**Table S1. Detection probability for each species within a 100 and 150 radius.**

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| --- | --- | --- | --- | --- | --- |
| **Species** | **Distance** | **Detection**  **probability** | **Species** | **Distance** | **Detection**  **probability** |
| Acorn woodpecker  *Melanerpes formicivorus* | 150 | 0.477 | European starling  *Sturnus vulgaris* | 150 | 0.435 |
| 100 | 0.404 | 100 | 0.432 |
| American crow  *Corvus brachyrhynchos* | 150 | 0.301 | Lesser goldfinch  *Spinus psaltria* | 150 | 0.392 |
| 100 | 0.235 | 100 | 0.363 |
| American robin  *Turdus migratorius* | 150 | 0.316 | Mourning dove  *Zenaida macroura* | 150 | 0.291 |
| 100 | 0.258 | 100 | 0.239 |
| Black phoebe  *Sayornis nigricans* | 150 | 0.342 | Nuttall’s woodpecker  *Dryobates nuttallii* | 150 | 0.166 |
| 100 | 0.321 | 100 | 0.166 |
| Brewer’s blackbird  *Euphagus cyanocephalus* | 150 | 0.252 | Oak titmouse  *Baeolophus inornatus* | 150 | 0.291 |
| 100 | 0.211 | 100 | 0.270 |
| Bushtit  *Psaltriparus minimus* | 100 | 0.291 | Red-shouldered hawk  *Buteo lineatus* | 100 | 0.193 |
| 150 | 0.291 | 150 | 0.193 |
| Cassin’s kingbird  *Tyranus vociferans* | 100 | 0.166 | Red-tailed hawk  *Buteo jamaicensis* | 150 | 0.240 |
| 150 | 0.166 | 100 | 0.239 |
| California towhee  *Melozone crissalis* | 150 | 0.426 | Song sparrow  *Melospiza melodia* | 150 | 0.482 |
| 100 | 0.414 | 100 | 0.385 |
| California quail  *Callipepla californica* | 150 | 0.429 | Tree swallow  *Tachycineta bicolor* | 150 | 0.232 |
| 100 | 0.223 | 100 | 0.200 |
| California scrub jay  *Aphelocoma californica* | 100 | 0.330 | Western bluebird  *Sialia mexicana* | 150 | 0.106 |
| 150 | 0.328 | 100 | 0.074 |
| Cliff swallow  *Petrochelidon pyrrhonota* | 100 | 0.232 | Western kingbird  *Tyrannus verticalis* | 100 | 0.074 |
| 150 | 0.232 | 150 | 0.074 |
| Eurasian collared-dove  *Streptopelia decaocto* | 150 | 0.240 | Wrentit  *Chamaea fasciata* | 150 | 0.385 |
| 100 | 0.197 | 100 | 0.185 |