

Supplementary Table 2. Average (mean  $\pm$  SD) and 7-day average (mean  $\pm$  SD) of water temperatures at starts and ends of alewife (AW) and blueback herring (BBH) runs, and the overall average temperature (mean  $\pm$  SD) for each run, in the Choptank River, Deer Creek, Marshyhope Creek, and Patapsco River.

System	Year	Species	Start of run		End of run		Overall
			Avg. temp. (°C)	7-day avg. temp. (°C)	Avg. temp. (°C)	7-day avg. temp. (°C)	Avg. temp. (°C)
Choptank River	2014	AW	8.3 $\pm$ 1.4	6.4 $\pm$ 1.8	13.9 $\pm$ 1.0	14.2 $\pm$ 1.4	11.9 $\pm$ 3.5
		BBH	18.6 $\pm$ 0.8	15.2 $\pm$ 2.5	19.2 $\pm$ 0.8	19.1 $\pm$ 1.3	15.8 $\pm$ 2.7
	2015	AW	7.5 $\pm$ 1.2	7.5 $\pm$ 1.6	16.6 $\pm$ 0.6	17.0 $\pm$ 1.6	13.6 $\pm$ 3.0
		BBH	14.5 $\pm$ 1.4	13.4 $\pm$ 2.0	21.6 $\pm$ 0.8	21.2 $\pm$ 0.9	16.2 $\pm$ 2.8
	2016	AW	9.4 $\pm$ 1.0	8.5 $\pm$ 1.9	13.4 $\pm$ 1.0	11.7 $\pm$ 1.9	11.6 $\pm$ 2.9
		BBH	16.9 $\pm$ 1.1	13.9 $\pm$ 1.6	14.3 $\pm$ 0.7	15.1 $\pm$ 1.1	14.3 $\pm$ 2.3
2017	AW	9.3 $\pm$ 0.5	7.3 $\pm$ 2.4	18.5 $\pm$ 0.6	17.5 $\pm$ 1.5	11.6 $\pm$ 4.4	
	BBH	15.9 $\pm$ 0.8	13.9 $\pm$ 2.4	22.3 $\pm$ 0.8	18.7 $\pm$ 3.5	16.9 $\pm$ 2.9	
Deer Creek	2015	AW	15.7 $\pm$ 1.2	13.2 $\pm$ 2.0	14.5 $\pm$ 1.6	14.0 $\pm$ 1.9	14.2 $\pm$ 2.4
Marshyhope Creek	2013	AW	8.2 $\pm$ 0.6	6.8 $\pm$ 1.3	17.9 $\pm$ 1.0	17.9 $\pm$ 1.9	10.7 $\pm$ 3.1
		BBH	17.4 $\pm$ 0.8	17.1 $\pm$ 3.2	14.0 $\pm$ 0.3	14.6 $\pm$ 0.8	14.1 $\pm$ 2.3
	2014	AW	17.2 $\pm$ 1.2	16.3 $\pm$ 1.6	15.9 $\pm$ 1.4	14.9 $\pm$ 1.5	15.0 $\pm$ 2.6
		BBH	11.2 $\pm$ 0.8	15.9 $\pm$ 3.1	21.4 $\pm$ 0.7	18.6 $\pm$ 2.0	16.0 $\pm$ 2.6
Patapsco River	2016	AW	11.9 $\pm$ 1.2	11.0 $\pm$ 1.9	14.4 $\pm$ 0.6	14.2 $\pm$ 0.9	13.5 $\pm$ 2.7
		BBH	13.0 $\pm$ 0.2	15.1 $\pm$ 2.4	17.6 $\pm$ 1.9	15.7 $\pm$ 1.6	14.9 $\pm$ 1.4
	2017	AW	14.1 $\pm$ 1.3	10.6 $\pm$ 2.5	16.7 $\pm$ 1.8	15.9 $\pm$ 1.6	14.0 $\pm$ 2.9
		BBH	17.1 $\pm$ 0.7		19.4 $\pm$ 2.2	15.6 $\pm$ 2.7	17.1 $\pm$ 3.0
	2018	AW		12.0 $\pm$ 4.0	15.4 $\pm$ 1.8	14.3 $\pm$ 1.5	13.0 $\pm$ 2.5
		BBH	13.5 $\pm$ 0.4	12.7 $\pm$ 2.0	19.7 $\pm$ 1.0	19.8 $\pm$ 1.5	17.8 $\pm$ 3.2
	2019	AW	10.6 $\pm$ 1.3		12.7 $\pm$ 0.9	14.0 $\pm$ 1.1	12.0 $\pm$ 2.5
		BBH	14.5 $\pm$ 0.9	13.8 $\pm$ 1.2	19.1 $\pm$ 0.9	18.9 $\pm$ 0.9	16.3 $\pm$ 1.9