ENHANCED COUNTY LISTING SPREADSHEET
2020 instructions
by Matt Bartels & Michael Hobbs

Intro:
In 2003, I made available an excel spreadsheet for use in easily tracking county life lists. It is based on the abundance codes maintained by Washington Birder [aka Ken & Laurie Knittle, with help from local birders], and I've updated it whenever new taxonomical changes and county firsts have come out. Last year, Michael Hobbs put together this new version of the spreadsheet, using his magical skills as a programmer. The new version starts with the same basic format as the previous spreadsheet, but goes way beyond it in creating helpful tools for the county lister. [**For the new functionality added in 2020, see page 7**].

My strongest recommendation: If you liked the old version you'll love the new version – take a little time to plough through the intro materials below with a copy of the new spreadsheet open [ideally, with your data already imported]. Once you've got the hang of the various bells & whistles, it is easy to use. If you've never used the old version, there's no reason not to just dive in with the new one.
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Instructions for using the new 'enhanced' county spreadsheet.
System requirements: You'll need at least Excel 2007 to be able to use all the functions in these sheets.

This new version of the spreadsheet includes a lot of helpful extras that make use of 'macros' in more recent versions of excel. We are still learning about glitches as we test this on PCs and Macs, so please let us know if/when you run across problems. When you open the file, you may be asked whether or not you would like to 'enable macros' – always say 'yes' to this question, or the extras won't work.

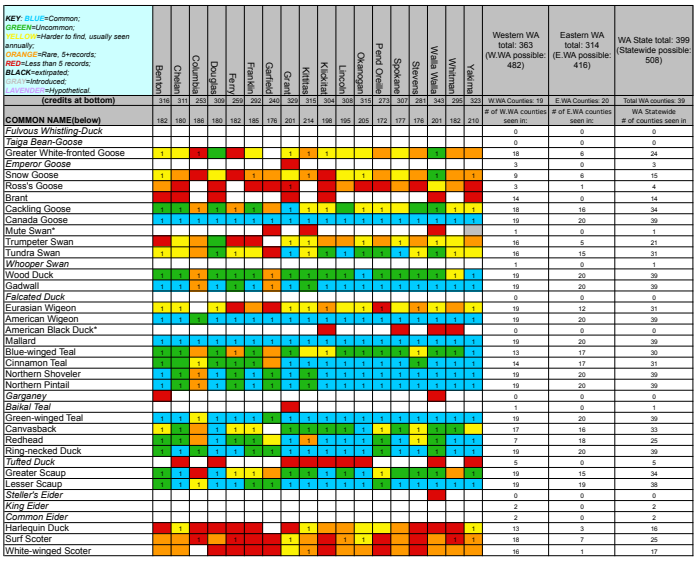
Sometimes on Macs, when you push one of the buttons mentioned below you'll receive an error message. In all the cases I've come across so far, you just click ok and everything will be fine.

If you are not familiar with the 'traditional' county spreadsheet we've made available here, I'd recommend first reading the instructions for that spreadsheet to get a sense of how to enter your county 'ticks' into the base spreadsheet.

To begin with this spreadsheet, either paste in a copy of your most recent spreadsheet data [see below] onto the Master sheet in the new file [using the instructions provided at http://wabirder.com/combined_county_list.html], or re-enter your data onto the Master sheet.
As with all the earlier updates, it can be a bit confusing and cumbersome to do this periodic transfer from an older to a newer version -- I recommend you save backup copies before you start the process. The short version of what you need to do:
1. Sort the new spreadsheet and your old one in a common sort order [AOU 59th supplement is a good one to use, since your list is probably already in that order].
2. Add rows in your old sheet where new species have been added, and delete rows of species that have been removed from the list.
3. Check the row number for Dickcissel on both sheets to make sure they are the same.
4. Copy the data field from your old list [everything from the first Clallam species to Dickcissel in Yakima, but not the species & county names or total columns/rows].
5. On the new sheet, click into the first box and select 'paste special' [not paste] and then select 'values' on the dialog box that opens.
6. Double-check the totals look the same as in your old version.
7. Sort the new spreadsheet according to the newest tax order.
8. Play.

Here's a summary of the various features of the new enhanced spreadsheet:

Sheet 1: Master Sheet– this works just like the old version – totaling county lists, state , eastern & western WA totals and # of counties in which you've seen each species. You'll need to be on this sheet to access a couple other features mentioned below.



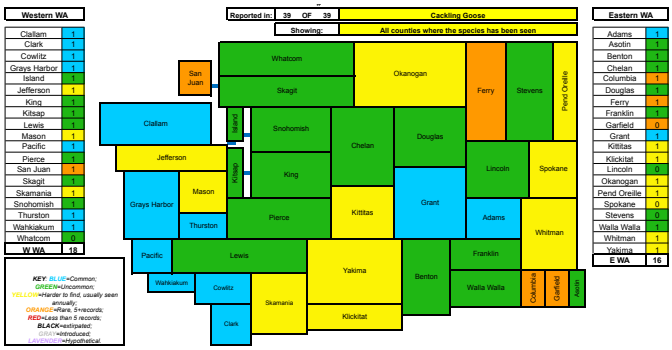
KEY: BLUE=Common; GREEN=Uncommon; YELLOW=Harder to find, usually seen annually; ORANGE=Rare, 5+records; RED=Less than 5 records; BLACK=extirpated; GRAY=introduced; LAVENDER=Hypothetical.	Benton	Chelan	Columbia	Douglas	Ferry	Franklin	Garfield	Grant	Kittitas	Klickitat	Lincoln	Okanogan	P'end Oreille	Spokane	Stevens	Walla Walla	Whitman	Yakima	Western WA total: 363 (W.WA possible: 482)	Eastern WA total: 314 (E.WA possible: 416)	WA State total: 399 (Statewide possible: 508)
(credits at bottom)	316	311	253	300	259	292	240	329	315	304	308	315	273	307	281	343	295	323	W.WA Counties: 19	E.WA Counties: 20	Total WA counties: 39
COMMON NAME(below)	192	186	186	180	182	185	176	201	214	198	195	205	172	177	176	201	182	210	# of W.WA counties seen in:	# of E.WA counties seen in:	WA Statewide # of counties seen in:
Fulvous Whistling-Duck																			0	0	0
Taiga Bean-Goose																			0	0	0
Greater White-fronted Goose	1							1	1	1									18	6	24
Emperor Goose																			3	0	3
Snow Goose	1					1			1			1				1		1	9	6	15
Ross's Goose																			3	1	4
Brant																			14	0	14
Cackling Goose	1	1	1	1	1	1		1	1	1		1	1		1	1	1	1	18	16	34
Canada Goose	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	20	39
Mute Swan*																			1	0	1
Trumpeter Swan								1	1			1		1		1			16	5	21
Tundra Swan	1			1	1			1	1	1	1	1	1	1	1	1	1		16	15	31
Whooper Swan																			1	0	1
Wood Duck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	20	39
Gadwall	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	20	39
Falcated Duck																			0	0	0
Eurasian Wigeon	1	1		1				1	1	1		1	1		1	1		1	19	12	31
American Wigeon	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	20	39
American Black Duck*																			0	0	0
Mallard	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	20	39
Blue-winged Teal	1	1		1	1	1		1		1	1	1	1	1	1	1	1	1	13	17	30
Cinnamon Teal	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	14	17	31
Northern Shoveler	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	20	39
Northern Pintail	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	20	39
Garganey																			0	0	0
Baikal Teal																			1	0	1
Green-winged Teal	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	20	39
Canvasback	1	1		1	1	1		1	1	1	1	1	1	1	1	1	1		17	16	33
Redhead	1	1		1	1	1		1	1	1	1	1	1	1	1	1	1	1	18	25	43
Ring-necked Duck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	20	39
Tufted Duck																			5	0	5
Greater Scaup	1	1		1	1	1		1	1	1	1	1	1	1	1	1	1	1	19	15	34
Lesser Scaup	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	19	38
Steller's Eider																			0	0	0
King Eider																			2	0	2
Common Eider																			2	0	2
Harlequin Duck		1							1									1	13	3	16
Surf Scoter								1			1	1						1	18	7	25
White-winged Scoter									1										16	1	17

Western WA Average	Eastern WA Average	WA Average:
191.42	188.85	190.10

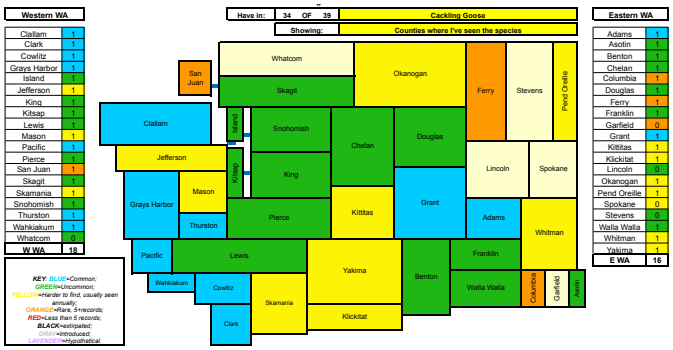
Above: *A sample excerpt from the master spreadsheet*

Sheet 2: Species Sheet – this sheet allows you to view species abundance in three different ways. When you open this sheet, you'll see a map of Washington state in the center, with the counties delineated. Along each side are lists of the counties [divided into eastern & western WA lists]. At the top, towards the left side are the buttons you use to control the map creation. The first buttons in a row are arrows on either side of the 'jump to a species' button. The arrows allow you to step forward or backward through the taxonomic order of Washington birds. Click 'jump to a species' to see a pulldown menu you can use to get to a specific species quickly.

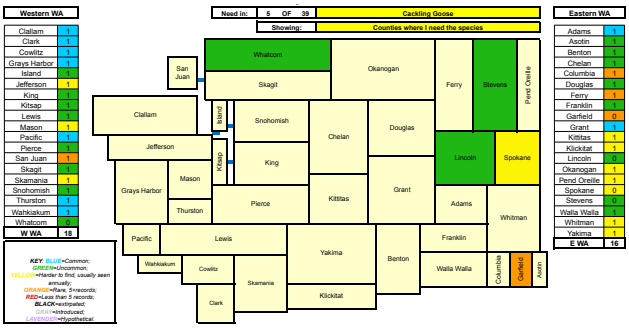
The button below this is labeled "**Change map Display Type**" – click this and a dialog box opens that allows you to select one of 3 map displays – the first option displays the color coded abundance for the species selected w/o regard to which counties you have seen the species. With the second option, you can see all the counties where you have already seen a species [and what the abundance is for that species in each of those counties]. Counties where you have <u>not</u> seen the species are colored either off-white or white. Those in off-white are counties where the species has been recorded previously. Those in white have never had a report of the species. With the 3rd display option, you can see all the counties where you have not yet seen a species [and what the abundance is for that species in each of those counties]. Counties in this display are color coded when the species has been reported before in that county, white when the species has never before been seen in that county, and off-white when you've already seen a species in that county.



***Above**: The first map shows the color-coded abundance for Cackling Goose in Washington State.*

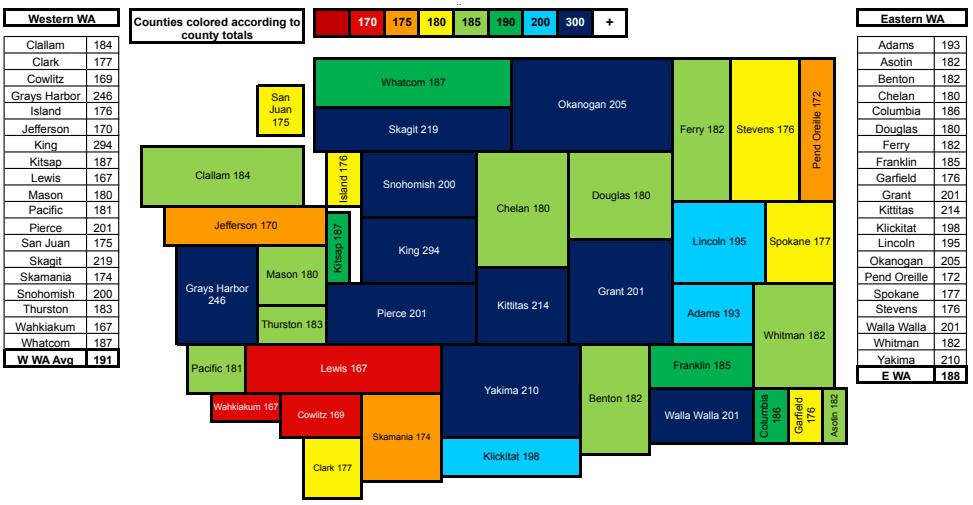


***Above**: In this second map, still for Cackling Goose, the only counties 'colored in' are those where I've already seen Cackling Goose. Those not colored are ones where I still hope to find CACG some day. (In this example, there are no counties in pure white, because Cackling Goose has been reported in all 39 counties.)*



***Above**: This third map highlights the counties where I need Cackling Goose, giving their abundance codes too [green in Whatcom & Stevens, yellow in Spokane, etc]. It is in effect the mirror image of the 2nd map above – and can be very useful when trying to visualize listing options.*

Sheet 3: Ranking Sheet – this sheet gives you a color coded ranking of your county lists in the state, represented on a state map. You set the thresholds for when a county moves 'up' in ranking, and using this you can quickly see which counties are your 'best' ones, and which ones still need more work.



***Above**: County Ranking Sheet: In the above screen grab, even with the text too small to read totals, you can easily interpret the colors to see that the southwestern counties are the ones where I need the most work [in red], and the counties surrounding King Co are the ones where my totals are highest [in dark blue]*

Along the top are the county totals that serve as 'thresholds' for each color code on the map – play with those numbers to find a series of #s that give you a meaningful breakdown of your county totals -- once you've adjusted those thresholds as desired, and whenever you've added new county ticks to the master sheet, click on the button labeled "Update color ranking" to have your changes reflected in the map.

Important: This map does not automatically update when you add county ticks to the master sheet – always click 'update color ranking' when you come to this sheet to be sure it is reflecting you most current status.

County Needs Lists: Back on the Master Spreadsheet, click 'control+N' [for Macs, click 'option+command+N']. This opens a dialog box where you select a county and click ok. After a bit of processing, you'll have a single list of all the birds you need for a county, along with their abundance code. This list will appear in a new sheet with the county name on it, after the first three sheets.

Skamania County Needs: (Have 174)					
Snow Goose		Semipalmated Plover		Dusky Flycatcher	
Ross's Goose		Lesser Yellowlegs		Ash-throated Flycatcher	
Brant		Long-billed Curlew		Western Kingbird	
Blue-winged Teal		Sanderling		Philadelphia Vireo	
Cinnamon Teal		Semipalmated Sandpiper		Blue Jay	
Harlequin Duck		Pectoral Sandpiper		Black-billed Magpie	
Surf Scoter		Long-billed Dowitcher		Bank Swallow	
White-winged Scoter		Wilson's Phalarope		Pygmy Nuthatch	
Black Scoter		Red-necked Phalarope		Rock Wren	
Long-tailed Duck		Red Phalarope		Veery	
Smew		Sabine's Gull		Sage Thrasher	
Mountain Quail		Thayer's Gull		American Pipit	
Gray Partridge		Glaucous Gull		Bohemian Waxwing	
Ring-necked Pheasant		Common Tern		Lapland Longspur	
Ruffed Grouse		Parasitic Jaeger		Chestnut-collared Longspur	
Spruce Grouse		Barn Owl		Snow Bunting	
White-tailed Ptarmigan		Western Screech-Owl		Ovenbird	
Red-throated Loon		Burrowing Owl		Northern Waterthrush	
Pacific Loon		Spotted Owl		Tennessee Warbler	
Clark's Grebe		Barred Owl		American Redstart	
American White Pelican		Great Gray Owl		Yellow-breasted Chat	
Brown Pelican		Long-eared Owl		American Tree Sparrow	
American Bittern		Boreal Owl		Clay-colored Sparrow	
Cattle Egret		Northern Saw-whet Owl		Brewer's Sparrow	
Green Heron		Black Swift		Black-throated Sparrow	
California Condor		Black-chinned Hummingbird		Rose-breasted Grosbeak	
Northern Goshawk		Calliope Hummingbird		Indigo Bunting	
Swainson's Hawk		Broad-tailed Hummingbird		Yellow-headed Blackbird	
Rough-legged Hawk		Acorn Woodpecker		Gray-crowned Rosy-Finch	
Golden Eagle		Williamson's Sapsucker		Cassin's Finch	
Merlin		Red-naped Sapsucker		White-winged Crossbill	
Prairie Falcon		White-headed Woodpecker		Lesser Goldfinch	
Sandhill Crane		Black-backed Woodpecker			

***Above**: A sample of what a "County Needs List" looks like – my Skamania needs list*

County Life List: To generate a list of all the species you have already seen in a county, follow the above procedure, but click 'control+L' – Life lists will appear as new sheets as well labeled with the county name and 'life' [I,e, "King Life"]

Asotin Life List: 182						
Cackling Goose (2)	Eared Grebe (3)	Least Sandpiper (3)	Olive-sided Flycatcher (1)	White-breasted Nuthatch (3)	Chipping Sparrow (1)	
Canada Goose (1)	Western Grebe (2)	Baird's Sandpiper (5)	Western Wood-Pewee (1)	Pygmy Nuthatch (2)	Brewer's Sparrow (2)	
Tundra Swan (3)	Double-crested Cormorant (1)	Wilson's Snipe (3)	Willow Flycatcher (1)	Brown Creeper (2)	Vesper Sparrow (1)	
Wood Duck (1)	Great Blue Heron (1)	Ring-billed Gull (1)	Hammond's Flycatcher (1)	Rock Wren (1)	Lark Sparrow (2)	
Gadwall (2)	Great Egret (3)	California Gull (2)	Gray Flycatcher (5)	Canyon Wren (1)	Savannah Sparrow (1)	
Eurasian Wigeon (3)	Black-crowned Night-Heron (4)	Herring Gull (2)	Dusky Flycatcher (1)	Bewick's Wren (1)	Grasshopper Sparrow (2)	
American Wigeon (1)	Turkey Vulture (3)	Iceland Gull (5)	Pacific-slope Flycatcher (4)	House Wren (1)	Song Sparrow (1)	
Mallard (1)	Osprey (1)	Glaucous-winged Gull (3)	Cordilleran Flycatcher* (2)	Marsh Wren (3)	Lincoln's Sparrow (3)	
Blue-winged Teal (2)	Bald Eagle (1)	Glaucous Gull (4)	Say's Phoebe (1)	American Dipper (2)	White-crowned Sparrow (1)	
Northern Shoveler (2)	Northern Harrier (1)	Caspian Tern (3)	Western Kingbird (1)	Golden-crowned Kinglet (1)	Dark-eyed Junco (1)	
Northern Pintail (2)	Sharp-shinned Hawk (1)	Common Tern (5)	Eastern Kingbird (1)	Ruby-crowned Kinglet (1)	Western Tanager (1)	
Green-winged Teal (1)	Cooper's Hawk (2)	Forster's Tern (3)	Northern Shrike (2)	Western Bluebird (1)	Black-headed Grosbeak (1)	
Redhead (3)	Swainson's Hawk (3)	Rock Pigeon (1)	Cassin's Vireo (1)	Mountain Bluebird (1)	Lazuli Bunting (1)	
Ring-necked Duck (2)	Red-tailed Hawk (1)	Eurasian Collared-Dove (3)	Warbling Vireo (1)	Townsend's Solitaire (2)	Red-winged Blackbird (1)	
Bufflehead (1)	Rough-legged Hawk (1)	Mourning Dove (1)	Red-eyed Vireo (1)	Swainson's Thrush (2)	Western Meadowlark (1)	
Common Goldeneye (1)	Golden Eagle (1)	Barn Owl (3)	Gray Jay (2)	Hermit Thrush (3)	Yellow-headed Blackbird (3)	
Barrow's Goldeneye (1)	American Kestrel (1)	Great Horned Owl (1)	Steller's Jay (1)	American Robin (1)	Brewer's Blackbird (1)	
Hooded Merganser (1)	Prairie Falcon (3)	Snowy Owl (5)	Black-billed Magpie (1)	Gray Catbird (2)	Brown-headed Cowbird (1)	
Common Merganser (1)	Virginia Rail (2)	Northern Pygmy-Owl (2)	American Crow (2)	European Starling (1)	Bullock's Oriole (1)	
Ruddy Duck (2)	Sora (4)	Short-eared Owl (3)	Common Raven (1)	Cedar Waxwing (1)	Cassin's Finch (1)	
California Quail (1)	American Coot (1)	Common Nighthawk (1)	Horned Lark (1)	Orange-crowned Warbler (1)	House Finch (1)	
Chukar (1)	Sandhill Crane (6)	Vaux's Swift (2)	Tree Swallow (2)	Nashville Warbler (2)	Red Crossbill (1)	
Gray Partridge (1)	Semipalmated Plover (4)	Black-chinned Hummingbird (1)	Violet-green Swallow (1)	MacGillivray's Warbler (1)	Common Redpoll (4)	
Ring-necked Pheasant (1)	Killdeer (1)	Calliope Hummingbird (1)	N. Rough-winged Swallow (1)	Common Yellowthroat (4)	Pine Siskin (1)	
Ruffed Grouse (3)	Black-necked Stilt (4)	Rufous Hummingbird (1)	Bank Swallow (1)	Yellow Warbler (1)	Lesser Goldfinch (4)	
Dusky Grouse (3)	American Avocet (3)	Belted Kingfisher (1)	Cliff Swallow (1)	Yellow-rumped Warbler (1)	American Goldfinch (1)	
Wild Turkey (1)	Spotted Sandpiper (1)	Williamson's Sapsucker (1)	Barn Swallow (1)	Townsend's Warbler (1)	House Sparrow (1)	
Pacific Loon (5)	Solitary Sandpiper (4)	Red-naped Sapsucker (1)	Black-capped Chickadee (1)	Wilson's Warbler (3)		
Common Loon (3)	Lesser Yellowlegs (3)	Downy Woodpecker (1)	Mountain Chickadee (1)	Yellow-breasted Chat (1)		
Pied-billed Grebe (2)	Semipalmated Sandpiper (4)	Hairy Woodpecker (1)	Chestnut-backed Chickadee (2)	Green-tailed Towhee (4)		
Horned Grebe (2)	Western Sandpiper (3)	Northern Flicker (1)	Red-breasted Nuthatch (1)	Spotted Towhee (1)		

***Above**: A sample of a "County Life" list – my Asotin list.*

County Checklist [Newly added in 2020]: Back on the Master Spreadsheet, click 'control+K' [for Macs, 'option-command-K']. This opens a dialog box where you select a county and click ok. After a bit of processing, you'll see a one page checklist of the entire county checklist, with all the species you've checked off marked w/ an X. This gives you a one page glance not just at what you have but also what you need.

Columbia Checklist: Total: 260 (Have: 202 as of 01/21/2020)

WATERFOWL
___Snow Goose (5)
_X_Greater White-fronted Goose (5)
_X_Cackling Goose (4)
_X_Canada Goose (1)
_X_Trumpeter Swan (4)
_X_Tundra Swan (4)
_X_Wood Duck (4)
___Blue-winged Teal (4)
_X_Cinnamon Teal (3)
_X_Northern Shoveler (4)
_X_Gadwall (4)
___Eurasian Wigeon (5)
_X_American Wigeon (2)
_X_Mallard (1)
_X_Northern Pintail (4)
_X_Green-winged Teal (3)
___Canvasback (4)
___Redhead (4)
_X_Ring-necked Duck (2)
_X_Greater Scaup (5)
_X_Lesser Scaup (3)
___Harlequin Duck (5)
_X_Surf Scoter (5)
___Long-tailed Duck (5)
_X_Bufflehead (2)
_X_Common Goldeneye (2)
_X_Barrow's Goldeneye (4)
_X_Hooded Merganser (2)
_X_Common Merganser (1)
___Red-breasted Merganser (5)
_X_Ruddy Duck (4)

GALINACEOUS BIRDS
___Mountain Quail (5)
_X_California Quail (1)
_X_Chukar (4)
_X_Gray Partridge (3)
_X_Ring-necked Pheasant (1)
_X_Ruffed Grouse (2)
_X_Dusky Grouse (4)
___Sharp-tailed Grouse (X)
_X_Wild Turkey (1)

GREBES
_X_Pied-billed Grebe (2)
_X_Horned Grebe (3)
___Red-necked Grebe (5)
___Eared Grebe (4)
_X_Western Grebe (3)
_X_Clark's Grebe (5)

PIGEONS, DOVES
_X_Rock Pigeon (1)
___Band-tailed Pigeon (5)
_X_Eurasian Collared-Dove (2)
_X_Mourning Dove (1)

CUCKOOS

NIGHTHAWKS, SWIFTS
_X_Common Nighthawk (1)
_X_Common Poorwill (4)
___Black Swift (5)
_X_Vaux's Swift (1)
_X_White-throated Swift (4)

HUMMINGBIRDS
_X_Black-chinned Hummingbird (2)
_X_Rufous Hummingbird (2)
_X_Calliope Hummingbird (2)

RAILS, CRANES
_X_Virginia Rail (4)
_X_Sora (5)
_X_American Coot (2)
___Sandhill Crane (5)

SHOREBIRDS
___American Avocet (5)
___American Golden-Plover (5)
_X_Killdeer (1)
___Semipalmated Plover (5)
___Long-billed Curlew (4)
_X_Baird's Sandpiper (5)
_X_Least Sandpiper (4)
_X_Pectoral Sandpiper (5)
_X_Semipalmated Sandpiper (5)
_X_Western Sandpiper (4)
_X_Long-billed Dowitcher (5)
_X_Wilson's Snipe (4)
_X_Spotted Sandpiper (4)
_X_Solitary Sandpiper (4)
_X_Lesser Yellowlegs (5)
_X_Greater Yellowlegs (4)
___Wilson's Phalarope (5)
___Red-necked Phalarope (5)

GULL, TERNS, TROPICBIRD
_X_Bonaparte's Gull (4)
___Franklin's Gull (5)
___Mew Gull (5)
_X_Ring-billed Gull (1)
___Western Gull (5)
_X_California Gull (1)
_X_Herring Gull (2)
___Iceland Gull (5)
___Glaucous-winged Gull (4)
___Glaucous Gull (5)
_X_Caspian Tern (2)
_X_Common Tern (5)
_X_Forster's Tern (5)

LOONS
_X_Pacific Loon (5)
_X_Common Loon (5)

CORMORANTS, PELICANS, HERONS
_X_Double-crested Cormorant (2)
_X_American White Pelican (4)
_X_Great Blue Heron (1)
_X_Great Egret (5)
___Snowy Egret (5)
_X_Black-crowned Night-Heron (4)

VULTURE, RAPTORS
_X_Turkey Vulture (3)
_X_Osprey (2)
_X_Golden Eagle (2)
_X_Northern Harrier (1)
_X_Sharp-shinned Hawk (2)
_X_Cooper's Hawk (2)
_X_Northern Goshawk (3)
_X_Bald Eagle (2)
_X_Swainson's Hawk (2)
_X_Red-tailed Hawk (1)
_X_Rough-legged Hawk (1)
___Ferruginous Hawk (4)

OWLS
_X_Barn Owl (2)
___Flammulated Owl (4)
_X_Western Screech-Owl (3)
_X_Great Horned Owl (1)
___Snowy Owl (5)
_X_Northern Pygmy-Owl (2)
___Burrowing Owl (4)
___Barred Owl (5)
_X_Great Gray Owl (4)
___Long-eared Owl (4)
___Short-eared Owl (4)
___Boreal Owl (4)
_X_Northern Saw-whet Owl (4)

KINGFISHER, WOODPECKERS
_X_Belted Kingfisher (1)
_X_Lewis's Woodpecker (3)
_X_Williamson's Sapsucker (3)
_X_Red-naped Sapsucker (2)
___Red-breasted Sapsucker (5)
_X_Am. Three-toed Woodpecker (3)
_X_Black-backed Woodpecker (4)
_X_Downy Woodpecker (2)
_X_Hairy Woodpecker (2)
___White-headed Woodpecker (4)
_X_Northern Flicker (1)
_X_Pileated Woodpecker (3)

FALCONS
_X_American Kestrel (1)
_X_Merlin (4)
_X_Peregrine Falcon (5)
_X_Prairie Falcon (4)

FLYCATCHERS
___Ash-throated Flycatcher (5)
_X_Western Kingbird (1)
_X_Eastern Kingbird (1)
_X_Olive-sided Flycatcher (2)
_X_Western Wood-Pewee (1)
_X_Willow Flycatcher (2)
_X_Hammond's Flycatcher (2)
_X_Gray Flycatcher (5)
_X_Dusky Flycatcher (1)
___Pacific-slope Flycatcher (5)
_X_Cordilleran Flycatcher* (3)
_X_Say's Phoebe (1)

SHRIKES, VIREOS
_X_Loggerhead Shrike (4)
_X_Northern Shrike (2)
_X_Cassin's Vireo (2)
_X_Warbling Vireo (2)
_X_Red-eyed Vireo (4)

CORVIDS
_X_Canada Jay (2)
_X_Steller's Jay (1)
_X_Blue Jay (4)
_X_Clark's Nutcracker (4)
_X_Black-billed Magpie (1)
_X_American Crow (2)
_X_Common Raven (1)

LARKS, SWALLOWS
_X_Horned Lark (1)
_X_Bank Swallow (2)
_X_Tree Swallow (3)
_X_Violet-green Swallow (1)
_X_N. Rough-winged Swallow (2)
___Purple Martin (5)
_X_Barn Swallow (1)
_X_Cliff Swallow (1)

CHICKADEES, BUSHTIT
_X_Black-capped Chickadee (1)
_X_Mountain Chickadee (2)
_X_Chestnut-backed Chickadee (3)

NUTHATCHES, CREEPER
_X_Red-breasted Nuthatch (1)
_X_White-breasted Nuthatch (4)
___Pygmy Nuthatch (4)
_X_Brown Creeper (2)

WRENS, GNATCATCHER, DIPPER
_X_Rock Wren (1)
_X_Canyon Wren (2)
_X_House Wren (1)
_X_Pacific Wren (3)
_X_Marsh Wren (3)
_X_Bewick's Wren (1)
_X_American Dipper (2)

KINGLETS
_X_Golden-crowned Kinglet (1)
_X_Ruby-crowned Kinglet (1)

THRUSHES
_X_Western Bluebird (2)
_X_Mountain Bluebird (2)
_X_Townsend's Solitaire (2)
_X_Veery (3)
_X_Swainson's Thrush (2)
_X_Hermit Thrush (2)
_X_American Robin (1)
_X_Varied Thrush (2)

MIMIDS, STARLING
_X_Gray Catbird (3)
___Sage Thrasher (5)
_X_European Starling (1)

WAXWINGS to PIPITS
___Bohemian Waxwing (4)
_X_Cedar Waxwing (1)
_X_House Sparrow (1)
_X_American Pipit (4)

FINCHES, SPARROWS
___Evening Grosbeak (3)
_X_Pine Grosbeak (4)
_X_Gray-crowned Rosy-Finch (3)
_X_House Finch (1)
___Purple Finch (5)
_X_Cassin's Finch (1)
___Common Redpoll (5)
_X_Red Crossbill (2)
___White-winged Crossbill (5)
_X_Pine Siskin (1)
_X_Lesser Goldfinch (2)
_X_American Goldfinch (1)
_X_Snow Bunting (5)
_X_Grasshopper Sparrow (3)
_X_Lark Sparrow (3)
_X_Chipping Sparrow (1)
___Clay-colored Sparrow (5)
_X_Brewer's Sparrow (4)
_X_Fox Sparrow (2)
_X_American Tree Sparrow (4)
_X_Dark-eyed Junco (1)
_X_White-crowned Sparrow (2)
_X_Golden-crowned Sparrow (5)
___Harris's Sparrow (5)
_X_White-throated Sparrow (4)
___Sagebrush Sparrow (5)
_X_Vesper Sparrow (3)
_X_Savannah Sparrow (2)
_X_Song Sparrow (1)
_X_Lincoln's Sparrow (3)
___Green-tailed Towhee (4)
_X_Spotted Towhee (1)

BLACKBIRD, ORIOLES
_X_Yellow-breasted Chat (3)
___Yellow-headed Blackbird (4)
_X_Western Meadowlark (1)
_X_Bullock's Oriole (1)
_X_Red-winged Blackbird (1)
_X_Brown-headed Cowbird (2)
_X_Brewer's Blackbird (1)
___Common Grackle (5)

WARBLERS, BUNTINGS
___Northern Waterthrush (5)
___Black-and-white Warbler (5)
_X_Orange-crowned Warbler (1)
_X_Nashville Warbler (4)
_X_MacGillivray's Warbler (2)
_X_Common Yellowthroat (4)
___American Redstart (4)
_X_Yellow Warbler (1)
___Chestnut-sided Warbler (5)
_X_Yellow-rumped Warbler (2)
_X_Townsend's Warbler (2)
_X_Wilson's Warbler (3)
_X_Western Tanager (1)
_X_Black-headed Grosbeak (2)
_X_Lazuli Bunting (1)

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(1) Common, (2) Uncommon, (3) Harder to find, usually seen annually, (4) Rare, 5+ records, (5) Fewer than 5 records, (X) Extirpated, (I) Introduced

***Above**: A sample of a county checklist, my Columbia county checklist.*

A few other tips:

For those not too familiar with working with multiple sheets in excel files: Each sheet has a tab along the bottom of the file window. The first 3 sheets in this file are the ones we've mentioned above: Master, Species & Rank. As you create county need and county life lists, these will be added as additional sheets, with the tabs to the right of the first 3. New tabs appear just after the 'Rank' tab. I'd recommend rearranging your county needs sheets into a more manageable order – I alphabetize them, split between Western WA and Eastern WA.

County need & life sheets are not automatically updated – so you'll want to regenerate them periodically to reflect new totals. When you do this, if you have not already deleted the previous sheet for that county, the new sheet will not be given the default sheet name [County name or County name + life] – After you've deleted the previous version, you will be able to rename the new sheet with the standard name.

If you select a tab and right-click [or control-click on a Mac], you'll see a menu of helpful options – renaming sheets, moving tabs, deleting sheets. You can do the same things with other maneuvers, but this is the one-stop option for most 'tab' needs.

Please send questions & feedback as you get used to the spreadsheet – We'll do our best to help.

Matt Bartels & Michael Hobbs