Morphology Table

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| Column name | Description | Data type | Missing data |
| MorphID | Primary key | Primary key, autonumber | NA |
| SpID | Species ID code; Links to AouSaccHumList Species table | Integer | NA |
| Sex | Macho = male, Hembra = female, Indefinido = unknown, ambos = combined measure of both sexes | Character | NA |
| N | Sample size; number of hummingbirds used to get measure | Integer | NA |
| ExpC | Exposed culmen length in millimeters (excludes portion covered in feathers near base of bill) Exposed bill length. | Float | 9999 |
| Peso | Weight in grams | Float | 9999 |
| Acom | Bill width measured at gape | Float | 9999 |
| TotC | Total culmen length in millimeters. Total bill length. | Float | 9999 |
| AlCdo | Wing chord. Wrist to body length in millimeters. | Float | 9999 |
| PrfP | Bill depth. Vertical dimension of bill, measured at the nasal, in millimeters | Float | 9999 |
| AlAnc | Wing width in millimeters. From edge of tertiaries to top of wing. | Float | 9999 |
| AlLgo | Wing length in millimeters. From tip of primaries to body. | Float | 9999 |
| Rasp | Aspect ratio: wing length/wing width | Float | 9999 |
| Rform | Wing length X wing width (BT)? |  | 9999 |
| WiLo | Wing load. Measure of the amount of force a wing can create. Ratio between the actuator disk and wing cord. Larger number indicates increased ability to fly longer distances. Smaller number indicates increase agility/maneuverability. | Float | 9999 |
| Wtap | Wing taper. Angle at which the primaries taper. BT less confidence in this measure. | Float | 9999 |
| AlArea | Wing area. Wings were scanned, and later area calculated based on the pictures. | Float | 9999 |
| ColaL | Tail length in millimeters, shouldn’t include the rackets, but only true tail feathers. (Is the train a tail)? | Float | 9999 |
| PataE | Foot extension. Distance from tip of longest toe to hindclaw. | Float | 9999 |
| TarsL | Tarsus length in millimeters. Foot measures all correlated, this is probably the measure to trust most (BT). | Float | 9999 |
| UnaL | Nail length | Float | 9999 |
| PsoSD | Standard deviation of weight | Float | 9999 |
| ExpCSD | Standard deviation of exposed culmen | Float | 9999 |
| AcomSD | Standard deviation of bill width | Float | 9999 |
| AlLgoSD | Standard deviation of wing length | Float | 9999 |
| RaspSD | Standard deviation of aspect ratio | Float | 9999 |
| RformSD | Standard deviation of XXX (BT)? | Float | 9999 |
| WiLoSD | Standard deviation of wing load | Float | 9999 |
| WtapSD | Standard deviation of wing taper | Float | 9999 |
| AlAreaSD | Standard deviation of wing area | Float | 9999 |
| ColaLSD | Standard deviation of tail length | Float | 9999 |
| PataESD | Standard deviation of foot extension | Float | 9999 |
| TarsLSD | Standard deviation of tarsus length | Float | 9999 |
| UnaLSD | Standard deviation of nail length | Float | 9999 |
| ReferenceID | Links to reference table | Character | 9999 |
| LocalityID | Links to GeoRefs table | Character | 9999 |
| MuseumID | Links to MuseumData table | Character | 9999 |
| Notes | Additional notes taken by the observer or data enterer | Character | Blank |
| Subspeciesname | Name of the subspecies, if applicable | Character | Blank |

See Gary Stiles presentation (sent by B. Tinoco) for more info on measurements.

BT says some other data may be good to use. We will need to double check and clean it. Put cleaned data in a secondary database that is backed up somewhere. Which data? How much variation is there within-species trait measurements?