NatureServe Conservation Status Assessments: Rank Calculator

Updating Illinois SGCN sRanks - Animals

*To find the species of interest, use the Ctrl + F, then type the common or scientific name

NatureServe Conservation Status Ranks

SX Presumed Extirpated

Species believed to be extirpated from the state. Not located despite intensive searches of historical sites and other appropriate habitat. No likelihood of rediscovery.

SH Possibly Extirpated

Species occurred historically in the state, and there is some possibility that it may be rediscovered.

S1 Critically Imperiled

Critically imperiled in the state because of extreme rarity (often <=5 occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to state extirpation.

S2 Imperiled

Imperiled in the state because of rarity due to very restricted range, very few populations (<=20), steep declines, or other factors making it vulnerable to extirpation from the state.

S3 Vulnerable

Vulnerable in the state due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.

S4 Apparently Secure

Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5 Secure

Common, widespread, and abundant in the nation or state/province.

SU Unrankable

Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

S#S# Range Rank

A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community.

S#? Uncertainty

Factor Score Ranges

EOR Values

ZA 0-5 EORs
A 1-5 EORs
B 5-20 EORs
C 21-80 EORs
D 81-300 EORs
E >300 EORs

EOR Range Values

AB	1-20 EORs
AC	1-80 EORs
AD	1-300 EORs
ВС	6-80 EORs
BD	6-300 EORs
BE	6 to >300 EORs
CD	21-300 EORs
CE	21 to >300 EORs
DE	81 to >300 EORs

Range Extent Values

ZA	Zero to <100 km2
Α	<100 km2
В	100-250 km2
С	250-1,000 km2
D	1,000-5,000 km2
E	5,000-20,000 km2
F	20,000-200,000 km2
G	200,000-2,500,00 km2

Range Extent Uncertainty Values

AB	<100-250 km2	CD	250-5000 km2
AC	<100-1000 km2	CE	250-20,000 km2
AD	<100-5000 km2	CF	250-200,000 km2
AE		CG	250-2,500,000 km2
	<100-20,000 km2	CH	250 to >2,500,00 km2
AF	<100-200,000 km2	DE	1000-20,000 km2
AG	<100-2,500,000 km2	DF	1000-200,000 km2
BC	100-250 km2	DG	1000-2,500,000 km2
BD	100-1000 km2	DH	1000 to >2,500,00 km2
BE	100-5000 km2	EF	5000-200,000 km2
BF	100-20,000 km2	EG	5000-2,500,000 km2
BG	100-200,000 km2	EH	5000 to >2,500,00 km2
ВН	100-2,500,000 km2		

Factor Score Ranges

Threat Impact Values

A Very High
B High
C Medium
D Low
U Unknown

Threat Impact Uncertainty Ranges

AB Very High-High
AC Very High-Medium
BC High-Medium
BD High-Low
CD Medium-Low

Short-Term Trend Values

AD Decline of >50% Decline of 30-50% G Relatively Stable <=10% Increase of >25% Decline of >90% Decline of 80 - 90% Decline of 70 - 80% Decline of 50 - 70% D Decline of 30 - 50% Decline of 10 - 30% G Relatively Stable (<=10% change) Н Increase of 10 - 25% Increase of >25% Unknown U

Short-Term Trend Range Values

AB Decline of >80%

AC Decline of >70%

AD Decline of >50%

AE Decline of >30%

AF Decline of >10%

AG Decline of >90% to Relatively Stable

AH Decline of >90% to Increase of <25%

Factor Score Ranges

Linear Species (Mussels and Fish)

Non-Linear Species

Area Occupancy Values		Area Occupancy Range Values		Area Occ	Area Occupancy Values		Area Occupancy Range Values	
ZA	Zero to 4 1-km2 grid cells	AB	1-10 1-km2 grid cells	ZA	Zero to 1 4-km2 grid cells	AB	1-2 4-km2 grid cells	
Α	1-4 1-km2 grid cells	AC	1-20 1-km2 grid cells	Α	1 4-km2 grid cells	AC	1-5 4-km2 grid cells	
В	5-10 1-km2 grid cells	AD	1-100 1-km2 grid cells	В	2 4-km2 grid cells	AD	1-25 4-km2 grid cells	
С	11-20 1-km2 grid cells	AE	1-500 1-km2 grid cells	С	3-5 4-km2 grid cells	AE	1-125 4-km2 grid cells	
D	21-100 1-km2 grid cells	AF	1-2,000 1-km2 grid cells	D	6-25 4-km2 grid cells	AF	1-500 4-km2 grid cells	
E	101-500 1-km2 grid cells	AG	1-10,000 1-km2 grid cells	E	26-125 4-km2 grid cells	AG	1-2,500 4-km2 grid cells	
F	501-2,000 1-km2 grid cells	AH	1-50,000 1-km2 grid cells	F	126-500 4-km2 grid cells	AH	1-12,500 4-km2 grid cells	
G	2,001-10,000 1-km2 grid cells	ВС	5-20 1-km2 grid cells	G	501-2,500 4-km2 grid cells	ВС	2-5 4-km2 grid cells	
		BD	5-100 1-km2 grid cells	Н	2,501-12,500 4-km2 grid cells	BD	2-25 4-km2 grid cells	
		BE	5-500 1-km2 grid cells	ı	>12,500 4-km2 grid cells	BE	2-125 4-km2 grid cells	
		BF	5-2,000 1-km2 grid cells			BF	2-500 4-km2 grid cells	
		BG	5-10,000 1-km2 grid cells			BG	2-2,500 4-km2 grid cells	
		ВН	5-50,000 1-km2 grid cells			ВН	2-12,500 4-km2 grid cells	
		BI	5 to >50,000 1-km2 grid cells			BI	2 to >12,500 4-km2 grid cells	
		CD	11-100 1-km2 grid cells			CD	3-25 4-km2 grid cells	
		CE	11-500 1-km2 grid cells			CE	4-125 4-km2 grid cells	
		CF	11-2,000 1-km2 grid cells			CF	4-500 4-km2 grid cells	
		CG	11-10,000 1-km2 grid cells			CG	4-2,500 4-km2 grid cells	
		CH	11-50,000 1-km2 grid cells			CH	4-12,500 4-km2 grid cells	
		CI	11 to >50,000 1-km2 grid cells			CI	4 to >12,500 4-km2 grid cells	
		DE	21-500 1-km2 grid cells			DE	6-125 4-km2 grid cells	
		DF	21-2,000 1-km2 grid cells			DF	6-500 4-km2 grid cells	
		DG	21-10,000 1-km2 grid cells			DG	6-2,500 4-km2 grid cells	
		DH	21-50,000 1-km2 grid cells			DH	6-12,500 4-km2 grid cells	
		DI	21 to >50,000 1-km2 grid cells			DI	6 to >12,500 4-km2 grid cells	
						EF	26-500 4-km2 grid cells	
						EG	26-2,500 4-km2 grid cells	
						EH	26-12,500 4-km2 grid cells	
						EI	26 to >12,500 4-km2 grid cells	

Elktoe (*Alasmidonta marginata*)

Calculated Rank: **S2S3**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

10 threats/stressors identified in IWAP 2015: Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Hosts, Invasive/Exotics, Genetics, Dispersal, Recruitment, Mortality

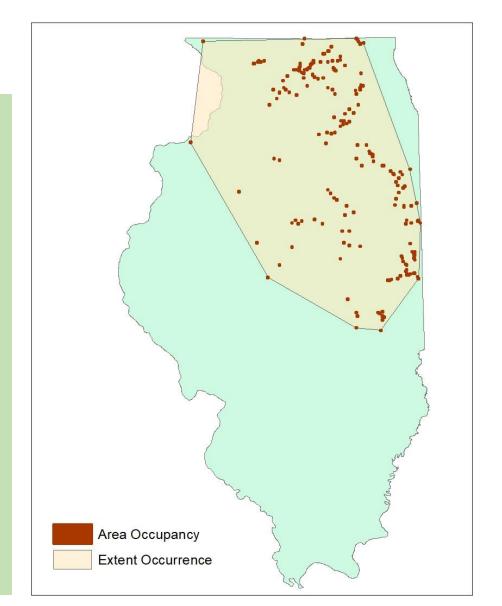
AC (Medium-Very High (>4))

Rarity:

Range Extent: 60,381 to
60,404 km2 range extent per
minimum convex polygon
F (20,000-200,000 km2)

Area of Occupancy: 201 to 212 1-km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: 102 to 141 EORs observed 2008 to 2017 D (81-300 EORs)



Slippershell (Alasmidonta viridis)

Calculated Rank: **S2S3**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

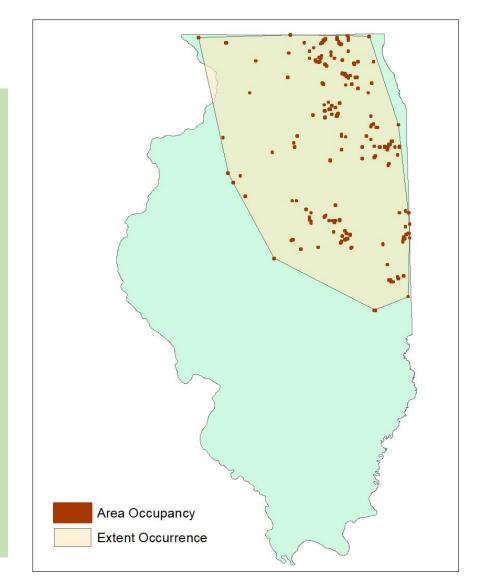
7 threats/stressors
identified in IWAP 2015:
Distribution/Hydrology,
Pollutants-Sediment, Hosts,
Recruitment, Mortality,
Disturbance,
Structures/Infrastructure
AC (Medium-Very High
(>4))

Rarity:

Range Extent: **55,811.9 to 55,953 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: 208 to
223 1-km2 grid cells occupied
E (101-500 1-km2 grid cells)

Number of Occurrences: **94 to 96 EORs** observed 2008 to 2017 **D (81-300 EORs)**



Spectaclecase (Cumberlandia monodonta)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

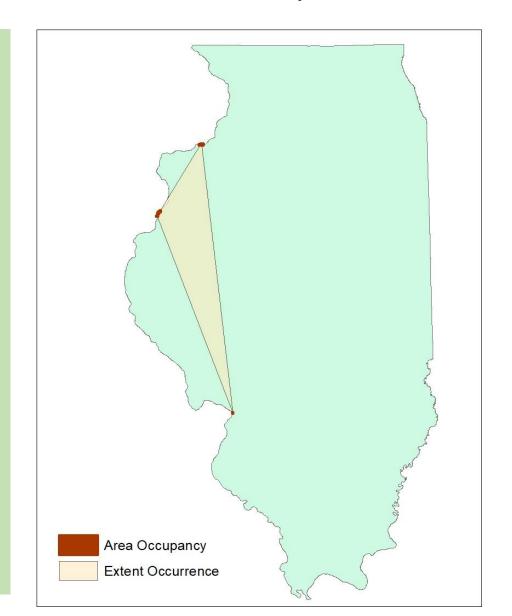
11 threats/stressors identified in the 2015 IWAP: Fragmentation, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Hosts, Dispersal, Recruitment, Mortality, Killing, Disturbance AC (Medium-Very High (>4))

Rarity:

Range Extent: **8,988 to 14,267 km2** range extent per minimum convex polygon **E (5,000-20,000 km2)**

Area of Occupancy: 17 to 23 1-km2 grid cells occupied C-D (11-100 1-km2 grid cells)

Number of Occurrences: 3 to 5 EORs observed 2008 to 2017 A (1-5 EORs)



Purple Wartyback (Cyclonaias tuberculata)

Calculated Rank: S2?

Short-term Trend:

Declining 25 to 50% per

IWAP 2015

E (Decline of 30-50%)

Threats:

9 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-

structure,

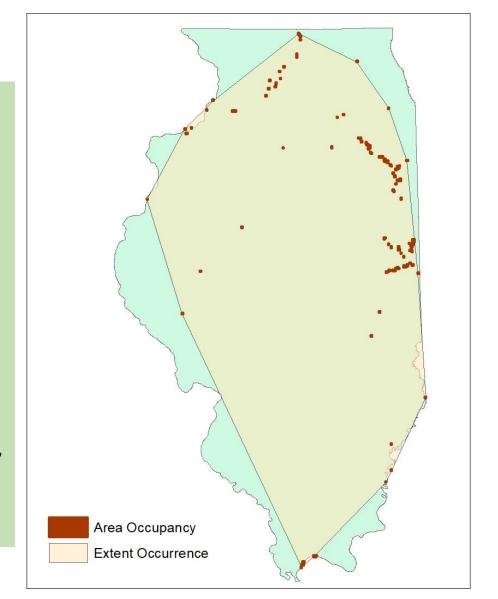
Distribution/Hydrology,
Pollutants-Sediment, Dispersal,
Recruitment, Disturbance,
Structures/Infrastructure
AC (Medium-Very High (>4))

Rarity:

Range Extent: 117,587.4 to
118,235 km2 range extent per
minimum convex polygon
F (20,000-200,000 km2)

Area of Occupancy: **150 to 169**1-km2 grid cells occupied
E (101-500 1-km2 grid cells)

Number of Occurrences: **46 to 51 EORs** observed 2008 to 2017 **C (21-80 EORs)**



Fanshell (Cyprogenia stegaria)

Calculated Rank: **\$1**

Short-term Trend:

Declining 50 to 100% per IWAP 2015
AD (Decline of >50%)

Threats:

12 threats/stressors identified in IWAP
2015: Extent, Fragmentation,
Composition-structure,
Distribution/Hydrology, Invasives/Exotics,
Pollutants-Sediment, Hosts,
Invasive/Exotics, Genetics, Dispersal,
Recruitment, Disturbance
AC (Medium-Very High (>4))

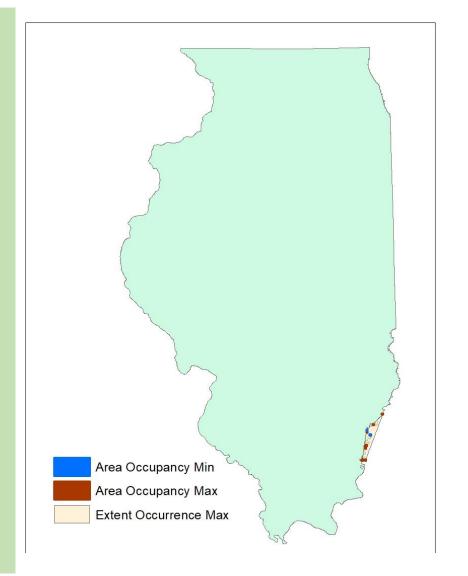
Additional Notes: Edge of range. Additional relic shells in the Wabash River in 2011 and 2012

Rarity:

Range Extent: 11 to 425 km2 range extent per minimum convex polygon
A-C (<100-1,000 km2)

Area of Occupancy: 2 to 9 1-km2 grid cells occupied A-B (1-10 1-km2 grid cells)

Number of Occurrences: 2 to 6 EORs observed 2008 to 2017 A-B (1-20 EORs)



Butterfly Mussel (*Ellipsaria lineolata*)

Calculated Rank: S2?

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

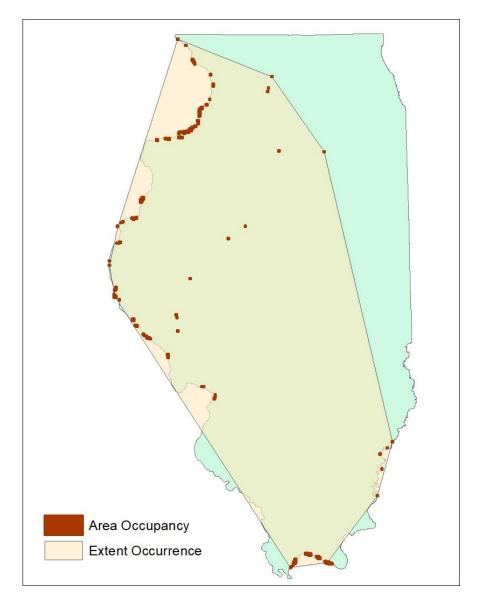
12 threats/stressors identified in IWAP 2015: Extent,
Fragmentation, Compositionstructure, Distribution/Hydrology,
Invasives/Exotics, PollutantsSediment, Invasive/Exotics,
Dispersal, Recruitment, Mortality,
Killing, Disturbance
AC (Medium-Very High (>4))

Rarity:

Range Extent: 114,579 to 115,848 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 206 to 237 1-km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: 43 to 44 EORs observed 2008 to 2017 C (21-80 EORs)



Elephant-ear (*Elliptio crassidens*)

Calculated Rank: S2?

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

13 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Hosts, Invasive/Exotics, Dispersal, Recruitment, Mortality, Killing, Disturbance

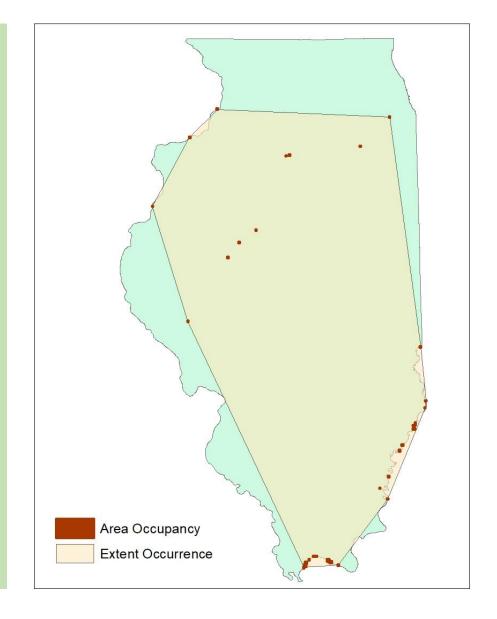
AC (Medium-Very High (>4))

Rarity:

Range Extent: 109,393.5 to 110,223 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: **52 to 59** 1-km2 grid cells
occupied **D (21-100 1-km2 grid**cells)

Number of Occurrences: 23 to 24 EORs observed 2008 to 2017 C (21-80 EORs)



Spike (Elliptio dilatata)

Calculated Rank: \$3?

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

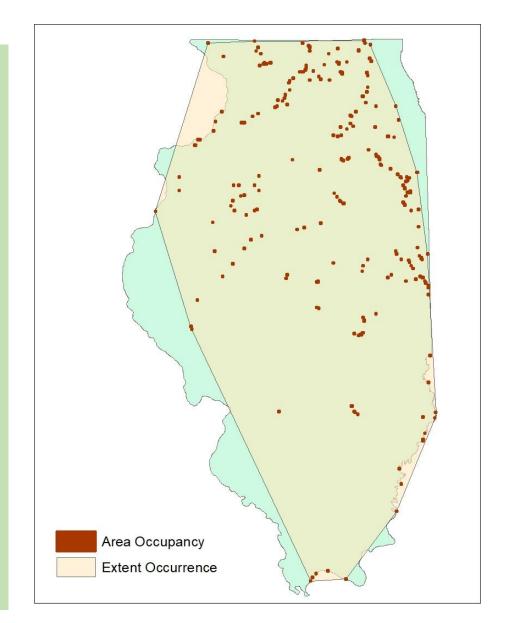
9 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Hosts, Invasive/Exotics, Genetics, Mortality AC (Medium-Very High (>4)) Rarity:

Range Extent: 130,295 to 131,544 km2 range extent per minimum convex polygon

F (20,000-200,000 km2)

Area of Occupancy: 238 to 265 1-km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: 138 to 148 EORs observed 2008 to 2017 D (81-300 EORs)



Northern Riffleshell (*Epioblasma rangiana*)

Calculated Rank: \$1

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

10 threats/stressors identified in the 2015 IWAP: Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Hosts, Genetics, Dispersal, Recruitment, Mortality, Structures/Infrastructure AC (Medium-Very High (>4))

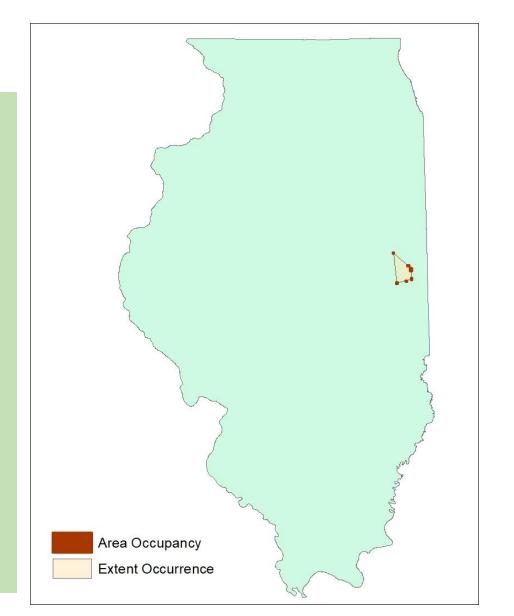
Additional Notes: Reintroduction of 6 EORS, edge of range.; populations being stocked.

Rarity:

Range Extent: 378 to 396 km2 range extent per minimum convex polygon C (250-1,000 km2)

Area of Occupancy: 12 to 14 1-km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: 5 to 6 EORs observed 2008 to 2017 A-B (1-20 EORs)



Snuffbox (*Epioblasma triquetra*)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

11 threats/stressors identified in the 2015 IWAP: Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Hosts, Genetics, Dispersal, Recruitment, Mortality, Disturbance, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: 219 km2

range extent per

minimum convex

polygon

B (100-250 km2)

Area of Occupancy: 10

1-km2 grid cells

occupied

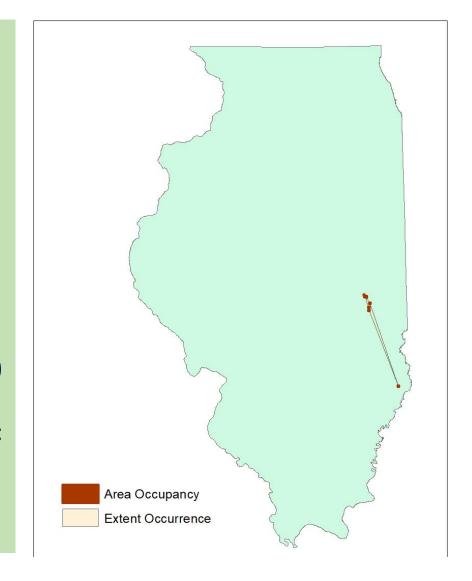
B (5-10 1-km2 grid cells)

Number of Occurrences:

4 EORs observed 2008

to 2017

A (1-5 EORs)



Ebonyshell (Fusconaia ebena)

Calculated Rank: S2?

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

12 threats/stressors identified in IWAP 2015: Fragmentation, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Hosts, Invasive/Exotics, Dispersal, Recruitment, Mortality, Killing, Disturbance, Structures/Infrastructure

AC (Medium-Very High (>4))

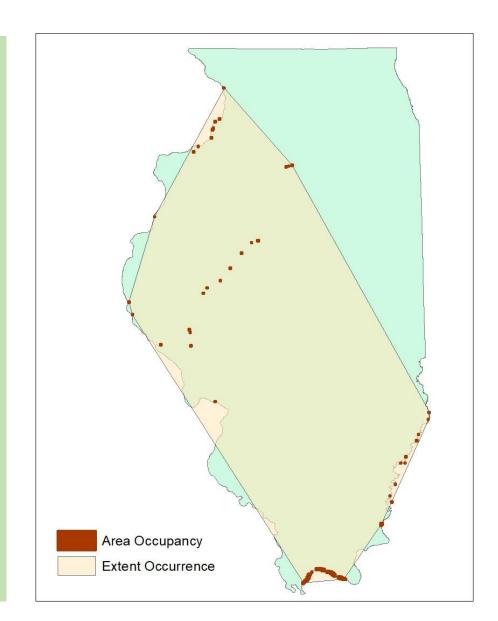
Additional Notes: Including 1 relocation site

Rarity:

Range Extent: 100,218.8 to 103,434 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 120
to 142 1-km2 grid cells
occupied
E (101-500 1-km2 grid
cells)

Number of Occurrences: **34 to 37 EORs** observed 2008 to 2017 **C (21-80 EORs)**



Pink Mucket (Lampsilis abrupta)

Calculated Rank: SH

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

10 threats/stressors identified in IWAP 2015: Fragmentation, Distribution/Hydrology, Pollutants-Sediment, Hosts, Invasive/Exotics, Genetics, Dispersal, Recruitment, Mortality, Disturbance AC (Medium-Very High (>4))

Rarity:

Range Extent: No live records 2008 to 2017

ZA (Zero to <100 km2)

Area of Occupancy: No live records 2008 to 2017

ZA (Zero to 4 1-km2 grid cells)

Number of Occurrences: No live records 2008 to 2017

ZA (0-5 EORs)

Additional Notes: One dead shell in the Ohio River in 2011

Wavy-rayed Lampmussel (Lampsilis fasciola)

Calculated Rank: \$1\$2

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

8 threats/stressors identified in IWAP 2015: Fragmentation, Distribution/Hydrology, Pollutants-Sediment, Hosts, Dispersal, Recruitment, Mortality, Disturbance AC (Medium-Very High (>4))

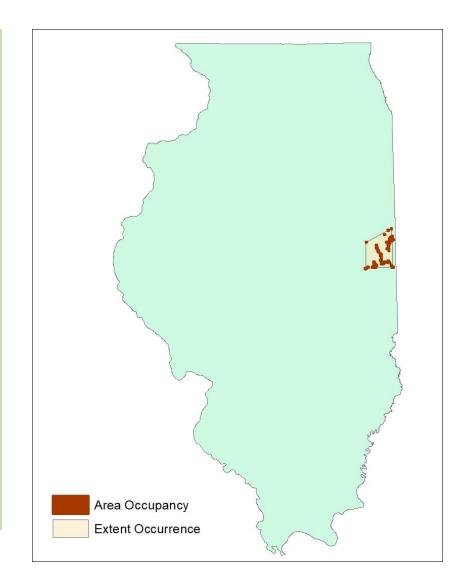
Additional Notes: Edge of range, S3 in IN, S4 in KY

Rarity:

Range Extent: 1,247.3 to
1,248 km2 range extent per
minimum convex polygon
D (1,000-5,000 km2)

Area of Occupancy: 67 to 74 1-km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: **7 EORs** observed 2008 to 2017 **B (5-20 EORs)**



Higgins Eye (Lampsilis higginsii)

Calculated Rank: **\$1\$2**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

9 threats/stressors identified in IWAP 2015: Invasives/Exotics, Pollutants-Sediment, Competitors, Invasive/Exotics, Genetics, Dispersal, Recruitment, Mortality, Structures/Infrastructure. Threat level high per NatureServe.

AB (High-Very High)

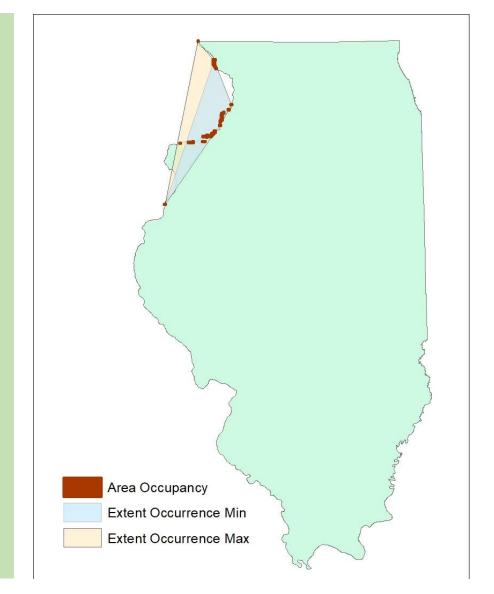
Rarity:

Range Extent: **3,471 to 5,508 km2** range extent per minimum convex polygon

DE (1,000-20,000 km2)

Area of Occupancy: 63 to 77 1-km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: 10 to 11 EORs observed 2008 to 2017 B (5-20 EORs)



Louisiana Fatmucket (Lampsilis hydiana)

Calculated Rank: \$3?

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

2 threats/stressors identified in IWAP 2015: Distribution/Hydrology, Pollutants-Sediment

BD (Low-High (1-3))

Rarity:

Range Extent: 21,260 to

21,270 km2 range extent

per minimum convex

polygon

F (20,000-200,000 km2)

Area of Occupancy: 29 to

31 1-km2 grid cells

occupied

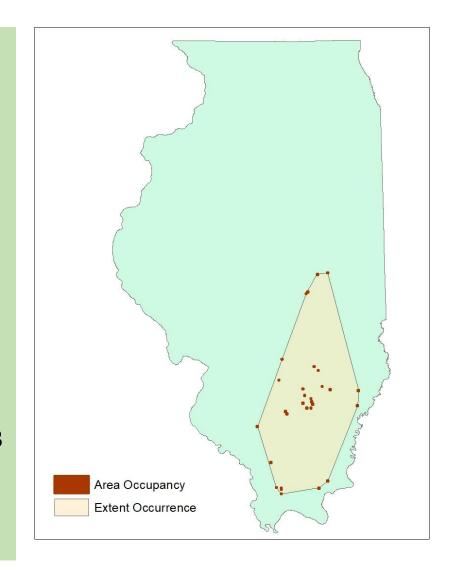
D (21-100 1-km2 grid cells)

Number of Occurrences: 23

to 28 EORs observed 2008

to 2017

C (21-80 EORs)



Pocketbook (Lampsilis ovata)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

10 threats/stressors identified in the 2015 IWAP: Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Hosts, Genetics, Dispersal, Recruitment, Disturbance, Structures/Infrastructure AC (Medium-Very High (>4))

Additional Notes: Edge of range, S2 in IN, S1 in KY

Rarity:

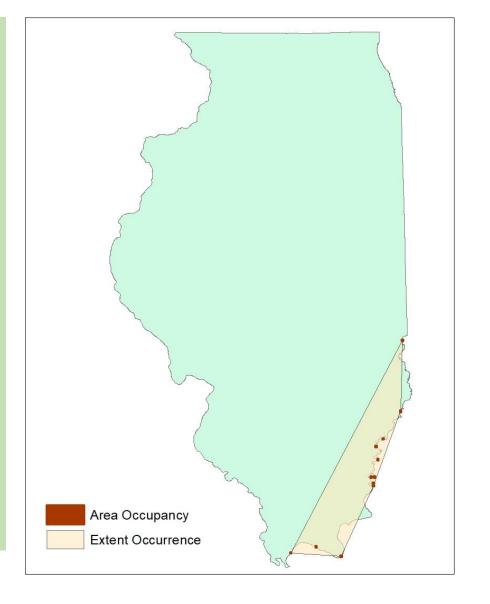
Range Extent: **10,191 to 10,198 km2** range extent per minimum convex polygon

E (5,000-20,000 km2)

Area of Occupancy: **13 to 15** 1-km2 grid cells
occupied

C (11-20 1-km2 grid cells)

Number of Occurrences: 10 to 12 EORs observed 2008 to 2017 B (5-20 EORs)



Creek Heelsplitter (Lasmigona compressa)

Calculated Rank: \$3?

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

6 threats/stressors identified in IWAP 2015: Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Dispersal, Recruitment, Disturbance

AC (Medium-Very High (>4))

Rarity:

Range Extent: 63,639 to

63,664 km2 range extent per minimum convex polygon

F (20,000-200,000 km2)

Area of Occupancy: 194 to

202 1-km2 grid cells

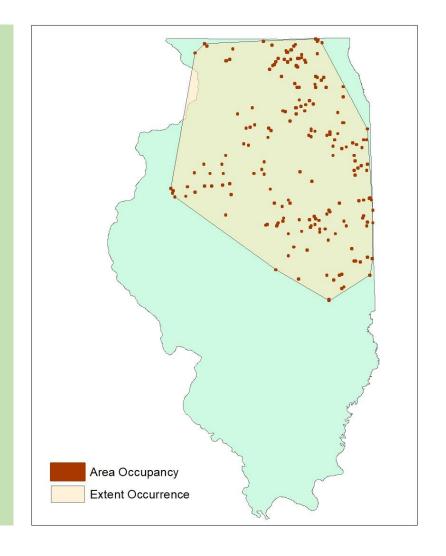
occupied

E (101-500 1-km2 grid cells)

Number of Occurrences: **144 to 168 EORs** observed 2008

to 2017

D (81-300 EORs)



Flutedshell (Lasmigona costata)

Calculated Rank: **\$2\$3**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

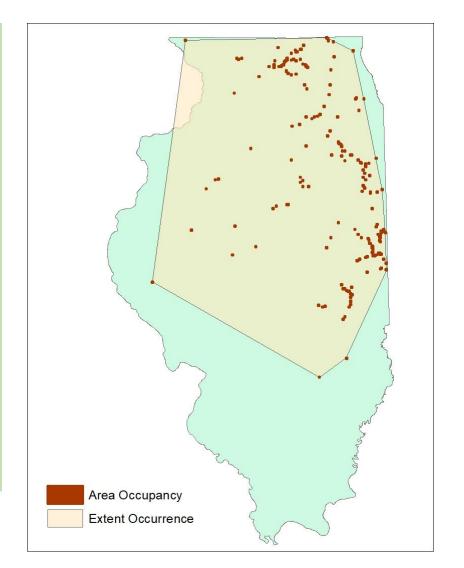
6 threats/stressors identified in IWAP 2015: Composition-structure,
Distribution/Hydrology,
Pollutants-Sediment,
Dispersal, Recruitment,
Structures/Infrastructure
AC (Medium-Very High (>4))

Rarity:

Range Extent: 89,514.2 to 89,840 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 203 to 210 1-km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: **94 to 127 EORs** observed 2008 to
2017 **D (81-300 EORs)**



Scaleshell Mussel (Leptodea leptodon)

Calculated Rank: \$1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

11 threats/stressors identified in

the 2015 IWAP: Extent,

Fragmentation, Composition-

structure, Distribution/Hydrology,

Invasives/Exotics, Pollutants-

Sediment, Genetics, Dispersal,

Recruitment, Mortality,

Structures/Infrastructure

AC (Medium-Very High (>4))

Rarity:

Range Extent: >1 km2

range extent per

minimum convex

polygon

A (<100 km2)

Area of Occupancy: 2 1-km2 grid cells occupied

A (1-4 1-km2 grid cells)

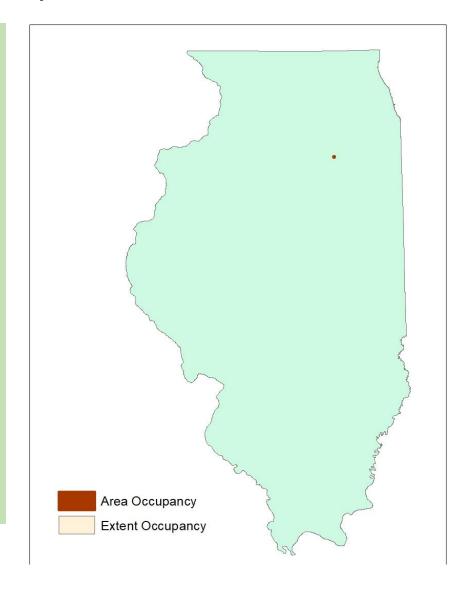
Number of

Occurrences: 1 EOR

. I LOR

observed 2008 to 2017

A (1-5 EORs)



Black Sandshell (*Ligumia recta*)

Calculated Rank: \$3\$4

Short-term Trend:
Increasing 25 to 50% per IWAP 2015
I (Increase of >25%)

Threats:

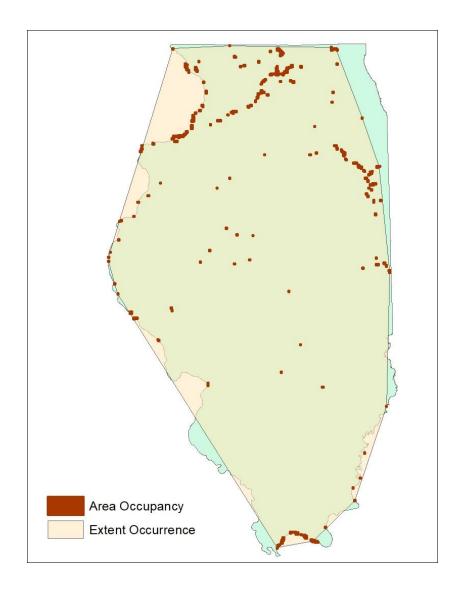
4 threats/stressors identified in IWAP 2015: Fragmentation, Pollutants-Sediment, Dispersal, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: 143,977 to 148,309 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 342 to 435 1-km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: 98 to 103 EORs observed 2008 to 2017 D (81-300 EORs)



Orange-foot Pimpleback (*Plethobasus cooperianus*)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

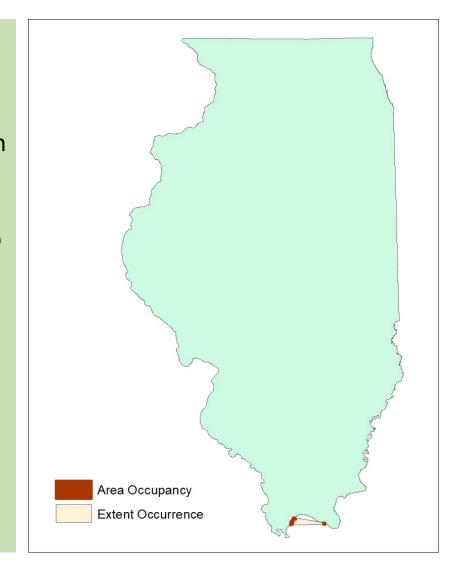
10 threats/stressors identified in the 2015 IWAP: Fragmentation, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Hosts, Genetics, Dispersal, Recruitment, Mortality, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: 241 km2
range extent per
minimum convex polygon
B (100-250 km2)

Area of Occupancy: 14 to 21 1-km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: **2 EORs** observed 2008 to 2017 **A (1-5 EORs)**



Sheepnose (*Plethobasus cyphyus*)

Calculated Rank: \$1?

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

12 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Genetics, Dispersal, Recruitment, Disturbance, Structures/Infrastructure

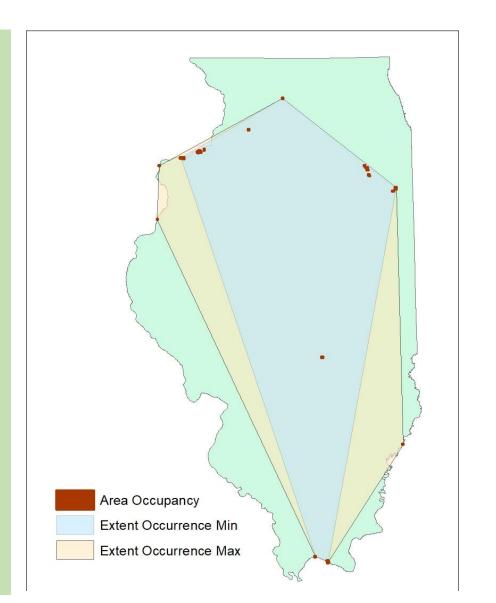
AC (Medium-Very High (>4))

Rarity:

Range Extent: 63,682 to 97,963 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 37 to 44 1-km2 grid cells occupied D (21-100 1-km2 grid cells

Number of Occurrences: 10 to 13 EORs observed 2008 to 2017 B (5-20 EORs)



Clubshell (Pleurobema clava)

Calculated Rank: \$1?

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

11 threats/stressors identified in the 2015 IWAP: Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Hosts, Genetics, Dispersal, Recruitment, Mortality, Disturbance, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: 6,945 to
7,362 km2 range extent
per minimum convex
polygon
E (5,000-20,000 km2)

Area of Occupancy: 29 to 36 1-km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: 11 to 14 EORs observed 2008 to 2017 B (5-20 EORs)

Area Occupancy **Extent Occurrence Min Extent Occurrence Max**

Additional Notes: 4 EORs are reintroductions; edge of range.

Populations being stocked.

Ohio Pigtoe (*Pleurobema cordatum*)

Calculated Rank: \$1?

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

7 threats/stressors identified in the 2015 IWAP: Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Genetics, Dispersal, Recruitment, Structures/Infrastructure

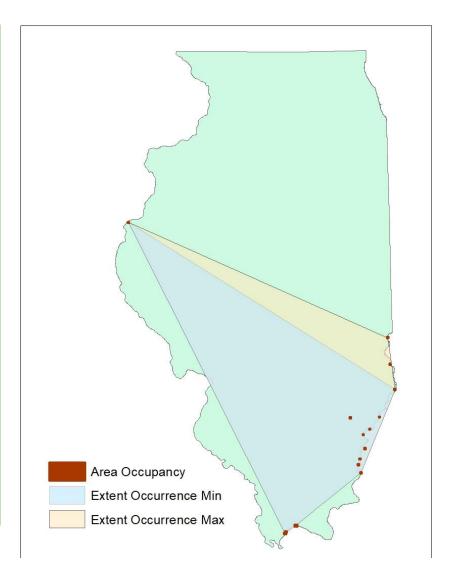
AC (Medium-Very High (>4))

Rarity:

Range Extent: 46,605.7 to 56,237 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: **18 to 26** 1-km2 grid cells occupied **CD (11-100 1-km2 grid cells)**

Number of Occurrences: 11 to 14 EORs observed 2008 to 2017 B (6-20 EORs)



Fat Pocketbook (*Potamilus capax*)

Calculated Rank: **\$1\$2**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

8 threats/stressors identified in IWAP 2015: Fragmentation, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Recruitment, Mortality, Killing, Disturbance

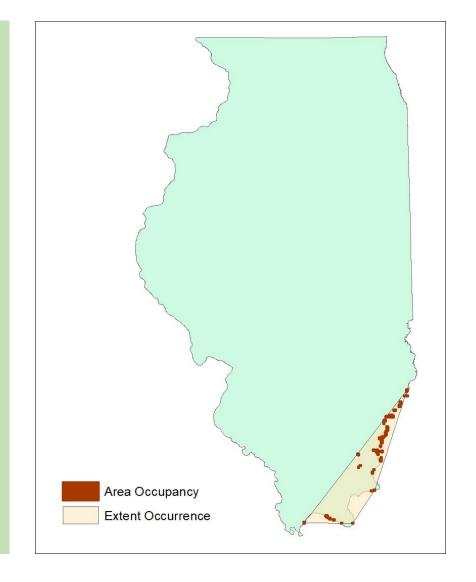
AC (Medium-Very High (>4))

Rarity:

Range Extent: **5,994 km2**range extent per
minimum convex polygon **E (5,000-20,000 km2)**

Area of Occupancy: 99 to 102 1-km2 grid cells occupied DE (21-500 1-km2 grid cells)

Number of Occurrences: 29 EORs observed 2008 to 2017 C (21-80 EORs)



Bleufer (*Potamilus purpuratus*)

Calculated Rank: S1

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

7 threats/stressors identified in the 2015 IWAP: Extent, Fragmentation, Distribution/Hydrology, Pollutants-Sediment, Invasive/Exotics, Dispersal, Recruitment AC (Medium-Very High (>4))

Additional Notes: Edge of range

Rarity:

Range Extent: 1,179

km2 range extent per

minimum convex

polygon

D (1,000-5,000 km2)

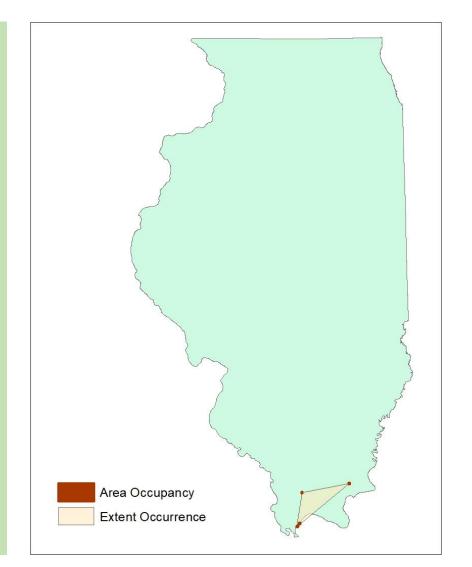
Area of Occupancy: 5 1-km2 grid cells occupied B (5-10 1-km2 grid cells)

Number of

Occurrences: 4 EORs

observed 2008 to 2017

A (1-5 EORs)



Kidneyshell (Ptychobranchus fasciolaris)

Calculated Rank: **\$1\$2**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

10 threats/stressors identified in the 2015 IWAP: Fragmentation, Distribution/Hydrology, Pollutants-Sediment, Hosts, Genetics, Dispersal, Recruitment, Mortality, Disturbance, Structures/Infrastructure AC (Medium-Very High (>4))

Additional Notes: Edge of range, S2 in IN, S4 in KY

Rarity:

Range Extent: **11,566.9**

to 12,319 km2 range

extent per minimum

convex polygon

E (5,000-20,000 km2)

Area of Occupancy: 31

to 32 1-km2 grid cells

occupied

D (21-100 1-km2 grid

cells)

Number of Occurrences:

16 to 17 EORs observed

2008 to 2017

B (5-20 EORs)



Rabbitsfoot (Quadrula cylindrica)

Calculated Rank: \$1?

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

10 threats/stressors identified in the 2015 IWAP: Fragmentation, Distribution/Hydrology, Pollutants-Sediment, Hosts, Genetics, Dispersal, Recruitment, Mortality, Disturbance, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: 13,726.4 to 15,293 km2 range extent per minimum convex polygon E (5,000-20,000 km2)

Area of Occupancy: 16 to 26 1-km2 grid cells occupied CD (11-100 1-km2 grid cells)

Number of Occurrences: 4 to 7 EORs observed 2008 to 2017 AB (1-20 EORs)



Monkeyface (Quadrula metanevra)

Calculated Rank: **S2S3**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

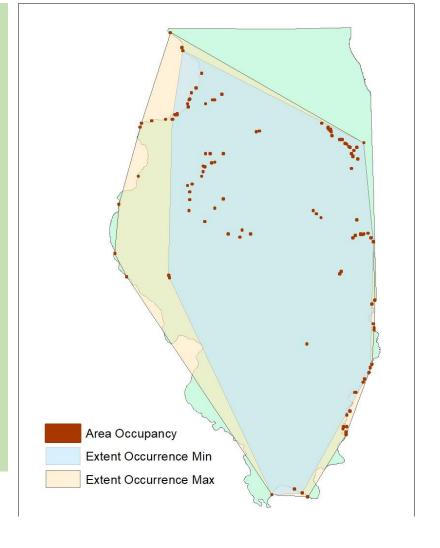
9 threats/stressors identified in IWAP 2015: Fragmentation, Distribution/Hydrology, Pollutants-Sediment, Hosts, Dispersal, Recruitment, Mortality, Killing, Disturbance AC (Medium-Very High (>4))

Rarity:

Range Extent: 124,141 to
131,467 km2 range extent per
minimum convex polygon
F (20,000-200,000 km2)

Area of Occupancy: 99 to 118 1-km2 grid cells occupied DE (21-500 1-km2 grid cells)

Number of Occurrences: **79 to 81 EORs** observed 2008 to
2017 **D (81-300 EORs)**



Gulf Mapleleaf (Quadrula nobilis)

Calculated Rank: S1

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

6 threats/stressors identified in the 2015 IWAP: Pollutants-Sediment,

Hosts, Genetics, Dispersal,

Recruitment,

Structures/Infrastructure

AC (Medium-Very High (>4))

Additional Notes: Edge of range

Rarity:

Range Extent: 22,725.6 to 22,737 km2 range extent per minimum

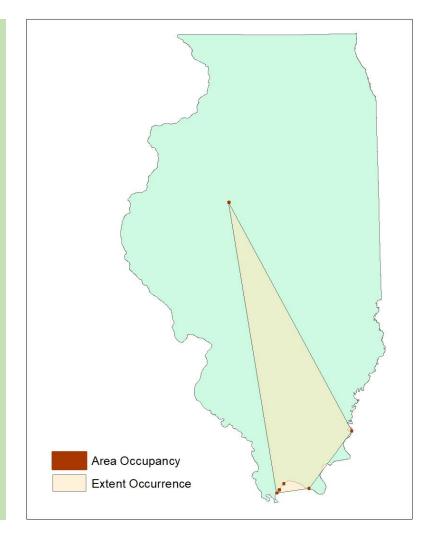
convex polygon

F (20,000-200,000 km2)

Area of Occupancy: 6 1-km2 grid cells occupied B (5-10 1-km2 grid cells)

Number of Occurrences: **6 EORs** observed 2008 to 2017

B (5-20 EORs)



Salamander Mussel (Simpsonaias ambigua)

Calculated Rank: \$1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

9 threats/stressors identified in the 2015 IWAP: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Hosts, Dispersal, Recruitment, Disturbance AC (Medium-Very High (>4))

Rarity:

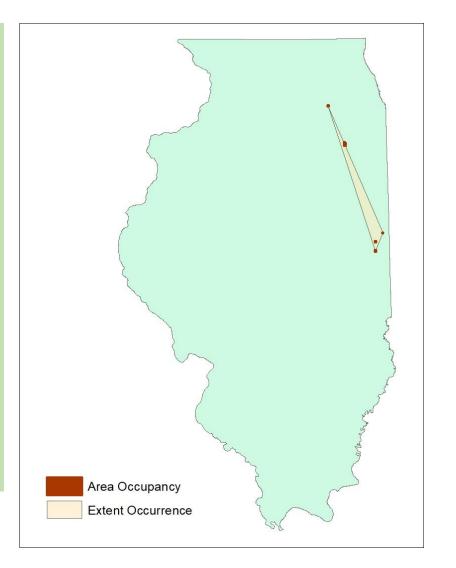
Range Extent: **273 to 1,548 km2** range extent per

minimum convex polygon

C-D (250-5,000 km2)

Area of Occupancy: 9 to 12 1-km2 grid cells occupied B-C (5-20 1-km2 grid cells)

Number of Occurrences: 3 to 5 EORs observed 2008 to 2017 A (1-5 EORs)



Purple Lilliput (*Toxolasma lividus*)

Calculated Rank: \$2?

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

8 threats/stressors identified in the 2015 IWAP: Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Predators, Dispersal, Recruitment, Disturbance AC (Medium-Very High (>4))

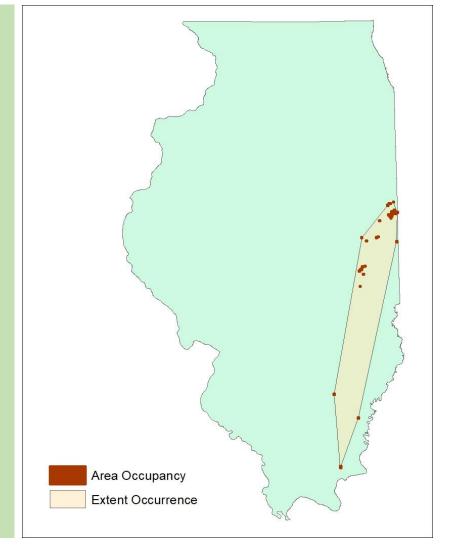
Rarity:

Range Extent: **10,544.9 km2** range extent per minimum convex polygon

E (5,000-20,000 km2)

Area of Occupancy: **39** 1-km2 grid cells occupied **D** (**21-100** 1-km2 grid cells)

Number of Occurrences: 13 EORs observed 2008 to 2017 B (5-20 EORs)



Pistolgrip (*Tritogonia verrucosa*)

Calculated Rank: \$3?

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

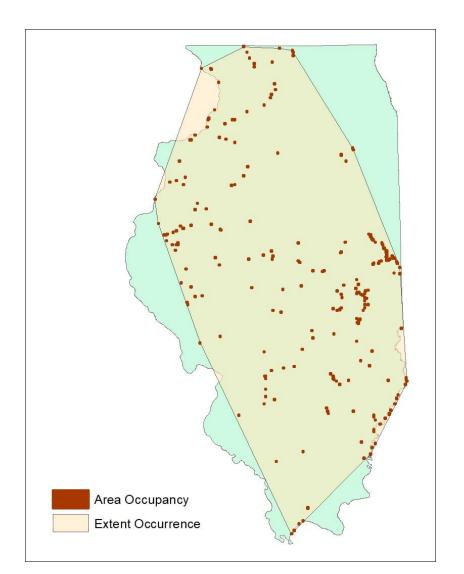
5 threats/stressors identified in IWAP 2015: Distribution/Hydrology, Pollutants-Sediment, Dispersal, Recruitment, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: 117,882.8 to 126,218 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 242 to 276 1-km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: 154 to 174 EORs observed 2008 to 2017 D (81-300 EORs)



Ellipse (Venustaconcha ellipsiformis)

Calculated Rank: **\$2\$3**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

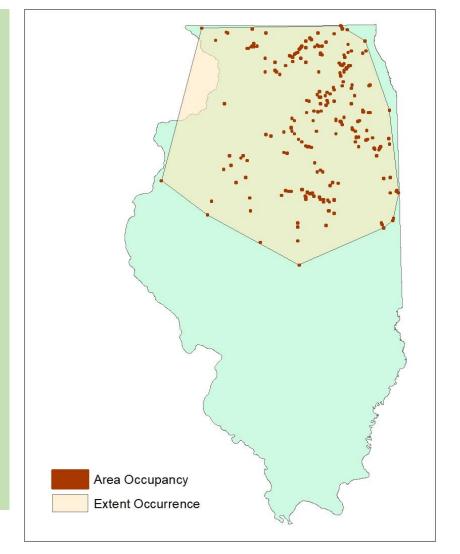
10 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Hosts, Dispersal, Recruitment, Mortality, Disturbance AC (Medium-Very High (>4))

Rarity:

Range Extent: **65,498.3 to 67,686 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: 221 to 242 1-km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: **121 to 161 EORs** observed 2008 to 2017 **D (81-300 EORs)**



Rayed Bean (Villosa fabalis)

Calculated Rank: SH

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

10 threats/stressors per IWAP 2015:

Extent, Fragmentation,

Composition/Structure,

Distribution/Hydrology, Pollutants-

Sediment, Hosts, Genetics,

Dispersal, Recruitment,

Structures/Infrastructure

AC (Medium-Very High (>4))

Rarity:

Range Extent: No live records 2008 to 2017

ZA (Zero to <100 km2)

Area of Occupancy: No live records 2008 to 2017

ZA (Zero to 4 1-km2 grid cells)

Number of Occurrences: No live records 2008 to 2017

ZA (0-5 EORs)

Rainbow (Villosa iris)

Calculated Rank: \$1?

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

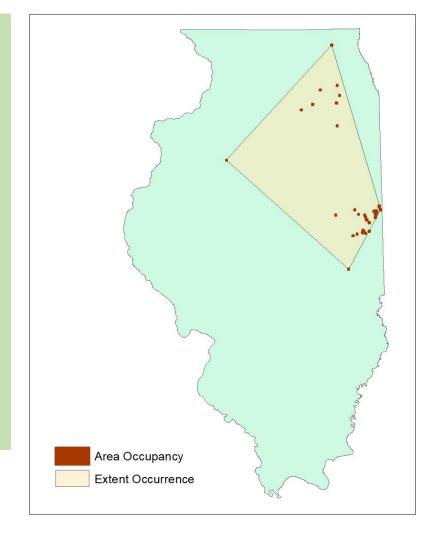
10 threats/stressors identified in the 2015 IWAP: Fragmentation, Distribution/Hydrology, Pollutants-Sediment, Prey/Food, Hosts, Genetics, Dispersal, Recruitment, Mortality, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: 28,968.3to
28,982 km2 range extent per
minimum convex polygon
F (20,000-200,000 km2)

Area of Occupancy: 44 to 47 1-km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: 20 EORs observed 2008 to 2017 B (5-20 EORs)



Little Spectaclecase (Villosa lienosa)

Calculated Rank: \$3\$4

Short-term Trend:

Increasing 25 to 50% per IWAP 2015

I (Increase of >25%)

Threats:

5 threats/stressors identified in IWAP 2015: Distribution/Hydrology, Pollutants-Sediment, Recruitment, Mortality, Disturbance
AC (Medium-Very High (>4))

Additional Notes: Edge of range, S3 in IN, KY, and MO

Rarity:

Range Extent: 25,257.8to

25,274 km2 range extent

per minimum convex

polygon

F (20,000-200,000 km2)

Area of Occupancy: 137 to

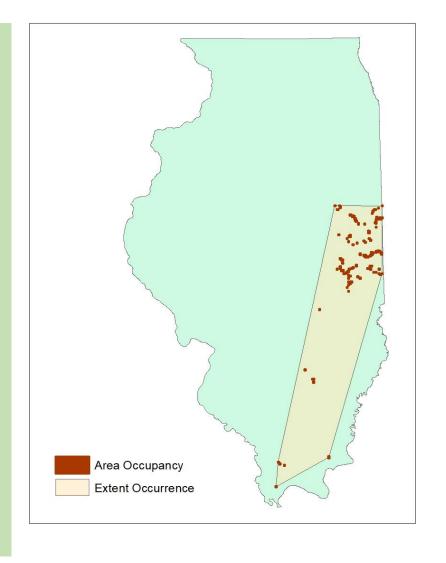
143 1-km2 grid cells

occupied

E (101-500 1-km2 grid cells)

Number of Occurrences: **31 to 32 EORs** observed 2008 to 2017

C (21-80 EORs)



Southeastern Myotis hibernaculum (Myotis austroriparius)

Calculated Rank: S2

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

Threats are not listed in IWAP U (Unknown)

Additional Notes: Edge of range, S1 in KY and MO, SH in IN. At least 1,500 individuals hibernating in IL in 2015 (Population Size D (1,000-2,500).

Rarity:

Range Extent: **2,156 to 3,169 km2** range extent per minimum convex polygon

D (1,000-5,000 km2)

Area of Occupancy: 7 to 8 4-km2 grid cells occupied D (6-25 4-km2 grid cells)

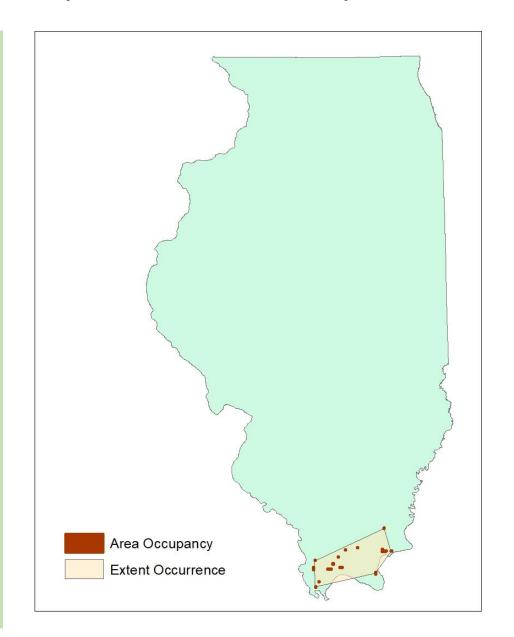
Number of

Occurrences: 6 to 8

EORs observed 2008 to

2017

B (5-20 EORs)



Gray/timber Wolf (Canis lupus)

Calculated Rank: SH

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

2 threats/stressors identified in IWAP 2015: Mortality, Killing AC (Medium-Very High (>4))

Additional Notes: No reproducing populations but transient individuals seen regularly. Edge of range- rescue effect. Transient individuals not being included for sRanks to avoid prioritizing conservation efforts.

Number of Viable Occurrences is A (No occurrences with excellent or good (A or B) viability).

Rarity:

Range Extent:

Observations from 9,696 km2 area per miminum convex polygon

Area of Occupancy: 15

E (5,000-20,000 km2)

4-km2 grid cells

occupied

D (6-25 4-km2 grid

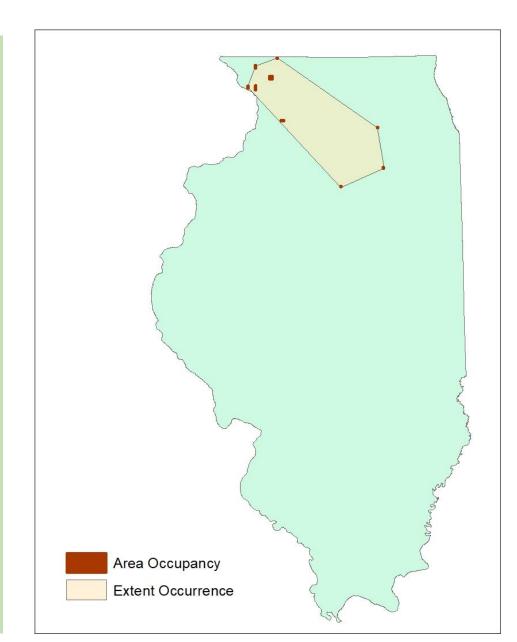
cells)

Number of

Occurrences: 8 EORs

observed 2008 to 2017

B (5-20 EORs)



Rafinesque's Big-eared Bat hibernaculum (Corynorhinus rafinesquii)

Calculated Rank: \$1

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

Threats are not listed in IWAP U (Unknown)

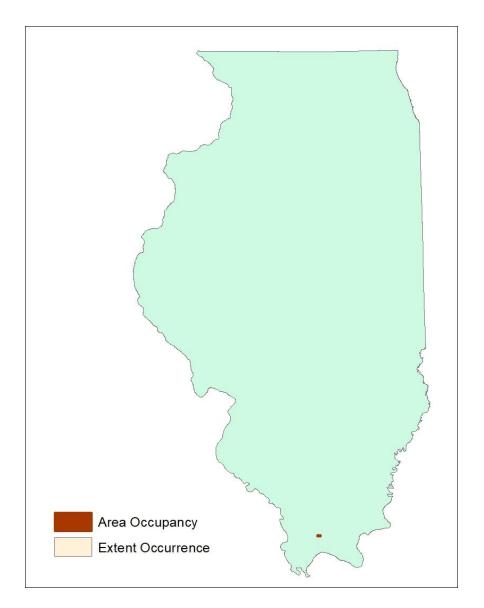
Additional Notes: Edge of range, SH in IN, S3 in KY

Rarity:

Range Extent: <1 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 2 to 3 4-km2 grid cells occupied BC (2-5 4-km2 grid cells)

Number of Occurrences: 1 to 2 EORs observed 2008 to 2017 A (1-5 EORs)



Rafinesque's Big-eared Bat maternity (Corynorhinus rafinesquii)

Calculated Rank: **S1S2**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

Threats are not listed in IWAP U (Unknown)

Additional Notes: Edge of range, SH in IN, S3 in KY

Rarity:

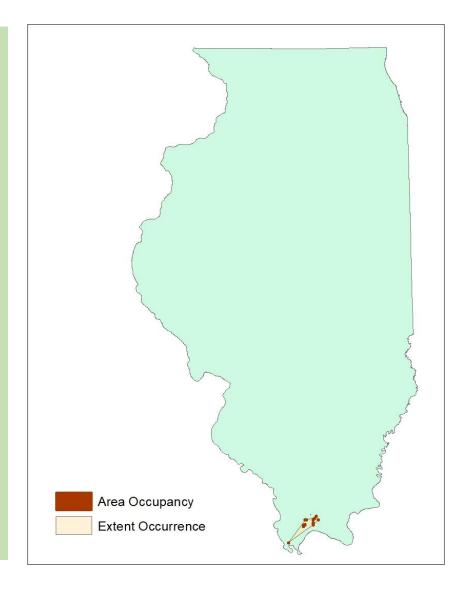
Range Extent: **253 to 3,169 km2** range extent per minimum convex polygon

C (250-1,000 km2)

Area of Occupancy: 12 to 13 4-km2 grid cells occupied

D (6-25 4-km2 grid cells)

Number of Occurrences: **5 to 6 EORs** observed 2008 to 2017 **AB (1-20 EORs)**



Southeastern Myotis maternity (Myotis austroriparius)

Calculated Rank: **S2**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

Threats are not listed in IWAP
U (Unknown)

Additional Notes: Edge of range, S1 in KY and MO, SH in IN. Acoustic records from Jo Davies and Meridosia island. Consider future methods of utilizing acoustic data.

Rarity:

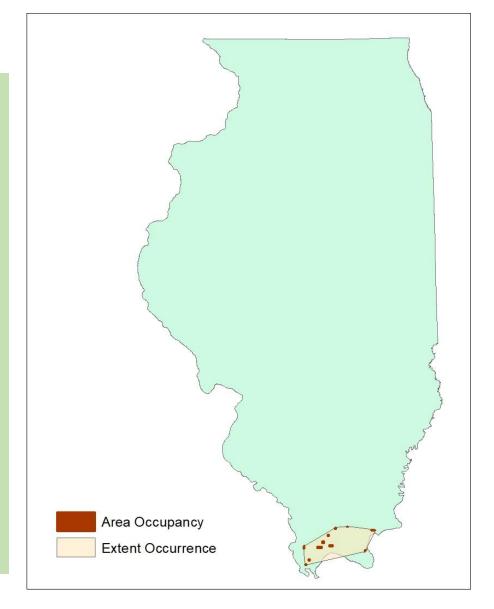
Range Extent: 1,285 to

2,253 km2 range extent per
minimum convex polygon

D (1,000-5,000 km2)

Area of Occupancy: 13 to 15 4-km2 grid cells occupied D (6-25 4-km2 grid cells)

Number of Occurrences: 8 to 10 EORs observed 2008 to 2017 B (5-20 EORs)



Gray Bat hibernaculum (Myotis grisescens)

Calculated Rank: S1S2

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

Threats are not listed in IWAP U (Unknown)

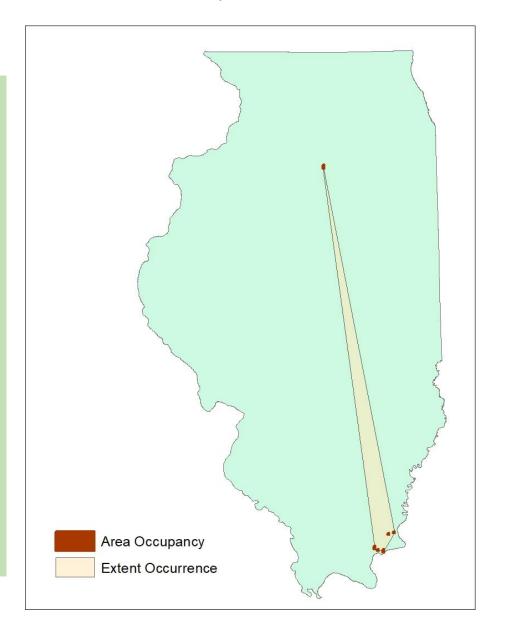
Additional Notes: Potential within recovery program to work with IDNR Mines and Minerals to discern whether they have additional information about gray bat hibernacula.

Rarity:

Range Extent: 2,085 to 5,430 km2 range extent per minimum convex polygon DE (1000-20,000 km2)

Area of Occupancy: **5 to 9** 4-km2 grid cells occupied **CD (3-25 4-km2 grid cells)**

Number of Occurrences: 5 to 8 EORs observed 2008 to 2017 AB (1-20 EORs)



Gray Bat maternity (Myotis grisescens)

Calculated Rank: **S2**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

Threats are not listed in IWAP U (Unknown)

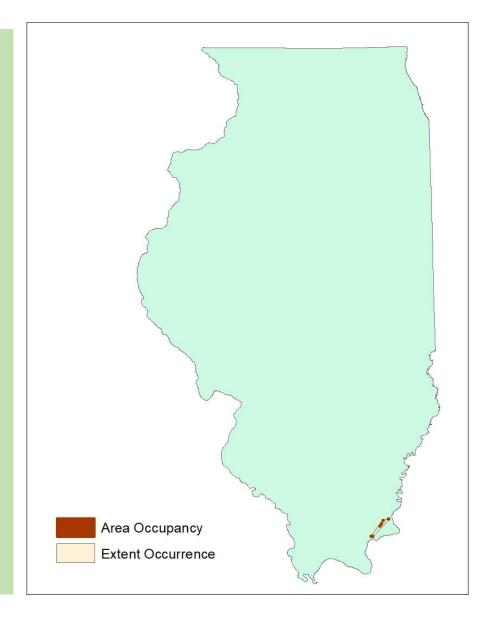
Additional Notes: 3,500 individual bats observed in 2010 (Population Size factor E (2,500 to 10,000 individuals)).

Rarity:

Range Extent: 24 to 87 km2 range extent per minimum convex polygon A (<100 km2)

Area of Occupancy: 4 to 6 4-km2 grid cells occupied CD (3-25 4-km2 grid cells)

Number of Occurrences: 2 to 4 EORs observed 2008 to 2017 A (1-5 EORs)



Eastern Small-footed Myotis hibernaculum (Myotis leibii)

Calculated Rank: **\$1\$2**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

Threats are not listed in IWAP.
Medium-low per NatureServe.
CD (Medium-Low)

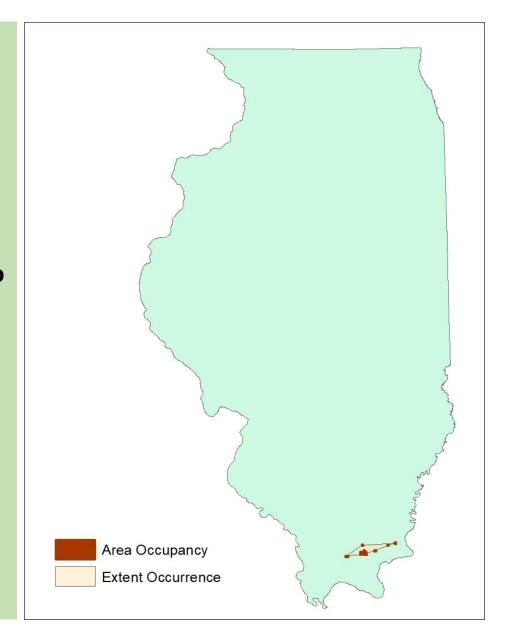
Additional Notes: Edge of range, S2 in KY

Rarity:

Range Extent: 0 to 213 km2 range extent per minimum convex polygon
AB (<100-250 km2)

Area of Occupancy: **0 to 5** 4-km2 grid cells
occupied
AC (1-5 4-km2 grid
cells)

Number of
Occurrences: **0 to 4 EORs** observed 2008 to
2017 **A (1-5 EORs)**



Eastern Small-footed Myotis maternity (Myotis leibii)

Calculated Rank: S2?

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015 G (Relatively Stable <=10%)

Threats:

Threats are not listed in IWAP.

Medium-low per NatureServe.

CD (Medium-Low)

Additional Notes: Edge of range, S2 in KY. Acoustic records from Jo Davies, Edgar and Carrol counties.

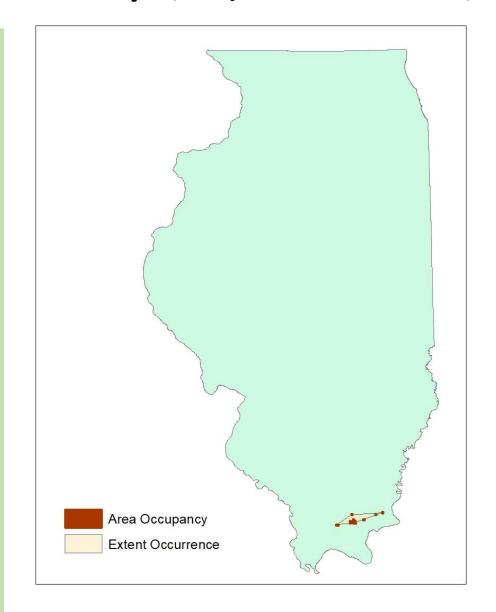
Rarity:

Range Extent: **67 to 285 km2** range extent per minimum convex polygon

AC (<100-1000 km2)

Area of Occupancy: 8 to 13 4-km2 grid cells occupied D (6-25 4-km2 grid cells)

Number of
Occurrences: 2 to 6
EORs observed 2008 to
2017
A (1-5 EORs)



Northern Long-eared Myotis hibernaculum (Myotis septentrionalis)

Calculated Rank: \$1

Short-term Trend:

Declining 30% or more per IWAP 2015

AE (Decline of >30%)

Threats:

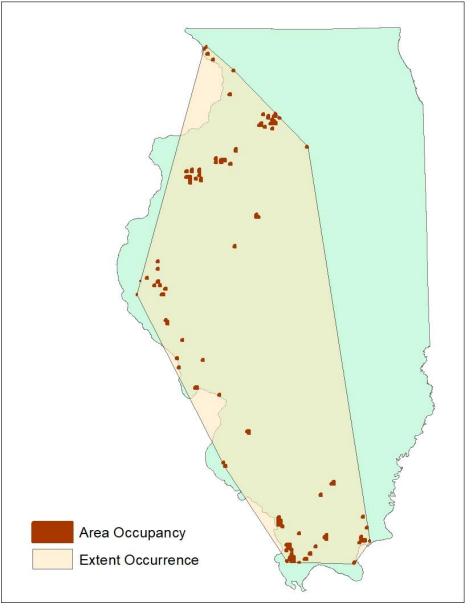
Threats are not listed in IWAP A (Very High)

Rarity:

Range Extent: 82,760 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: **33**4-km2 grid cells occupied **E (26-125 4-km2 grid cells)**

Number of Occurrences: 16 EORs observed 2008 to 2017 B (5-20 EORs)



Northern Long-eared Myotis maternity (Myotis septentrionalis)

Calculated Rank: **S1S2**

Short-term Trend:

Declining 30% or more per

IWAP 2015

AE (Decline of >30%)

Threats:

Threats are not listed in IWAP
U (Unknown)

Additional Notes: Global rank G1G2.

Rarity:

Range Extent: 124,488 to

134,213 km2 range extent per

minimum convex polygon

F (20,000-200,000 km2)

Area of Occupancy: 126 to 141

4-km2 grid cells occupied

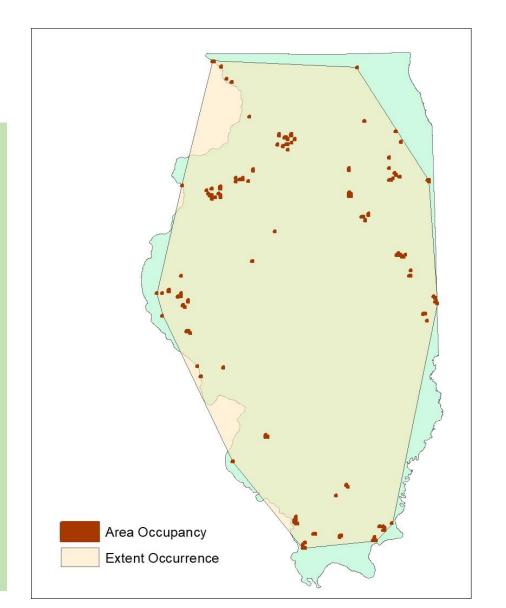
F (126-500 4-km2 grid cells)

Number of Occurrences: **51 to**

63 EORs observed 2008 to

2017

C (21-80 EORs)



Indiana Bat hibernaculum (Myotis sodalis)

Calculated Rank: **S2**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Long-term Trend:

D (Decline of 50 to 70%)

Threats:

Threats are not listed in IWAP (2015). White-nose syndrome is a severe threat affecting hibernating bats.

A (Very High)

Rarity:

Range Extent: **67,335 to**

109,477 km2 range extent per

minimum convex polygon

F (20,000-200,000 km2)

Area of Occupancy: **30 to 65** 4-km2 grid cells occupied

E (26-125 4-km2 grid cells)

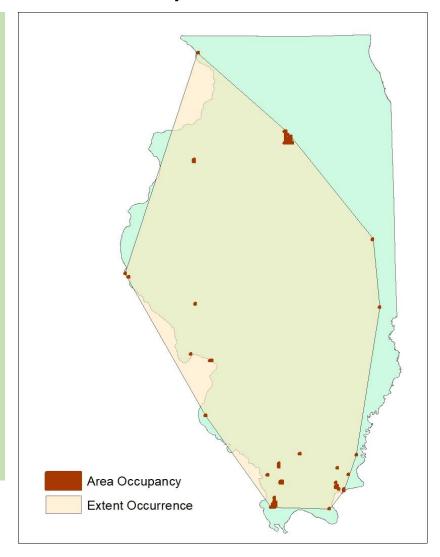
Number of Occurrences: 13 to

24 EORs observed 2008 to

2017

BC (6-80 EORs)

Additional Notes: One Priority 1 and six Priority 2 hibernaculum in Illinois (USFWS 2007). Population Size factor E (10,000 to 100,000 individuals). Number of viable occurrences BC (Very few to few (1-12) occurrences with good viability).



Indiana Bat maternity (Myotis sodalis)

Calculated Rank: S2

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Long-term Trend:

D (Decline of 50 to 70%)

Threats:

Threats are not listed in IWAP (2015) but include habitat loss from reduced forest cover and interrupted snag production.

AC (Medium-Very High (>4))

Rarity:

Range Extent: **110,278 to**

113,314 km2 range extent per

minimum convex polygon

F (20,000-200,000 km2)

Area of Occupancy: 192 to 229

4-km2 grid cells occupied

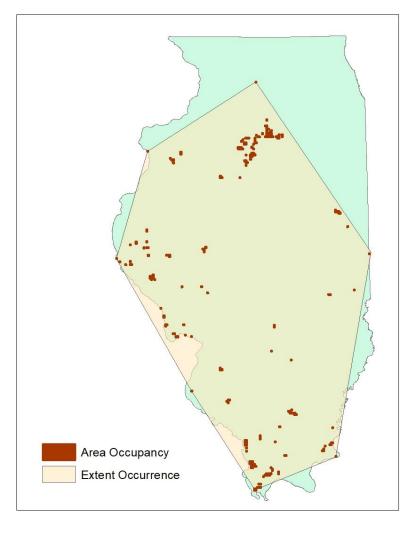
F (126-500 4-km2 grid cells)

Number of Occurrences: 58 to

69 EORs observed 2008 to

2017

C (21-80 EORs)



Additional Notes: Global rank G2

Eastern Wood Rat (Neotoma floridana)

Calculated Rank: S2?

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015 G (Relatively Stable <=10%)

Threats:

5 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Parasites/ Disease, Dispersal, Recruitment
AC (Medium-Very High (>4))

Additional Notes: Edge of range, S4 in MO.

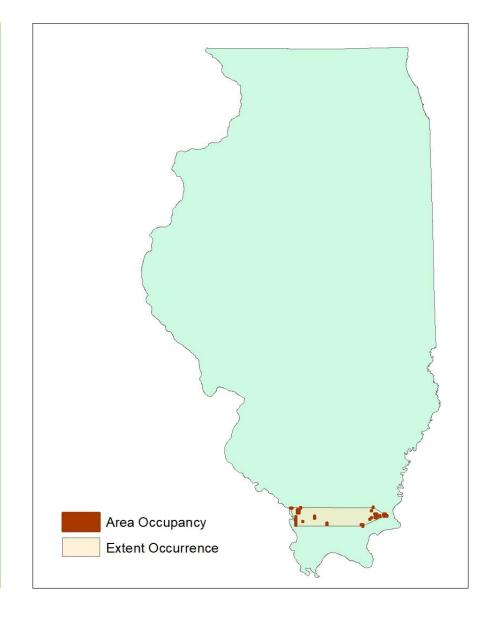
Rarity:

Range Extent:

2,066km2 range extent per minimum convex polygon
D (1,000-5,000 km2)

Area of Occupancy: 37 to 40 4-km2 grid cells occupied E (26-125 4-km2 grid cells)

Number of Occurrences: **9 EORs** observed 2008 to 2017 **B (5-20 EORs)**



Franklin's Ground Squirrel (Poliocitellus franklinii)

Calculated Rank: S1S2

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of 70%)

Threats:

6 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Dispersal, Structures/Infrastructure AC (Medium-Very High (>4))

Additional Notes: Edge of range, S1 in KY and MO, SH in IN. More surveys needed in IL.

Rarity:

Range Extent:

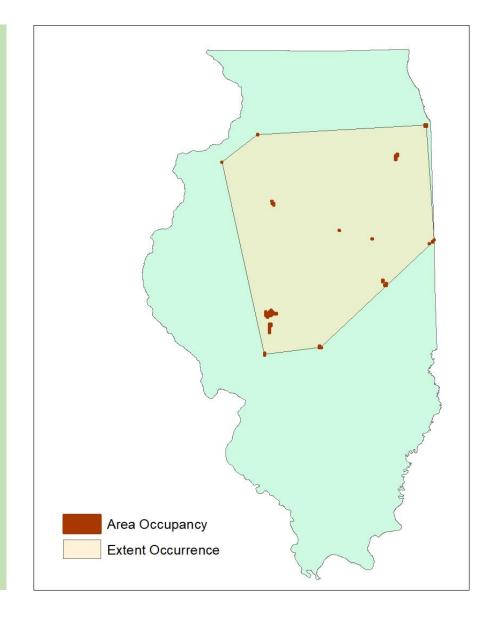
47,632km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 54
4-km2 grid cells
occupied
E (26-125 4-km2 grid
cells)

Number of

Occurrences: **15 EORs** observed 2008 to 2017

B (5-20 EORs)



Packard's Cave Amphipod (Crangonyx packardi)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per NatureServe 2003.

AD (Decline of >50%)

Threats:

No threats identified in IWAP 2015 U (Unknown)

Rarity:

Range Extent: <1 km2 range extent per minimum convex polygon

A (<100 km2)

Area of Occupancy: 1
4-km2 grid cells
occupied
A (1 4-km2 grid cells)

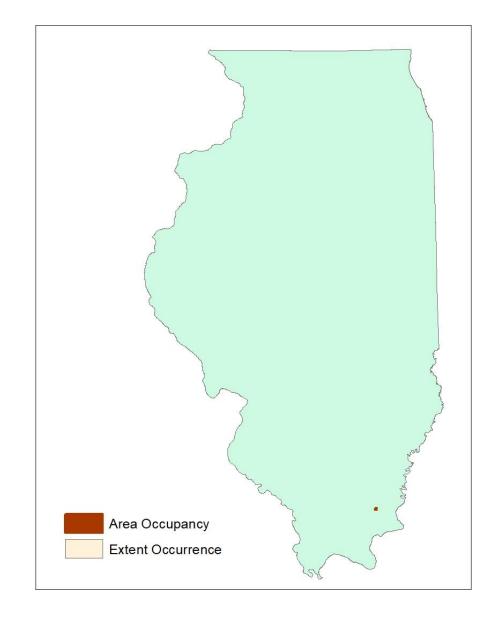
Number of

Occurrences: 1 EORs

observed 2008 to

2017

A (1-5 EORs)



Illinois Cave Amphipod (Gammarus acherondytes)

Calculated Rank: **\$1\$2**

Long-term Trend:

Declining 30-50% per NatureServe (2008)

E (Decline of 30-50%)

Threats:

6 threats/stressors

identified in IWAP 2015:

Extent, Fragmentation,

Composition-structure,

Distribution/Hydrology,

Invasives/Exotics,

Pollutants-Sediment

AC (Medium-Very High

(>4))

Rarity:

Range Extent: 179 km2 range extent per minimum

convex polygon

B (100-250 km2)

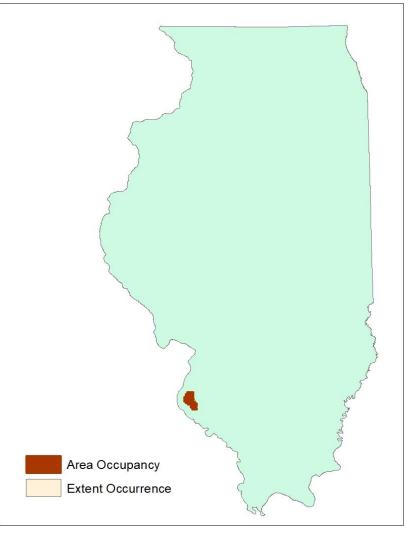
Area of Occupancy: An occupied cave system is divided into 7 units with low to medium locational certainty. The system is a minimum of 7 4-km2 grid cells and at most 54 4-km2 grid cells.

DE (6-125 4-km2 grid cells)

Number of Occurrences: **7 EORs** observed 2008 to 2017

B (5-20 EORs)

Additional Notes: Historically known from six caves or cave systems in Monroe and St. Clair Co., but a 1995 survey by Webb found it only in Monroe Co. at only three of the original six sites.



Kentucky Crayfish (Orconectes kentuckiensis)

Calculated Rank: \$1

Short-term Trend:
Trend Unknown
U (Unknown)

Threats:

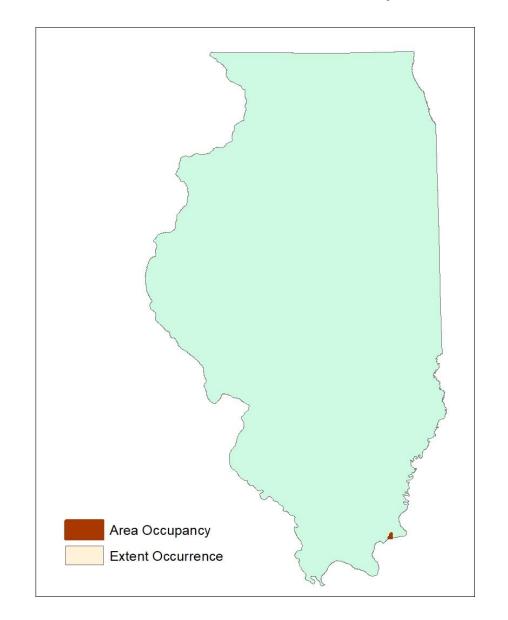
3 threats/stressors
identified in IWAP 2015:
Distribution/Hydrology,
Invasives/Exotics,
Pollutants-Sediment
BD (Low-High (1-3))

Rarity:

Range Extent: 6 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 8 1-km2 grid cells occupied B (5-10 1-km2 grid cells)

Number of Occurrences: 2 EORs observed 2008 to 2017 A (1-5 EORs)



Indiana Crayfish (Orconectes indianensis)

Calculated Rank: S2?

Short-term Trend:

Trend Unknown
U (Unknown)

Threats:

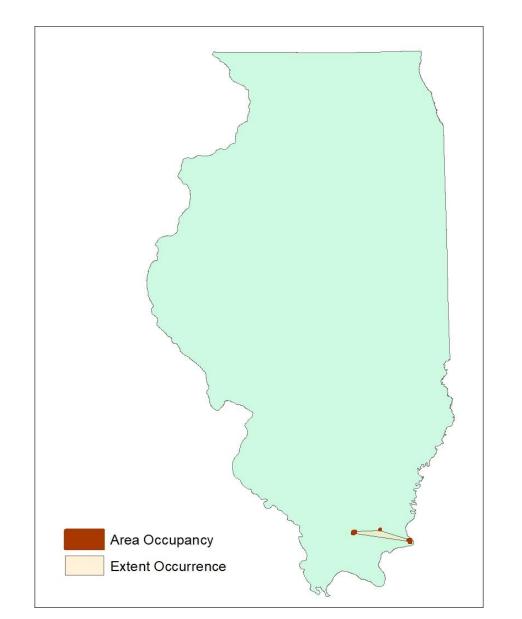
3 threats/stressors
identified in IWAP 2015:
Distribution/Hydrology,
Invasives/Exotics,
Pollutants-Sediment
BD (Low-High (1-3))

Rarity:

Range Extent: 290 km2
range extent per minimum
convex polygon
C (250-1,000 km2)

Area of Occupancy: 11 1km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: 4 **EORs** observed 2008 to
2017 **A (1-5 EORs)**



Bigclaw Crayfish (Orconectes placidus)

Calculated Rank: S1

Short-term Trend:

Trend Unknown
U (Unknown)

Threats:

3 threats/stressors identified in IWAP 2015:

Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment

BD (Low-High (1-3))

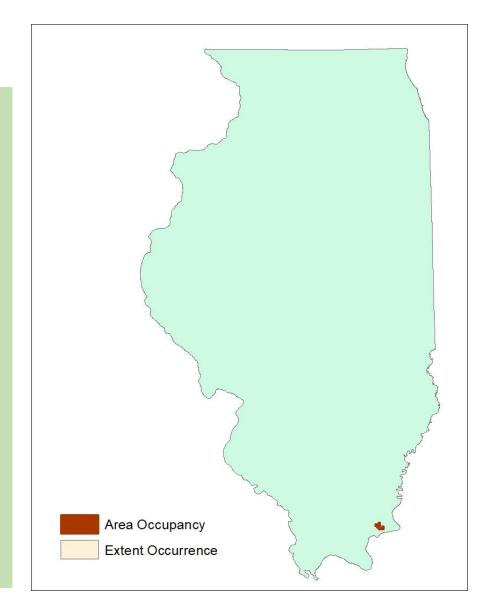
Additional Notes: Edge of Range

Rarity:

Range Extent: 26 km2
range extent per
minimum convex polygon
A (<100 km2)

Area of Occupancy: 22 1-km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: 1 EOR observed 2008 to 2017 A (1-5 EORs)



Hoary Elfin (*Incisalia polios*)

Calculated Rank: S1

Short-term Trend:

Trend Unknown U (Unknown)

Threats:

6 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Recruitment.

AC (Medium-Very High (>4))

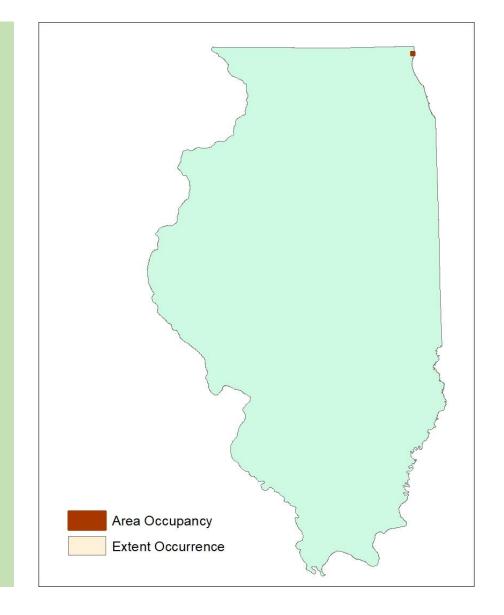
Additional Notes: Edge of range, Species name is *Callophrys polios* in IWAP

Rarity:

Range Extent: 2.6 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 4 or fewer 4-km2 grid cells occupied, EOR mapping has low certainty
A (1 4-km2 grid cells)

Number of Occurrences: 1 EORs observed 2008 to 2017 A (1-5 EORs)



Swamp Metalmark (Calephelis muticum)

Calculated Rank: S1S2

Short-term Trend:

Trend Unknown
U (Unknown)

Threats:

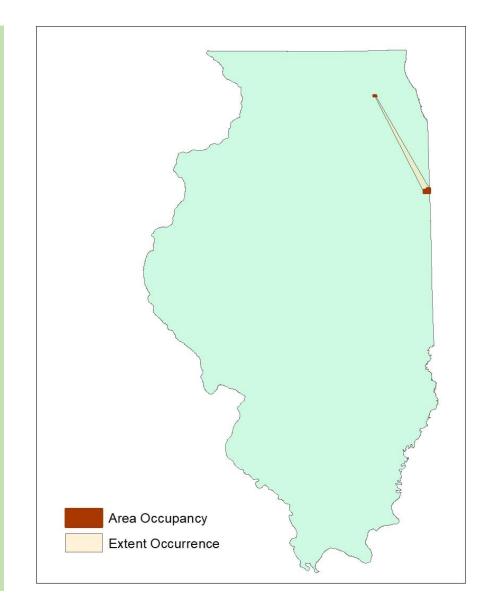
11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Prey/Food, Hosts, Genetics, Dispersal, Recruitment AC (Medium-Very High (>4))

Rarity:

Range Extent: **574 km2**range extent per
minimum convex
polygon **C (250-1,000 km2)**

Area of Occupancy: 11
4-km2 grid cells
occupied
D (6-25 4-km2 grid
cells)

Number of
Occurrences: 2 EORs
observed 2008 to 2017
A (1-5 EORs)



Regal Fritillary (Speyeria idalia)

Calculated Rank: S1S3

Short-term Trend:

Declining >10% per guidance document (Swengel and Swengel 2016).

AF(Decline of >10%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Prey/Food, Hosts, Genetics, Dispersal, Recruitment, Mortality

AC (Medium-Very High (>4))

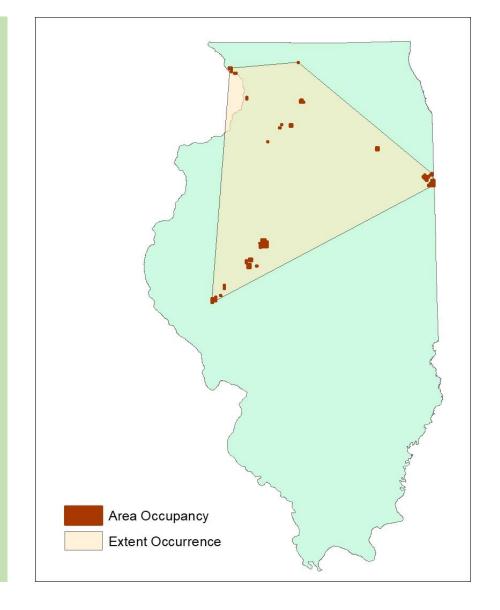
Rarity:

Range Extent: 40,642 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 74
to 81 4-km2 grid cells
occupied
E (26-125 4-km2 grid
cells)

Number of Occurrences: **16 EORs** observed 2008 to 2017

B (5-20 EORs)



Eryngium Stem Borer (*Papaipema eryngii*)

Calculated Rank: \$1\$2

Short-term Trend:

Trend Unknown
U (Unknown)

Threats:

6 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment
AC (Medium-Very High (>4))

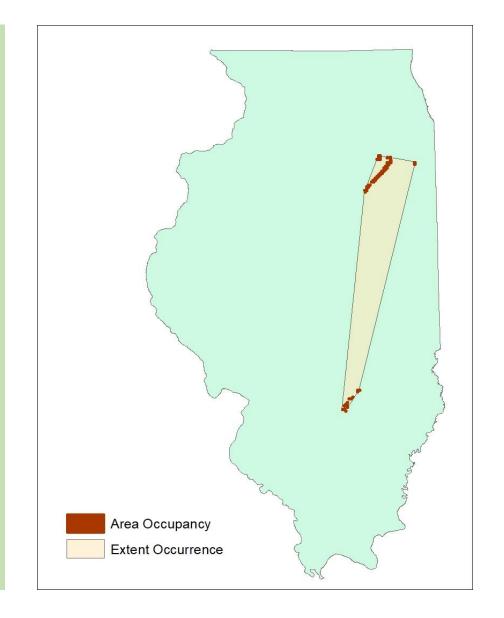
Additional Notes: Global rank G1G2. More surveys needed in IL.

Rarity:

Range Extent: 9,984 km2 range extent per minimum convex polygon E (5,000-20,000 km2)

Area of Occupancy: 62
4-km2 grid cells
occupied
E (26-125 4-km2 grid
cells)

Number of
Occurrences: 9 EORs
observed 2008 to 2017
B (5-20 EORs)



Hine's Emerald Dragonfly (Somatochlora hineana)

Calculated Rank: **\$1\$2**

Short-term Trend:

Trend Unknown

U (Unknown)

Threats:

6 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment
AC (Medium-Very High (>4))

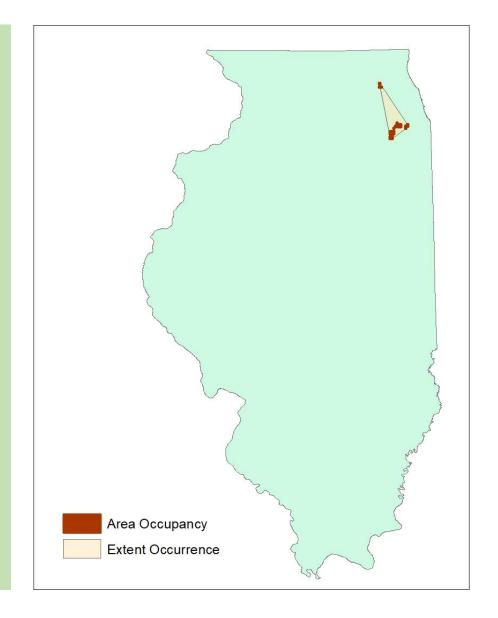
Rarity:

Range Extent: **807 km2** range extent per minimum convex polygon

C (250-1,000 km2)

Area of Occupancy: 24
4-km2 grid cells
occupied
D (6-25 4-km2 grid
cells)

Number of Occurrences: **7 EORs** observed 2008 to 2017 **B (5-20 EORs)**



Elfin Skimmer (Nannothemis bella)

Calculated Rank: \$1?

Short-term Trend:

Trend Unknown

U (Unknown)

Threats:

6 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment

AC (Medium-Very High (>4))

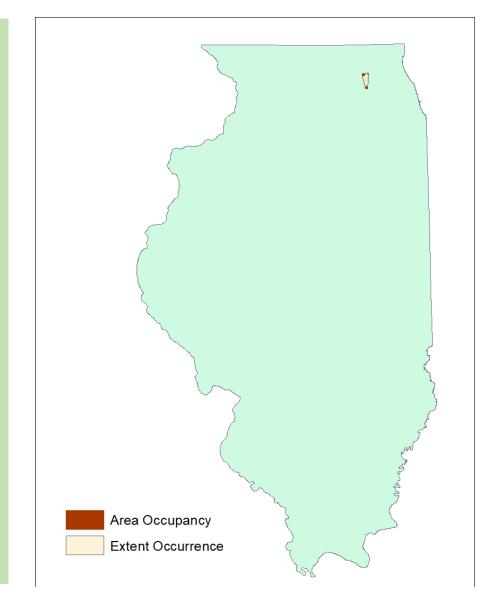
Additional Notes: Edge of Range

Rarity:

Range Extent: 93 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 3 4-km2 grid cells occupied C (3-5 4-km2 grid cells)

Number of
Occurrences: **3 EORs**observed 2008 to 2017 **A (1-5 EORs)**



Robust Springfly (*Diploperla robusta*)

Calculated Rank: S1

Short-term Trend:

BD (Low-High (1-3))

Trend Unknown

U (Unknown)

Threats:

3 threats/stressors identified in IWAP 2015: Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment

Additional Notes: Possibly edge of range

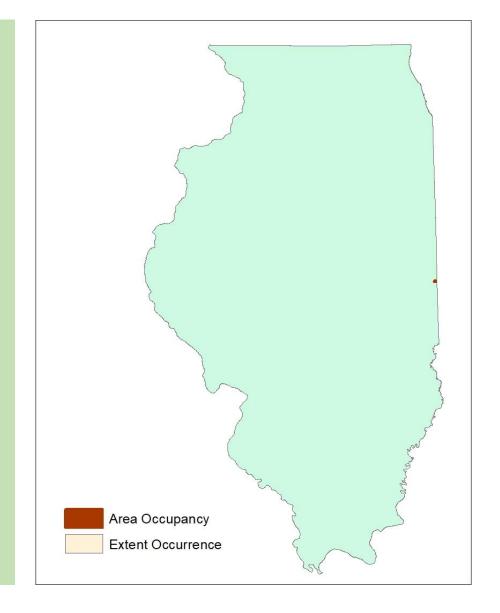
Rarity:

Range Extent: <1 km2
range extent per
minimum convex
polygon

A (<100 km2)

Area of Occupancy: 1
4-km2 grid cells
occupied
A (1 4-km2 grid cells)

Number of
Occurrences: 1 EORs
observed 2008 to
2017
A (1-5 EORs)



Common Striped Scorpion (Centruroides vittatus)

Calculated Rank: S1S2

Short-term Trend:

Trend Unknown
U (Unknown)

Threats:

3 threats/stressors
identified in IWAP 2015:
Composition-structure,
Invasives/Exotics,
Dispersal
BD (Low-High (1-3))

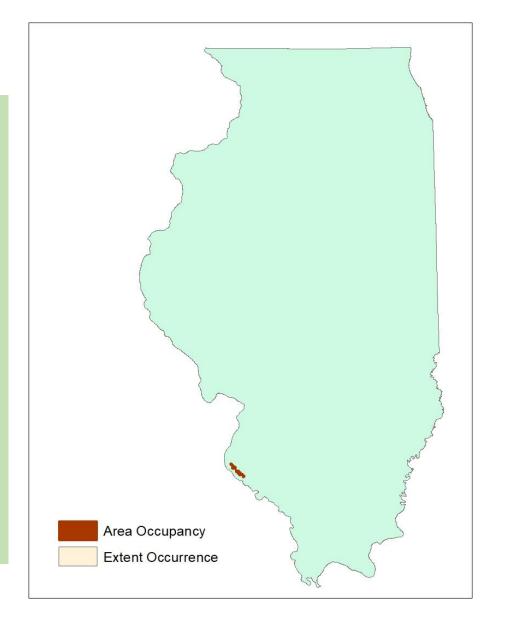
Additional Notes: Edge of range

Rarity:

Range Extent: 19 km2
range extent per
minimum convex polygon
A (<100 km2)

Area of Occupancy: **10** 4-km2 grid cells occupied **D** (6-25 4-km2 grid cells)

Number of Occurrences: 2 EORs observed 2008 to 2017 A (1-5 EORs)



Hydrobiid cave snail (Fontigens antroecetes)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

9 threats/stressors identified in IWAP 2015: Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Genetics, Dispersal, Recruitment, Mortality, Structures/Infrastructure AC (Medium-Very High (>4))

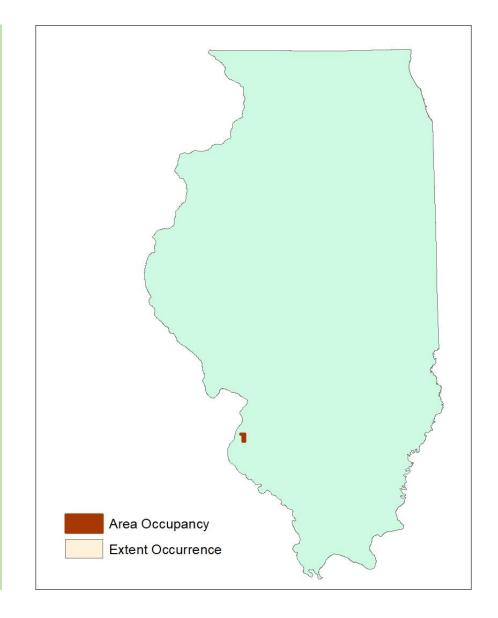
Additional Notes: Common name is Missouri cave snail in IWAP

Rarity:

Range Extent: 24 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 11
4-km2 grid cells
occupied
CD (3-25 4-km2 grid
cells)

Number of
Occurrences: 1 EOR
observed 2008 to 2017
A (1-5 EORs)



Shawnee Rocksnail (*Lithasia obovata*)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Invasive/Exotics, Genetics, Dispersal, Recruitment, Mortality, Structures/Infrastructure
AC (Medium-Very High (>4))

Additional Notes: Most historic EORs have not been revisited.

Rarity:

Range Extent: 104 km2

range extent per

minimum convex

polygon

B (100-250 km2)

Click to add text Area of Occupancy: 6 1-km2 grid cells occupied B (5-10 1-km2 grid

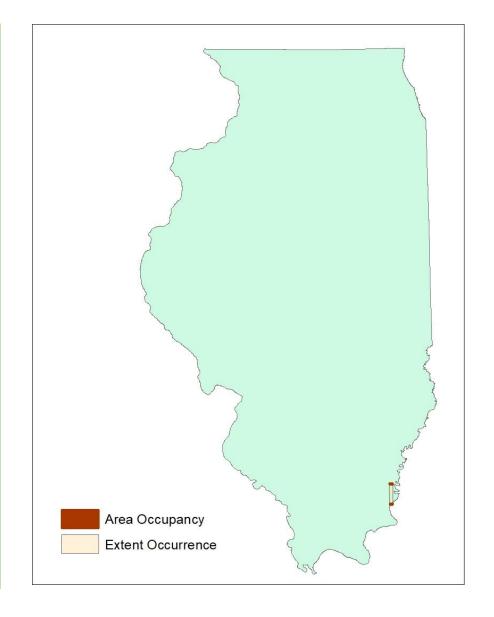
cells)

Number of

Occurrences: 2 EORs

observed 2008 to 2017

A (1-5 EORs)



Lake Sturgeon (Acipenser fulvescens)

Calculated Rank: \$1?

Short-term Trend:

Declining 50 to 100% per

IWAP 2015

AD (Decline of >50%)

Threats:

5 threats/stressors
identified in IWAP 2015:
Composition-structure,
Distribution/Hydrology,
Pollutants-Sediment,
Mortality,
Structures/Infrastructure
AC (Medium-Very High)

Rarity:

Range Extent: **74,041 km2** range extent

per minimum convex polygon

F (20,000-200,000 km2)

Area of Occupancy: 40 1-km2 grid cells

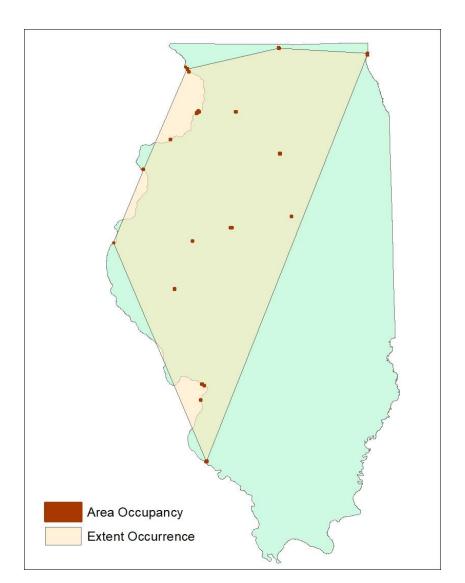
occupied

D (21-100 1-km2 grid cells)

Number of Occurrences: 18 EORs

observed 2008 to 2017

B (6-20 EORs)



Alabama shad (*Alosa alabamae*)

Calculated Rank: SH

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

3 threats/stressors identified by IDNR staff: Structures, Sedimentation, Chemical Pollutants.

BD (low-High)

Additional Notes: Two old Mississippi records from 1930 and 1962 (Smith 1979)

Rarity:

Range Extent: No observations in last ten years. ZA (Zero to <100 km2)

Area of Occupancy: No observations in last ten years

U (Unknown)

Number of Occurrences: No observations in last ten years.

ZA (0-5 EORs)

Brown Bullhead (Ameiurus nebulosus)

Calculated Rank: S3S4

Short-term Trend:

Increasing 25 to 50% per IWAP 2015

I (Increase of >25%)

Threats:

3 threats/stressors
identified in IWAP 2015:
Extent, Compositionstructure, PollutantsSediment
BD (low-High)

Rarity:

Range Extent: **99,187.7 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: 45 1-km2 grid

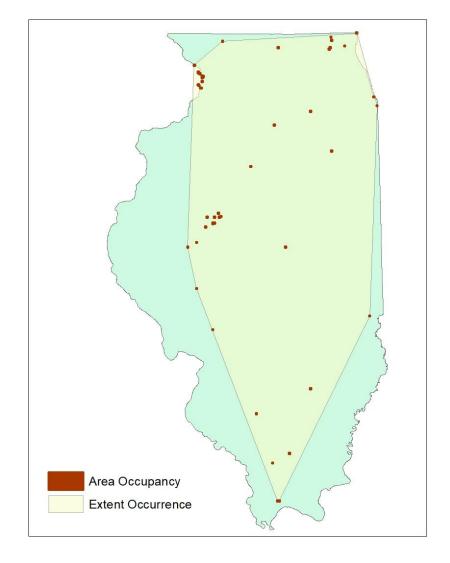
cells occupied

D (21-100 1-km2 grid cells)

Number of Occurrences: 36 EORs

observed 2008 to 2017

C (21-80 EORs)



Western Sand Darter (Ammocrypta clarum)

Calculated Rank: S2S3

Short-term Trend:

Increasing 40 to 100% per IWAP 2015

I (Increase of >25%)

Threats:

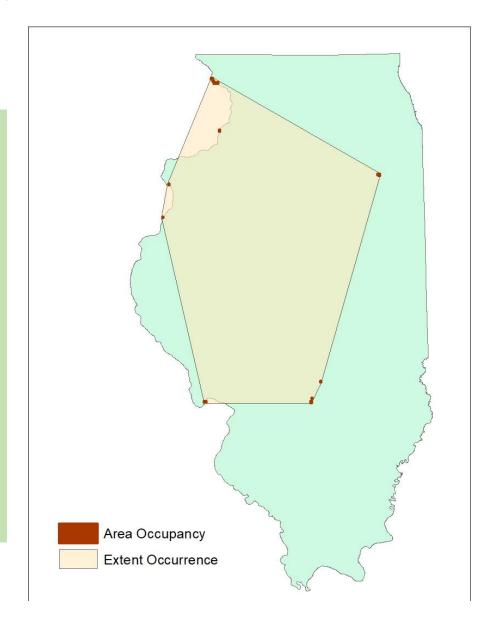
4 threats/stressors
identified in IWAP 2015:
Composition-structure,
Distribution/Hydrology,
Pollutants-Sediment,
Structures/Infrastructure
AC (Medium-Very High)

Rarity:

Range Extent: **64,024 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: 19 1-km2 grid cells occupied
C (11-20 1-km2 grid cells)

Number of Occurrences: **10 EORs** observed 2008 to 2017 **B (6-20 EORs)**



Eastern Sand Darter (Ammocrypta pellucidum)

Calculated Rank: \$3\$4

Short-term Trend:

Increasing (50 to 100%) per

IWAP 2015

I (increase of >25%)

Threats:

3 threats/stressors
identified in IWAP 2015:
Extent, Pollutants-Sediment,
Structures/Infrastructure
BD (Low-High)

Additional Notes: Edge of range, S4 in IN

Rarity:

Range Extent: **8,291.7 km2** range extent per minimum convex polygon

E (5,000-20,000 km2)

Area of Occupancy: 22 1-km2 grid

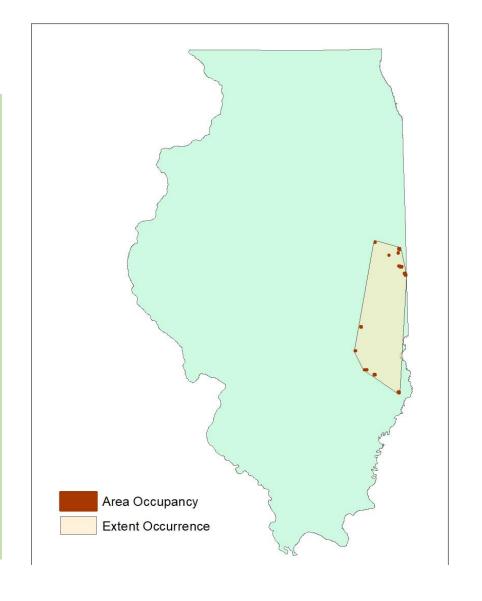
cells occupied

D (21-100 1-km2 grid cells)

Number of Occurrences: 11 EORs

observed 2008 to 2017

B (6-20 EORs)



American Eel (Anguilla rostrata)

Calculated Rank: **\$1\$3**

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >70%)

Threats:

2 threats/stressors identified in IWAP 2015: Dispersal, Structures/Infrastructure. Additional threats identified by NatureServe including oceanic conditions, habitat destruction, barriers, hydro-turbines, overfishing, predation, parasitism, and contaminants BD (Low-High (1-3))

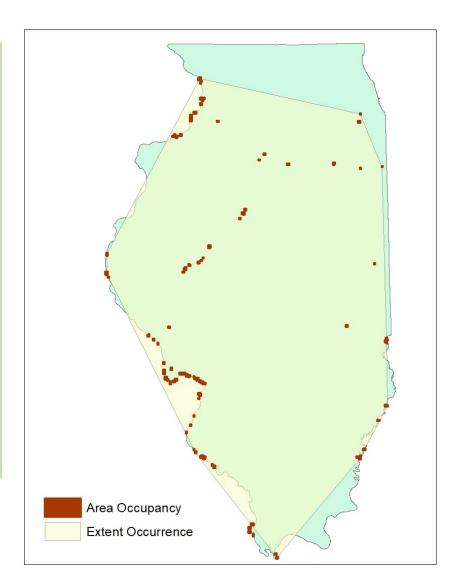
Rarity:

Range Extent: 131,290.9 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 255 1-km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: **67 EORs** observed 2008 to 2017 **C (21-80 EORs)**

Additional Notes: Premature delisting opinion?



Alligator Gar (Atractosteus spatula)

Calculated Rank: S1

Short-term Trend:

Increasing 50 to 100% per IWAP 2015

I (Increase of >25%)

Threats:

7 threats/stressors identified by IDNR Staff:

Habitat Extent, Fragmentation, Habitat composition, Genetics, Dispersal,

Recruitment, Structures.

AC (Medium-Very High (>4))

Additional Notes: No non-stocked species data available for Illinois, stocked species with ecological potential, Natureserve- exotic SNA?

Rarity:

Range Extent: No observations in last

10 years

U (Unknown)

Area of Occupancy: No observations in last 10 years
U (Unknown)

Number of Occurrences: No observations in last 10 years U (Unknown)

Largescale Stoneroller (Campostoma oligolepis)

Calculated Rank: \$3\$4

Short-term Trend:

Increasing 50 to 100% per

IWAP 2015

I (Increase of >25%)

Threats:

1 threat/stressor identified in IWAP 2015: Extent BD (Low-High (1-3))

Rarity:

Range Extent: **33,612.8 km2** range extent per minimum convex polygon.

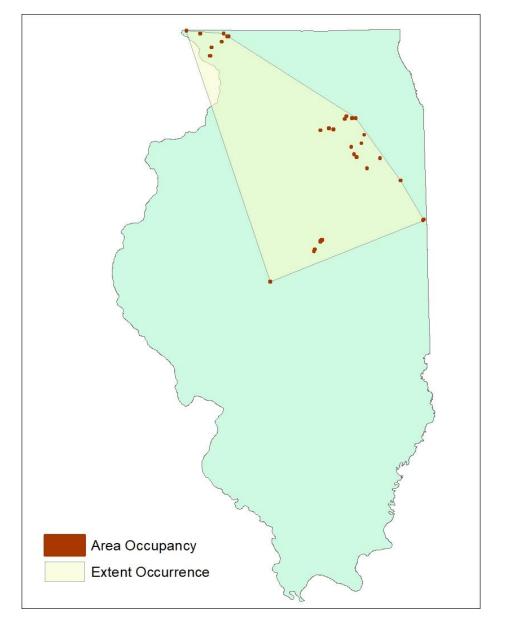
F (20,000-200,000 km2)

Area of Occupancy: 32 1-km2 grid cells occupied.

D (21-100 1-km2 grid cells)

Number of Occurrences: **26 EORs** observed 2008 to 2017.

C (21-80 EORs)



Longnose Sucker (Catostomus catostomus)

Calculated Rank: **\$1\$2**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

4 threats/stressors identified in IWAP 2015: Invasives/Exotics, Pollutants-Sediment, Dispersal, Structures/Infrastructure AC (Medium-Very High (>4))

Additional Notes: edge of range, secure to the north

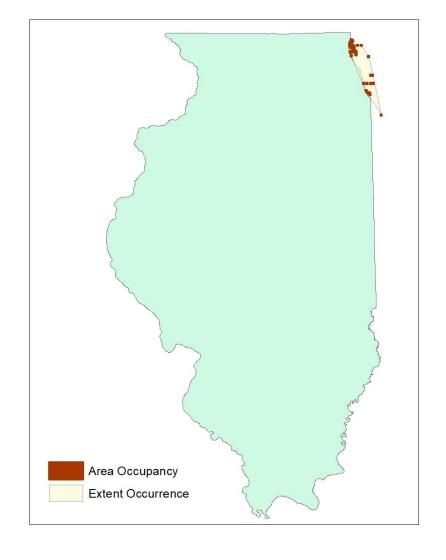
Rarity:

Range Extent:

988.37 km2 range extent per minimum convex polygon C (250-1,000 km2)

Area of Occupancy: **52**1-km2 grid cells
occupied **D(21-100 1-km2 grid**cells)

Number of Occurrences: 12 EORs observed 2008 to 2017 B (6-20 EORs)



Flier (Centrarchus macropterus)

Calculated Rank: **S2S3**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

3 threats/stressors identified in IWAP 2015: Extent, Composition-structure, Pollutants-Sediment BD (Low-High (1-3))

Additional Notes: edge of range, secure to the north

Rarity:

Range Extent:

10,927.4 km2 range extent per minimum convex polygon E (5,000-20,000 km2)

Area of Occupancy: **18** 1-km2 grid cells

occupied

C (11-20 1-km2 grid

cells)

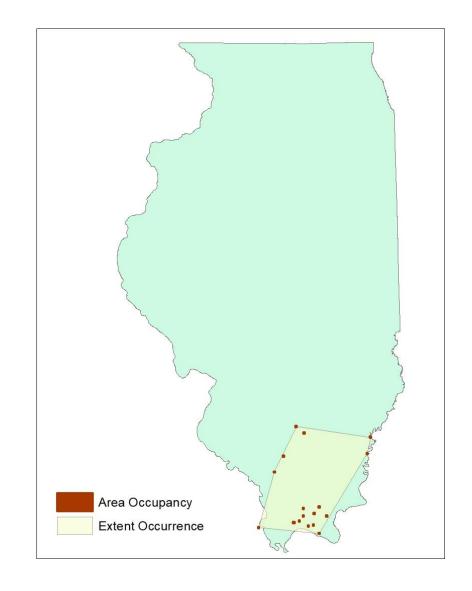
Number of

Occurrences: 17

EORs observed 2008

to 2017

B (5-20 EORs)



Redside Dace (Clinostomus elongatus)

Calculated Rank: SU

Short-term Trend:

Increasing 50 to 100% per IWAP 2015

I (Increase of >25%)

Threats:

2 threats/stressors identified by IDNR

Staff: Habitat Extent, Habitat

Composition.

BD (Low-High (1-3))

Rarity:

Range Extent: No observations in last ten years.

ZA (Zero to <100 km2)

Area of Occupancy: No observations in last ten

years

ZA (Zero to 4 1-km2 grid cells)

Number of Occurrences: No observations in last

ten years.

ZA (0-5 EORs)

Additional Notes: One species record in IL from 2000. Targeted surveys in 2011 did not find the species in IL, but located it <0.5 km upstream in WI (Tiemann 2012). Edge of range; S3 in WI.

Cisco (Coregonus artedi)

Calculated Rank: SH

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

5 threats/stressors identified in IWAP 2015: Invasives/Exotics, Pollutants-Sediment, Competitors, Predators, Mortality AC (Medium-Very High (>4)) Rarity:

Range Extent: No observations in last ten years. U (Unknown)

Area of Occupancy: No observations in last ten years
U (Unknown)

Number of Occurrences: No observations in last ten years.

ZA (0-5 EORs)

Additional Notes: No species data for Illinois from the last ten years, Lake Michigan species- rescue effect?

Lake Whitefish (Coregonus clupeaformis)

Calculated Rank: S2S3

Short-term Trend:

Stable -25 to 25% per IWAP 2015

G (Relatively Stable <=10%)

Threats:

1 threats/stressors identified in IWAP 2015: Invasives/Exotics BD (Low-High (1-3))

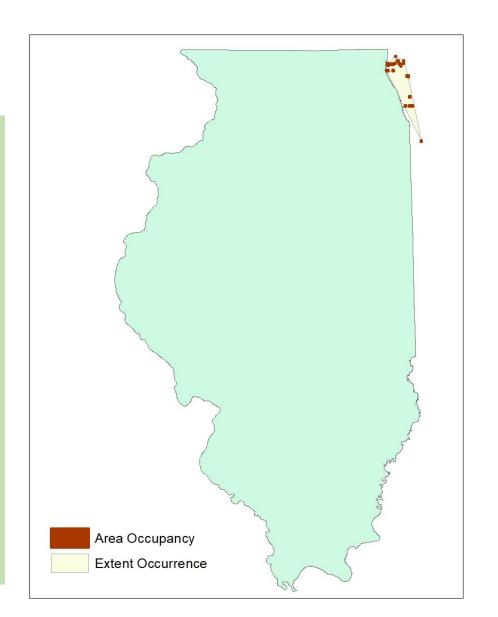
Additional Notes: edge of range

Rarity:

Range Extent: **885.2 km2** range extent per minimum convex polygon **C (250-1,000 km2)**

Area of Occupancy: **25** 1-km2 grid cells occupied **D** (**21-100** 1-km2 grid cells)

Number of Occurrences: 13 EORs observed 2008 to 2017 B (5-20 EORs)



Bloater (Coregonus hoyi)

Calculated Rank: S2S3

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

2 threats/stressors identified by IDNR Staff: Competitors, Mortality.

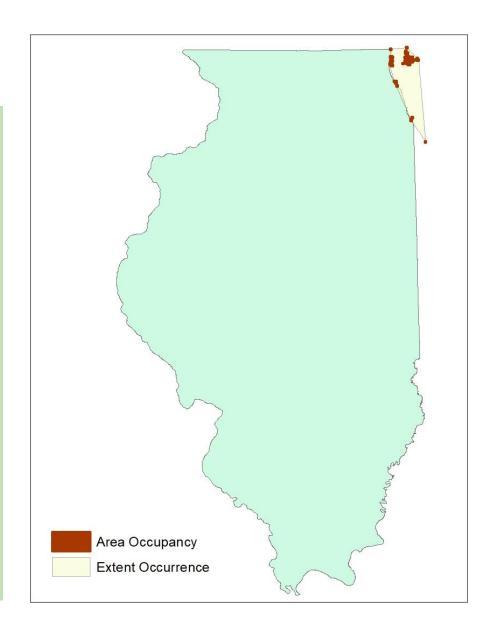
BD (Low-High (1-3))

Rarity:

Range Extent: **1,588.6 km2** range extent per minimum convex polygon **D (1,000-5,000 km2)**

Area of Occupancy: **87** 1-km2 grid cells occupied **D** (**21-100** 1-km2 grid cells)

Number of Occurrences: 8 EORs observed 2008 to 2017 B (6-20 EORs)



Slimy Sculpin (Cottus cognatus)

Calculated Rank: S1

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

3 threats/stressors identified by IDNR Staff: Habitat Extent, Habitat Composition, Climate Change.

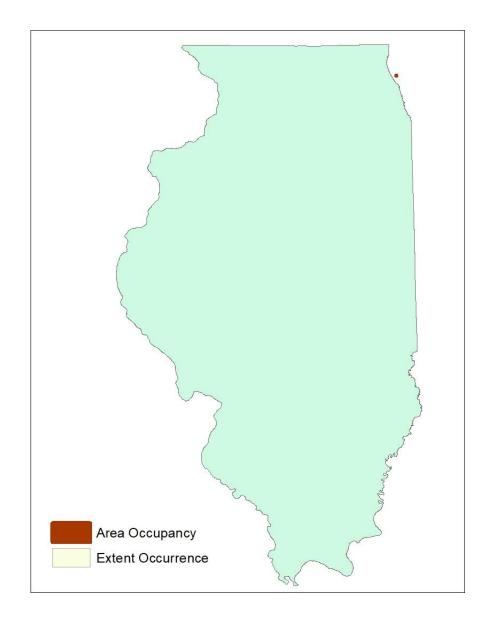
BD (Low-High (1-3))

Rarity:

Range Extent: <1 km2
range extent per
minimum convex polygon
A (<100 km2)

Area of Occupancy: 1 1-km2 grid cells occupied A (1-4 1-km2 grid cells)

Number of Occurrences: 1 EORs observed 2008 to 2017 A (1-5 EORs)



Lake Chub (Couesius plumbeus)

Calculated Rank: **S2S3**

Short-term Trend:

Increasing 50 to 100% per IWAP 2015

I (Increase of >25%)

Threats:

2 threats/stressors identified by IDNR Staff: Habitat Extent, Climate Change. BD (Low-High (1-3)) Rarity:

Range Extent: 376.9 km2

range extent per

minimum convex

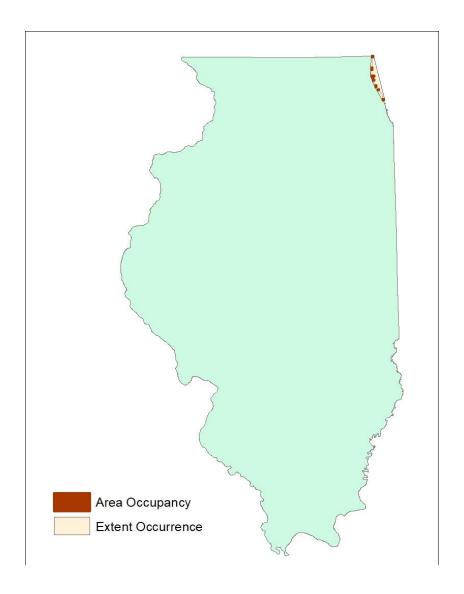
polygon

C (250-1,000 km2)

Area of Occupancy: 11 1km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: **7 EORs** observed 2008 to 2017

B (6-20 EORs)



Crystal Darter (Crystallaria asprella)

Calculated Rank: \$1

Short-term Trend:

Increasing 25 to 50% per

IWAP 2015

I (Increase of >25%)

Threats:

2 threats/stressors

identified per IWAP 2015:

dispersal and

Structures/Infrastructure.

NatureServe identifies siltation and altered hydrology as very high to high threat impacts.

BD (Low-High (1-3))

Rarity:

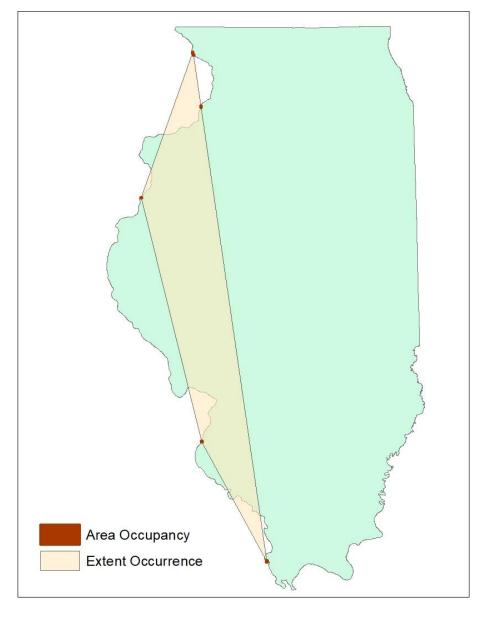
Range Extent: **27,314.2 km2** range extent per minimum convex polygon

F (20,000-200,000 km2)

Area of Occupancy: 8 1-km2 grid cells occupied

B (5-10 1-km2 grid cells)

Number of Occurrences: **5 EORs** observed 2008 to 2017 **A (1-5 EORs)**



Blacktail Shiner (Cyprinella venusta)

Calculated Rank: S1

Short-term Trend:

Increasing 50 to 100% per

IWAP 2015

I (Increase of >25%)

Threats:

2 threats/stressors

identified in IWAP 2015:

Extent, Pollutants-Sediment

BD (Low-High (1-3))

Additional Notes: edge of range

Rarity:

Range Extent: **6,582.2**

km2 range extent per

minimum convex

polygon

E (5,000-20,000 km2)

Area of Occupancy: **9** 1-km2 grid cells occupied

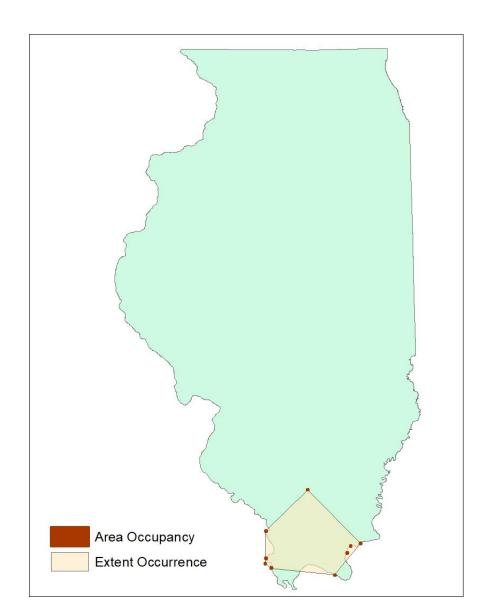
B (5-10 1-km2 grid cells)

Number of Occurrences:

9 EORs observed 2008 to

2017

B (5-20 EORs)



Banded Pygmy Sunfish (*Elassoma zonatum*)

Calculated Rank: S1

Short-term Trend:

Increasing 25 to 50% per

IWAP 2015

I (Increase of >25%)

Threats:

4 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Compositionstructure, Dispersal AC (Medium-Very High (>4))

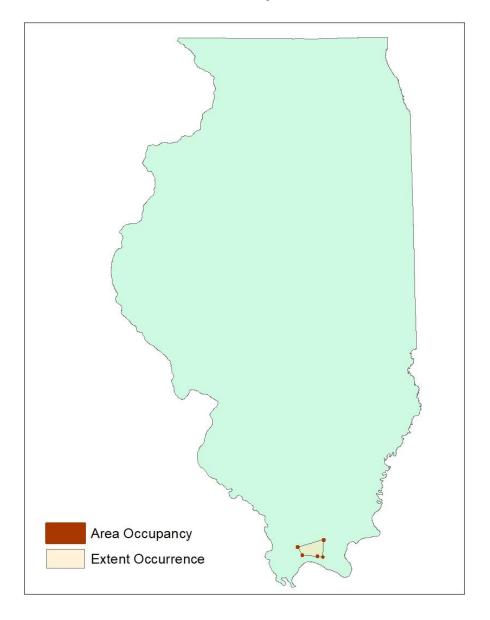
Additional Notes: Edge of range

Rarity:

Range Extent: **370 km2**range extent per minimum
convex polygon
C (250-1,000 km2)

Area of Occupancy: 5 1-km2 grid cells occupied B (5-10 1-km2 grid cells)

Number of Occurrences: **5 EORs** observed 2008 to 2017 **A (1-5 EORs)**



Gravel Chub (*Erimystax x-punctatus*)

Calculated Rank: \$3?

Short-term Trend:

Increasing 25 to 50% per

IWAP 2015

I (Increase of >25%)

Threats:

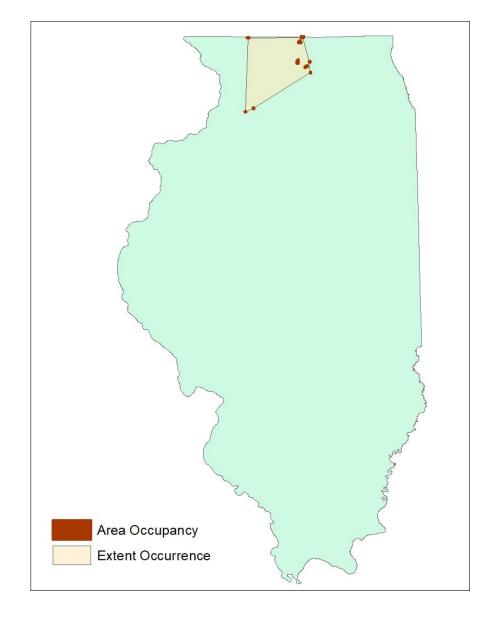
2 threats/stressors identified in IWAP 2015: Pollutants-Sediment,
Structures/Infrastructure
BD (Low-High (1-3))

Rarity:

Range Extent: **4,342 km2** range extent per minimum convex polygon **D** (**1,000-5,000 km2**)

Area of Occupancy: 27 1km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: 9
EORs observed 2008 to
2017
B (5-20 EORs)



Northern Pike (*Esox lucius*)

Calculated Rank: S2?

Short-term Trend:

Declining 25 to 50% per

IWAP 2015

E (Decline of 30-50%)

Threats:

5 threats/ stressors
identified in IWAP 2015:
extent, fragmentation,
composition-structure,
pollution-sediment,
recruitment
AC (Medium-Very High
(>4))

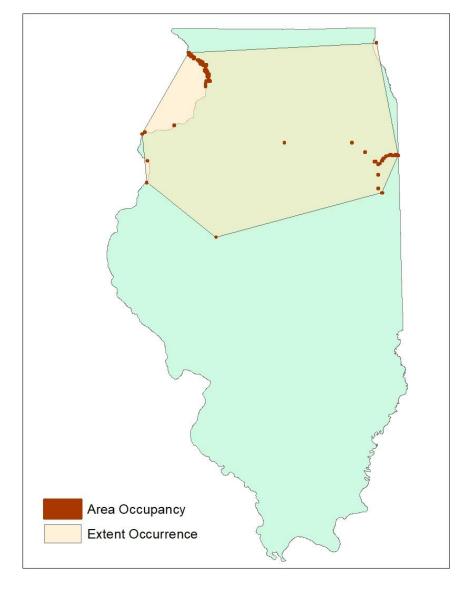
Rarity:

Range Extent: 50,883.3 km2 range extent per minimum convex polygon. F (20,000-200,000 km2)

Area of Occupancy: **84** 1-km2 grid cells occupied. **D (21-100 1-km2 grid cells)**

Number of Occurrences: **23 EORs** observed 2008 to 2017.

C (21-80 EORs)



Additional Notes: sRank based off of non-stocked populations. Additional stocked populations in Bloomington.

Muskellunge (*Esox masquinongy*)

Calculated Rank: SU

Short-term Trend:

Increasing 50 to 100% per IWAP 2015

I (Increase of >25%)

Threats:

3 threats/stressors identified by IDNR Staff: Habitat Structure, Recruitment, Mortality.

BD (Low-High (1-3))

Additional Notes: No non-stocked species data available for Illinois, stocked game species, Natureserve- exotic SNA?

Rarity:

Range Extent: No observations in last

ten years

U (Unknown)

Area of Occupancy: No observations in

last ten years

U (Unknown)

Number of Occurrences: No

observations in last ten years

U (Unknown)

Bluebreast Darter (Etheostoma camurum)

Calculated Rank: **S2S3**

Short-term Trend:

Increasing 25-50% per IWAP 2015

I (Increase of >25%)

Threats:

2 threats/stressors identified in IWAP 2015:Pollutants-Sediment,
Structures/Infrastructure
BD (Low-High (1-3))

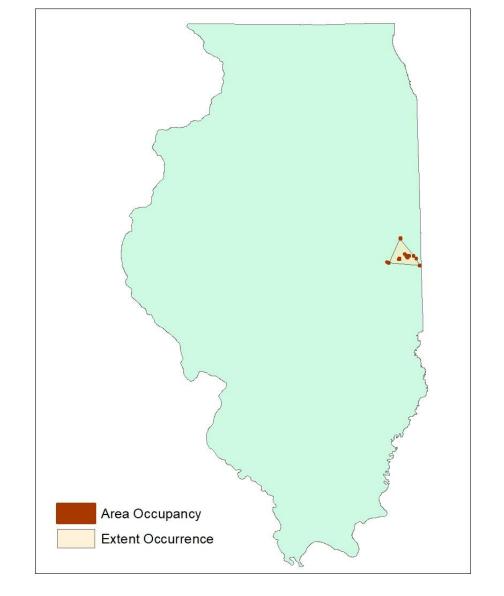
Additional Notes: Edge of range, S3 in Indiana

Rarity:

Range Extent: **549 km2**range extent per
minimum convex polygon **C (250-1,000 km2)**

Area of Occupancy: 16 1-km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: 8 EORs observed 2008 to 2017 B (5-20 EORs)



Fringed Darter (Etheostoma crossopterum)

Calculated Rank: S1

Short-term Trend:

Increasing 50 to 100% per

IWAP 2015

I (Increase of >25%)

Threats:

3 threats/stressors identified by IDNR Staff: Habitat Extent, Habitat Composition, Sedimentation.

BD (Low-High (1-3))

Rarity:

Range Extent: 145 km2

range extent per

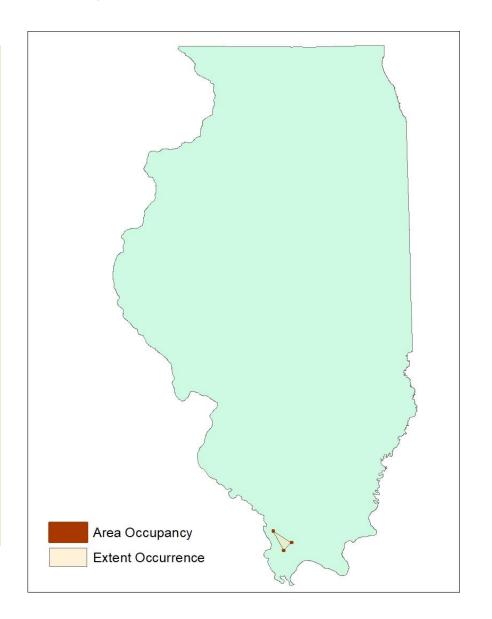
minimum convex

polygon

B (100-250 km2)

Area of Occupancy: 3 1-km2 grid cells occupied A (1-4 1-km2 grid cells)

Number of Occurrences: **3 EORs** observed 2008 to 2017 **A (1-5 EORs)**



Iowa Darter (Etheostoma exile)

Calculated Rank: S2?

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

6 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Compositionstructure,

Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment.

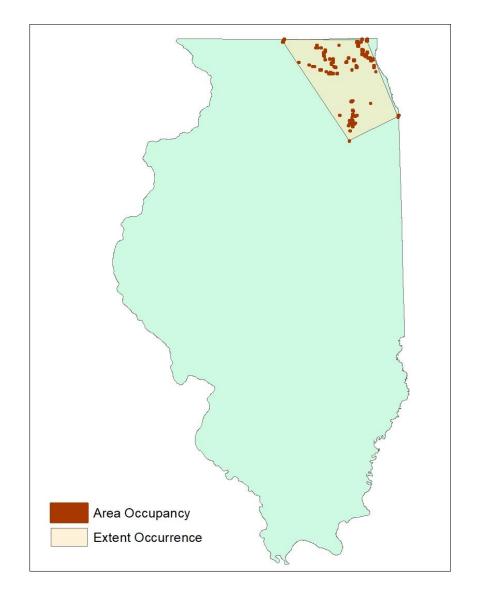
AC (Medium-Very High (>4))

Rarity:

Range Extent: **9,071 km2** range extent per minimum convex polygon **E (5,000-20,000 km2)**

Area of Occupancy: 135 1km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: **59 EORs** observed 2008 to 2017 **C (21-80 EORs)**



Harlequin Darter (Etheostoma histrio)

Calculated Rank: **S1S2**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

5 threats/stressors identified in IWAP 2015: Extent, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Structures/Infrastructure AC (Medium-Very High (>4))

Additional Notes: Could be down ranked due to recue effect but need more data on connectivity. S3 in IN, S4 in KY. Edge of range.

Rarity:

Range Extent: 249

evtent ner

km2 range extent per

minimum convex

polygon

C (250-1,000 km2)

Area of Occupancy: 25

1-km2 grid cells

occupied

D (21-100 1-km2 grid

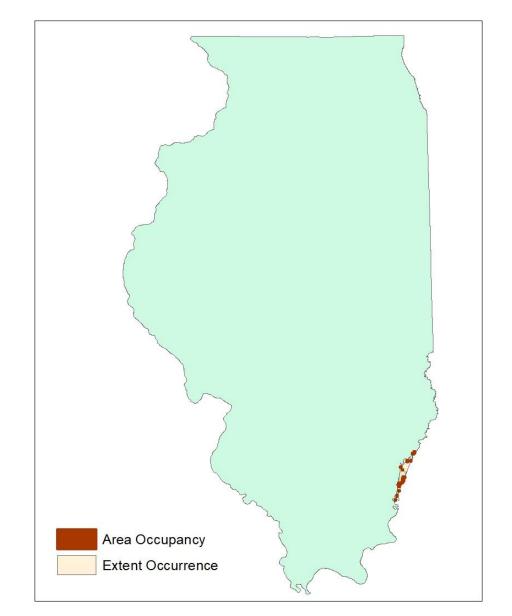
cells)

Number of

Occurrences: 11 EORs

observed 2008 to 2017

B (5-20 EORs)



Stripetail Darter (Etheostoma kennicotti)

Calculated Rank: \$1?

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

3 threats/stressors identified by

IDNR Staff: Habitat

Extent, Habitat Composition,

Sedimentation.

BD (Low-High (1-3))

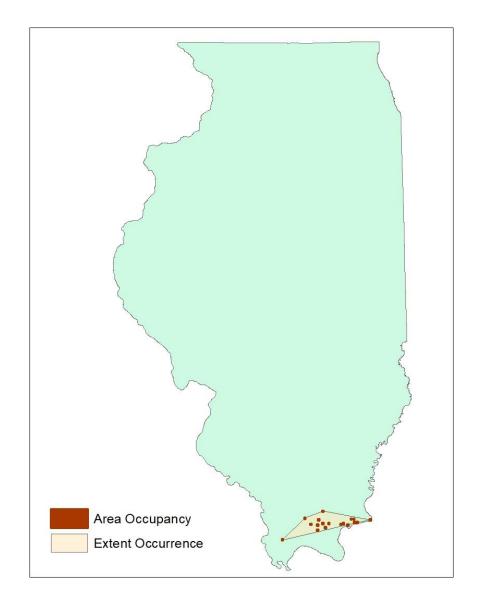
Additional Notes: Edge of range?

Rarity:

Range Extent: 1,318 km2
range extent per minimum
convex polygon
D (1,000-5,000 km2)

Area of Occupancy: 18 1km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: **14 EORs** observed 2008 to 2017 **B (6-20 EORs)**



Least Darter (Etheostoma microperca)

Calculated Rank: \$3?

Short-term Trend:

Increasing 50 to 100% per IWAP 2015

I (Increase of >25%)

Threats:

3 threats/stressors identified by IDNR

Staff: Habitat

Extent, Habitat Composition,

Fragmentation.

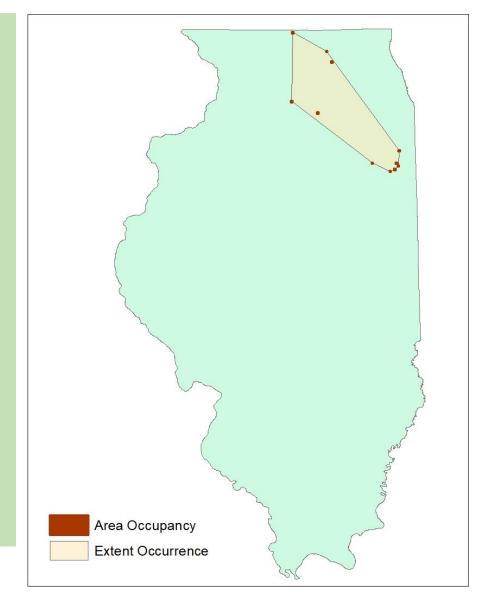
BD (Low-High (1-3))

Rarity:

Range Extent: **7,920.3** km2 range extent per minimum convex polygon E (5,000-20,000 km2)

Area of Occupancy: 11 1-km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: 11 EORs observed 2008 to 2017 B (6-20 EORs)



Cypress Darter (Etheostoma proeliare)

Calculated Rank: S1

Short-term Trend:

Increasing 50 to 100% per IWAP 2015

I (Increase of >25%)

Threats:

1 threat/stressor identified in IWAP

2015: Pollutants-Sediment

BD (Low-High (1-3))

Rarity:

Range Extent: 452.9

km2 range extent per

minimum convex

polygon

C (250-1,000 km2)

Area of Occupancy: 4

1-km2 grid cells

occupied

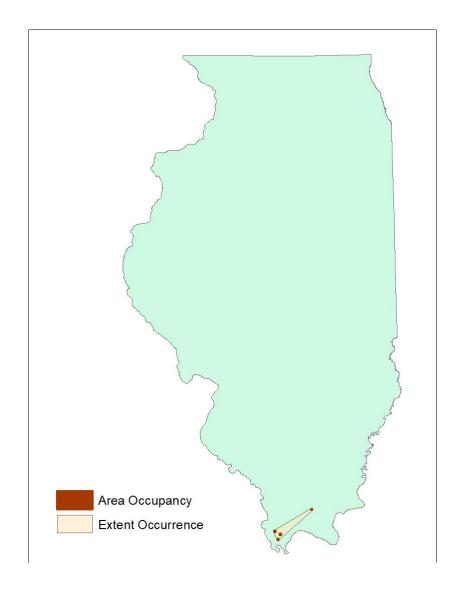
A (1-4 1-km2 grid cells)

Number of

Occurrences: 4 EORs

observed 2008 to 2017

A (1-5 EORs)



Spottail Darter (Etheostoma squamiceps)

Calculated Rank: **\$2\$3**

Short-term Trend:
Stable (-25 to 25%) per
IWAP 2015
G (Relatively Stable <=10%)

Threats:

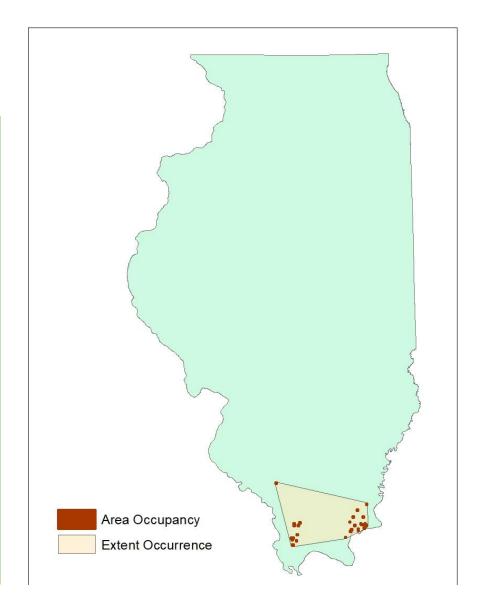
3 threats/stressors
identified in IWAP 2015:
Extent, Fragmentation,
Distribution/Hydrology
BD (Low-High (1-3))

Rarity:

Range Extent: **5,591.63 km2** range extent per minimum convex polygon **E (5,000-20,000 km2)**

Area of Occupancy: 29 1km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: **20 EORs** observed 2008 to 2017 **B (6-20 EORs)**



Spring Cavefish (Forbesichthys agassizii)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per

IWAP 2015

AD (Decline of >50%)

Threats:

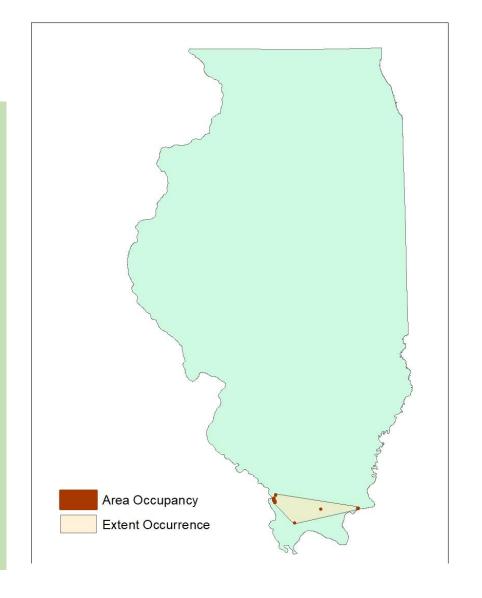
3 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Compositionstructure
BD (Low-High (1-3))

Rarity:

Range Extent: **1,955.53 km2** range extent per minimum convex polygon **D** (**1,000-5,000 km2**)

Area of Occupancy: **7** 1-km2 grid cells occupied **B** (5-10 1-km2 grid cells)

Number of Occurrences: **5 EORs** observed 2008 to 2017 **A (1-5 EORs)**



Banded Killifish (Fundulus diaphanus)

Calculated Rank: \$3\$4

Short-term Trend:

Increasing 50 to 100% per

IWAP 2015

I (Increase of >25%)

Threats:

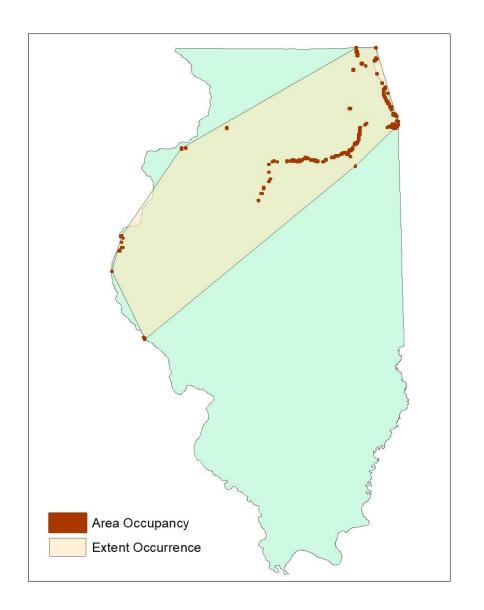
4 threats/stressors
identified in IWAP 2015:
Extent, Compositionstructure, PollutantsSediment, Predators
AC (Medium-Very High
(>4))

Rarity:

Range Extent: 48,333.8 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 223 1km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: **47 EORs** observed 2008 to 2017 **C (21-80 EORs)**



Starhead Topminnow (Fundulus dispar)

Calculated Rank: S3S4

Short-term Trend:
Increasing 50 to 100% per
IWAP 2015
I (Increase of >25%)

Threats:

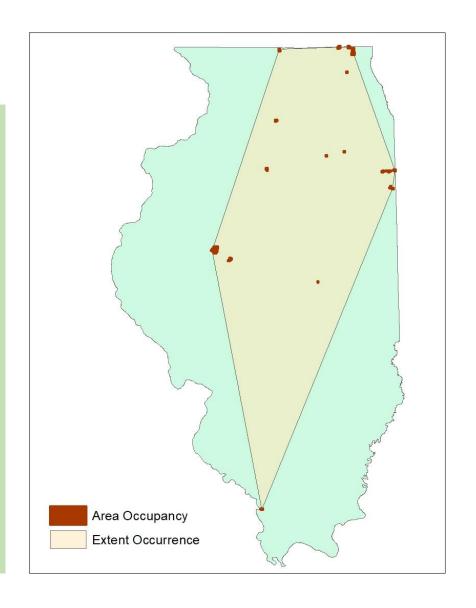
5 threats/stressors identified in IWAP 2015: Extent,
Composition-structure,
Distribution/Hydrology,
Pollutants-Sediment,
Predators
AC (Medium-Very High (>4))

Rarity:

Range Extent: **65,906 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: 97 to
101 1-km2 grid cells
occupied
DE (21-500 1-km2 grid cells)

Number of Occurrences: 21 EORs observed 2008 to 2017 C (21-80 EORs)



Mooneye (*Hiodon tergisus*)

Calculated Rank: **S2S3**

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats/Stressors:

1 threat/stressor identified by

IDNR Staff: Habitat

Composition.

CD (Low-Medium (1-3))

Rarity:

Range Extent: **128,448.2 km2**

range extent per minimum

convex polygon

F (20,000-200,000 km2)

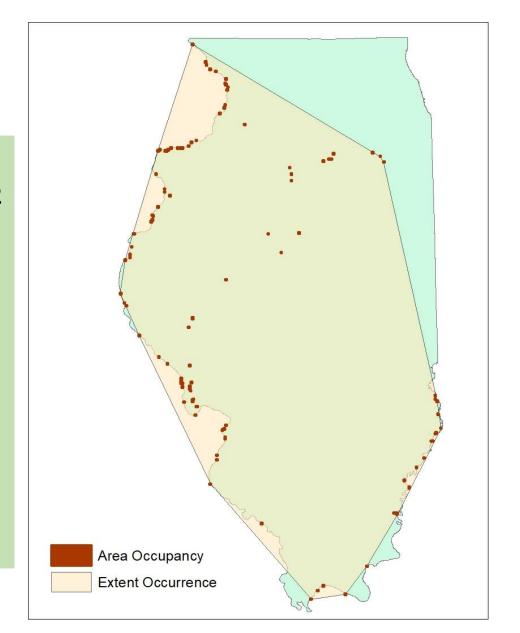
Area of Occupancy: **113** 1-km2 grid cells occupied

E (101-500 1-km2 grid cells)

Number of Occurrences: 83

EORs observed 2008 to 2017

D (81-300 EORs)



Brassy Minnow (Hybognathus hankinsoni)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per

IWAP 2015

AD (Decline of >50%)

Threats:

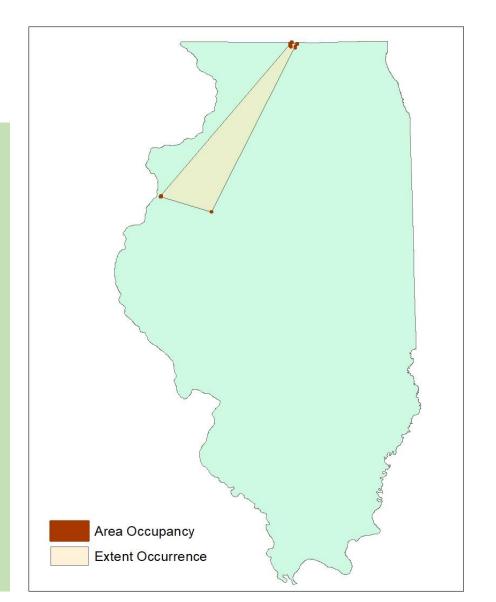
Threats/Stressors Unknown U (Unknown)

Rarity:

Range Extent: **7,034.9 km2** range extent per minimum convex polygon **E (5,000-20,000 km2)**

Area of Occupancy: 12 1km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: 5
EORs observed 2008 to
2017
A (1-5 EORs)



Cypress Minnow (Hybognathus hayi)

Calculated Rank: S1

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

5 threats/stressors identified in the 2015 IWAP: habitat stressors(extent, compositionstructure, distribution-hydrology, pollutants-sediments) and direct human stressors (structures/Infrastructure) AC (Medium-Very High (>4))

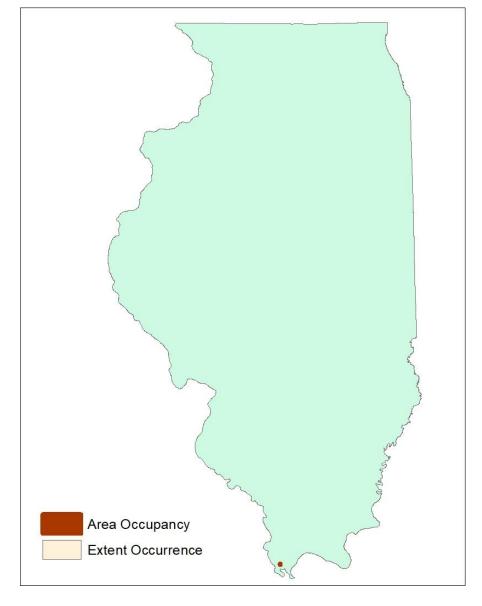
Additional Notes: Edge of range, but not secure in adjacent states

Rarity:

Range Extent: 1 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 1 1-km2 grid cells occupied A (1-4 1-km2 grid cells)

Number of
Occurrences: 1 EOR
observed 2008 to 2017
A (1-5 EORs)



Plains Minnow (Hybognathus placitus)

Calculated Rank: S1

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

4 threats/stressors identified by

IDNR Staff: Habitat

Fragmentation, Hydrology,

Dispersal, Structures.

AC (Medium-Very High (>4))

Rarity:

Range Extent: **7 km2** range extent per minimum convex polygon

A (<100 km2)

Area of Occupancy: 1
1-km2 grid cells
occupied

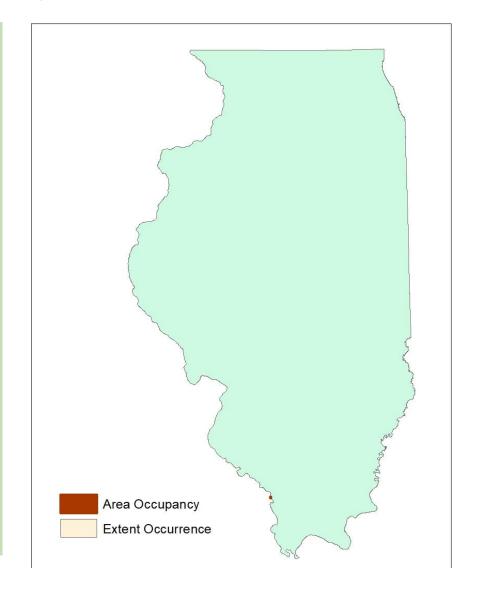
A (1-4 1-km2 grid cells)

Number of

Occurrences: 1 EOR

observed 2008 to 2017

A (1-5 EORs)



Bigeyed Chub (Hybopsis amblops)

Calculated Rank: **\$2\$3**

Short-term Trend:

Increasing 50 to 100% per IWAP 2015

I (Increase of >25%)

Threats:

6 threats/stressors identified in IWAP 2015:

Extent, Composition-structure,
Distribution/Hydrology,
Pollutants-Sediment,
Recruitment,
Structures/Infrastructure
AC (Medium-Very High (>4))

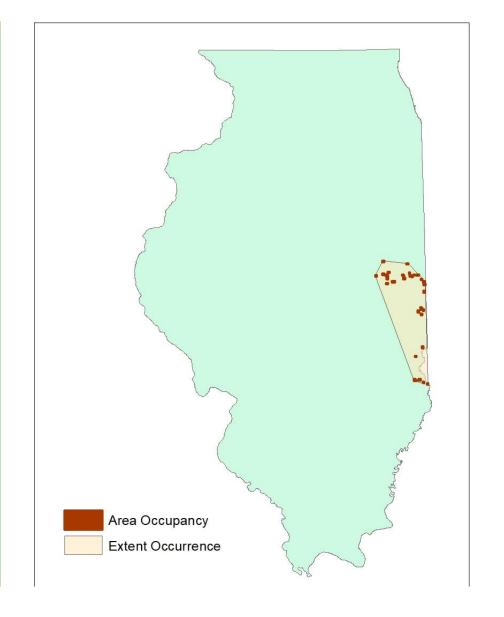
Rarity:

Range Extent:

4,093.8 km2 range extent per minimum convex polygon E (5,000-20,000 km2)

Area of Occupancy:
52 1-km2 grid cells
occupied
D (21-100 1-km2 grid
cells)

Number of Occurrences: 22 EORs observed 2008 to 2017 C (21-80 EORs)



Pallid Shiner (*Hybopsis amnis*)

Calculated Rank: \$3?

Short-term Trend:
Increasing 50 to 100%
per IWAP 2015
I (Increase of >25%)

Threats:

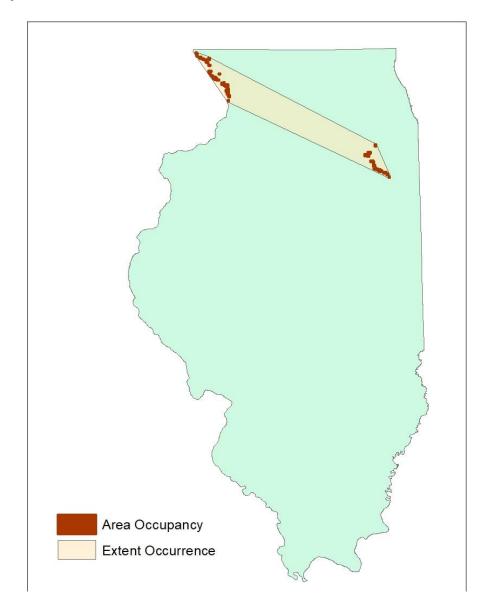
2 threats/stressors identified in IWAP 2015: Pollutants-Sediment, Structures/Infrastructure BD (Low-High (1-3))

Rarity:

Range Extent: **7,466 km2** range extent per minimum convex polygon **D** (1,000-5,000 km2)

Area of Occupancy: **95** 1-km2 grid cells occupied **D(21-100 1-km2 grid cells)**

Number of Occurrences: 13 EORs observed 2008 to 2017 B(6-20 EORs)



Chestnut Lamprey (*Ichthyomyzon castaneus*)

Calculated Rank: **S1S2**

Short-term Trend:

Declining 50 to 100% per

IWAP 2015

AD (Decline of >50%)

Threats:

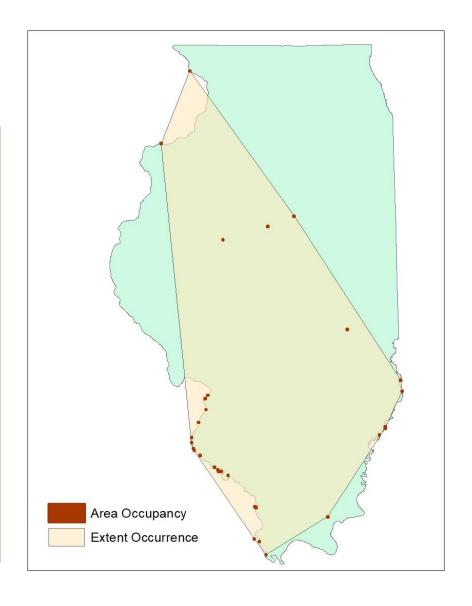
Threats/Stressors Unknown U (Unknown)

Rarity:

Range Extent: **88,188.6 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: **31** 1-km2 grid cells occupied **D (21-100 1-km2 grid cells)**

Number of Occurrences: 27 EORs observed 2008 to 2017 C (21-80 EORs)



Northern Brook Lamprey (Ichthyomyzon fossor)

Calculated Rank: SH

Short-term Trend:

Declining 50-100% per 2015

IWAP

AD (Decline of >50%)

Threats:

2 threats/stressors identified in 2015 IWAP: pollutants-sediment and structures/Infrastructure BD (Low-High (1-3)) Rarity:

Range Extent: No observations in last 10 years

ZA (Zero to <100 km2)

Area of Occupancy: No observations in last 10

years

U (Unknown)

Number of Occurrences: No observations in last 10

years

ZA (0-5 EORs)

Silver Lamprey (Ichthyomyzon unicuspis)

Calculated Rank: **\$1\$2**

Short-term Trend:

Declining 50 to 100%

per IWAP 2015

AD (Decline of >50%)

Threats:

1 threat/stressor identified in IWAP 2015: Structures/Infrastructure BD (Low-High (1-3))

Rarity:

Range

Extent: **73,385 km2** range

extent per minimum

convex polygon

F (20,000-200,000 km2)

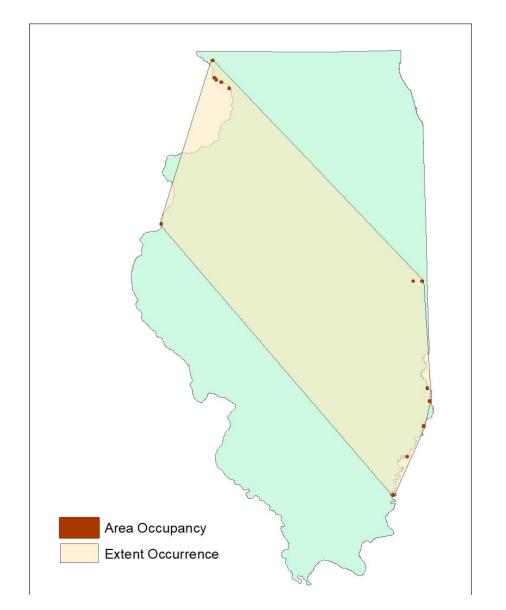
Area of Occupancy: 13 1km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences:

13 EORs observed 2008

to 2017

B (6-20 EORs)



Least Brook Lamprey (Lampetra aepyptera)

Calculated Rank: **S2?**

Short-term Trend: Stable (-25 to 25%) per IWAP 2015 AD (Decline of >50%)

Threats:

2 threats/stressors identified in IWAP 2015: Pollutants-Sediment, Structures/Infrastructure BD (Low-High (1-3))

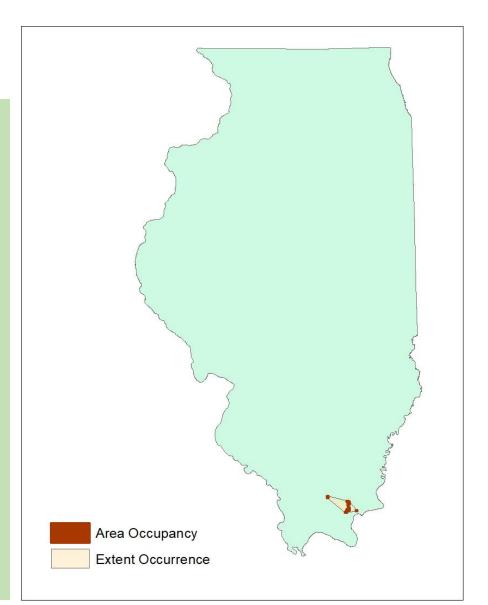
Additional Notes: Edge of range, S4 in MO and KY, S2 in IN

Rarity:

Range Extent: **320 km2**range extent per
minimum convex polygon **C (250-1,000 km2)**

Area of Occupancy: 20 1-km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: **4 EORs** observed 2008 to 2017 **A (1-5 EORs)**



Redspotted Sunfish (Lepomis miniatus)

Calculated Rank: **S2S3**

Short-term Trend:

Increasing 25 to 50% per

IWAP 2015

I (Increase of >25%)

Threats:

4 threats/stressors

identified in IWAP 2015:

Extent, Composition-

structure,

Distribution/Hydrology,

Pollutants-Sediment

AC (Medium-Very High (>4))

Additional Notes: Edge of range, S4 in MO, S2 in KY. Factor ranks include stocked individuals

Rarity:

Range

Extent: **47,685.7 km2**

range extent per minimum

convex polygon

F (20,000-200,000 km2)

Area of Occupancy: 47 to

50 1-km2 grid cells

occupied

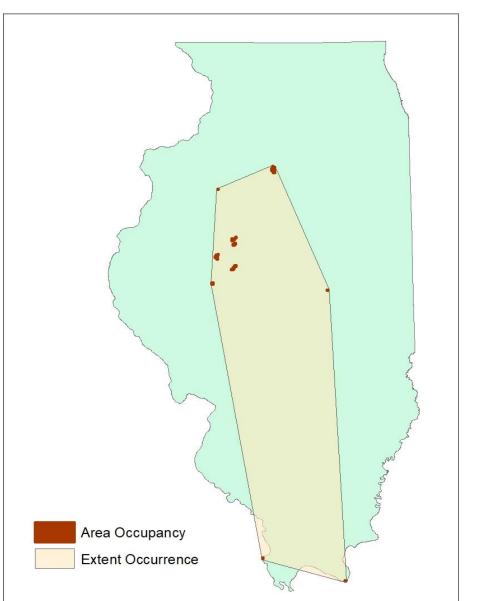
D (21-100 1-km2 grid cells)

Number of Occurrences:

11 EORs observed 2008 to

2017

B (6-20 EORs)



Bantam Sunfish (Lepomis symmetricus)

Calculated Rank: S1

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

4 threats/stressors identified in the 2015 IWAP: extent, fragmentation, composition-structure, pollutants-sediment.

AC (Medium-Very High (>4))

Additional Notes: Edge of range, S1 in IN, S2 in MO, S4 in KY and further south

Rarity:

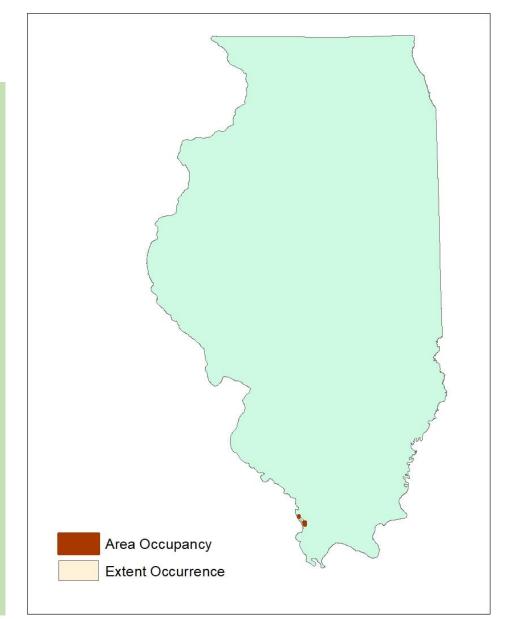
Range Extent: 32 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 5 1-km2 grid cells occupied B (5-10 1-km2 grid cells)

Number of

Occurrences: **2 EORs** observed 2008 to 2017

A (1-5 EORs)



American Brook Lamprey (Lethenteron appendix)

Calculated Rank: \$1?

Short-term Trend:

Declining 50 to 100% per

IWAP 2015

AD (Decline of >50%)

Threats:

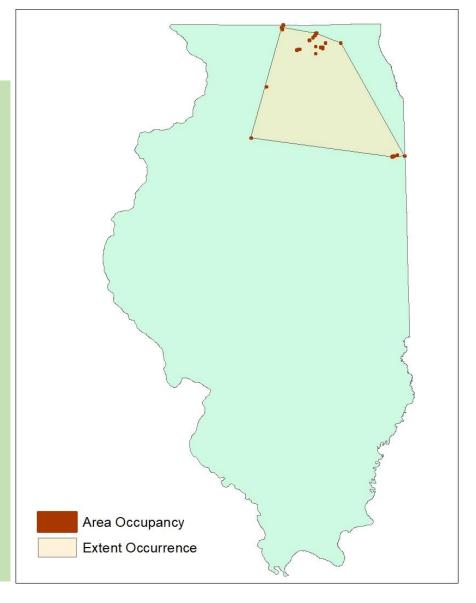
5 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Pollutants-Sediment, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: 14,747.7 km2 range extent per minimum convex polygon E (5,000-20,000 km2)

Area of Occupancy: 26 1-km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: 15 EORs observed 2008 to 2017 B (6-20 EORs)



Burbot (Lota lota)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IDNR Staff

AD (Decline of >50%)

Threats:

Threats/Stressors Unknown

U (Unknown)

Rarity:

Range Extent: **1,317.9 km2** range extent per minimum convex

polygon

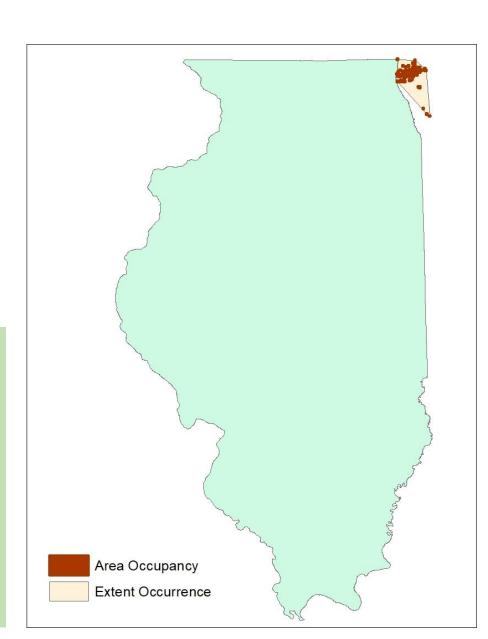
D (1,000-5,000 km2)

Area of Occupancy: 112 1-km2 grid cells occupied

E (101-500 1-km2 grid cells)

Number of Occurrences: 11 EORs observed 2008 to 2017

B (6-20 EORs)



Bleeding Shiner (Luxilus zonatus)

Calculated Rank: \$1

Short-term Trend:

Increasing 50 to 100% per IWAP 2015

I (Increase of >25%)

Threats/Stressors:

Threats/Stressors Unknown

U (Unknown)

Rarity:

Range Extent: <1 km2 range extent per minimum convex polygon

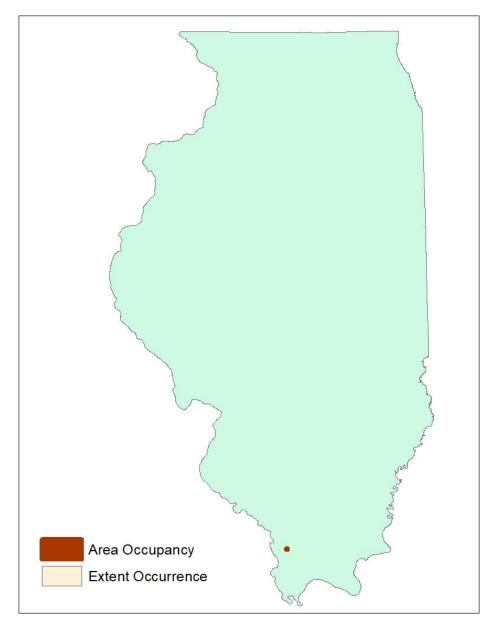
A (<100 km2)

Area of Occupancy: 1 1-km2 grid cells occupied

A (1-4 1-km2 grid cells)

Number of Occurrences: 1 EOR observed 2008 to 2017

A (1-5 EORs)



Ribbon Shiner (Lythrurus fumeus)

Calculated Rank: S1

Short-term Trend:

Stable (-25 to 25%) per

IWAP 2015

G (Relatively Stable <=10%)

Threats:

2 threats/stressors
identified in IWAP 2015:
Extent,
Distribution/Hydrology
BD (Low-High (1-3))

Additional Notes: Edge of range

Rarity:

Range

Extent: **28,735.7 km2**

range extent per minimum

convex polygon

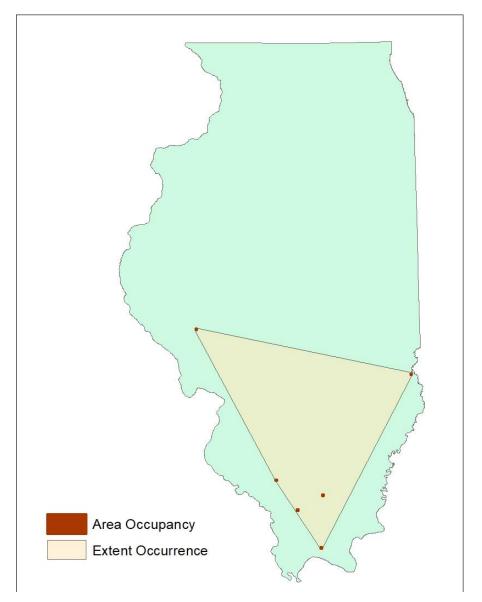
F (20,000-200,000 km2)

Area of Occupancy: 6 1km2 grid cells occupied B (5-10 1-km2 grid cells)

Number of Occurrences: **6 EORs** observed 2008 to

2017

B (6-20 EORs)



Sturgeon Chub (Macrhybopsis gelida)

Calculated Rank: S1

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

7 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Structures/Infrastructure AC (Medium-Very High (>4))

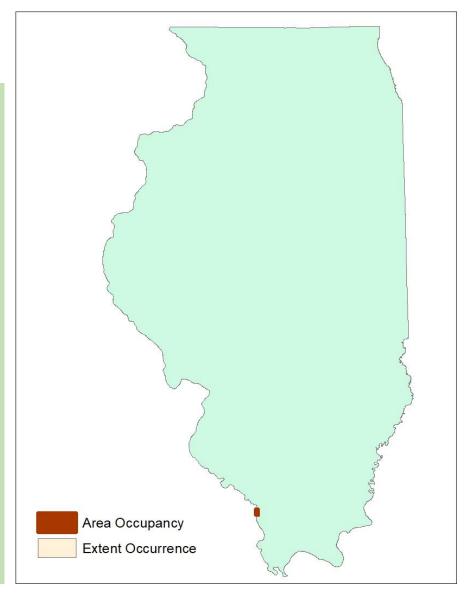
Additional Notes: Edge of range, S3 in MO, S1 in KY

Rarity:

Range Extent: 4 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 6 1-km2 grid cells occupied B (5-10 1-km2 grid cells)

Number of Occurrences: 1 EORs observed 2008 to 2017 A (1-5 EORs)



Shoal Chub (Macrhybopsis hyostoma)

Calculated Rank: \$1\$3

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

3 threats/stressors identified by IDNR Staff: Fragmentation, Hydrology, Structures. BD (Low-High (1-3))

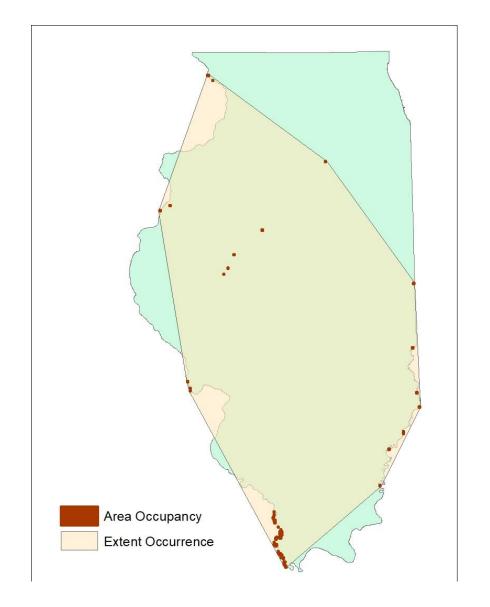
Additional Notes: Also named "Speckled Chub" in databases.

Rarity:

Range Extent: 114,075.35 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 66 1-km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: 29 EORs observed 2008 to 2017 C (21-80 EORs)



Sicklefin Chub (Macrhybopsis meeki)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per

IWAP 2015

AD (Decline of >50%)

Threats:

(>4))

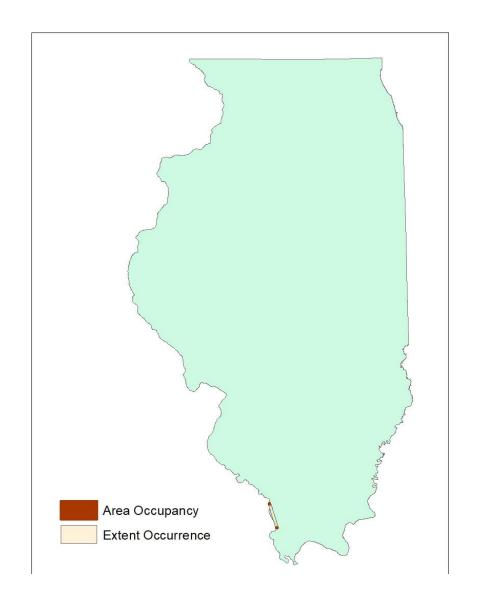
6 threats/stressors
identified in IWAP 2015:
Extent, Fragmentation,
Composition-structure,
Pollutants-Sediment,
Dispersal,
Structures/Infrastructure
AC (Medium-Very High

Rarity:

Range Extent: 101.24 km2 range extent per minimum convex polygon B (100-250 km2)

Area of Occupancy: 2 1-km2 grid cells occupied A (1-4 1-km2 grid cells)

Number of Occurrences: 2 EORs observed 2008 to 2017 A (1-5 EORs)



River Redhorse (Moxostoma carinatum)

Calculated Rank: \$3\$4

Short-term Trend: **Stable (-25 to 25%)** per IWAP 2015

G (Relatively Stable <=10%)

Threats:

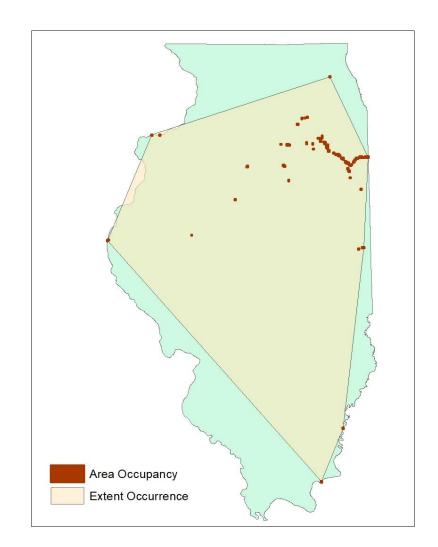
2 threats/stressors identified in IWAP 2015:
Distribution/Hydrology,
Pollutants-Sediment
BD (Low-High (1-3))

Rarity:

Range Extent: 105,124.5 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 124 1-km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: 33 EORs observed 2008 to 2017 C (21-80 EORs)



Greater Redhorse (Moxostoma valenciennesi)

Calculated Rank: \$3\$4

Short-term Trend:

Increasing 25 to 50% per IWAP 2015

I (Increase of >25%)

Threats:

3 threats/stressors identified in IWAP 2015:

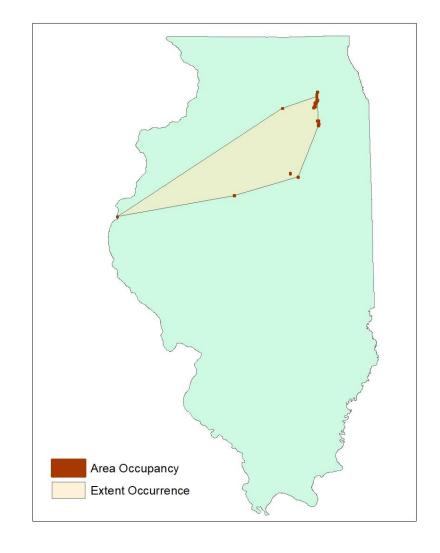
Distribution/Hydrology,
Pollutants-Sediment,
Structures/Infrastructure
BD (Low-High (1-3))

Rarity:

Range Extent: 14,082.5 km2 range extent per minimum convex polygon E (5,000-20,000 km2)

Area of Occupancy: **33** 1-km2 grid cells occupied **D** (**21-100** 1-km2 grid cells)

Number of Occurrences: 10 EORs observed 2008 to 2017 B (5-20 EORs)



Deepwater Sculpin (Myoxocephalus thompsonii)

Calculated Rank: **S1S2**

Short-term Trend:

Stable (-25 to 25%) per IDNR Staff

G (Relatively Stable <=10%)

Threats:

2 threats/stressors identified in

IWAP 2015: Dispersal,

Structures/Infrastructure

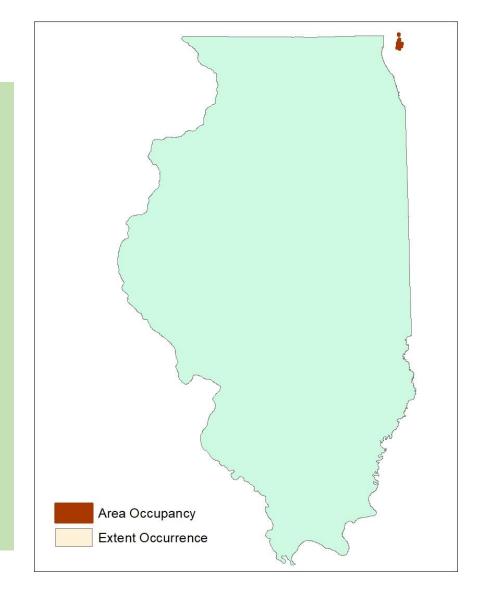
BD (Low-High (1-3))

Rarity:

Range Extent: **79 km2**range extent per minimum
convex polygon **A (<100 km2)**

Area of Occupancy: 17 1km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: **4 EORs** observed 2008 to 2017 **A (1-5 EORs)**



River Chub (Nocomis micropogon)

Calculated Rank: SH

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

4 threats/stressors identified in IWAP 2015: Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Structures/Infrastructure AC (Medium-Very High (>4)) Rarity:

Range Extent: No observed occurrences

in last 10 years

U (Unknown)

Area of Occupancy: No observed occurrences in last 10 years U (Unknown)

Number of Occurrences: No observed occurrences in last 10 years ZA (0-5 EORs)

Additional Notes: No species data in the last ten years

Pugnose Shiner (Notropis anogenus)

Calculated Rank: S1S2

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

6 threats/stressors identified in IWAP 2015: Extent,
Composition-structure,
Distribution/Hydrology,
Pollutants-Sediment, Predators,
Structures/Infrastructure
AC (Medium-Very High (>4))

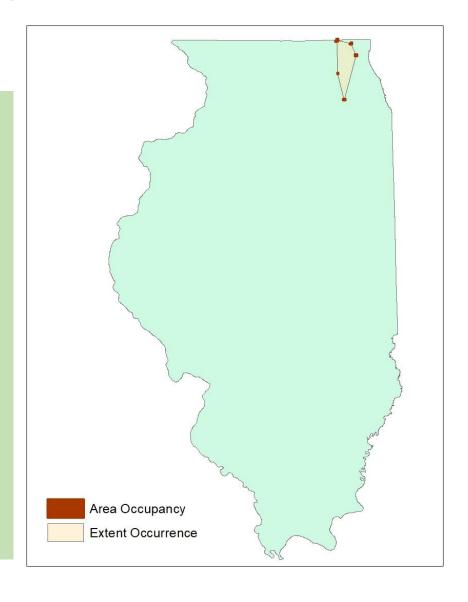
Additional Notes: Edge of range, but not secure in adjacent states

Rarity:

Range Extent: **1,011 km2** range extent per minimum convex polygon **D** (1,000-5,000 km2)

Area of Occupancy: 12 1km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: **5 EORs** observed 2008 to 2017 **A (1-5 EORs)**



Bigeye Shiner (Notropis boops)

Calculated Rank: **\$2\$3**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

3 threats/stressors identified in IWAP 2015:

Distribution/Hydrology,
Pollutants-Sediment,
Structures/Infrastructure
BD (Low-High (1-3))

Rarity:

Range Extent: **77,339 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: **40** 1-km2 grid cells occupied **D (21-100 1-km2 grid cells)**

Number of Occurrences: 14 EORs observed 2008 to 2017 B (5-20 EORs)



Ghost Shiner (Notropis buchanani)

Calculated Rank: S2?

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

2 threats/stressors identified in

IWAP 2015: Extent,

Fragmentation

BD (Low-High (1-3))

Rarity:

Range Extent: **28,000.3**

km2 range extent per

minimum convex polygon

F (20,000-200,000 km2)

Area of Occupancy: 14 1-

km2 grid cells occupied

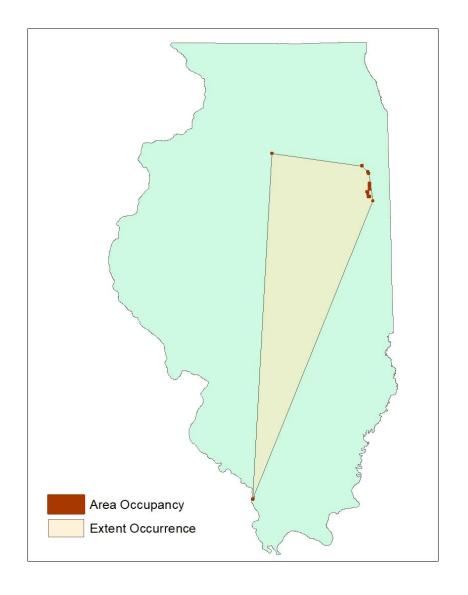
C (11-20 1-km2 grid cells)

Number of Occurrences:

8 EORs observed 2008 to

2017

B (5-20 EORs)



Ironcolor Shiner (Notropis chalybaeus)

Calculated Rank: \$3\$4

Short-term Trend:

Increasing 50 to 100% per

IWAP 2015

I (Increase of >25%)

Threats:

2 threats/stressors identified in IWAP 2015: Fragmentation, Pollutants-Sediment
BD (Low-High (1-3))

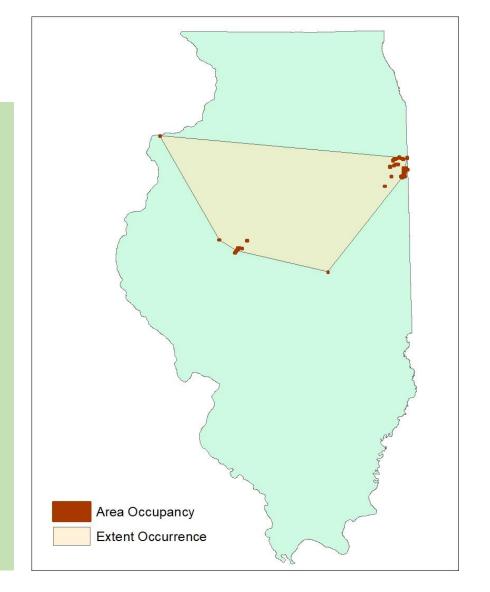
Rarity:

Range Extent: **27,213.8 km2** range extent per minimum convex polygon

F (20,000-200,000 km2)

Area of Occupancy: **66** 1-km2 grid cells occupied **D** (**21-100** 1-km2 grid cells)

Number of Occurrences: 13 EORs observed 2008 to 2017 B (5-20 EORs)



Blackchin Shiner (Notropis heterodon)

Calculated Rank: **S2S3**

Short-term Trend:

Increasing 25 to 50% per IWAP 2015

I (Increase of >25%)

Threats:

4 threats/stressors identified in IWAP 2015: Extent,
Composition-structure,
Pollutants-Sediment,
Predators
AC (Medium-Very High (>4))

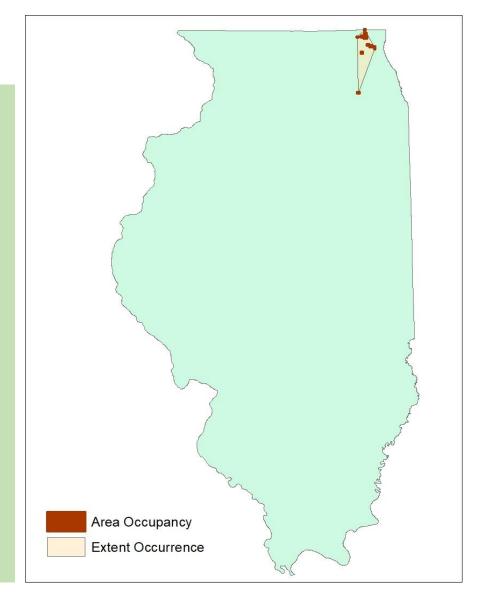
Additional Notes: Edge of range, S4 in WI, S2 in IN

Rarity:

Range Extent: **770 km2**range extent per
minimum convex polygon
C (250-1,000 km2)

Area of Occupancy: **42** 1-km2 grid cells occupied **D** (**21-100** 1-km2 grid cells)

Number of Occurrences: 12 EORs observed 2008 to 2017 B (5-20 EORs)



Blacknose Shiner (Notropis heterolepis)

Calculated Rank: **\$1\$2**

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

3 threats/stressors

identified in IWAP 2015:

Extent, Composition-

structure, Pollutants-

Sediment

BD (Low-High (1-3))

Rarity:

Range Extent: 14,540

km2 range extent per

minimum convex

polygon

E (5,000-20,000 km2)

Area of Occupancy: 54

1-km2 grid cells

occupied

D (21-100 1-km2 grid

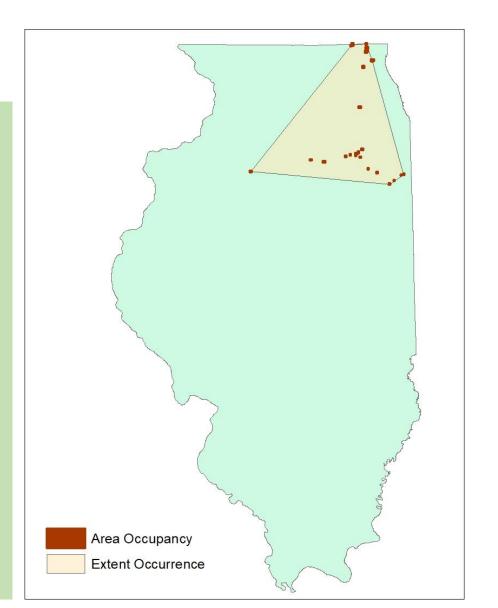
cells)

Number of

Occurrences: 18 EORs

observed 2008 to 2017

B (5-20 EORs)



Taillight shiner (Notropis maculatus)

Calculated Rank: SH

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

1 threat/stressor identified in IWAP 2015: Pollutants-Sediment BD (Low-High (1-3))

Additional Notes: One old Ohio River record from 1977 (INHS), edge of range

Rarity:

Range Extent: No observations in last 10 years ZA (Zero to <100 km2)

Area of Occupancy: No observations in last 10 years

U (Unknown)

Number of Occurrences: **No observations in last 10 years**

ZA (0-5 EORs)

Silverband Shiner (Notropis shumardi)

Calculated Rank: S3S4

Short-term Trend:
Increasing 25 to 50% per
IWAP 2015

I (Increase of >25%)

Threats:

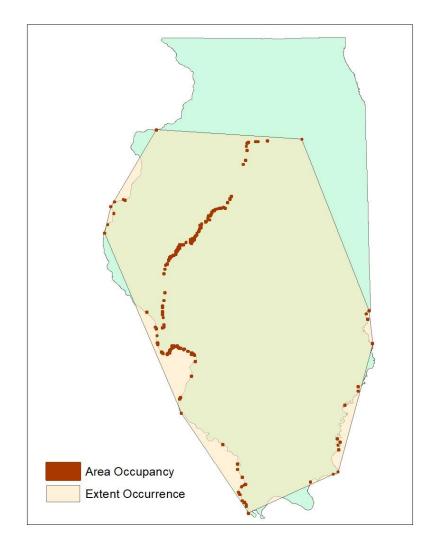
6 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Pollutants-Sediment, Dispersal, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: 112,930.3 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 206 1-km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: 75 EORs observed 2008 to 2017 C (21-80 EORs)



Weed Shiner (Notropis texanus)

Calculated Rank: \$3\$4

Short-term Trend:

Increasing 50 to 100% per

IWAP 2015

I (Increase of >25%)

Threats:

1 threat/stressor

identified in IWAP 2015:

Pollutants-Sediment

BD (Low-High (1-3))

Rarity:

Range Extent: **15,641.3 km2** range extent per minimum

convex polygon

E (5,000-20,000 km2)

Area of Occupancy: **157** 1-

km2 grid cells occupied

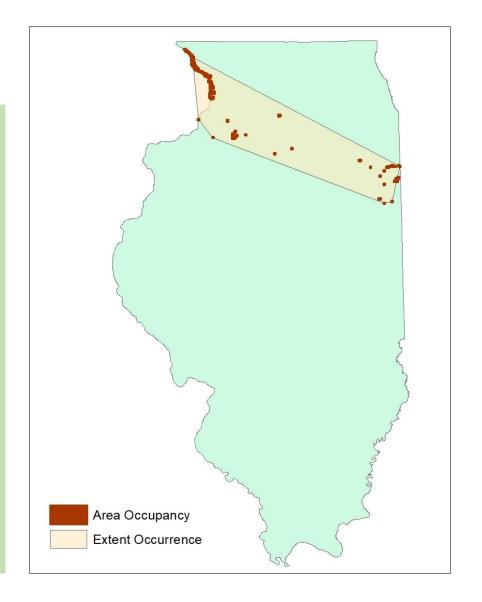
E (101-500 1-km2 grid cells)

Number of Occurrences: 22

EORs observed 2008 to

2017

C (21-80 EORs)



Mountain Madtom (Noturus eleutherus)

Calculated Rank: \$1

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

4 threats/stressors identified in

IWAP 2015: Extent,

Fragmentation, Compositionstructure,

Structures/Infrastructure
AC (Medium-Very High (>4))

Rarity:

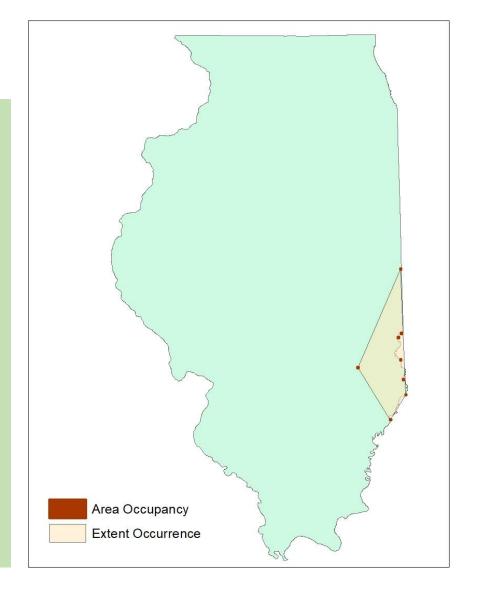
Range Extent: **5,097.1** km2 range extent per

minimum convex polygon

E (5,000-20,000 km2)

Area of Occupancy: 8 1-km2 grid cells occupied B (5-10 1-km2 grid cells)

Number of Occurrences: 8 EORs observed 2008 to 2017 B (5-20 EORs)



Northern Madtom (Noturus stigmosus)

Calculated Rank: S1

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats/Stressors:

4 threats/stressors identified in IWAP 2015: Extent, Composition-structure, Distribution/Hydrology, Pollutants-Sediment
AC (Medium-Very High (>4))

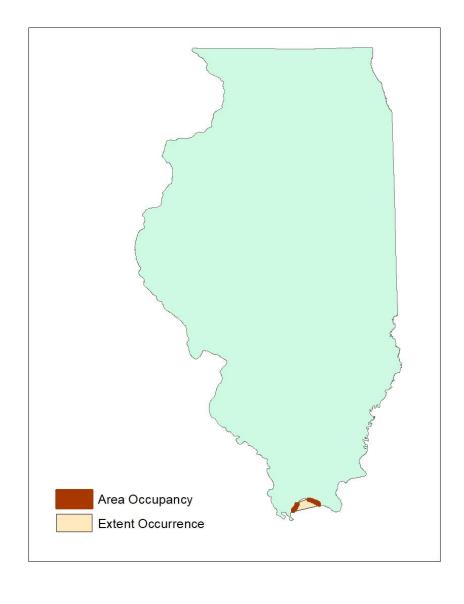
Additional Notes: Edge of range, S1 in IN, S2 in KY

Rarity:

Range Extent: **349 km2**range extent per
minimum convex polygon **C (250-1,000 km2)**

Area of Occupancy: 44 1km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: 2 EORs observed 2008 to 2017 A (1-5 EORs)



Pugnose Minnow (Opsopoeodus emiliae)

Calculated Rank: \$3\$4

Short-term Trend:

Increasing 25 to 50% per IWAP 2015

I (Increase of >25%)

Threats/Stressors:

3 threats/stressors

identified in IWAP 2015:

Extent, Fragmentation,

Composition-structure

BD (Low-High (1-3))

Rarity:

Range Extent: **127,621.88 km2**

range extent per minimum

convex polygon

F (20,000-200,000 km2)

Area of Occupancy: **76** 1-km2

grid cells occupied

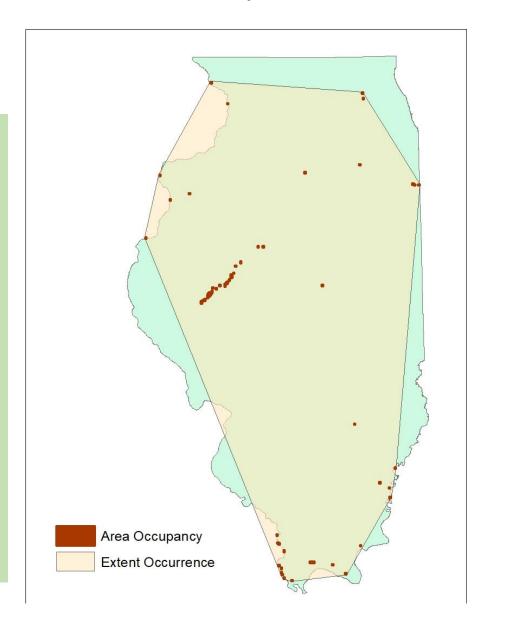
D (21-100 1-km2 grid cells)

Number of Occurrences:

42 EORs observed 2008 to

2017

C (21-80 EORs)



Yellow Perch (Perca flavescens)

Calculated Rank: **S2S3**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

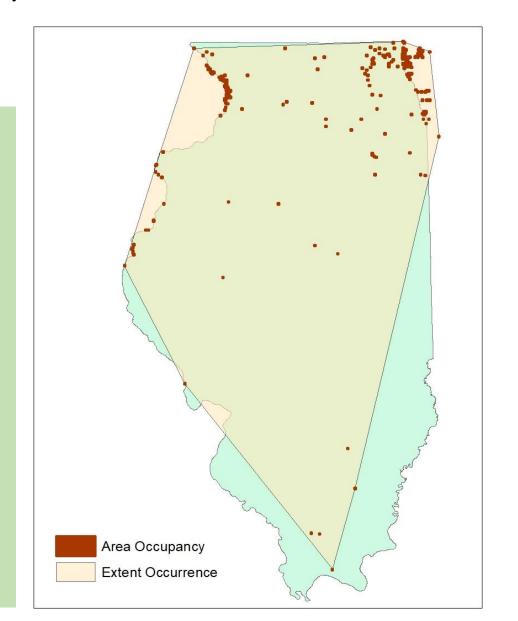
5 threats/stressors identified in IWAP 2015: Extent,
Composition-structure,
Invasives/Exotics, PollutantsSediment, Recruitment
AC (Medium-Very High (>4))

Rarity:

Range Extent: 127,757.9 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 282 1-km2 grid cells occupied E (101-500 1-km2 grid cells)

Number of Occurrences: **95 EORs** observed 2008 to 2017 **D (81-300 EORs)**



River Darter (Percina shumardi)

Calculated Rank: \$3?

Short-term Trend:

Increasing 50 to 100% per

IWAP 2015

I (Increase of >25%)

Threats:

5 threats/stressors identified by IDNR Staff: Habitat Extent, Habitat Composition, Sedimentation, Hydrology, Structures.

AC (Medium-Very High (>4))

Rarity:

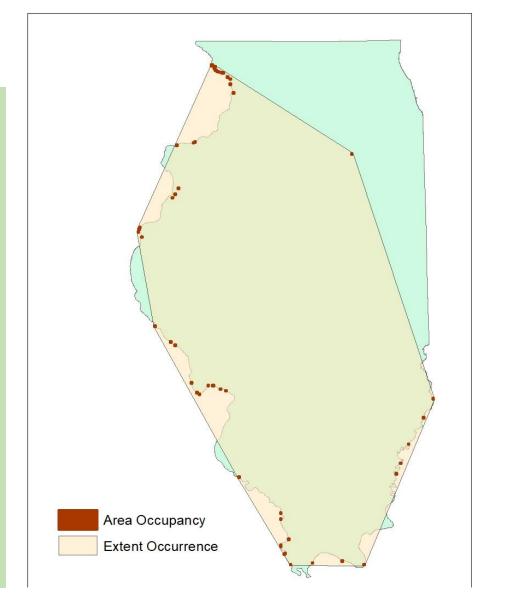
Range Extent: **121,634.27**

km2 range extent per
minimum convex polygon

F (20,000-200,000 km2)

Area of Occupancy: **52** 1-km2 grid cells occupied **D** (**21-100** 1-km2 grid cells)

Number of Occurrences: 40 EORs observed 2008 to 2017 C (21-80 EORs)



Trout-Perch (*Percopsis omiscomaycus*)

Calculated Rank: \$1

Short-term Trend:

Declining 50 to 100% per

IWAP 2015

AD (Decline of >50%)

Threats:

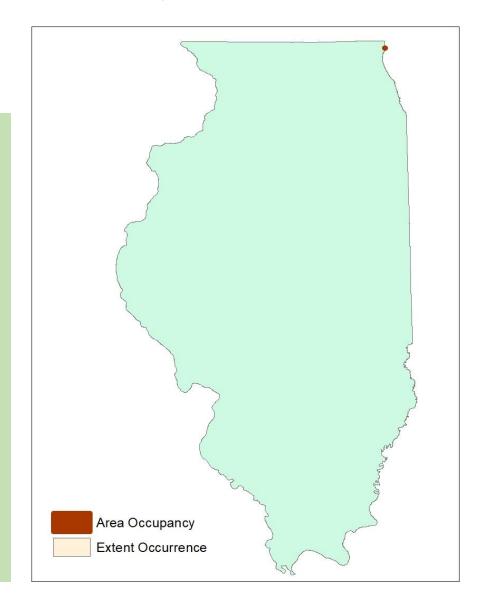
1 threat/stressor identified in IWAP 2015: Composition-structure BD (Low-High (1-3))

Rarity:

Range Extent: <1 km2
range extent per
minimum convex polygon
A (<100 km2)

Area of Occupancy: 1 1-km2 grid cells occupied A (1-4 1-km2 grid cells)

Number of Occurrences: 1
EORs observed 2008 to
2017
A (1-5 EORs)



Flathead Chub (*Platygobio gracilis*)

Calculated Rank: SH

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

2 threats/stressors identified by IDNR Staff: Hydrology and Structures.

BD (Low-High (1-3))

Additional Notes: No species data in IL available, Natureserve SX

Rarity:

Range Extent: No observations in last 10 years U (Unknown)

Area of Occupancy: **No observations in last 10 years U (Unknown)**

Number of Occurrences: **No observations in last 10 years ZA (0-5 EORs)**

Paddlefish (*Polyodon spathula*)

Calculated Rank: \$1?

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

4 threats/stressors identified in IWAP 2015: Fragmentation, Invasives/Exotics, Dispersal, Structures/Infrastructure
AC (Medium-Very High (>4))

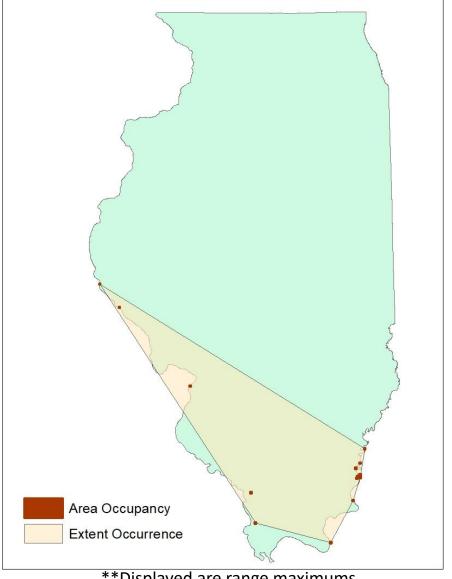
Rarity:

Range Extent: **9,144 to 28,707 km2** range extent per minimum convex polygon

EF (5,000-200,000 km2)

Area of Occupancy: 5 to 15 1-km2 grid cells occupied BC (6-20 1-km2 grid cells)

Number of Occurrences: 5 to 11 EORs observed 2008 to 2017 AB (1-20 EORs)



**Displayed are range maximums

Round Whitefish (*Prosopium cylindraceum*)

Calculated Rank: **\$2**

Short-term Trend:

Increasing 50 to 100% per INDR Staff

I (Increase of >25%)

Threats:

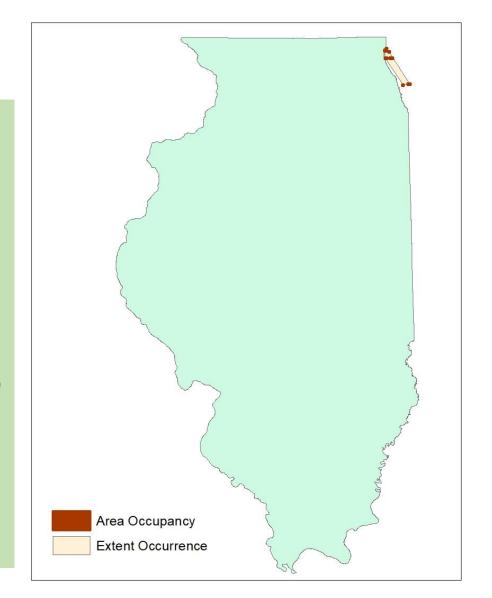
Threats/Stressors Unknown U (Unknown)

Rarity:

Range Extent: 322.9 km2
range extent per
minimum convex polygon
C (250-1,000 km2)

Area of Occupancy: 13 1km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: 6 EORs observed 2008 to 2017 B (6-20 EORs)



Ninespine Stickleback (*Pungitius pungitius*)

Calculated Rank: \$1?

Short-term Trend:

Declining 50 to 100% per

IWAP 2015

AD (Decline of >50%)

Threats:

1 Threat/Stressor identified by

IDNR Staff: Habitat Extent.

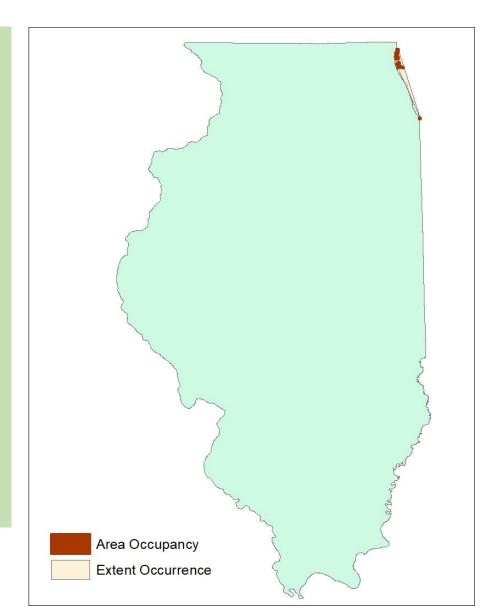
BD (Low-High (1-3))

Rarity:

Range Extent: 285.3 km2
range extent per
minimum convex polygon
C (250-1,000 km2)

Area of Occupancy: 21 1km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: 6 EORs observed 2008 to 2017 B (6-20 EORs)



Longnose Dace (Rhinichthys cataractae)

Calculated Rank: **S2S3**

Short-term Trend:

Increasing 50 to 100% per

IWAP 2015

I (Increase of >25%)

Threats:

8 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-

structure,

Distribution/Hydrology,
Pollutants-Sediment, Dispersal,

Structures/Infrastructure

AC (Medium-Very High (>4))

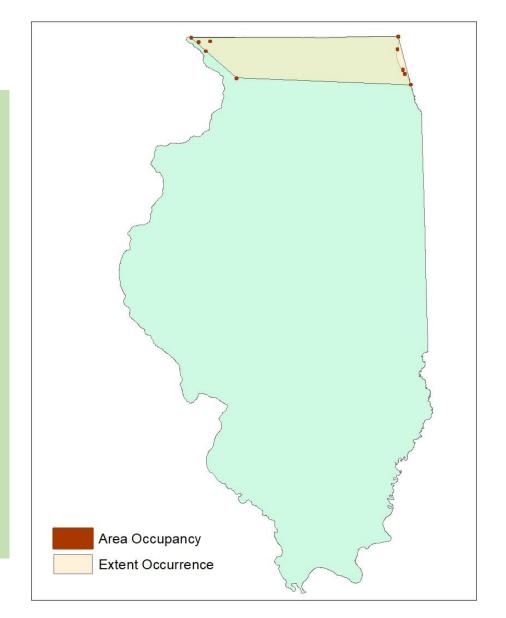
Rarity:

Range Extent: **10,274.9 km2** range extent per minimum convex polygon

E (5,000-20,000 km2)

Area of Occupancy: 11 1km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: 10 EORs observed 2008 to 2017 B (5-20 EORs)



Additional Notes: Edge of range- rescue effect

Brook Trout (Salvelinus fontinalis)

Calculated Rank: SH

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

12 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Invasives/Exotics, Pollutants-Sediment, Competitors, Predators, Prey/Food, Genetics, Dispersal, Recruitment, Structures/Infrastructure

AC (Medium-Very High (>4))

Rarity:

Range Extent: No observations in last 10 years U (Unknown)

Area of Occupancy: **No observations in last 10 years U (Unknown)**

Number of Occurrences: **No observations in last 10 years ZA (0-5 EORs)**

Additional Notes: No species data available for Illinois, Natureserve- exotic SNA?

Lake Trout (Salvelinus namaycush)

Calculated Rank: **S2?**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

6 threats/stressors identified in IWAP 2015:

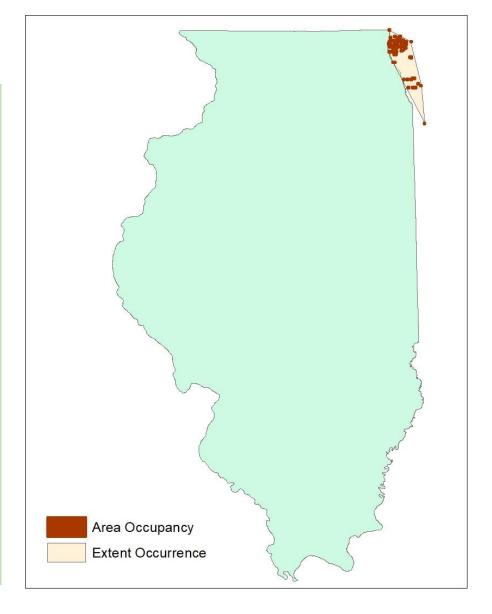
Invasives/Exotics,
Competitors, Predators,
Prey/Food, Recruitment,
Mortality
AC (Medium-Very High (>4))

Rarity:

Range Extent: 1,675 km2
range extent per minimum
convex polygon
D (1,000-5,000 km2)

Area of Occupancy: 94 1-km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: 16 EORs observed 2008 to 2017 B (5-20 EORs)



Pallid Sturgeon (Scaphirhynchus albus)

Calculated Rank: S2?

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

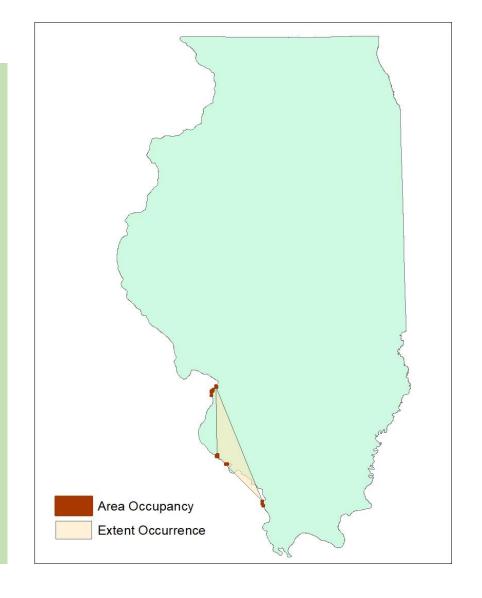
8 threats/stressors identified in IWAP 2015: Extent,
Composition-structure,
Distribution/Hydrology,
Genetics, Dispersal,
Recruitment, Mortality,
Structures/Infrastructure
AC (Medium-Very High (>4))

Rarity:

Range Extent: **2,158 km2** range extent per minimum convex polygon **D** (**1,000-5,000 km2**)

Area of Occupancy: 21 1-km2 grid cells occupied D (21-100 1-km2 grid cells)

Number of Occurrences: 7 EORs observed 2008 to 2017 B (5-20 EORs)



Central Mudminnow (*Umbra limi*)

Calculated Rank: \$3\$4

Short-term Trend:
Increasing 50 to 100%
per IWAP 2015
I (Increase of >25%)

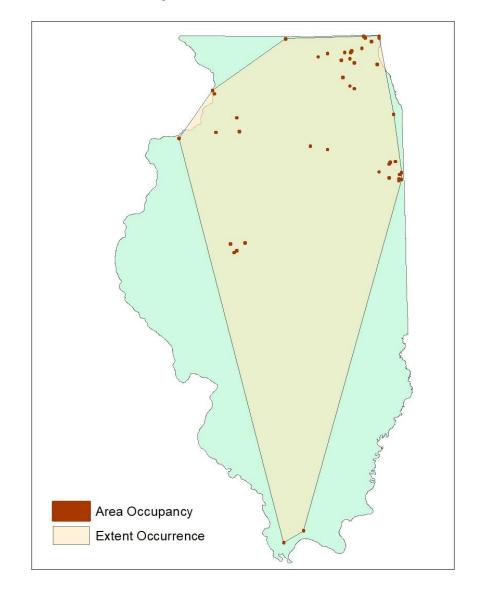
Threats:
2 threats/stressors
identified in IWAP
2015: Extent,
Composition-structure
BD (Low-High (1-3))

Rarity:

Range Extent: 90,730.5 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: **44** 1-km2 grid cells occupied **D** (**21-100** 1-km2 grid cells)

Number of Occurrences: 39 EORs observed 2008 to 2017 C (21-80 EORs)



American Bittern (Botaurus lentiginosus)

Calculated Rank: **\$1\$2**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Prey/Food, Recruitment, Mortality, Disturbance, Structures/Infrastructure. Severe threat from invasive species.

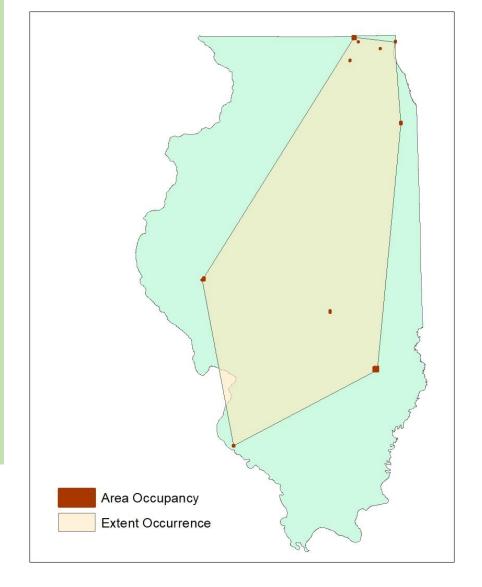
AC (Medium-Very High (>4))

Rarity:

Range Extent: **70,398 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: **18** 4-km2 grid cells occupied **D** (6-25 4-km2 grid cells)

Number of Occurrences: 9
EORs observed 2008 to
2017
B (6-20 EORs)



Least Bittern (Ixobrychus exilis)

Calculated Rank: \$3\$4

Short-term Trend:
Increase of 25 to 50% per IWAP 2015
I (Increase of >25%)

Threats:

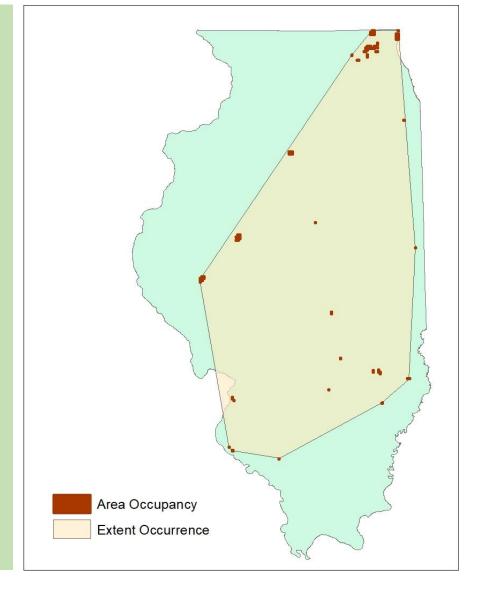
10 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Prey/Food, Recruitment, Mortality, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: **81,892 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: 60-79
4-km2 grid cells occupied.
Uncertainty due to low
accuracy of EOR mapping.
E (26-125 4-km2 grid
cells)

Number of Occurrences: **22 EORs** observed 2008 to 2017 **C (21-80 EORs)**



Snowy Egret (*Egretta thula*)

Calculated Rank: SH

Short-term Trend:
Stable (-25 to 25%) per IWAP 2015
G (Relatively Stable <=10%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Prey/Food, Recruitment, Mortality, Disturbance, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: No species data in the last ten years ZA (Zero to <100 km2)

Area of Occupancy: No species data in the last ten years ZA (Zero to 1 4-km2 grid cells)

Number of Occurrences:
No species data in the last ten
years
ZA (0-5 EORs)

Little Blue Heron (*Egretta caerulea*)

Calculated Rank: **\$1\$2**

Short-term Trend:

Increase of 25 to 50% per IWAP 2015

I (Increase of >25%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Prey/Food, Recruitment, Mortality, Disturbance, Structures/Infrastructure AC (Medium-Very High (>4))

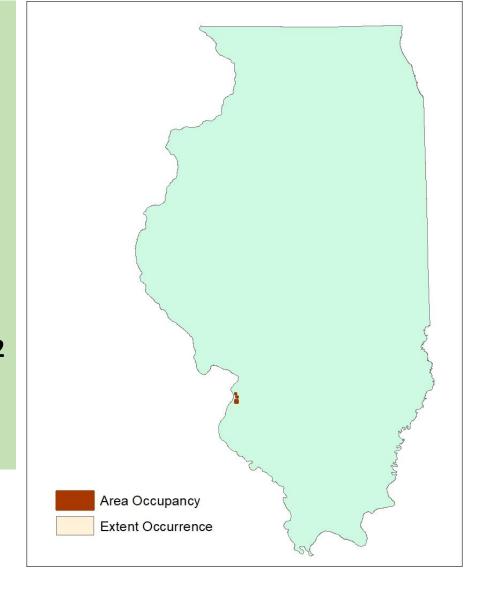
Rarity:

Range Extent: 11 km2
range extent per
minimum convex polygon
A (<100 km2)

Area of Occupancy: **3** 4-km2 grid cells occupied

C (3-5 4-km2 grid cells)

Number of Occurrences: 2 EORs observed 2008 to 2017 A (1-5 EORs)



Black-crowned Night-Heron (Nycticorax nycticorax)

Calculated Rank: S2?

Short-term Trend:

Declining 25 to 50% per IWAP 2015 **E (Decline of 30-50%)**

Threats:

10 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Prey/Food, Recruitment, Mortality, Structures/Infrastructure. Severe threat from invasive species.

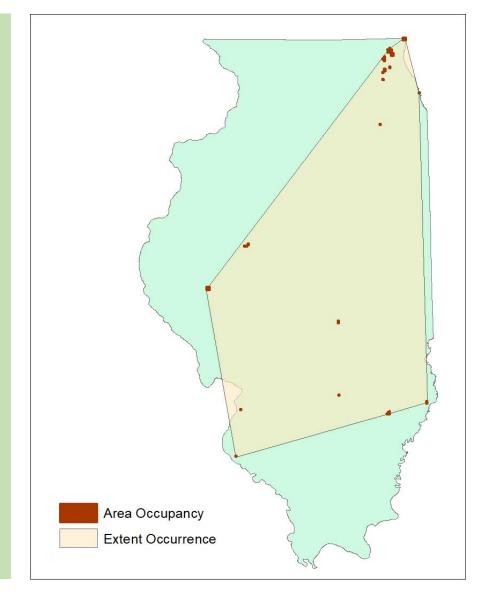
AC (Medium-Very High (>4))

Rarity:

Range Extent: **79,117 km2**range extent per
minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: 29-39
4-km2 grid cells occupied.
Uncertainty due to low
accuracy of EOR mapping.
E (26-125 4-km2 grid
cells)

Number of Occurrences: 19 EORs observed 2008 to 2017 B (6-20 EORs)



Yellow-crowned Night-Heron (Nyctanassa violacea)

Calculated Rank: **S1S2**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment,

Prey/Food, Recruitment, Mortality,

Disturbance, Structures/Infrastructure.

Severe threat from invasive species.

AC (Medium-Very High (>4))

Rarity:

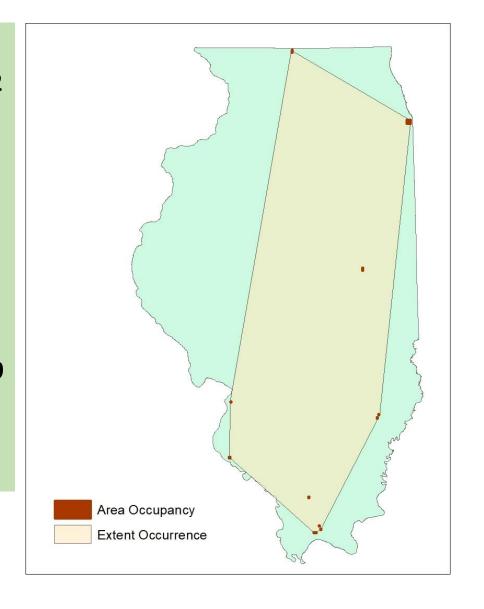
Range Extent: **70,398 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: **18** 4-km2 grid cells occupied **D** (6-25 4-km2 grid cells)

Number of Occurrences: **9 EORs** observed 2008 to 2017

B (6-20 EORs)

Additional Notes: Likely more EORs possible in far south counties.



Osprey (Pandion haliaetus)

Calculated Rank: \$3\$4

Short-term Trend:

Increase of 50 to 100% per IWAP 2015

I (Increase of >25%)

Threats:

10 threats/stressors identified in IWAP 2015: Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Parasites/Disease, Recruitment, Mortality, Disturbance, Structures/Infrastructure BD (Low-High (>4))

Additional Notes: Main threat of DDT is now less than very high.

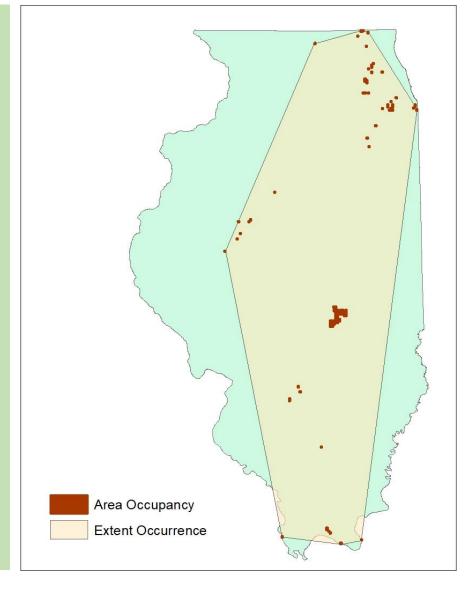
Rarity:

Range Extent: **87,338 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: 105 4-km2 grid cells occupied E (26-125 4-km2 grid cells)

Number of Occurrences: **59 EORs** observed 2008 to 2017 as a nest/breeding pair, **9 EORs** using 20km separation distance.

BC (6-80 EORs)



Mississippi Kite (Ictinia mississippiensis)

Calculated Rank: S2S3

Short-term Trend:

Increase of 50 to 100% per IWAP 2015

I (Increase of >25%)

Threats:

10 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Prey/Food, Recruitment, Mortality,

AC (Medium-Very High (>4))

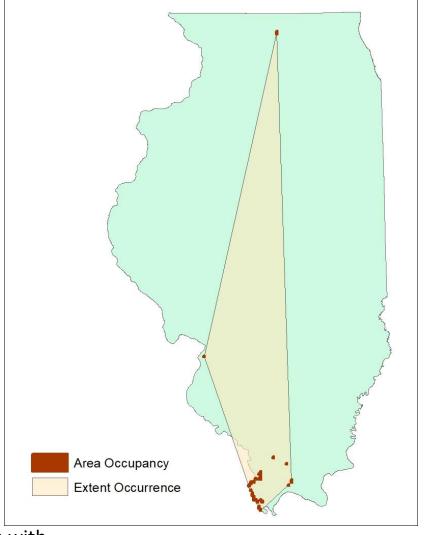
Structures/Infrastructure.

Rarity:

Range Extent: 33,049 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: **33** 4-km2 grid cells occupied **E (26-125 4-km2 grid cells)**

Number of Occurrences: **7 EORs** observed 2008 to 2017 **B (6-20 EORs)**



Additional Notes: Number of occurrences with good viability is C (Few (4-12) occurrences with excellent or good viability). Range Extent distorted due to highly disparate pairs in Rockford.

Northern Harrier breeding (Circus cyaneus)

Calculated Rank: **S2S3**

Short-term Trend:

Increase of 25 to 50% per IWAP 2015

GH (Relatively stable to increase of <25%)

Threats:

10 threats/stressors identified in IWAP 2015: Extent,
Fragmentation, Composition-structure, Distribution/Hydrology,
Invasives/Exotics, Predators,
Prey/Food, Recruitment,
Mortality,
Structures/Infrastructure

AC (Medium-Very High (>4))

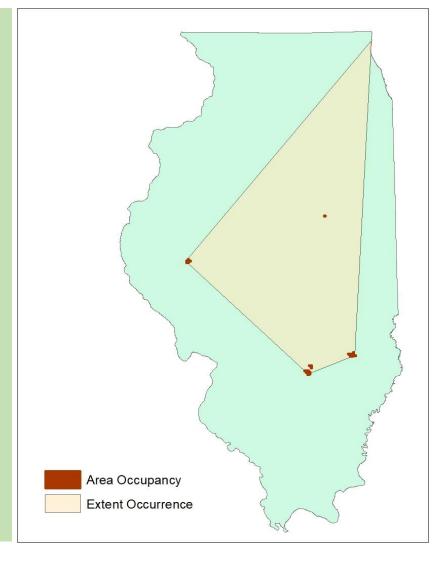
Rarity:

Range Extent: **21,465 to 46,948 km2** range extent per minimum convex polygon. Uncertainty due to unknown location use class of some records.

F (20,000-200,000 km2)

Area of Occupancy: **17 to 28** 4-km2 grid cells occupied. Uncertainty due to low accuracy of EOR mapping. **DE (6-125 4-km2 grid cells)**

Number of Occurrences: 4 to 5 EORs observed 2008 to 2017 A (1-5 EORs)



Additional Notes: Trend due to only one improved site.

Northern Harrier wintering (Circus cyaneus)

Calculated Rank: **S2S3**

Short-term Trend:

Increase of 25 to 50% per IWAP 2015

I (Increase of >25%)

Threats:

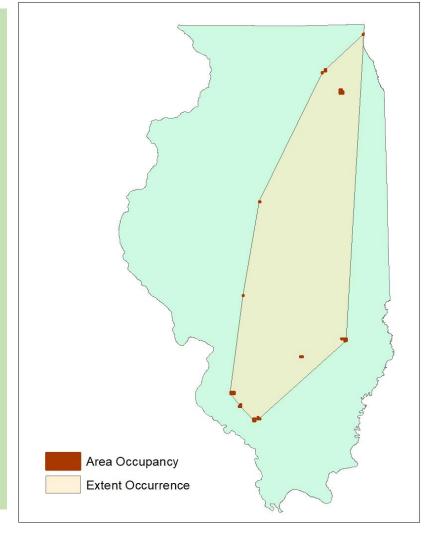
10 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Predators, Prey/Food, Recruitment, Mortality, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: 46,009 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: **23 to 38** 4-km2 grid cells occupied.
Uncertainty due to low accuracy of EOR mapping. **DE (6-125 4-km2 grid cells)**

Number of Occurrences: **10 to 11 EORs** observed 2008 to 2017 **B (6-20 EORs)**



Additional Notes: Number of Viable Occurrences is C (Few (4-12) occurrences with excellent or good viability. Very small numbers represented in north and south Range Extent.

Swainson's Hawk (Buteo swainsoni)

Calculated Rank: SH

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

12 threats/stressors identified in IWAP

2015: Extent, Fragmentation,

Composition-structure,

Distribution/Hydrology, Invasives/Exotics,

Pollutants-Sediment, Prey/Food,

Dispersal, Recruitment, Mortality,

Disturbance, Structures/Infrastructure

AC (Medium-Very High (>4))

Rarity:

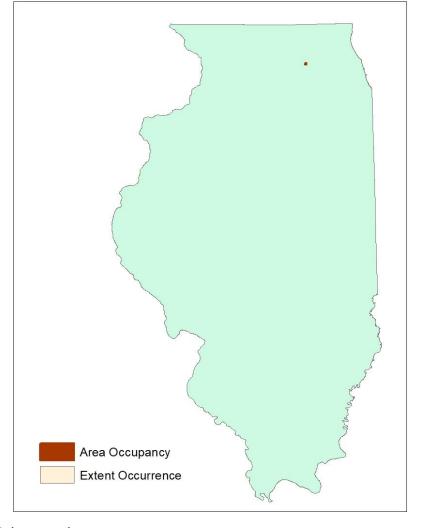
Range Extent: **0.5 km2** range extent per minimum convex polygon

A (<100 km2)

Area of Occupancy: 1 4-km2 grid cells occupied A (1 4-km2 grid cells)

Number of Occurrences: **1 EORs** observed 2008 to 2017

A (1-5 EORs)



Additional Notes: Number of Viable Occurrences is A (No occurrences with excellent or good (A or B) viability). Most of nesting pairs in Kane/McHenry now missing. Small woodlots where they previously nested now developments.

Greater Prairie-Chicken (Tympanuchus cupido)

Calculated Rank: S1

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

16 threats/stressors identified in IWAP 2015:

Extent, Fragmentation, Compositionstructure, Distribution/Hydrology, Pollutants-Sediment, Predators, Parasites/Disease, Prey/Food, Hosts, Invasive/Exotics, Other Symbionts, Dispersal, Recruitment, Mortality, Killing, Structures/Infrastructure. Severe threat from invasive species.

A (Very High (>4))

Rarity:

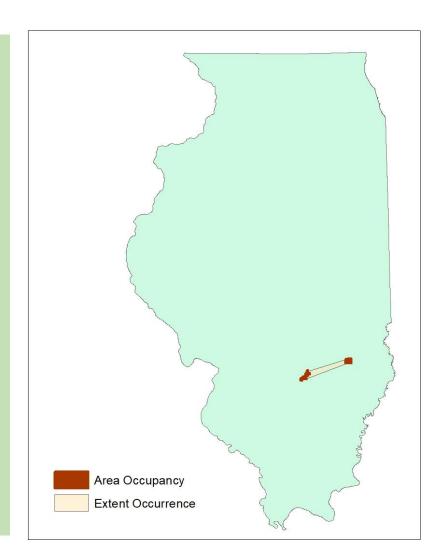
Range Extent: 422 km2 range extent per minimum convex polygon C (250-1,000 km2)

Area of Occupancy: **22** 4km2 grid cells occupied D (6-25 4-km2 grid cells)

Number of Occurrences:

2 breeding and 2 booming EORs observed 2008 to 2017

A (1-5 EORs)



Black Rail (Laterallus jamaicensis)

Calculated Rank: S1

Short-term Trend:
Stable (-25 to 25%) per IWAP 2015
G (Relatively Stable <=10%)

Threats:

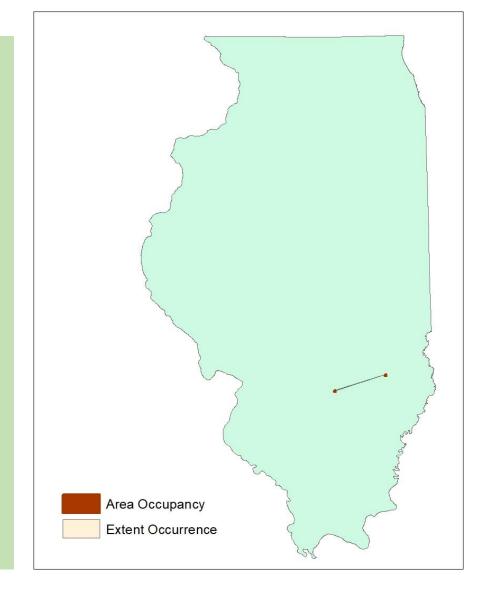
12 threats/stressors identified in IWAP
2015: Extent, Fragmentation,
Composition-structure,
Distribution/Hydrology, Invasives/Exotics,
Pollutants-Sediment, Prey/Food,
Genetics, Dispersal, Recruitment,
Mortality, Structures/Infrastructure.
Severe threat from invasive species.
AC (Medium-Very High (>4))

Rarity:

Range Extent: 34 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 2
4-km2 grid cells
occupied
B (2 4-km2 grid cells)

Number of Occurrences: **2 EORs** observed 2008 to 2017 **A (1-5 EORs)**



King Rail (Rallus elegans)

Calculated Rank: S2

Additional Notes: Number of Viable Occurrences is C (Few (4-12) occurrences with excellent or good viability.

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

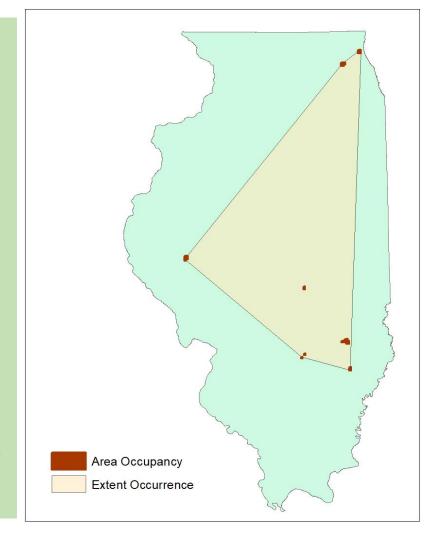
12 threats/stressors identified in IWAP
2015: Extent, Fragmentation,
Composition-structure,
Distribution/Hydrology, Invasives/Exotics,
Pollutants-Sediment, Predators,
Prey/Food, Dispersal, Recruitment,
Mortality, Structures/Infrastructure.
Severe threat from invasive species.
A (Very High (>4))

Rarity:

Range Extent: 48,309 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 20 to 28 4-km2 grid cells occupied. Uncertainty due to low accuracy of EOR mapping. D (6-25 4-km2 grid cells)

Number of Occurrences: **7 EORs** observed 2008 to 2017 **B** (6-20 EORs)



Common Gallinule (Gallinula galeata)

Calculated Rank: S2

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

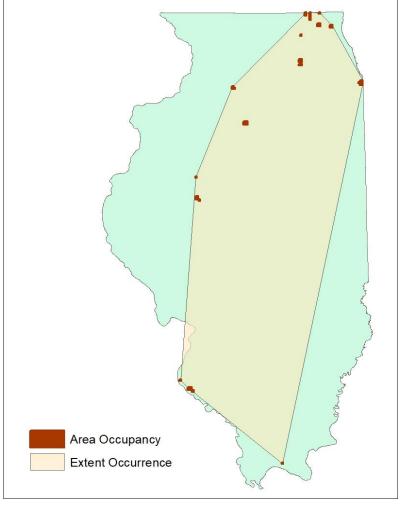
10 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Predators, Prey/Food, Recruitment, Structures/Infrastructure
A (Very High (>4))

Rarity:

Range Extent: **83,113 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: **35 to 49**4-km2 grid cells occupied.
Uncertainty due to low
accuracy of EOR mapping.
E (26-125 4-km2 grid cells)

Number of Occurrences: **16 EORs** observed 2008 to 2017 **B (6-20 EORs)**



Additional Notes: Number of Viable Occurrences, B (Very few (1-3) occurrences with excellent or good viability). Species is disappearing from many former nesting sites; lack of successful breeding pairs and sites. Suitable wetland habitat is ephemeral and declining in number and suitability.

Piping Plover (Charadrius melodus)

Calculated Rank: S1

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

14 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Competitors, Predators, Prey/Food, Genetics, Dispersal, Recruitment, Mortality, Disturbance, Structures/Infrastructure

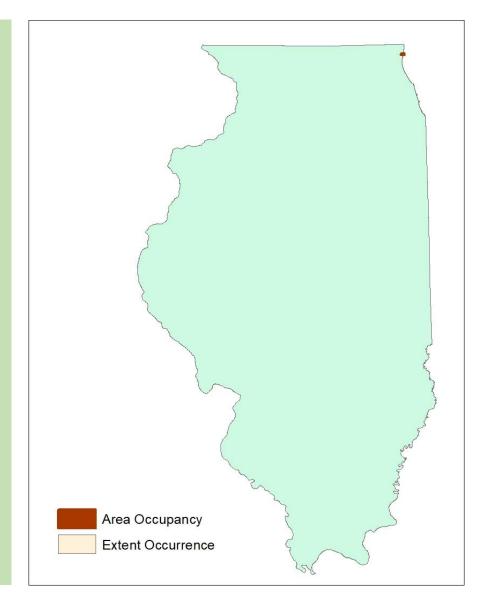
AC (Medium-Very High (>4))

Rarity:

Range Extent: **0.5 km2**range extent per
minimum convex
polygon **A (<100 km2)**

Area of Occupancy: 2
4-km2 grid cells
occupied
B (2 4-km2 grid cells)

Number of
Occurrences: 1 EORs
observed 2008 to
2017
A (1-5 EORs)



Upland Sandpiper (Bartramia longicauda)

Calculated Rank: **\$2\$3**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

10 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Parasites/Disease, Recruitment, Mortality, Structures/Infrastructure. Severe threat from invasive species.

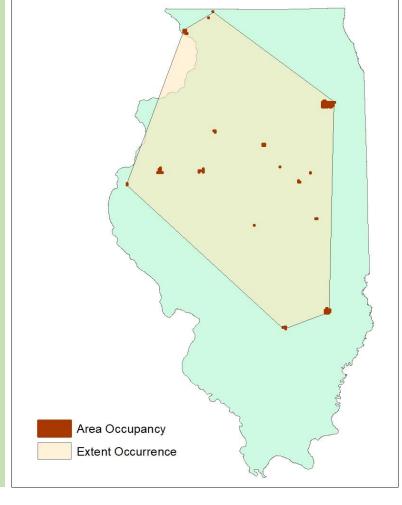
AC (Medium-Very High (>4))

Rarity:

Range Extent: **72,407 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: **60 to 83**4-km2 grid cells occupied.
Uncertainty due to low accuracy of EOR mapping. **E (26-125 4-km2 grid cells)**

Number of Occurrences: **16 EORs** observed 2008 to 2017 **B** (6-20 EORs)



Additional Notes: Number of Viable Occurrences, C (Few (4-12) occurrences with excellent or good viability. Species no longer nesting in many historic nesting sites in northern part of state. Increasing short term trend in IWAP 2015 may have been due to CRP and other farm programs that have since become unavailable.

Rufa Red Knot (Calidris canutus rufa)

Calculated Rank: SX

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

6 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Disturbance, Structures/Infrastructure

AC (Medium-Very High (>4))

Rarity:

Range Extent: No records in Illinois

in last 10 years

ZA (Zero to <100 sq km)

Area of Occupancy: No records in

Illinois in last 10 years

ZA (Zero to 1 4-km2 grid cells)

Number of Occurrences: No records

in Illinois in last 10 years

ZA (0-5 EORs)

Additional Notes: In IWAP scientific name is Calidris canutus and common name is red knot

Wilson's Phalarope (*Phalaropus tricolor*)

Calculated Rank: **S2S3**

Short-term Trend:

Increase of 25 to 50% per IWAP 2015

I (Increase of >25%)

Threats:

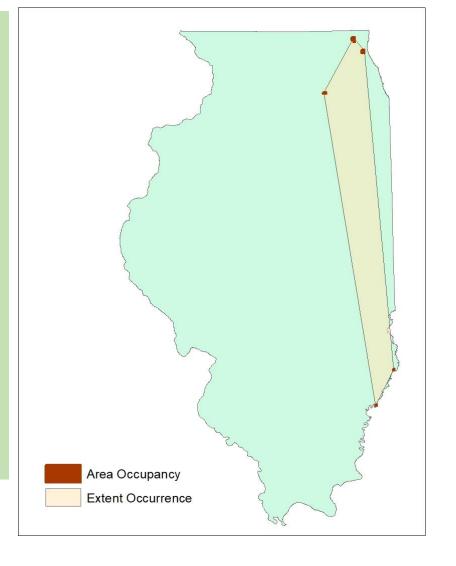
9 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Recruitment, Mortality, Structures/Infrastructure. Severe threat from invasive species. AC (Medium-Very High (>4))

Rarity:

Range Extent: 17,400 km2 range extent per minimum convex polygon E (5,000-20,000 km2)

Area of Occupancy: 13 4-km2 grid cells occupied D (6-25 4-km2 grid cells)

Number of Occurrences: **5 EORs** observed 2008 to 2017 **A (1-5 EORs)**



Additional Notes: Few nests that appear at irregular intervals; no consistent breeding population. Number of Viable Occurrences, B (Very few (1-3) occurrences with excellent or good viability).

Common Tern (Sterna hirundo)

Calculated Rank: S1

Short-term Trend:
Stable (-25 to 25%) per IWAP 2015
G (Relatively Stable <=10%)

Threats:

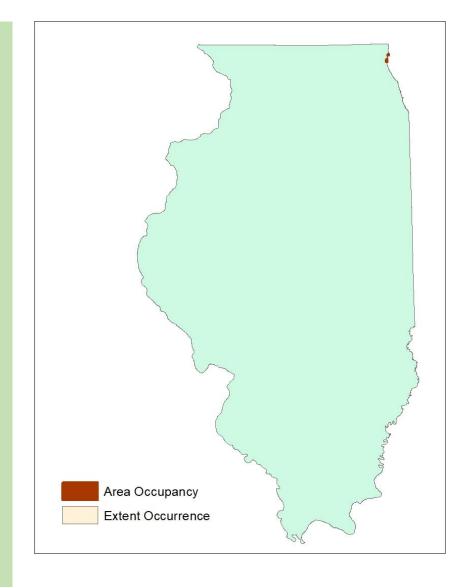
13 threats/stressors identified in IWAP
2015: Extent, Fragmentation, Compositionstructure, Distribution/Hydrology,
Invasives/Exotics, Pollutants-Sediment,
Competitors, Predators, Prey/Food,
Recruitment, Mortality, Disturbance,
Structures/Infrastructure. Severe threat
from invasive species
AC (Medium-Very High (>4))

Rarity:

Range Extent: 4 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 2
4-km2 grid cells
occupied
B (2 4-km2 grid cells)

Number of
Occurrences: 2 EORs
observed 2008 to
2017
A (1-5 EORs)



Forster's Tern (Sterna forsteri)

Calculated Rank: S1

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

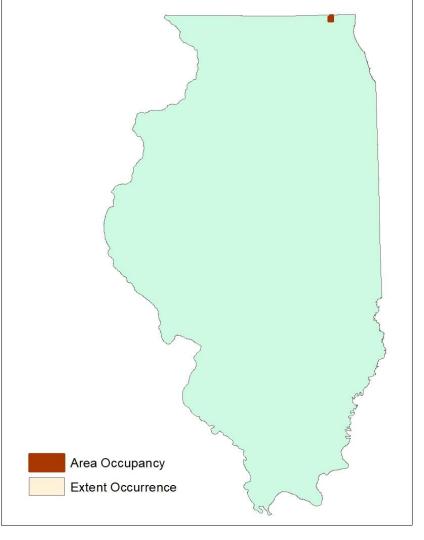
12 threats/stressors identified in IWAP
2015: Extent, Fragmentation,
Composition-structure,
Distribution/Hydrology, Invasives/Exotics,
Pollutants-Sediment, Predators,
Prey/Food, Recruitment, Mortality,
Disturbance, Structures/Infrastructure.
Severe threat from invasive species
AC (Medium-Very High (>4))

Rarity:

Range Extent: **15 km2** range extent per minimum convex polygon **A (<100 km2)**

Area of Occupancy: **7 or fewer** 4-km2 grid cells
occupied. Uncertainty due to
low EOR mapping accuracy **AD** (1-25 4-km2 grid cells)

Number of Occurrences: **1 EORs** observed 2008 to 2017 **A (1-5 EORs)**



Additional Notes: Number of Viable Occurrences is A (No occurrences with excellent or good (A or B) viability). Only one colony and it has experienced reproductive failure over past 10 years.

Least Tern (Sternula antillarum)

Calculated Rank: **S1S2**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

13 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Predators, Prey/Food, Genetics, Dispersal, Recruitment, Mortality, Disturbance, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: **3,921 km2** range extent per minimum convex polygon **D (1,000-5,000 km2)**

Area of Occupancy: 8 to 12 4-km2 grid cells occupied D (6-25 4-km2 grid cells)

Number of Occurrences: 6
EORs observed 2008 to
2017
B (6-20 EORs)

Area Occupancy **Extent Occurrence**

Additional Notes: Number of Viable Occurrences, B (Very few (1-3) occurrences with excellent or good viability. Trend due to success of single colony nesting on barges set out for the terns. Natural nesting sites of sand islands highly susceptible to flooding and predators with little yearly success. Dependent mostly on immigration outside of Illinois.

Black Tern (Chlidonias niger)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Predators, Recruitment, Mortality, Disturbance, Structures/Infrastructure. Severe threat from invasive species.

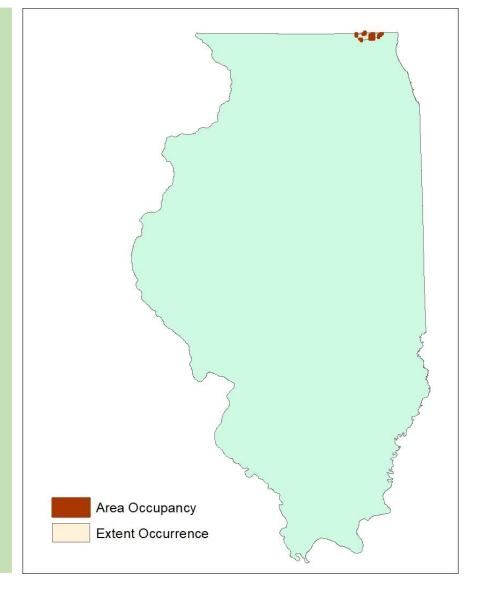
AC (Medium-Very High (>4))

Rarity:

Range Extent: **177 km2**range extent per
minimum convex polygon **B (100-250 km2)**

Area of Occupancy: 24 (or as few as 6) 4-km2 grid cells occupied.
Uncertainty due to low accuracy of EOR records.
D (6-25 4-km2 grid cells)

Number of Occurrences: 5
EORs observed 2008 to
2017
A (1-5 EORs)



Black-billed Cuckoo (Coccyzus erythropthalmus)

Calculated Rank: **S1S2**

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

8 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Predators, Recruitment, Mortality, Disturbance, Structures/Infrastructure
AC (Medium-Very High (>4))

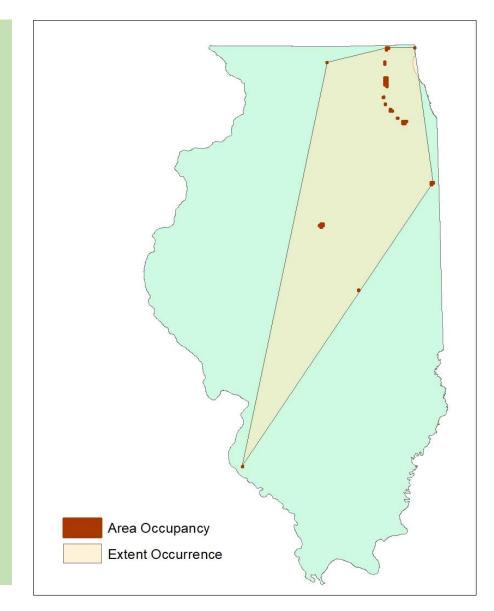
Rarity:

Range Extent: 42,568 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: **26 to 40** 4-km2 grid cells
occupied. Uncertainty due
to low accuracy of EOR
mapping.

E (26-125 4-km2 grid cells)

Number of Occurrences: 15 EORs observed 2008 to 2017 B (6-20 EORs)



Barn Owl (*Tyto alba*)

Calculated Rank: \$3\$4

Short-term Trend:
Increasing 25 to 50% per IWAP 2015
I (Increase of >25%)

Threats:

12 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Predators, Prey/Food, Dispersal, Recruitment, Mortality, Structures/Infrastructure

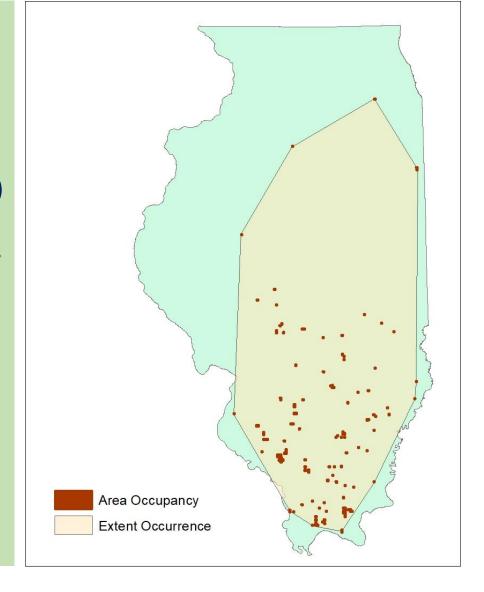
AC (Medium-Very High (>4))

Rarity:

Range Extent: **81,436 km2** range extent per
minimum convex
polygon **F (20,000-200,000 km2)**

Area of Occupancy: 134
4-km2 grid cells
occupied
F (126-500 4-km2 grid
cells)

Number of Occurrences: **2 EORs** observed 2008 to 2017 **CD (21-300 EORs)**



Short-eared Owl breeding (Asio flammeus)

Calculated Rank: **\$1\$2**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Prey/Food, Recruitment, Mortality, Disturbance, Structures/Infrastructure. Severe threat from invasive species.

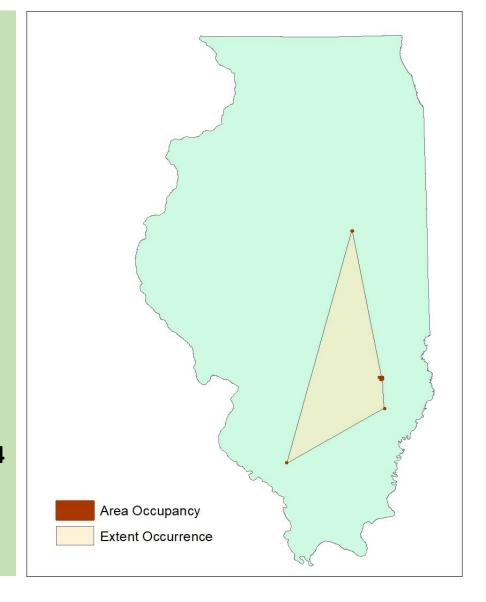
AC (Medium-Very High (>4))

Rarity:

Range Extent: 13,229 to
19,441 km2 range extent
per minimum convex
polygon. Uncertainty due
to unknown location use
class of some records.
E (5,000-20,000 km2)

Area of Occupancy: 6 to 9 4-km2 grid cells occupied D (6-25 4-km2 grid cells)

Number of Occurrences: 4 to 5 EORs observed 2008 to 2017 A (1-5 EORs)



Short-eared Owl wintering (Asio flammeus)

Calculated Rank: S2S3

Short-term Trend:
Stable (-25 to 25%) per IWAP 2015
G (Relatively Stable <=10%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Prey/Food, Recruitment, Mortality, Disturbance, Structures/Infrastructure. Severe threat from invasive species.

AC (Medium-Very High (>4))

Rarity:

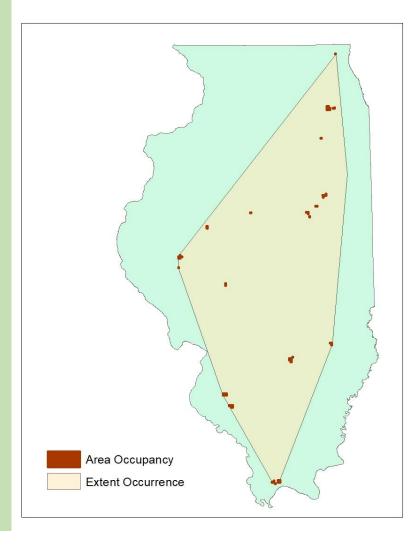
Range Extent: **66,739 to 70,051 km2** range extent per minimum convex polygon. Uncertainty due to unknown location use class of some records.

F (20,000-200,000 km2)

Area of Occupancy: **45 to 63** 4-km2 grid cells occupied.
Uncertainty due to low accuracy of EOR mapping.

E (26-125 4-km2 grid cells)

Number of Occurrences: 17 to 18 EORs observed 2008 to 2017 B (6-20 EORs)



Chuck-will's-widow (Caprimulgus carolinensis)

Calculated Rank: **S1S2**

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

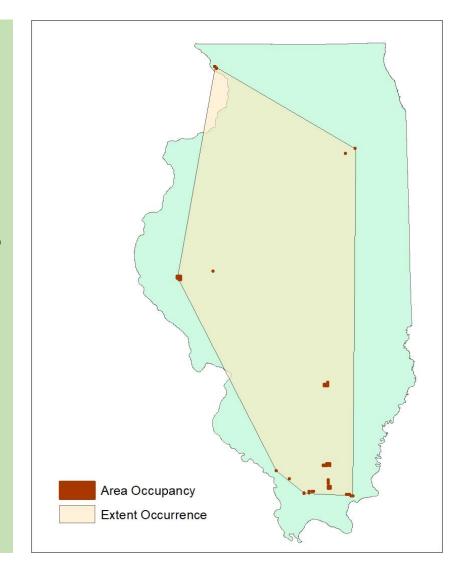
9 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Predators, Recruitment, Mortality, Structures/Infrastructure AC (Medium-Very High (>4))

Rarity:

Range Extent: **81,319 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: **40 to 45**4-km2 grid cells occupied.
Uncertainty due to low accuracy of EOR mapping. **E (26-125 4-km2 grid cells)**

Number of Occurrences: 13 EORs observed 2008 to 2017 B (6-20 EORs)



Bewick's Wren (Thryomanes bewickii)

Calculated Rank: S1

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

12 threats/stressors identified in IWAP

2015: Extent, Fragmentation,

Composition-structure,

Distribution/Hydrology,

Invasives/Exotics, Competitors,

Genetics, Dispersal, Recruitment,

Mortality, Disturbance,

Structures/Infrastructure

AC (Medium-Very High (>4))

Rarity:

Range Extent: 1 km2

range extent per

minimum convex

polygon

A (<100 km2)

Area of Occupancy: 1

4-km2 grid cell occupied

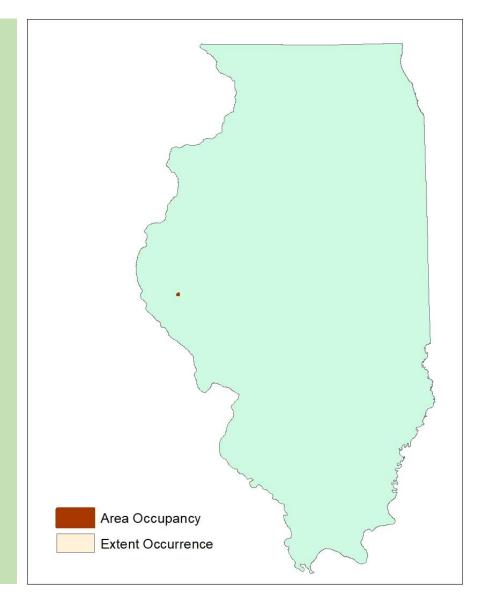
A (1 4-km2 grid cells)

Number of

Occurrences: 1 EOR

observed 2008 to

2017



Loggerhead Shrike (Lanius ludovicianus)

Calculated Rank: **\$1\$2**

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of >50%)

Threats:

"14 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Competitors, Predators, Prey/Food, Invasive/Exotics, Dispersal, Recruitment, Mortality, Structures/Infrastructure. Severe threat from invasive species.

AC (Medium-Very High (>4))

Rarity:

Range Extent: 65,845

km2 range extent per

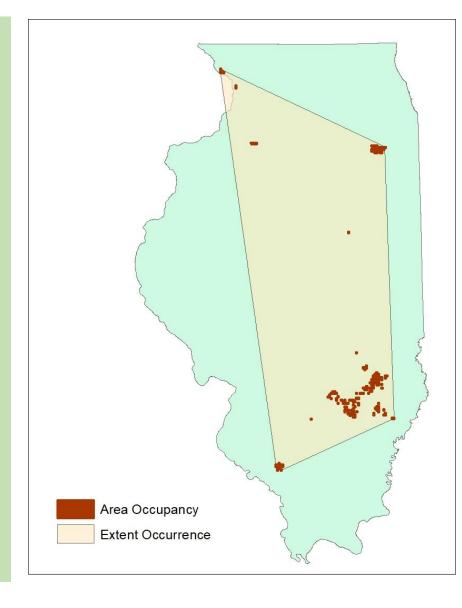
minimum convex

polygon

F (20,000-200,000 km2)

Area of Occupancy: 50 to 184 4-km2 grid cells occupied EF (26-500 4-km2 grid cells)

Number of Occurrences: 19 EORs observed 2008 to 2017 B (6-20 EORs)



Cerulean Warbler (Dendroica cerulea)

Calculated Rank: **S1S2**

Short-term Trend:

Declining 50 to 100% per IWAP 2015
AD (Decline of >50%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Predators, Parasites/Disease, Invasive/Exotics, Recruitment, Mortality, Structures/Infrastructure. Severe threat from invasive species.

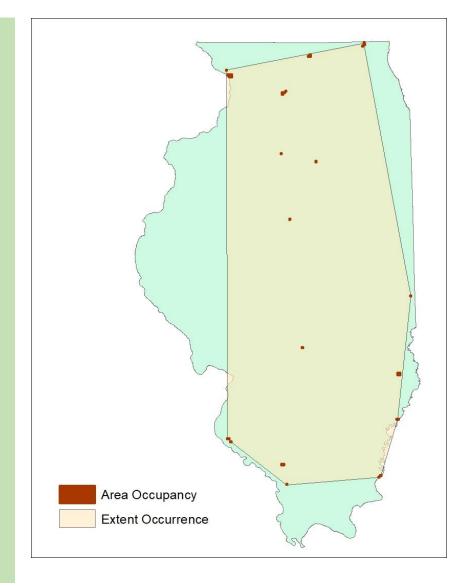
AC (Medium-Very High (>4))

Rarity:

Range Extent: 102,564 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 32 to 33 4-km2 grid cells occupied E (26-125 4-km2 grid cells)

Number of Occurrences: 16 EORs observed 2008 to 2017 B (6-20 EORs)



Swainson's Warbler (Limnothlypis swainsonii)

Calculated Rank: S1

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

12 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Predators, Parasites/Disease, Invasive/Exotics,

Dispersal, Recruitment, Mortality, Structures/Infrastructure

AC (Medium-Very High (>4))

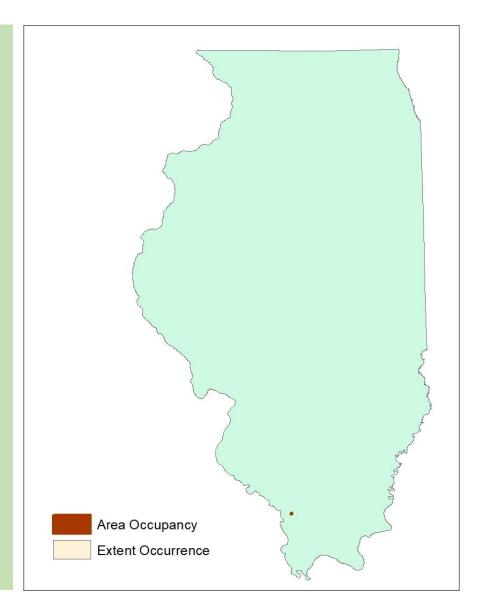
Rarity:

Range Extent: 1 km2 range extent per minimum convex polygon A (<100 km2)

Area of Occupancy: 1 4-km2 grid cells occupied A (1 4-km2 grid cells)

Number of observed 2008 to 2017

Occurrences: 1 EORs A (1-5 EORs)



Yellow-headed Blackbird (Xanthocephalus xanthocephalus)

Calculated Rank: **S1S2**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

15 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Competitors, Predators, Prey/Food, Genetics, Dispersal, Recruitment, Mortality, Disturbance, Structures/Infrastructure. Severe threat from invasive species.

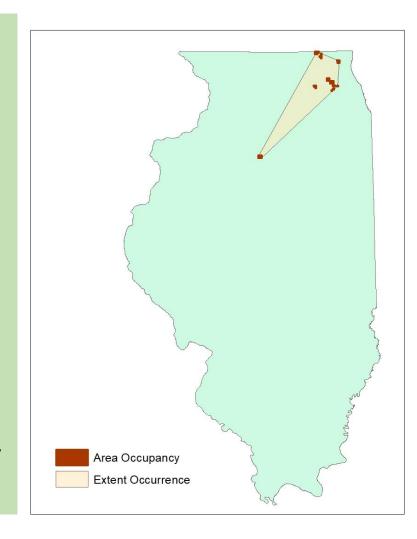
AC (Medium-Very High (>4))

Rarity:

Range Extent: **4,667 km2**range extent per minimum
convex polygon **D (1,000-5,000 km2)**

Area of Occupancy: **26 to 36**4-km2 grid cells occupied.
Uncertainty due to low
accuracy of EOR mapping. **E (26-125 4-km2 grid cells)**

Number of Occurrences: 6
EORs observed 2008 to 2017
B (6-20 EORs)



Jefferson Salamander (*Ambystoma jeffersonianum*)

Calculated Rank: **S2S3**

Short-term Trend:

Increase 50 to 100% per IWAP 2015

I (Increase of >25%)

Threats:

8 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Distribution/Hydrology, Competitors, Parasites/Disease, Genetics, Dispersal, Recruitment AC (Medium-Very High (>4))

Additional Notes: Edge of range,

S4 in IN

Rarity:

Range Extent: **394 km2** range extent per minimum convex

polygon

C (250-1,000 km2)

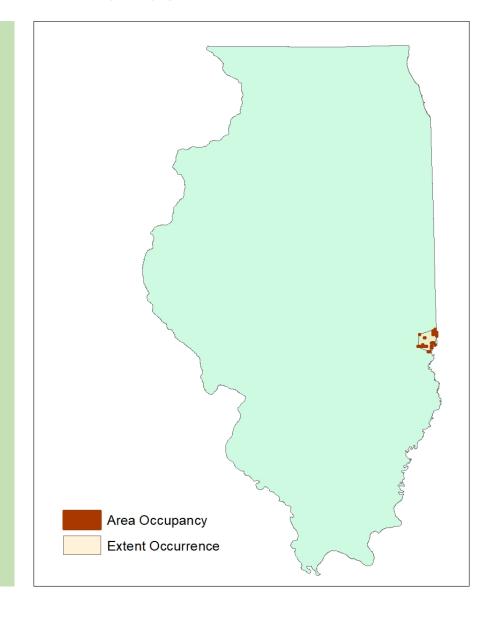
Area of Occupancy: 24 4-km2 grid cells occupied D (6-25 4-km2 grid

Number of

cells)

Occurrences: **12 EORs** observed 2008 to 2017

B (5-20 EORs)



Silvery Salamander (Ambystoma platineum)

Calculated Rank: **S2S3**

Short-term Trend:

Increase 50 to 100% per IWAP 2015

I (Increase of >25%)

Threats:

9 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Competitors, Parasites/Disease, Other Symbionts, Genetics, Recruitment AC (Medium-Very High (>4))

Additional Notes: Species not valid, Not in NatureServe

Rarity:

Range Extent: 610 km2

range extent per

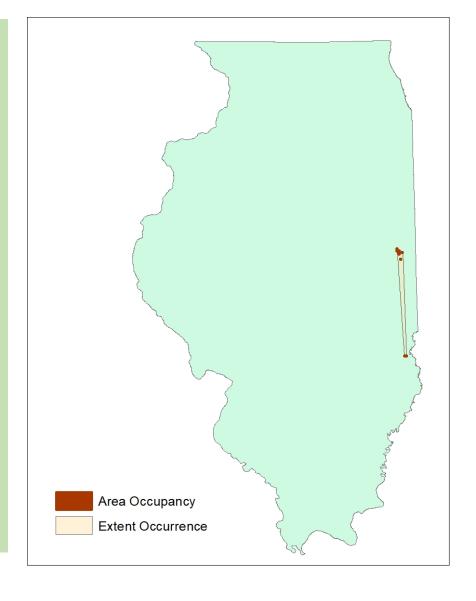
minimum convex

polygon

C (250-1,000 km2)

Area of Occupancy: 9 4-km2 grid cells occupied D (6-25 4-km2 grid cells)

Number of Occurrences: 7 EORs observed 2008 to 2017 B (5-20 EORs)



Hellbender (Cryptobranchus alleganiensis)

Calculated Rank: SH

Short-term Trend:

Declining 50 to 100% per IWAP 2015 AD (Decline of 70%)

Threats:

8 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Parasites/Disease, Genetics, Recruitment AC (Medium-Very High (>4)) Rarity:

Range Extent: No records in past

10 years

ZA (Zero to <1 km2)

Area of Occupancy: No records in

past 10 years

ZA (Zero to 4 1-km2 grid cells)

Number of Occurrences: No

records in past 10 years

ZA (0-5 EORs)

Additional Notes: eDNA surveys planned in southern Illinois.

Spotted Dusky Salamander (*Desmognathus conanti*)

Calculated Rank: S1S2

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015 G (Relatively Stable <=10%)

Threats:

10 threats/stressors identified in IWAP 2015: Extent, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Parasites/Disease, Invasive/Exotics, Genetics, Mortality, Disturbance, Structures/Infrastructure AC (Medium-Very High (>4))

Additional Notes: Edge of range

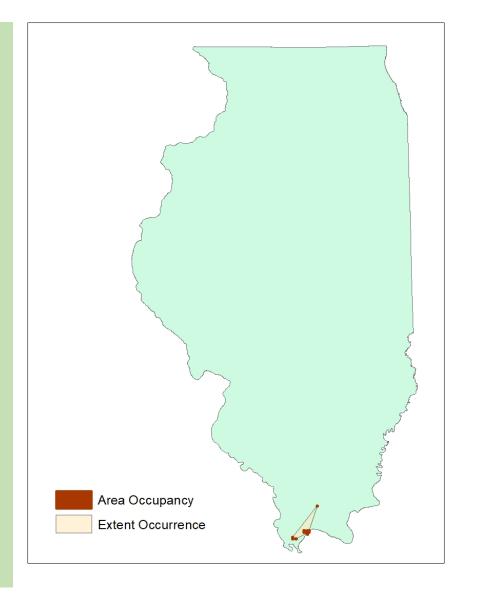
Rarity:

Range Extent: **319 km2** range extent per minimum convex polygon

C (250-1,000 km2)

Area of Occupancy: 19
1-km2 grid cells
occupied
C (11-20 1-km2 grid
cells)

Number of Occurrences: **5 EORs** observed 2008 to 2017 **A (1-5 EORs)**



Four-toed Salamander (Hemidactylium scutatum)

Calculated Rank: S1S2

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

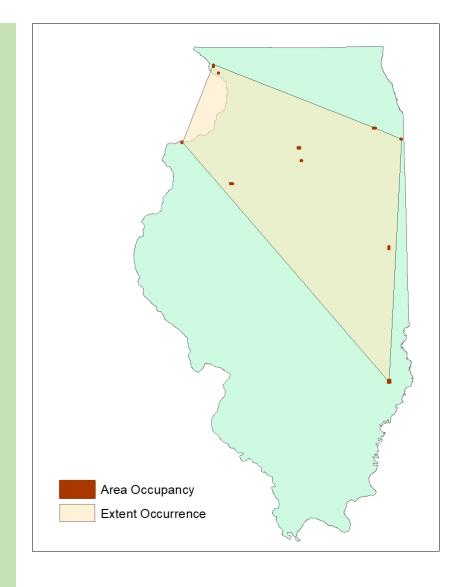
14 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Compositionstructure, Distribution/Hydrology, Pollutants-Sediment, Parasites/Disease, Invasives/Exotics (severe threat), Genetics, Dispersal, Recruitment, Mortality, Disturbance, Structures/Infrastructure AB (High-Very High (>4)) Rarity:

Range Extent: **54,273 km2** range extent per minimum convex polygon

F (20,000-200,000 km2)

Area of Occupancy: 18
4-km2 grid cells
occupied
D (6-25 4-km2 grid
cells)

Number of Occurrences: **10 EORs** observed 2008 to 2017 **B (5-20 EORs)**



Mudpuppy (Necturus maculosus)

Calculated Rank: S1S2

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of 70%)

Threats:

15 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Competitors, Predators, Parasites/Disease, Genetics, Dispersal, Recruitment, Mortality, Killing, Structures/Infrastructure

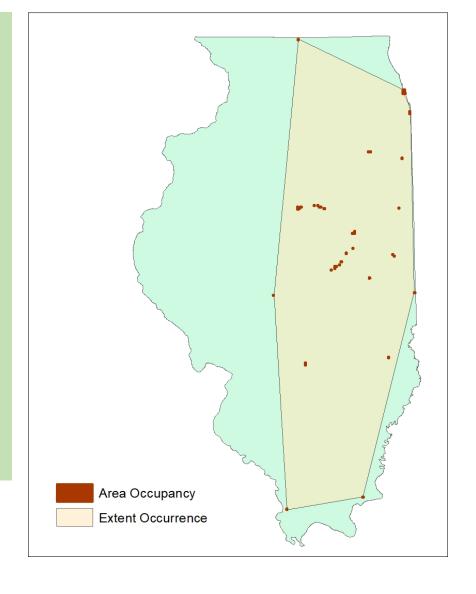
AC (Medium-Very High (>4))

Rarity:

Range Extent: **74,626 km2** range extent per minimum convex polygon **F (20,000-200,000 km2)**

Area of Occupancy: **59** 1-km2 grid cells occupied **D (21-100 1-km2 grid cells)**

Number of Occurrences: 21 EORs observed 2008 to 2017 C (21-80 EORs)



Additional Notes: More surveys in IL each year. May lead to more EORs in the future.

Bird-voiced Treefrog (Hyla avivoca)

Calculated Rank: S2?

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015

G (Relatively Stable <=10%)

Threats:

7 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Parasites/Disease, Killing, Disturbance, Structures/Infrastructure

AC (Medium-Very High (>4))

Additional Notes: Edge of range, S3 in KY

Rarity:

Range Extent: 970 km2

range extent per

minimum convex

polygon

C (250-1,000 km2)

Area of Occupancy: 41 to

44 4-km2 grid cells

occupied

E (26-125 4-km2 grid

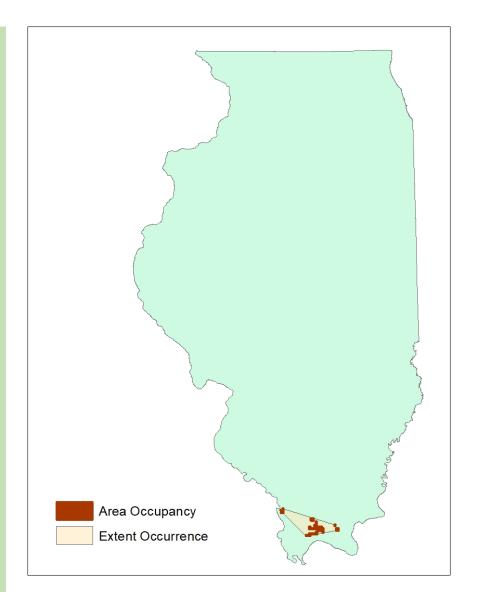
cells)

Number of Occurrences:

8 EORs observed 2008 to

2017

B (5-20 EORs)



Illinois Chorus Frog (*Pseudacris illinoensis*)

Calculated Rank: **S2S3**

Short-term Trend:

Stable (-25 to 25%) per IWAP 2015 G (Relatively Stable <=10%)

Threats:

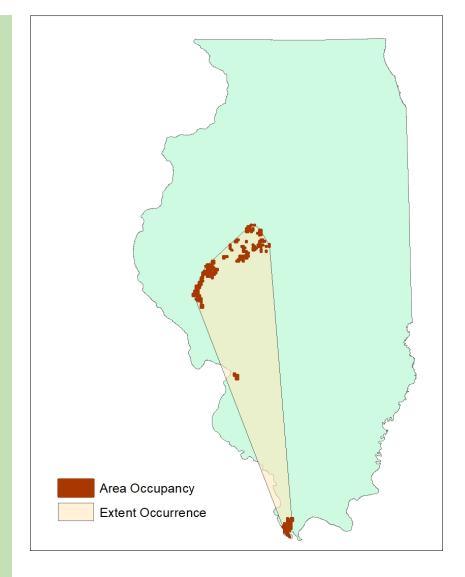
7 threats/stressors identified in IWAP
2015: Extent, Fragmentation,
Composition-structure,
Distribution/Hydrology, Invasives/Exotics,
Pollutants-Sediment, Parasites/Disease,
Other Symbionts, Genetics, Dispersal,
Recruitment, Mortality, Killing,
Disturbance, Structures/Infrastructure
AC (Medium-Very High (>4))

Rarity:

Range Extent: 21,283
km2 range extent per
minimum convex
polygon
F (20,000-200,000 km2)

Area of Occupancy: 223
4-km2 grid cells
occupied
F (126-500 4-km2 grid
cells)

Number of Occurrences: **20 EORs** observed 2008 to 2017 **B (5-20 EORs)**



Eastern Narrowmouth Toad (Gastrophryne carolinensis)

Calculated Rank: **S2S3**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

6 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Distribution/Hydrology, Parasites/Disease, Recruitment, Structures/Infrastructure AC (Medium-Very High (>4))

Additional Notes: Edge of range, S5 in MO

Rarity:

Range Extent: 727 km2

range extent per

minimum convex

polygon

C (250-1,000 km2)

Area of Occupancy: 23

4-km2 grid cells

occupied

D (6-25 4-km2 grid

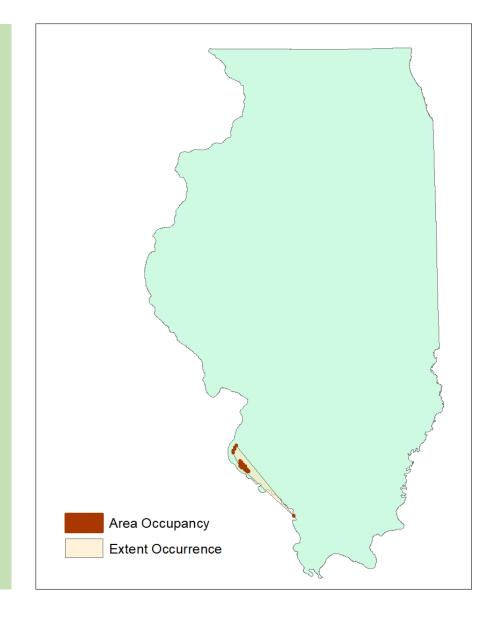
cells)

Number of Occurrences:

6 EORs observed 2008

to 2017

B (5-20 EORs)



Alligator Snapping Turtle (Macrochelys temminckii)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of 70%)

Threats:

8 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Parasites/Disease, Genetics, Recruitment, Mortality AC (Medium-Very High (>4))

Additional Notes: Edge of range, S2 in MO and KY

Rarity:

Range Extent: 22 km2

range extent per

minimum convex

polygon

A (<100 km2)

Area of Occupancy: 20

1-km2 grid cells

occupied

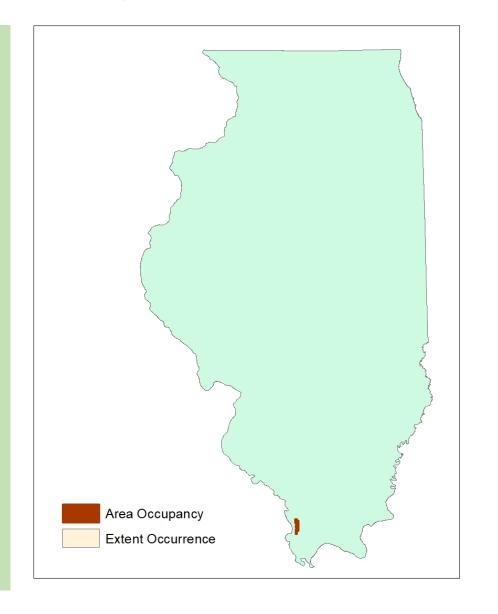
C (11-20 1-km2 grid

cells)

Number of Occurrences:

1 EORs observed 2008

to 2017



Spotted Turtle (Clemmys guttata)

Calculated Rank: S1S2

Short-term Trend:
Stable (-25 to 25%) per IWAP 2015
G (Relatively Stable <=10%)

Threats:

15 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Predators, Parasites/Disease, Hosts, Genetics, Dispersal, Recruitment, Mortality, Killing, Disturbance AC (Medium-Very High (>4))

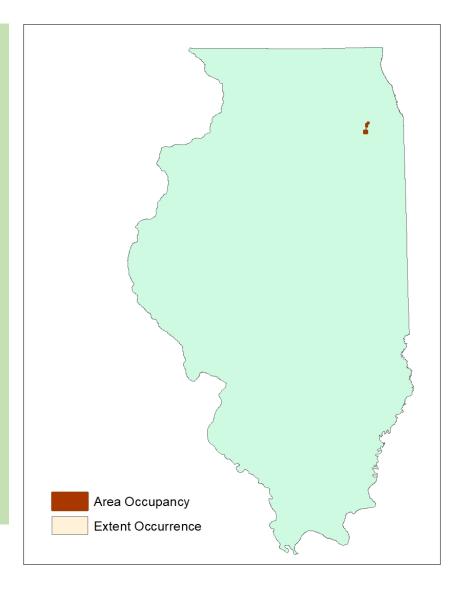
Rarity:

Range Extent: 15 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 6 4-km2 grid cells occupied D (6-25 4-km2 grid cells)

Number of Occurrences: **2 EORs** observed 2008 to 2017 **A (1-5 EORs)**

Additional Notes: Edge of range, S2 in IN



Blanding's Turtle (*Emydoidea blandingii*)

Calculated Rank: **S2S3**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

14 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Pollutants-Sediment, Predators, Parasites/Disease, Dispersal, Recruitment, Mortality, Killing, Disturbance, Structures/Infrastructure

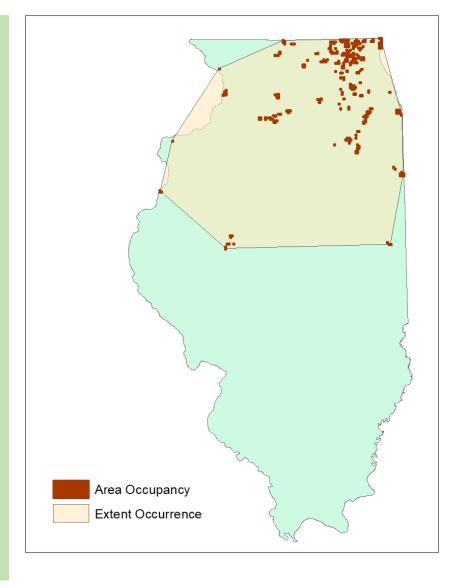
AC (Medium-Very High (>4))

Rarity:

Range Extent: **62,245 km2** range extent per
minimum convex
polygon **F (20,000-200,000 km2)**

Area of Occupancy: 272 to 284 4-km2 grid cells occupied F (126-500 4-km2 grid cells)

Number of Occurrences: **90 EORs** observed 2008 to 2017 **D (81-300 EORs)**



River Cooter (*Pseudemys concinna*)

Calculated Rank: S1

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

10 threats/stressors identified in IWAP 2015: Extent, Composition-structure, Distribution/Hydrology, Predators, Parasites/Disease, Genetics, Recruitment, Mortality, Disturbance, Structures/Infrastructure

AC (Medium-Very High (>4))

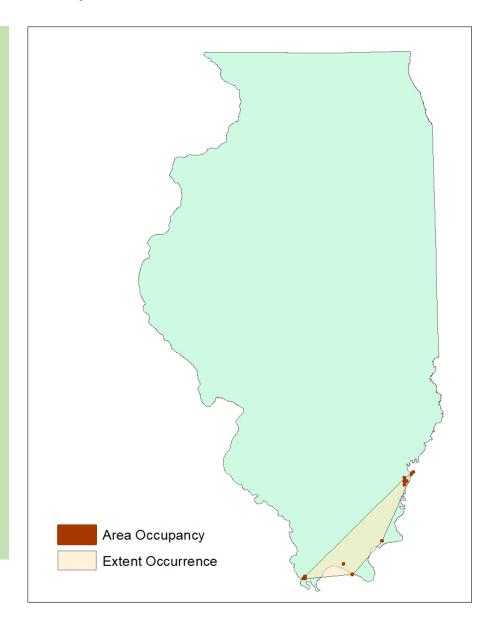
Additional Notes: Edge of Range. Need more surveys in IL.

Rarity:

Range Extent: **3,920 km2** range extent per minimum convex polygon **D (1,000-5,000 km2)**

Area of Occupancy: 17 4-km2 grid cells occupied C (11-20 1-km2 grid cells)

Number of Occurrences: **5 EORs** observed 2008 to 2017 **A (1-5 EORs)**



Ornate Box Turtle (Terrapene ornata)

Calculated Rank: S1S2

Short-term Trend:

Declining 50 to 100% per IWAP 2015 AD (Decline of 70%)

Threats:

14 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Invasives/Exotics, Predators, Parasites/Disease, Dispersal, Recruitment, Mortality, Killing, Disturbance, Structures/Infrastructure AC (Medium-Very High (>4))

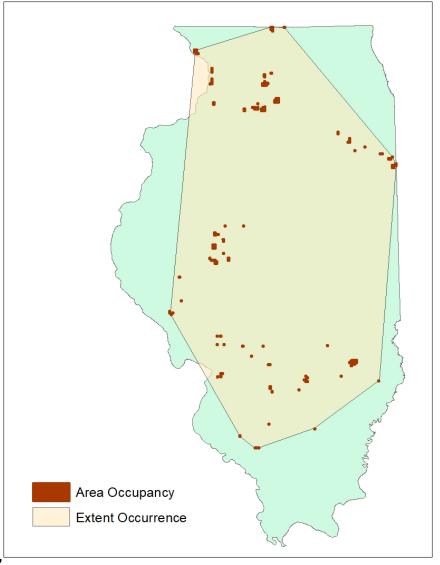
Rarity:

Range Extent: 99,295 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 139 to 143 4-km2 grid cells occupied F (126-500 4-km2 grid cells)

Number of Occurrences: **58 EORs** observed 2008 to 2017 **C (21-80 EORs)**

Additional Notes: Edge of range, Not ranked in MO, S2 in IA



Yellow Mud Turtle (Kinosternon flavescens)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of 70%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Predators, Parasites/Disease, Genetics, Dispersal, Recruitment, Mortality, Disturbance

AC (Medium-Very High (>4))

Additional Notes: Edge of range- disjunct

Rarity:

Range Extent: **960 km2** range extent per

minimum convex

polygon

C (250-1,000 km2)

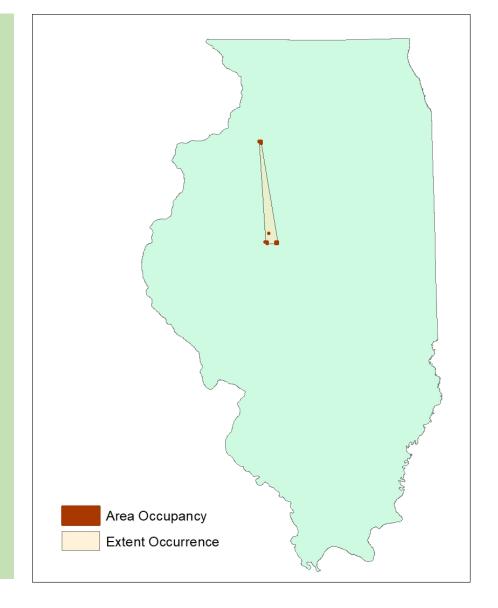
Area of Occupancy: **10**4-km2 grid cells
occupied

D (6-25 4-km2 grid cells)

Number of

Occurrences: 4 EORs

observed 2008 to 2017



Smooth Softshell (Apalone mutica)

Calculated Rank: S1S2

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of 70%)

Threats:

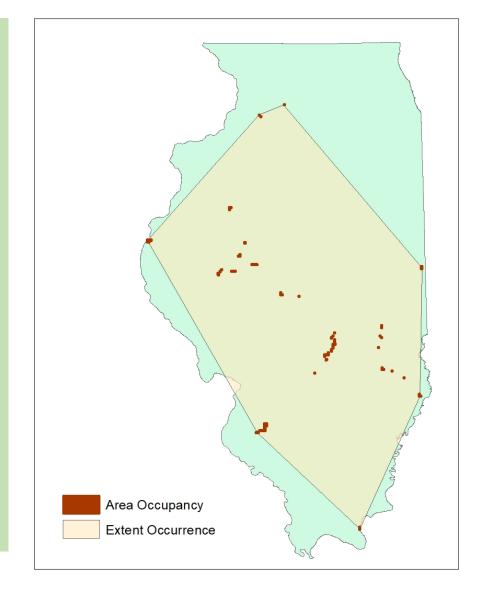
10 threats/stressors identified in IWAP 2015: Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Predators, Parasites/Disease, Genetics, Dispersal, Recruitment, Killing AC (Medium-Very High (>4))

Rarity:

Range Extent: 94,191 km2 range extent per minimum convex polygon F (20,000-200,000 km2)

Area of Occupancy: 115
to 116 1-km2 grid cells
occupied
E (101-500 1-km2 grid
cells)

Number of Occurrences: 23 EORs observed 2008 to 2017 C (21-80 EORs)



Kirtland's Snake (Clonophis kirtlandi)

Calculated Rank: S1S2

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

13 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Parasites/Disease, Prey/Food, Genetics, Dispersal, Recruitment, Mortality, Killing, Disturbance, Structures/Infrastructure

AC (Medium-Very High (>4))

Rarity:

Range Extent: **16,501 km2** range extent per minimum convex polygon

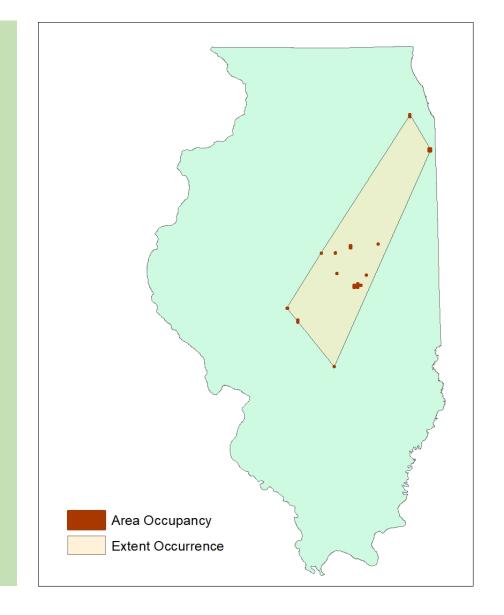
E (5,000-20,000 km2)

Area of Occupancy: 23
4-km2 grid cells
occupied
D (6-25 4-km2 grid
cells)

Number of

Occurrences: **13 EORs** observed 2008 to 2017

B (5-20 EORs)



Great Plains Ratsnake (Pantherophis emoryi)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of 70%)

Threats:

10 threats/stressors identified in IWAP 2015: Extent, Composition-structure, Distribution/Hydrology, Predators, Parasites/Disease, Genetics, Recruitment, Mortality, Disturbance, Structures/Infrastructure
AC (Medium-Very High (>4))

Additional Notes: Edge of range, S5 in MO

Rarity:

Range Extent: 85 km2

range extent per

minimum convex

polygon

A (<100 km2)

Area of Occupancy: 11

4-km2 grid cells

occupied

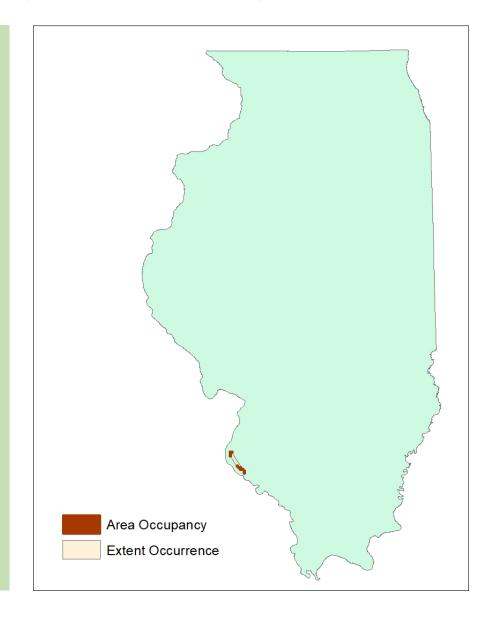
D (6-25 4-km2 grid

cells)

Number of Occurrences:

2 EORs observed 2008

to 2017



Plains Hog-nosed Snake (Heterodon nasicus)

Calculated Rank: S1S2

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

14 threats/stressors identified in IWAP
2015: Extent, Fragmentation,
Composition-structure,
Distribution/Hydrology,
Invasives/Exotics (severe threat),
Predators, Parasites/Disease, Dispersal,
Recruitment, Mortality, Killing,
Disturbance, Structures/Infrastructure
AB (High-Very High (>4))

Rarity:

Range Extent: 33,011 km2

range extent per

minimum convex polygon

F (20,000-200,000 km2)

Area of Occupancy: 26 to

28 4-km2 grid cells

occupied

E (26-125 4-km2 grid

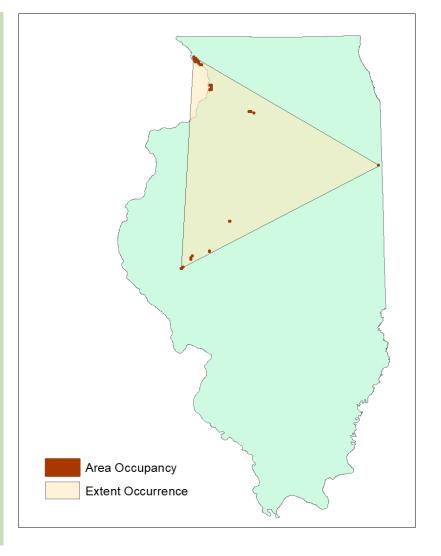
cells)

Number of Occurrences:

10 EORs observed 2008 to

2017

B (5-20 EORs)



Additional Notes: Edge of range- disjunct

Coachwhip (Masticophis flagellum)

Calculated Rank: SH

Short-term Trend:

Declining 50 to 100% per IWAP 2015 AD (Decline of 70%)

Threats:

9 threats/stressors identified in IWAP 2015: Extent, Composition-structure, Distribution/Hydrology, Competitors, Genetics, Recruitment, Mortality, Disturbance, Structures/Infrastructure

AC (Medium-Very High (>4))

Rarity:

Range Extent: No Records in

past 10 years

ZA (Zero to <100 km2)

Area of Occupancy: No Records in past 10 years ZA (Zero to 1 4-km2 grid cells)

Number of Occurrences: **No Records in past 10 years ZA (0-5 EORs)**

Additional Notes: Edge of range, not ranked in MO. More surveys needed in IL.

Mississippi Green Watersnake (Nerodia cyclopion)

Calculated Rank: S1

Short-term Trend:
Stable (-25 to 25%) per IWAP 2015
G (Relatively Stable <=10%)

Threats:

7 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Distribution/Hydrology, Predators, Parasites/Disease, Mortality, Structures/Infrastructure
AC (Medium-Very High (>4))

Additional Notes: Edge of range, S1 in KY

Rarity:

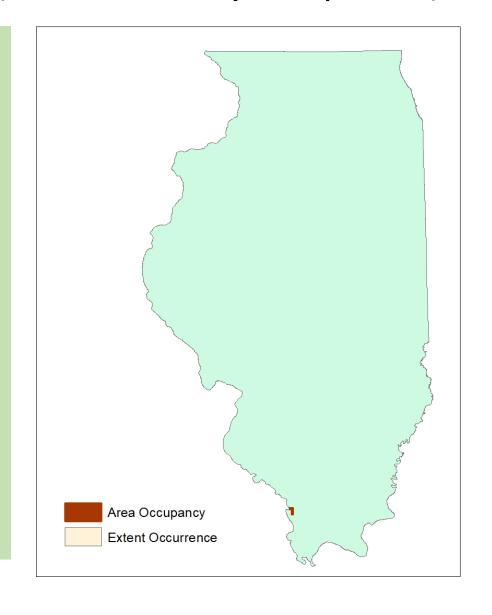
Range Extent: 4 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 9 1-km2 grid cells occupied B (5-10 1-km2 grid cells)

Number of

Occurrences: 1 EORs

observed 2008 to 2017



Southern Watersnake (Nerodia fasciata)

Calculated Rank: SH

Short-term Trend:

Declining 50 to 100% per IWAP 2015 AD (Decline of 70%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Pollutants-Sediment, Competitors, Genetics, Recruitment, Mortality, Disturbance, Structures/Infrastructure

AC (Medium-Very High (>4))

Rarity:

Range Extent: No Records in

past 10 years

ZA (Zero to <100 km2)

Area of Occupancy: No
Records in past 10 years
ZA (Zero to 4 1-km2 grid cells)

Number of Occurrences: **No Records in past 10 years ZA (0-5 EORs)**

Additional Notes: Edge of range; not ranked in MO; S1 in KY; More surveys needed in IL.

Flathead Snake (*Tantilla gracilis*)

Calculated Rank: S1

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

17 threats/stressors identified in IWAP
2015: Extent, Fragmentation, Compositionstructure, Distribution/Hydrology,
Pollutants-Sediment, Competitors,
Predators, Parasites/Disease,
Invasives/Exotics (severe threat), Genetics,
Dispersal, Recruitment, Mortality, Killing,
Disturbance, Structures/Infrastructure
AB (High-Very High (>4))

Rarity:

Range Extent: 888 km2

range extent per

minimum convex

polygon

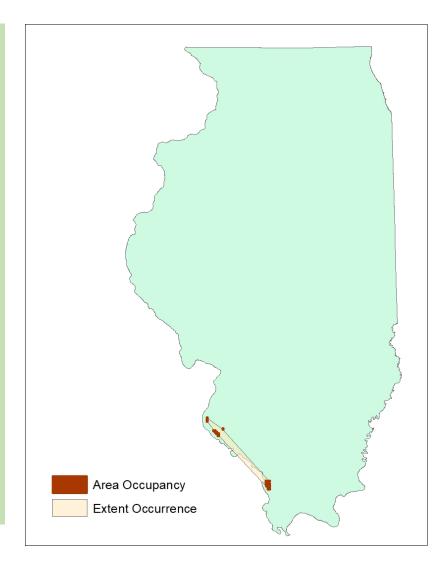
C (250-1,000 km2)

Area of Occupancy: 23 4-km2 grid cells occupied D (6-25 4-km2 grid cells)

Number of Occurrences: **5 EORs** observed 2008 to 2017

A (1-5 EORs)

Additional Notes: Edge of range, S4 in MO



Eastern Ribbon Snake (*Thamnophis sauritus*)

Calculated Rank: \$1?

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

8 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Distribution/Hydrology, Genetics, Recruitment, Mortality, Structures/Infrastructure

AC (Medium-Very High (>4))

Additional Notes: Edge of range,

Not ranked in IN

Rarity:

Range Extent: 2,970

km2 range extent per

minimum convex

polygon

D (1,000-5,000 km2)

Area of Occupancy: 19

4-km2 grid cells

occupied

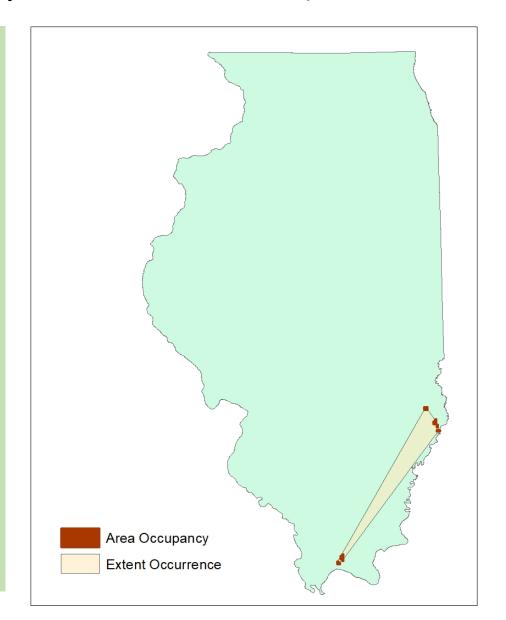
D (6-25 4-km2 grid

cells)

Number of

Occurrences: 5 EORs

observed 2008 to 2017



Lined Snake (*Tropidoclonion lineatum*)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IWAP 2015 AD (Decline of 70%)

Threats:

11 threats/stressors identified in IWAP 2015: Extent, Fragmentation, Composition-structure, Competitors, Predators, Parasites/Disease, Genetics, Dispersal, Recruitment, Mortality, Killing, Disturbance, Structures/Infrastructure

AC (Medium-Very High (>4))

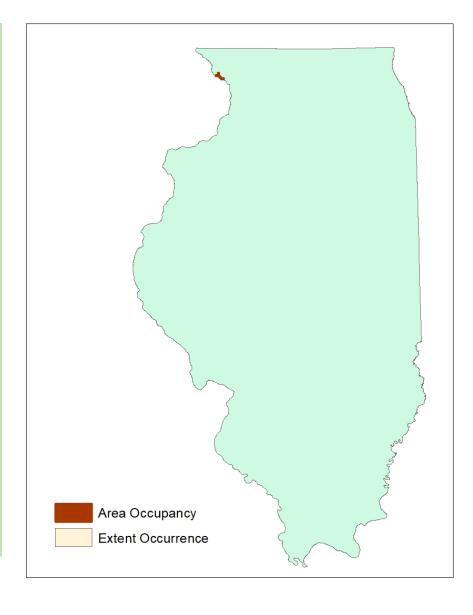
Additional Notes: Edge of range- disjunct

Rarity:

Range Extent: 16 km2
range extent per
minimum convex
polygon
A (<100 km2)

Area of Occupancy: 6 4-km2 grid cells occupied D (6-25 4-km2 grid cells)

Number of Occurrences: 1 EORs observed 2008 to 2017 A (1-5 EORs)



Timber Rattlesnake (*Crotalus horridus*)

Calculated Rank: **S2S3**

Short-term Trend:

Declining 25 to 50% per IWAP 2015

E (Decline of 30-50%)

Threats:

15 threats/stressors identified in IWAP
2015: Extent, Fragmentation, Compositionstructure, Distribution/Hydrology,
Invasives/Exotics, Predators,
Parasites/Disease, Other Symbionts,
Genetics, Dispersal, Recruitment,
Mortality, Killing, Disturbance,
Structures/Infrastructure
AC (Medium-Very High (>4))

Rarity:

Range Extent: **55,617 km2** range extent per

minimum convex

polygon

F (20,000-200,000 km2)

Area of Occupancy: 149

to 157 4-km2 grid cells

occupied

F (126-500 4-km2 grid

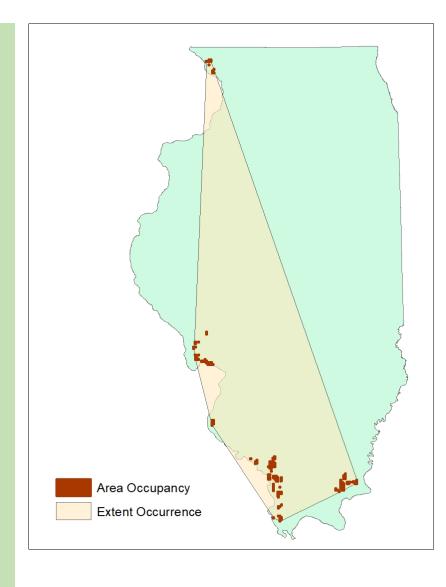
cells)

Number of Occurrences:

27 EORs observed 2008

to 2017

C (21-80 EORs)



Eastern Massasauga (Sistrurus catenatus catenatus)

Calculated Rank: S1

Short-term Trend:

Declining 50 to 100% per IWAP 2015

AD (Decline of 70%)

Threats:

7 threats/stressors identified in

IWAP 2015: Extent,

Distribution/Hydrology, Pollutants-

Sediment, Invasive/Exotics,

Genetics, Disturbance,

Structures/Infrastructure

AC (Medium-Very High (>4))

Additional Notes: 0 to 1 EORs considered viable per USFWS.

Rarity:

Range Extent: 36,708

km2 range extent per

minimum convex

polygon

F (20,000-200,000 km2)

Area of Occupancy: 36

4-km2 grid cells

occupied

E (26-125 4-km2 grid

cells)

Number of

Occurrences: 3 EORs

observed 2008 to 2017

