

Crayfish SESI Core

Unsuitable FGAP habitat types:
 mangrove mixed woodland swamp agricultural
 pine salt marsh palmetto open water urban
 Suitable FGAP habitat types:
 all others

hydroperiod factor:
 0 if hydroperiod < 60 days
 1 otherwise

Get next day

for (x,y) in study area
 if(water > 0):
 increment
 hydroperiod count

habitat factor:
 0 if 500-m pixel (x,y) contains:
 > 1% urban types
 > 15% agricultural types
 > 60% unsuitable types (combined)
 otherwise: HSI*MF

where:
 HSI = % of 30-m pixels of
 suitable habitat in 500-m pixel;
 for P.alleni:
 if Muhlenbergia > 60%, MF=1
 otherwise: MF = 0.85
 for P.fallax:
 if Muhlenbergia > 60%, MF=0.85
 otherwise: MF = 1

yes

More days to
 process in this
 year
 ?

drydown factor:

no

for (x,y) in study area
 IndexMap(x,y) =
 hydroperiod * habitat * drydown
 factor * factor * factor

Dry event history			P. alleni	P. fallax
Yr	Yr-1	Yr-2	factor	factor
1	1	1	1.0	0.2
1	1	0	0.8	0.4
1	0	1	0.4	0.6
1	0	0	0.8	0.6
0	1	1	0.6	0.4
0	1	0	0.6	0.8
0	0	1	0.4	0.6
0	0	0	0.2	1.0

where drying event = 1
 if hydroperiod <= 11 mo.

