Recreational Wildlife Viewing Management, Crystal River National Wildlife Refuge

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Framing the Situation: Three Sisters Springs

- The springs, manatees, people, culture, and concerns.
- 2015 management actions & springs activity monitoring
- 2015 2016 NEPA manatee season and beyond
- The Service's approach



The Service's approach

... a safe, high-quality inwater wildlife viewing experience that does not compromise manatee protection.







The springs, manatees, people, culture, and concerns.

- How we got here
- Manatees and people
- What changed
- Culture and economy
- Concerns



2015 management actions & springs activity monitoring

- Recent management actions
- Monitoring study 1 & 2



Monitoring 1: Manatees, People, and Three Sisters

Springs — observations by Carl Wolfe and Rae Ellen Syverson

- Manatees' Springs use.
- Tide and temperature influences; presence or absence of swimmers or paddlecraft.
- Adverse interactions manatee movements.
- Manatees and humans mutual curiosity.
- Springs run (entrance channel).
- Tour group behavior w/ and w/o guides.
- Manatee behavior w/ and w/o people.



Monitoring 2: Manatees and People in Three Sisters

Springs - Observations by the Crystal River NWR Winter Interns

1. Paddlecraft in spring run blocked, collided, and paddled over manatees.





Summary of observations (cont.)

2. Bad behavior: swimmers in the spring run, walked, blocked, swam over, collided, and pursued manatees.



Summary of observations (cont.)

3. In-springs manatee distribution:

Cow/calf pairs and other manatees generally showed a preference for the closed lobes.



Three Sisters Springs NEPA for 2015 – 2016 manatee season and beyond

EA will evaluate:

- Recent measures implemented.
- Behavior of viewers in the spring.
- Number of people (crowding) within the spring.
- Manatee's ability to get in and out of the spring.



Summary

- The Refuge is evaluating public access.
- Last season's monitoring informing selected management approach.
- Commitment to working with partners and stakeholders to protect manatees.



