**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 |