

RECAP: Proposed zooplankton productivity suitability and export potential criteria

Zooplankton productivity			
Parameter	Criteria	Value	Source
Velocity (water age)	>0.1 m/s (0.33 ft/s)	0	Sommer et al. 2004 (some support for ~0.4 m/s); Opperman 2006; used model to refine
	0 - 0.1 m/s (0.33 ft/s)	1	
Duration (water age)	1-9 days	0.66	Baranyi et al. 2002; Opperman 2008 [synthesis]; Groscholz & Gallo 2006; Keckeis et al 2003
	>10 days	1	
Cover type	marsh/managed wetland/rice	1	Caitlin et al 2016; Gorski et al 2013; Corline et al. 2021
	grassland/other ag/shrub/forest	0.66	
Depth	Wetted (depth >0)	1	
	Dry	0	

Export potential	
Criteria	Value
if berm overtopping directly connected to downstream	[ac-ft * productivity suitability] Volume of water per cell exceeding velocity threshold on first Berm Overtopping day * productivity suitability one day prior of those cells
if connected through outlet weir with downstream connection	[ac-ft * productivity suitability] Daily export volume through outlet structures or total field volume on prior day, whichever is lower * area weighted productivity suitability one day prior
no downstream connection	0
unmanaged areas	[ac-ft * productivity suitability] Daily suitability-weighted volume of cell on previous day when velocity threshold is exceeded