

# MAPS BANDING CODES - 2016

## Skull Pneumaticization

- 0 - None; single pinkish layer.
- 1 - Trace at very back of skull; 1-5% of total area.
- 2 - 6-33% at back; distinct contrast; whitish dots.
- 3 - 34-66%; rear half and some of front, midline, and sides.
- 4 - 67-94%; two oval red spots either side of cranium - rest completed.
- 5 - 95-99%; two tiny pinkish spots. (Some birds stay at class 5.)
- 6 - Complete, fully pneumaticized.
- 8 - Skull examined but degree of pneumaticization not determinable.

## Cloacal Protuberance

- 0 - Cloaca not enlarged.
- 1 - Small (conical; wide at base, narrow at tip.)
- 2 - Medium (cylindrical; as large at tip as at base.)
- 3 - Large (bulbous; larger at tip than at base.)

## Brood Patch

- 0 - None present, breast feathered.
- 1 - Feathers dropped, skin smooth and dark red; some vascularization.
- 2 - Skin vascularized and wrinkled, fluid present.
- 3 - Vascularization extreme, skin wrinkled, much fluid.
- 4 - Wrinkled skin, thin and dry; vascularization and fluid gone. mostly
- 5 - Vascularization, fluid, and wrinkles gone; pinfeathers appearing.

## Fat

- 0 - No fat anywhere.
- 1 - Furcular hollow less than 5% full.
- 2 - Furcular hollow 5-33% full.
- 3 - Furcular hollow about half full (34%-66%).
- 4 - Furcular hollow full, 67%-100%, fat thick in wingpits and on abdomen.
- 5 - Fat bulging above furcular hollow, in wingpits, and on abdomen.
- 6 - Fat greatly bulging in all areas.
- 7 - Excessive; fat nearly joined from all areas.

## Body Molt

- 0 - None.
- 1 - Trace; a few feathers anywhere on body.
- 2 - Light; a number from any individual tract.
- 3 - Medium; a number from several tracts or most of head.
- 4 - Heavy; more than half from most tracts; more than 2/3 of body.

## Flight-feather Molt

(primaries, secondaries, & tail)

Most species do not molt juvenal flight-feathers. Check Pyle 1997 for each species. The code "S" essentially means "flight-feather molt occurring" - It may not always be exactly symmetrical

- N - None.
- A - Adventitious, accidental, asymmetric.
- S - Full, normal symmetric molt.
- J - Growth of juvenal (1st-generation) flight feathers.

## Flight-feather Wear

(outer four primaries; not rectrices)

- 0 - None; light feather edges remain.
- 1 - Very slight edge wear; no fraying or nicks.
- 2 - Slight; definitely worn but very little fraying, very few nicks.
- 3 - Moderate; definite fraying and nicks; chips along vanes.
- 4 - Heavy; feathers worn and frayed, tips missing.
- 5 - Excessive; extreme wear, shafts exposed beyond vanes, tips broken off.

## Juvenal Body Plumage

(include body feathers only; not wing feathers)

- 3 - Juvenal plumage growing in or full.
- 2 - In preformative molt; more than half of juvenal plumage remains.
- 1 - In preformative molt; less than half of juvenal plumage remains.
- 0 - None; no juvenal plumage remaining.

## Molt Limits & Plumage

Unless a tract is completely composed of alternate feathers, alternate feathers in a tract are ignored.

- J - Juvenal; feather tract comprised entirely of retained juvenal feathers or non-feathered body part shows characteristics indicative of a young bird
- L - Molt limit; molt limit between juvenal and formative feathers
- F - Formative; feather tract comprised entirely of formative feathers
- B - Basic; feather tract entirely of basic feathers or non-feathered body part shows characteristics indicative of an adult bird
- R - retained; both juvenal and basic feathers are present within the tract (typically with woodpeckers only)
- M - Mixed; multiple generations of basic feathers are present in the tract (typically with woodpeckers only)
- A - Alternate; **ALL** feathers in the tract are of alternate plumage
- N - definitely not juvenal feathers, but whether or not they are formative or basic feathers cannot be determined with confidence.
- U - Unknown; feather tract or non-feathered body part examined, but shows ambiguous characteristics or cannot be coded with confidence

## Status (more status codes online at BBL website)

- 300 - Normal, healthy, banded bird.
- 301 - Healthy, color-banded bird.
- 325 - Radiotag/GPS, healthy, banded bird.
- 500 - Banded but injured or diseased.
- 700 - Held over 24 hours for observation or rehabilitation.
- 000 - Unbanded or dead.

## Disposition

- M - Malformed (deformity such as crossed mandibles).
- O - Old (healed) injury.
- I - Ill (diseased).
- S - Stress or shock.
- E - Eye injury.
- T - Tongue injury.
- W - Wing injury.
- B - Body injury.
- L - Leg injury.
- P - Predator-caused mortality.
- D - Dead (or permanently removed).

## Feather Pull

- O - two Outer rectrices
- I - one Inner and one outer rectrix