DESCRIPTIONS OF MONDB FIELDS FOR WEB SITE

- In-house taxon name [INHOUSNAM]: The in-house taxon name is the taxonomic name that the Pacific Islands Ecoregion of the U.S. Fish and Wildlife Service follows. These names are based on Wagner et. al.'s *Manual of the Flowering Plants of Hawai`i* (1990) or newly revised taxonomy since the *Manual* was published but which is recognized by the *Manual* authors.

- Fedreg name [FRTAXON]: The taxonomic name by which a taxon is federally listed as endangered or threatened may not be the same as the in-house name, due to the nature of the listing process. Two primary reasons for differences in these fields include: 1) new taxonomic changes that have not yet been published and publicly reviewed through the Federal Register; and 2) taxa with subspecific entities listed in one Federal Register rulemaking as a species are not maintained in the national Threatened and Endangered species list as separate entities

- Federal status [FEDSTATUS]: The federal status indicates an official listing in the Federal Register. Only C, E, T, PE, and PT are officially protected under the Endangered Species Act. **[check wording in T&E list 50CFR17]**
  - C - Candidate, those species for which adequate information exists to proceed with proposal as endangered or threatened, but for which a proposed rulemaking has not yet been published in the Federal Register.
  - E - Endangered, those species which are endangered throughout all or a significant portion of their range.
  - MIXD - Mixed, those species which have subspecific entities, some with a different status.
  - NS - No status, those species which have no official Federal status.
  - PE - Proposed endangered, those species which have been proposed for endangered status.
  - PT -Proposed threatened, those species which have been proposed for threatened status.
  - SOC - Species of Concern, those species for which there is adequate information to be concerned about their ability to survive, but for which inadequate information exists to proceed with Federal listing. This category includes species of general concern; species for which more surveys are needed; species not yet officially approved as candidates, even though adequate information exists; and species for which no individuals have been observed in the last 20 years, but which are likely to still exist in inadequately explored areas.
  - SYN - Synonym, those species which have been listed under a different name, for which this name is an invalid synonym.
  - T - Threatened, those species which may become endangered throughout all or a significant portion of their range if no protection measures are taken.
  - W/D - Withdrawn, those species which have been withdrawn from consideration for listing because of inadequate information, extinction, or the finding of enough additional

populations to no longer warrant Federal status.

- USFWSListUpdateWhen?: This date indicates the date when the Federal Status of a taxon was last changed. For C, E, T, PE, and PT, this date reflects the date when the status listed under FedStatus was published in the Federal Register. For others, the date indicates the date it was assigned by the Pacific Islands Ecoregion.

- Island distributions: Each island is assigned a distribution only if the species is thought to be fround on that island. The options for each island are present (indicated by the appropriate island abbreviation), extinct (island abbreviation, followed by X), or uncertain (island abbreviation followed by ?). The appropriate island abbreviations are:
  - M - Maui
  - Mo - Molokai
  - L - Lanai
  - Ka - Kahoolawe
  - O - Oahu
  - K - Kauai
  - H - Hawaii
  - NW islands - NW
  - Which NW island - no standardized abbreviations have been developed

- Critical habitat?: Critical habitat is a legally defined area, published in the Federal Register, identifying those areas needed for the survival and recovery of an endangered or threatened species which do not outweigh the economic costs to the landowner. There are three acceptable options for this field:
  - N - No, critical habitat not defined. This is used only for listed E, T, PE, or PT species for which critical habitat has not been designated.
  - NA - Not applicable. This is used for any species that is not listed E, T, PE, or PT.
  - Y - Yes, critical habitat defined. This is used for listed E, T, PE, or PT species for which critical habitat has been proposed or designated.

- Date record updated: This is the last date any change was made to this record.

- Trend: Trend indicates the overall change in status of the species. Options for this field are:
  - D - Declining in number or reproductive capability, or threats increasing
  - D? - Possibly declining in number or reproductive capability, or threats possibly declining
  - E - Extinct, based on best available current knowledge
  - I - Increasing in number or reproductive capability, or threats decreasing
  - S - Stable, no change in numbers or threats
  - U - Unknown if declining or increasing

- Threats: Numerous threats affect many of the taxa listed or considered for listing in Hawaii.

Those recurring threats have been listed individually (pigs, goats, deer, sheep, cattle, rats, weeds, land(slides), fire, inverts (invertebrates), hsimpact (human impacts, including development, military activities, recreation, etc.), and for each taxon the threat is indicated by one of the following options:

- X - known to be a threat
- P - potential threat based on knowledge of area(s) of occurrence or known threat to other species of close relation or similar nature
- blank - no evidence that this is a threat

For those threats that are rare, information is included in the comments field

- Listing package [LISTINGPKG]: The listing package indicates the name of the Federal Register in which this species was proposed or listed, or is planned for proposal.

- Proposed rule citation [PRCITATION]: The letters and numbers listed in this field indicate the Federal Register in which the proposed rule for this species was published. It is in the format of (volume #)FR(page #), where page number indicates the first page of the citation.

- Proposed rule date [PRDATE]: The date on which the proposed rule was published in the Federal Register.

- Final rule citation [FRCITATION]: The letters and numbers listed in this field indicate the Federal Register in which the FINAL rule for this species was published. It is in the format of (volume #)FR(page #), where page number indicates the first page of the citation.

- Final rule date [FRDATE]: The date on which the final rule was published in the Federal Register. The taxon is officially listed 30 days after the date of publication.

- Recovery plan package [RECOVRYPKG]: The recovery package indicates the name of the latest recovery plan in which this species was included.

- Recovery plan status [RPSTATUS]: This field indicates the status of the recovery plan within the Fish and Wildlife Service. Options include:
  - Final - Completed, availability published in Federal Register.
  - T/A - Technical/agency draft, availability for public comment published in Federal Register.
  - Final, in RO - Draft of final completed by Pacific Islands Office, in Regional Office for approval.
  - T/A, in RO - Technical/agency draft by Pacific Islands Office, in Regional Office for approval.

- Recovery plan date [RPLANDATE]: Date the recovery plan status went into effect.

- # of populations: The number of populations, based on the best available information.

- # of individuals: The number of individuals, based on the best available information.

- Population range category: Ranges for population numbers, to allow for sorting based on categories. Options are:
  - 0 (if this is) and individual category is not, taxon is extinct in wild, only reintroduced individuals are known)
  - 1
  - 2-5
  - 6-10
  - 11-20
  - 21+
  - ?

- Individual range category: Ranges for numbers of individuals, to allow for sorting based on categories. Options are:
  - 0
  - 1
  - 2-10
  - 11-20
  - 21-50
  - 51-100
  - 101-300
  - 301-500
  - 501-1000
  - 1001-5000
  - >5000
  - ?