

Lightning Talk

Understanding Monarch Butterfly and Wind Energy Interactions

Bethanne Bruninga-Socular

WEST Inc.



Wind Energy

Pros

- Clean energy
- Renewable
- Low operating cost
- Small footprint
- Supports economic growth

Cons

- High up-front cost
- Noise
- Visual
- Direct impacts to volant species



Estimating Fatality Rates for Birds and Bats

- Searcher Efficiency: Probability the searcher detected the carcass
- Carcass Persistence: Average probability a carcass remained available to be found during the search interval
- Area Correction: Adjustment for the area searched



Fatality Rate Calculation for Monarch Butterfly

- ✓ Searcher Efficiency
- ✓ Area Correction
- Carcass Persistence:
 - What happens to carcasses when they land?
 - Does wind affect the location of carcasses?
 - Are carcasses found coming from other areas?
- Background Mortality



Rosa Palmer
rpalmer@west-inc.com
(832) 248-7736

