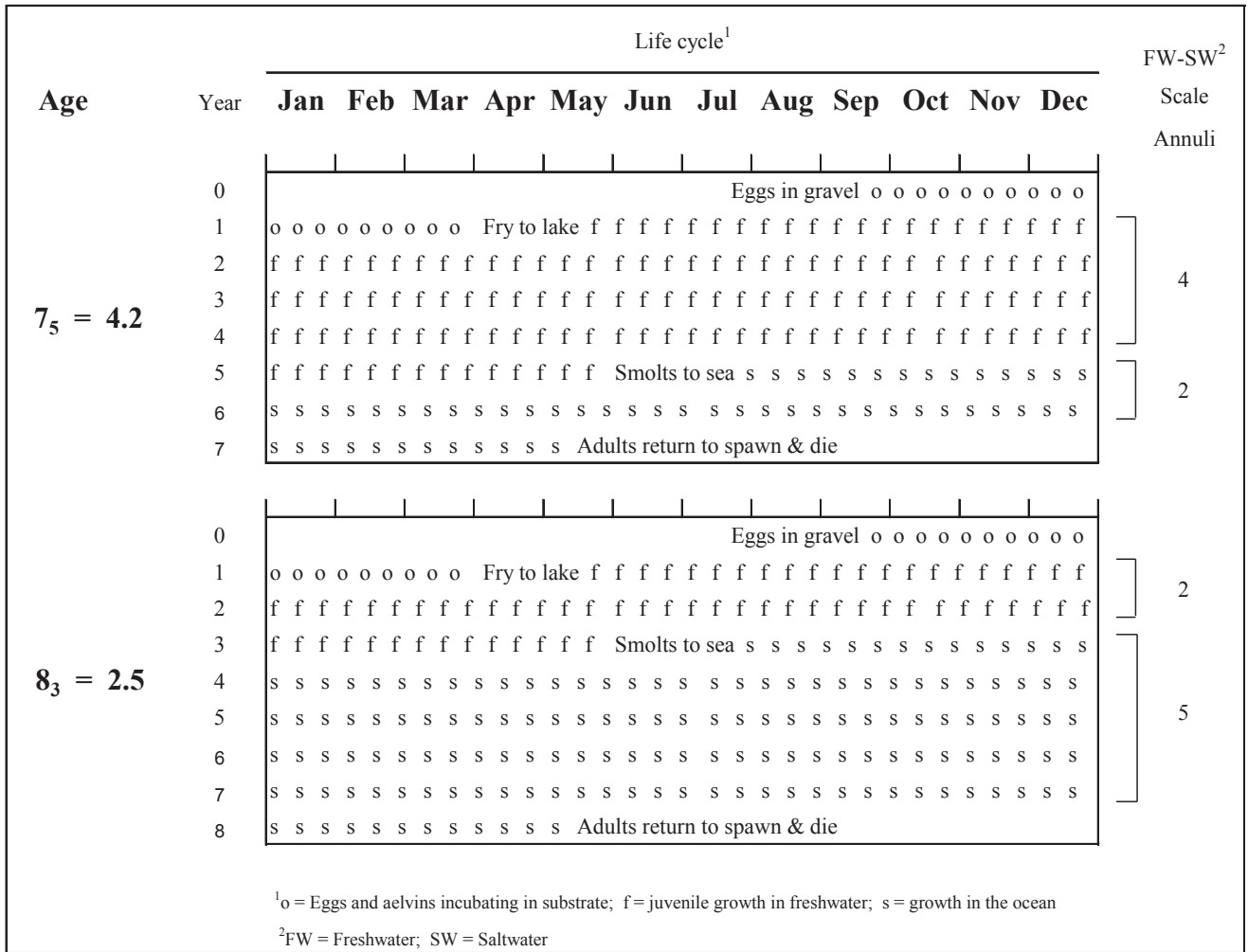
²FW = Freshwater; SW = Saltwater

Age 6-7

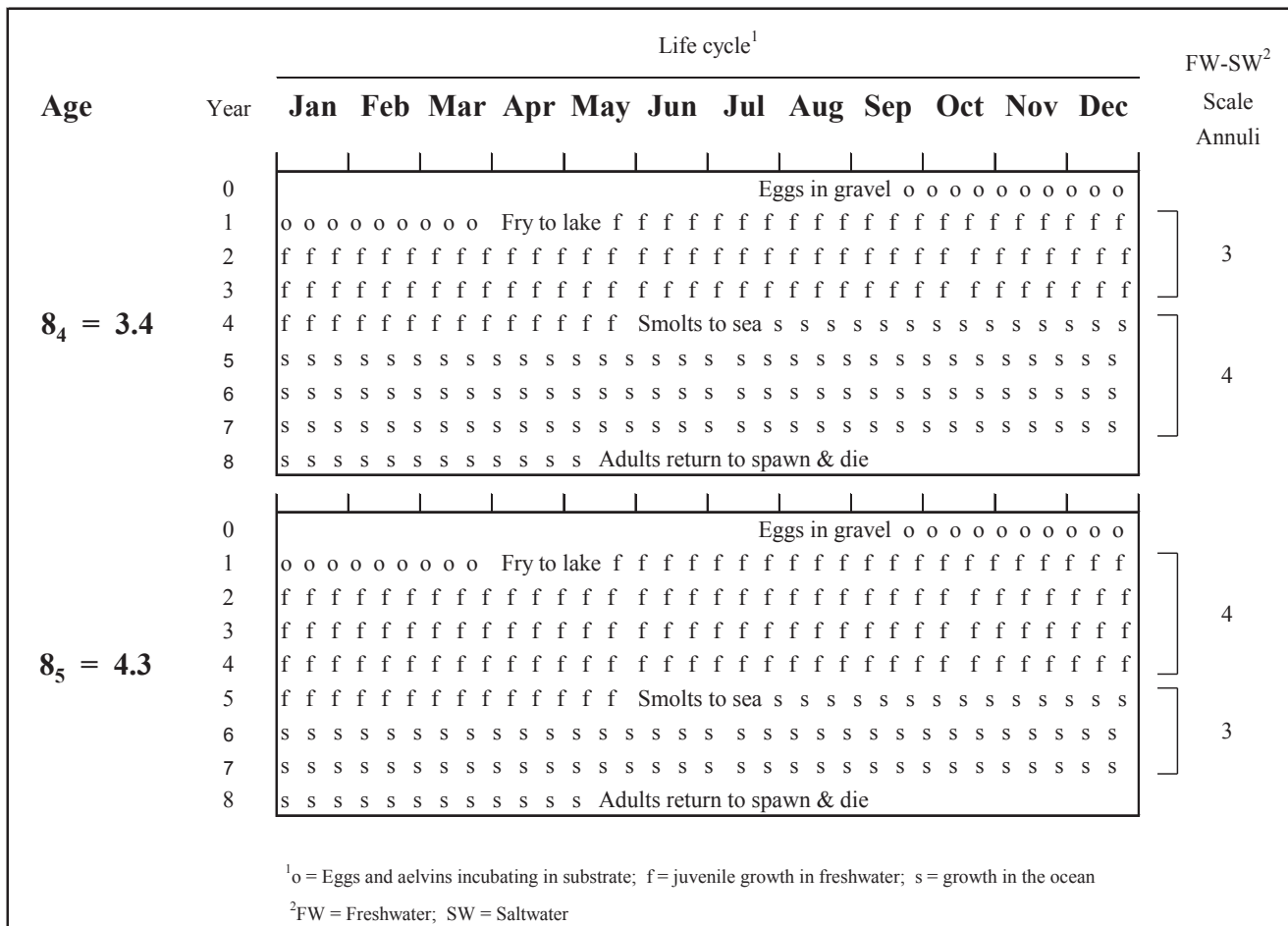
		Life cycle ¹												FW-SW ²													
Age	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Scale	Annuli												
6₅ = 4.1	0																										
	1	o	o	o	o	o	o	o	o	o	o	o	o														
	2	f	f	f	f	f	f	f	f	f	f	f	f														
	3	f	f	f	f	f	f	f	f	f	f	f	f														
	4	f	f	f	f	f	f	f	f	f	f	f	f														
	5	f	f	f	f	f	f	f	f	f	f	f	f	s	s	s	s	s	s	s	s	s	s	s	s		
6	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s				
7₃ = 2.4	0																										
	1	o	o	o	o	o	o	o	o	o	o	o	o														
	2	f	f	f	f	f	f	f	f	f	f	f	f														
	3	f	f	f	f	f	f	f	f	f	f	f	f														
	4	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s		
	5	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s			
	6	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s			
7	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s				
7₄ = 3.3	0																										
	1	o	o	o	o	o	o	o	o	o	o	o	o														
	2	f	f	f	f	f	f	f	f	f	f	f	f														
	3	f	f	f	f	f	f	f	f	f	f	f	f														
	4	f	f	f	f	f	f	f	f	f	f	f	f														
	5	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s			
	6	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s			
7	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s				

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Age 7-8



Age 8



Age 9

