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| **Dataset** | **Description** | **Sample Size** |
| 1. Full dataset | To provide an overview of the data: all samples  | 113 |
| 2. November | To account for the possibility of month-to-month sampling variation  | 60 |
| 3. Excluding *G. septentrionalis* | To disentangle the vampire finch factor for assessing the significance of other factors |  |
|  a. Balanced by season | 41 finches from each of the wet and dry seasons (not subset) | 82 |
|  b. Balanced season & diet | 10 herbivorous/dry season (random subset from 31), 10 herbivorous/wet (random subset from 25), 10 insectivorous/dry (random subset from 16), and 10 insectivorous/wet | 40 |
| 4. Herbivores | To test season accounting for diet, 25 wet-season and 25 (random subset from 31) dry-season | 50 |
| 5. Insectivores | To test season accounting for diet, 10 wet-season and 10 (random subset from 16) dry-season | 20 |
| 6. *G. fuliginosa* | The small-beaked ground finch, an herbivore (seeds) sampled across the wet/dry seasons and San Cristóbal/Santa Cruz Islands |  |
|  a. Balanced by season | To test season accounting for species, 11 dry-season and 11 (random subset from 16) wet-season | 22 |
|  b. Balanced by island | To test island accounting for species and season, during the dry season only, 4 Santa Cruz and 4 (subset from 7) San Cristóbal | 8a |
| 7. *G. fuliginosa* & *G. fortis* | The small- and medium-beak ground finch (both seed-eaters), sampled across the wet/dry seasons and San Cristóbal/Santa Cruz Islands |  |
|  a. Balanced by season | To test season roughly accounting for species, 15 dry-season and 15 (random subset from 18) wet-season | 30 |
|  b. Balanced by species | To confirm the species are not distinct to test (a) and (c), 11 *G. fortis* and 11 (subset from 22) *G. fuliginosa* | 22 |
|  c. Balanced by island | To test island roughly accounting for species, 12 Santa Cruz, Santa Fé, and North Seymour island group and 12 (random subset from 21) San Cristóbal | 24 |
| 8. *G. fuliginosa* on San Cristóbal Island | To test season accounting for species and island, 7 dry-season and 7 (random subset from 8) wet-season | 14 |
| 9. No *G. septentrionalis*, dry season | To test diet accounting for sanguivory and season, 16 insectivorous and 16 (random subset from 25) herbivorous finches | 32 |
| 10. No *G. septentrionalis*, wet season | To test diet accounting for sanguivory and season, 10 insectivorous and 10 (random subset from 31) herbivorous finches | 20 |
| 11. Herbivores and insectivores, Santa Cruz, wet season | To test diet accounting for sanguivory, island, and season, 6 herbivorous (3 *Patyspiza crassirostris*, 1 *G. fuliginosa*, 1 *G. fortis*, and 1 *G. scandens*) and 4 insectivorous (C. parvulus) finches | 10 |
| 12. Ground finches during the dry season | *G. difficilis, G. acutirostris, G. magnirostris, G. fortis,* and *G. fuliginosa* |  |
|  a. balanced by diet | To test diet accounting for genus and season, 9 insectivorous (*G. difficilis, G. acutirostris*) and 9 (random subset from 20) herbivorous finches (*G. magnirostris, G. fortis, G. fuliginosa*) | 18b |
|  b. balanced by species | To test species within a famous genus accounting for season, 3 *Geospiza fuliginosa* (random subset from 11), 3 *G. fortis* (random subset from 4), 3 *G. magnirostris* (random subset from 5), 3 *G. difficilis,* and 3 *G. acutirostris* (random subset from 6) | 12a |
|  c. balanced by island | To test island accounting for season and genus, from Pinta (n = 6), Genovesa (n = 6), Santa Cruz (n = 6), and San Cristóbal (n = 6) | 24  |
| 13. Dry season finches |  |  |
|  a. balanced by vampire | To test sanguivory accounting for season, 31 *G. septentrionalis* and 31 other finches | 62 |
|  b. balanced by vampire (small sample) | To compare to other small-sample data sets, 10 (random subset from 31) *G. septentrionalis* and 10 (random subset from 31) other finches | 20 |
| 14. Feather isotope finches | To test diet in comparison with isotope data (Figure 3), 15 *G. fuliginosa* and *G. fortis* and 15 (random subset from 31) *G. septentrionalis* during the dry season | 30 |
| 15. Three ex-“*G. difficilis*” | Three finch species formerly known as *Geospiza difficilis,* including 3 *G. difficilis* on Pinta, 6 *G. acutirostris* on Genovesa, and 9 (random subset from 31) *G. septentrionalis* | 18 |
| 16. Santa Cruz Island dry season herbivorous species | To test species accounting for island, season, and diet, 4 *G. fuliginosa,* 3 *G. fortis,* and 3 *G. scandens* | 10a |
| 17. *G. septentrionalis* | To test island in the vampire finches, during the dry season, 15 from Wolf and 15 (random subset from 16) from Darwin Island | 30 |
| 18. *G. fortis* and *G. fuliginosa* during the wet season | To test island during the wet season roughly accounting for species, 5 from Santa Cruz, Santa Fé, and North Seymour island group and 5 (subset from 13) from San Cristóbal Island | 10a |
| 19. *G. fortis* and *G. fuliginosa* during the dry season | To test island during the dry season roughly accounting for species, 7 from Santa Cruz, Santa Fé, and North Seymour island group and 7 (subset from 8) from San Cristóbal Island | 14a |
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*asmall sample size: results are included as tentative and require further investigation through deeper sampling*

*bother factors convolute the interpretation of the diet factor in this case: results are included as tentative and require further investigation*