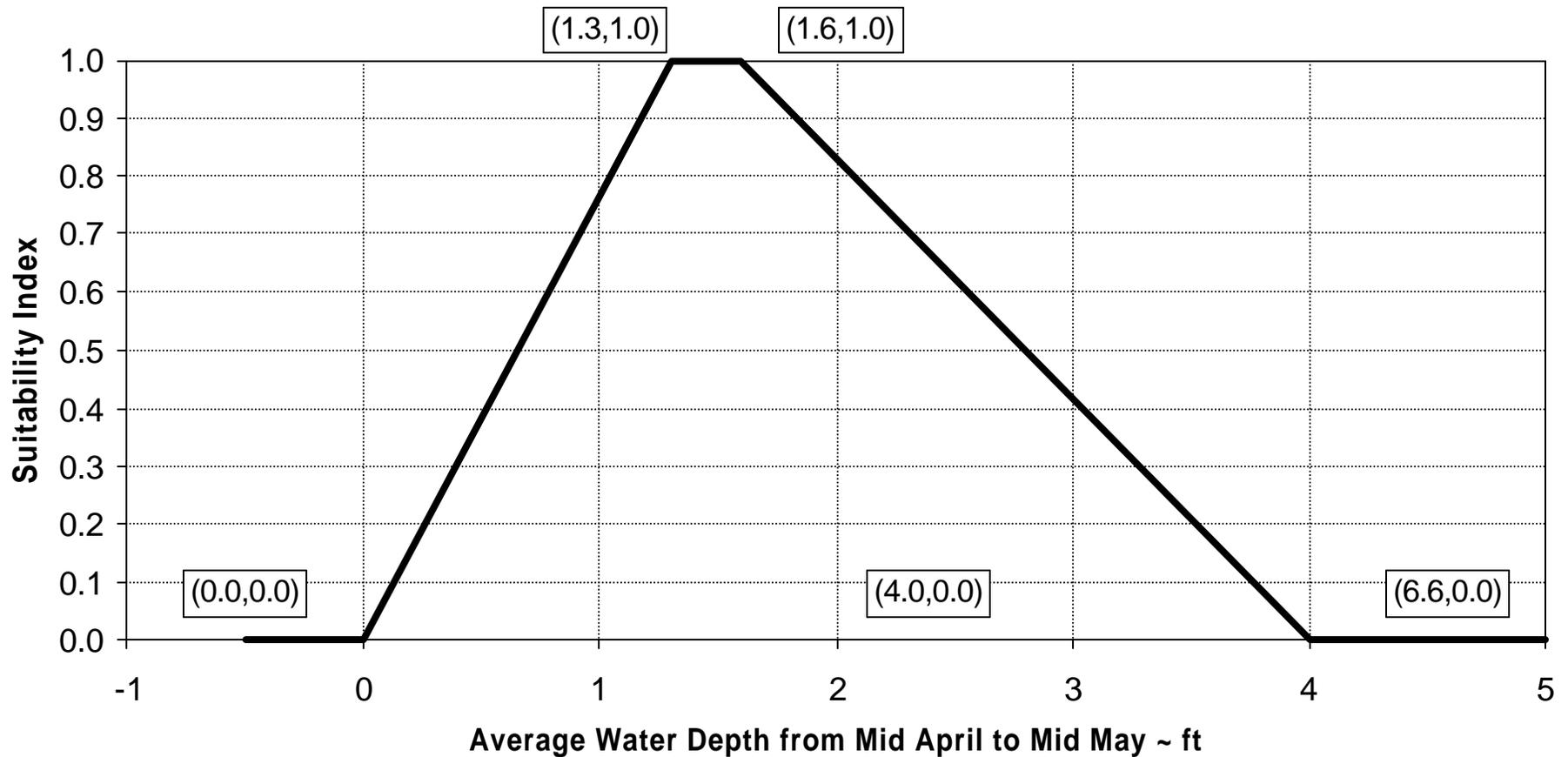


# Suitability Indices for Alligators

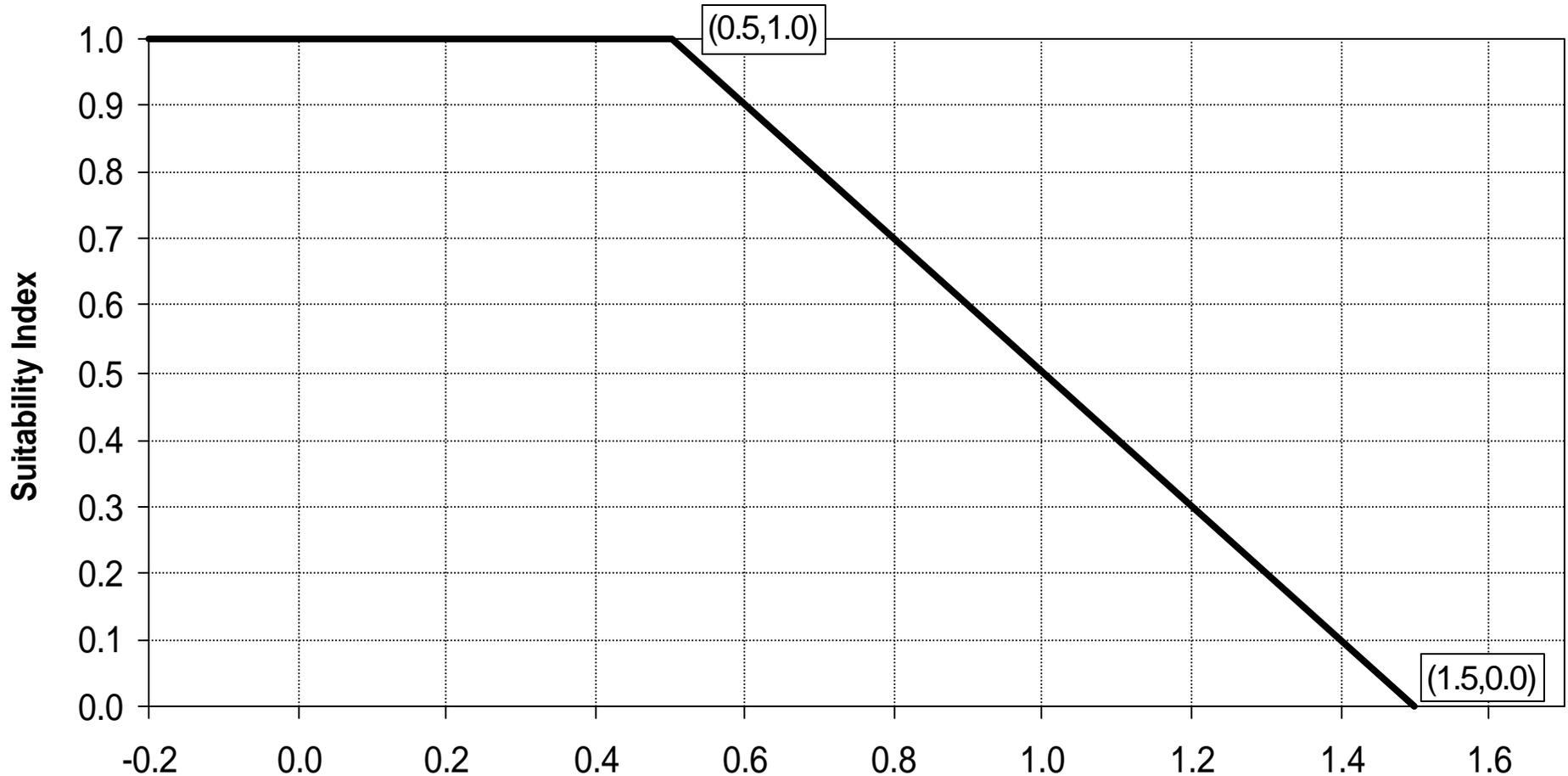
- For Nest Construction ( $SI_{\text{nest constr}}$ )
- To not Flood Nests ( $SI_{\text{nest flood}}$ )
- Suitability for breeding ( $SI_{\text{breed}}$ )
- Survival and Condition ( $SI_{\text{surv+cond}}$ )
- Weighted Mean ( $SI_{\text{Alligator}}$ )

$$SI_{\text{Alligator}} = [3 * (SI_{\text{nest constr}}) + 2 (SI_{\text{nest flood}}) + 3 (SI_{\text{breed}}) + (SI_{\text{surv+cond}})]/9$$

## Alligator Nest Construction (Applies only to Ridge and Slough Landscape)



## Alligator Nest Flooding (Proportion of Alligator Nest Not Flooded) (Applies to all landscapes except central part Loxahatchee NWR)

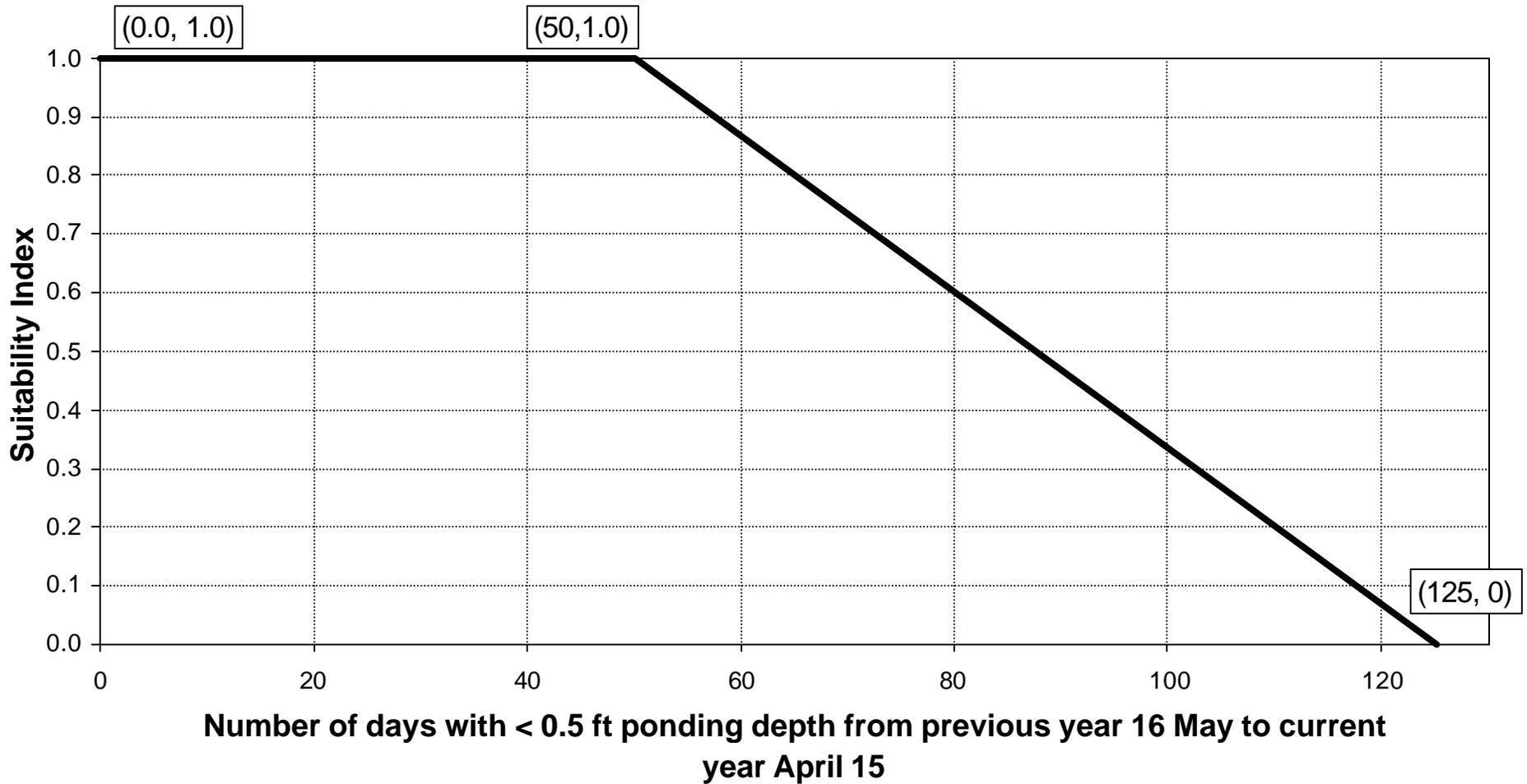


**Max Water Depth (1 July thru 31 August ) above 15 June to 1 July ave. depth ~ ft**

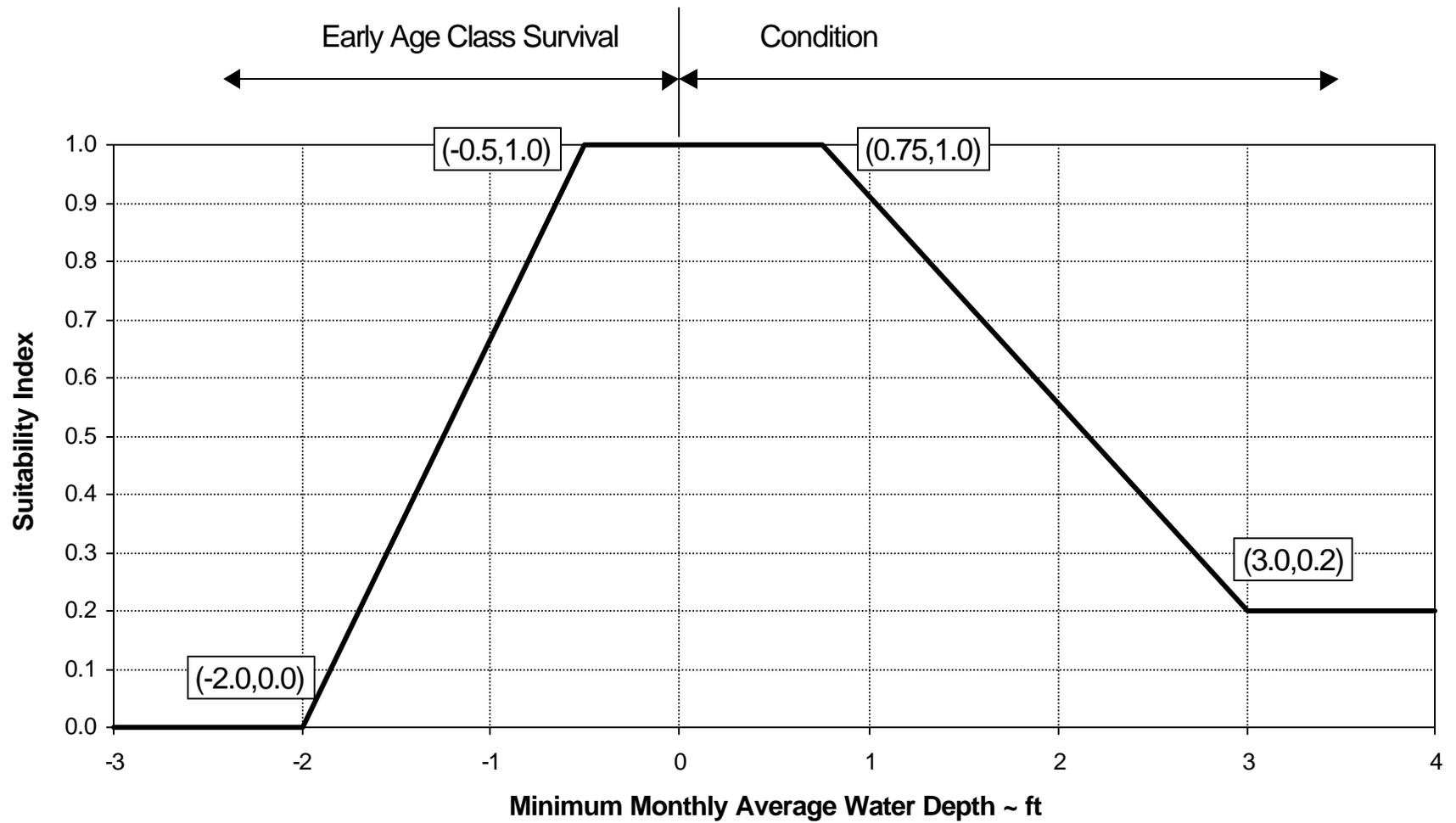
Note: If 15 June to 1 July water level is below ground then index uses maximum (1 July through 31 August) water depth above ground surface

Modified 3/13/01

## Alligator Suitability for Breeding



# Alligator Survival and Condition



$$\text{Suitability Index} = (\text{Above Index}) * (\text{years since last drydown to } < 0.3 \text{ ft}) / 3$$

# Indicator Regions and SFWMM grid cells Applicable for Alligator Suitability

