Prokopenko, C., Avgar, T., Ford, A., and Vander Wal, E. Optimal prey switching: Predator foraging costs provide a mechanism for functional responses in multi-prey systems. *Ecology*

### Data S2

### Literature survey data from Appendix S2

### Author(s) [of the material provided in DataS2]

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### File list (files found within DataS2)

literaturesurvey\_data.csv

**Description**

literaturesurvey\_data.csv – papers processes for literature survey

* Search terms: terms entered into web of science that retrieved the paper
* First author: the first author of the paper
* Year: year of the paper
* Journal: journal paper was published
* Study Type: how the research was conducted, field, lab, experimental
* Study Location: where the research was conducted
* Study period: duration of research
* Season: Season research was conducted
* Nyears: Number of years research was conducted
* Predator subphylum: Suphylum of predators
* Predator class: Class of predators
* N\_predators: Number of distinct predator types
* Predtypes: How distinct predato types were defined.
* Predator species: Predator species
* N\_prey: Number of distinct prey types
* Prey types: How distinct prey types were defined, species, age class,
* Prey 1… : Names of distinct prey types included
* DietMeasure: The measure of prey consumption
* DietMethod: Method used to collect diet data
* PreyMeasure: the measure of prey amount – abundance, frequency, density… etc
* PreyMethod: Method used to collect density data
* Proportional: Do predators consume prey in proportion to their availability? 1 for yes, 0 for No, unknown, or blank
* Preference: Do predators exhibit preference? 1 for yes, 0 for No, unknown or blank
* VulnerabilityMentioned: Was prey vulnerability mentioned in the paper? 1 for yes, 0 for No, or blank
* VulnerabilitySection: Section of the paper where vulnerability was mentioned
* PreyInfo:Was information about prey included? 1 for yes, 0 for No, or blank
* Missing: If information was missing for my particular purposes
* N\_traits: how many traits were discussed in the paper
* Trait\_1… : Specific traits that were mentioned
* TraitSection: What section of the paper were traits mentioned?
* PredatorDependent: Were the dynamics predator dependent?
* FRCurves: Were functional responses plotted? 1 for yes, 0 for No, or blank
* FRType: What type functional response curves? I, II, III
* Metric: Analysis used to test preference for prey in diet
* Energy: Was energy mentioned in the paper as an important factor
* SearchImage: Was search image mentioned? 1 for yes, 0 for No, or blank
* PredatorLarger: Is the predator larger than the prey? 1 for yes, 0 for No, 2 for both, or blank
* SocialPredators: Are predators social when hunting? 1 for yes, 0 for No, or blank
* Notes: Additional notes

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