

Sonoma County Breeding Bird Atlas

Species Maps - Atlas #2

from surveys conducted in Sonoma County, 2011-2016*

*See SCBBA Atlas #1.pdf for comparison maps for each species based on field surveys conducted from 1986-1991

Introduction	3	Storm-Petrel	59	Wrens	130
Evidence Codes	4	Cormorants	60	Gnatcatcher	136
Acknowledgements	6	Herons, Egrets, and Bittern	63	Dipper	137
		New World Vulture	70	Kinglet	138
<u>Bird Families, in taxonomic order:</u>		Osprey	71	Wrentit	139
Ducks, Geese, and Swans	9	Kites, Eagles, and Hawks	72	Thrushes	140
New World Quail	23	Barn Owls and Typical Owls	82	Mockingbird and Thrasher	144
Grebes	28	Kingfisher	90	Starling	146
Pigeons and Doves	30	Woodpeckers	91	Waxwing	147
Nighthawk and Poorwill	34	Falcons	98	Old World Sparrow	148
Swifts	36	Tyrant Flycatchers	100	Finches, Crossbill, and Siskin	149
Hummingbirds	38	Shrike	107	Sparrows and Towhees	156
Rails, Gallinule, and Coot	40	Vireos	108	Chat	168
Stilt and Avocet	46	Jays, Crow, and Raven	111	Meadowlark, Blackbirds, Orioles	169
Oystercatcher	48	Larks	116	Wood Warblers	177
Plovers	49	Swallows and Martin	117	Tanager	186
Sandpipers and Phalaropes	51	Chickadees and Titmice	123	Grosbeaks and Buntings	187
Auklet, Guillemot, and Murre	53	Nuthatches	126		
Gulls and Terns	57	Creeper	129	Index of Species	191

This set of maps depicts the results of the Second Sonoma County Breeding Bird Atlas, completed in 2016

Data for this version are from the USGS BBA website: https://www.pwrc.usgs.gov/bba/index.cfm?fa=explore.ProjectHome&BBA_ID=CA-Son2011

26-Mar-18

There have been a number of name or taxonomic changes since the first County BBA was completed.

Previous names, current names†, and map page numbers are noted here.

Name Changes

<u>First Atlas Name</u>	<u>Second Atlas Name†</u>	<u>page</u>	† According to American Ornithological Society 59th Supplement, 2018
Blue Grouse	Sooty Grouse	26	
Clapper Rail	Ridgway's Rail	41	
Common Moorhen	Common Gallinule	44	
Gray Jay	Canada Jay	111	
Northern Oriole	Bullock's Oriole	171	
Plain Titmouse	Oak Titmouse	124	
Rock Dove	Rock Pigeon	30	
Rufous-Sided Towhee	Spotted Towhee	156	
Sage Sparrow	Bell's Sparrow	162	
Solitary Vireo	Cassin's Vireo	109	
	California Scrub-Jay	113	
Winter Wren	Pacific Wren	130	

Blank Maps

For the following species, no observations of any kind were reported during the second Atlas period.

Blank maps are included here for completeness and ease of comparison to the first Atlas results

<u>Species</u>	<u>page</u>
Black-Chinned Sparrow	160
Leach's Storm-Petrel	60

Breeding Evidence Codes	
Code	Code description (see handbook for full description & use suggestions)
OB Category - Observed: not breeding evidence	
O	Species (male or female) observed during its breeding season, but not believed to be breeding in the block. Not in suitable nesting habitat.
PO Category - possible breeding evidence	
Z	Species (male or female) observed in suitable nesting habitat during its breeding season.
X	Singing male present in suitable nesting habitat during its breeding season.
PR Category - probable breeding evidence	
P	Pair observed in suitable nesting habitat during its breeding season.
T	Permanent territory presumed through defense of territory (e.g. chasing of other birds, or song at the same location on at least two occasions a week or more apart).
C	Courtship behavior or copulation.
N	Visiting probable nest site.
A	Agitated behavior or anxiety calls from adult.
B	Nest building by wrens or excavation of holes by woodpeckers.
CO Category - confirmed evidence of breeding	
NB	Nest building by all but woodpeckers and wrens.
PE	Physiological evidence of breeding (i.e., highly vascularized, edematous [brood]patch or egg in oviduct) based on bird in hand.
DD	Distraction display or injury feigning.
UN	Used nests or egg shells found. Must be carefully identified, if they are to be accepted.
PY	Precocial young. Flightless young of precocial species restricted to the natal area by dependence on adults or limited ability.
	Recently fledged young (of altricial species) incapable of sustained flight or downy young (of precocial species), restricted to natal area by dependence on adults or limited mobility.
ON	Occupied nest; adults entering or leaving a nest site in circumstances indicating occupied nest (includes high nests or nest holes, the contents of which cannot be seen) or adult incubating or brooding.
AY	Attending young; adult carrying fecal sac or food for young, or feeding recently fledged young.

Breeding Evidence Codes, cont'

CO Category - confirmed evidence of breeding, cont'

NE	Nest with egg(s).
NY	Nest with young seen or heard.

Other codes:

UNK	Evidence code not known
ND	No data. Usually refers to absence of a date of a breeding evidence observation

Acknowledgments

These breeding bird atlas maps have been created based on field data collected from 2011 through 2016.

The data is available online at the USGS BBA Explorer website, at:

https://www.pwrc.usgs.gov/bba/index.cfm?fa=explore.ProjectHome&BBA_ID=CA-Son2011

The Excel spreadsheet data has been organized in this document to create the species maps, early and late dates, and county overlay by David Leland and Gordon Beebe, volunteers with Madrone Audubon Society, © 2020

A list of the volunteers who contributed to the atlas project by collecting data in the field follows below. Many other individuals and organizations assisted, either by allowing access to their properties, or by arranging for access to properties owned by a third party.

Breeding Bird Atlas Training Course (Spring 2010): Lisa Hug

Consultant for the original Breeding Bird Atlas: Betty Burridge

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Atlasers, cont'

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Regional Coordinators:

Ruth Rudesill (Lead Regional Coordinator)

Lisa Hug (Northwest), Richard Merriss (Southeast), Ian Morrison (Northeast), Ken Wilson (Southwest).

Project Coordinators:

Gordon Beebe, Veronica Bowers, Tiffany Erickson, Bob Speckels.

Other Coordinators:

Emiko Condeso (GIS specialist), David Leland, Jennifer Michaud

USGS North American BBA Explorer, Patuxent Wildlife Research Center website:

Mark Wimer, Deputy Center Director

Species Maps

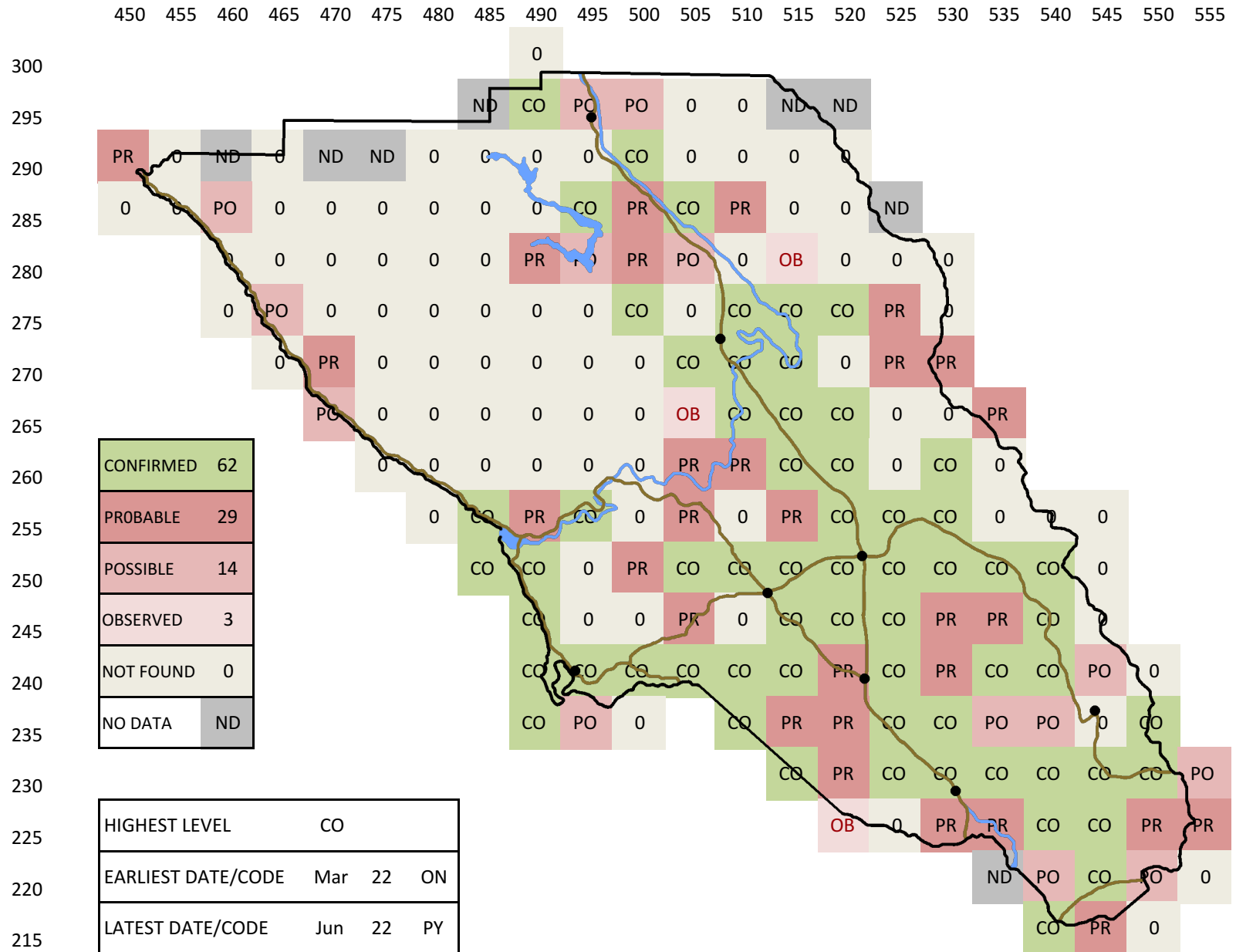
Species are listed in taxonomic order*

*Taxonomic order follows American Ornithological Society 59th Supplement, 2018

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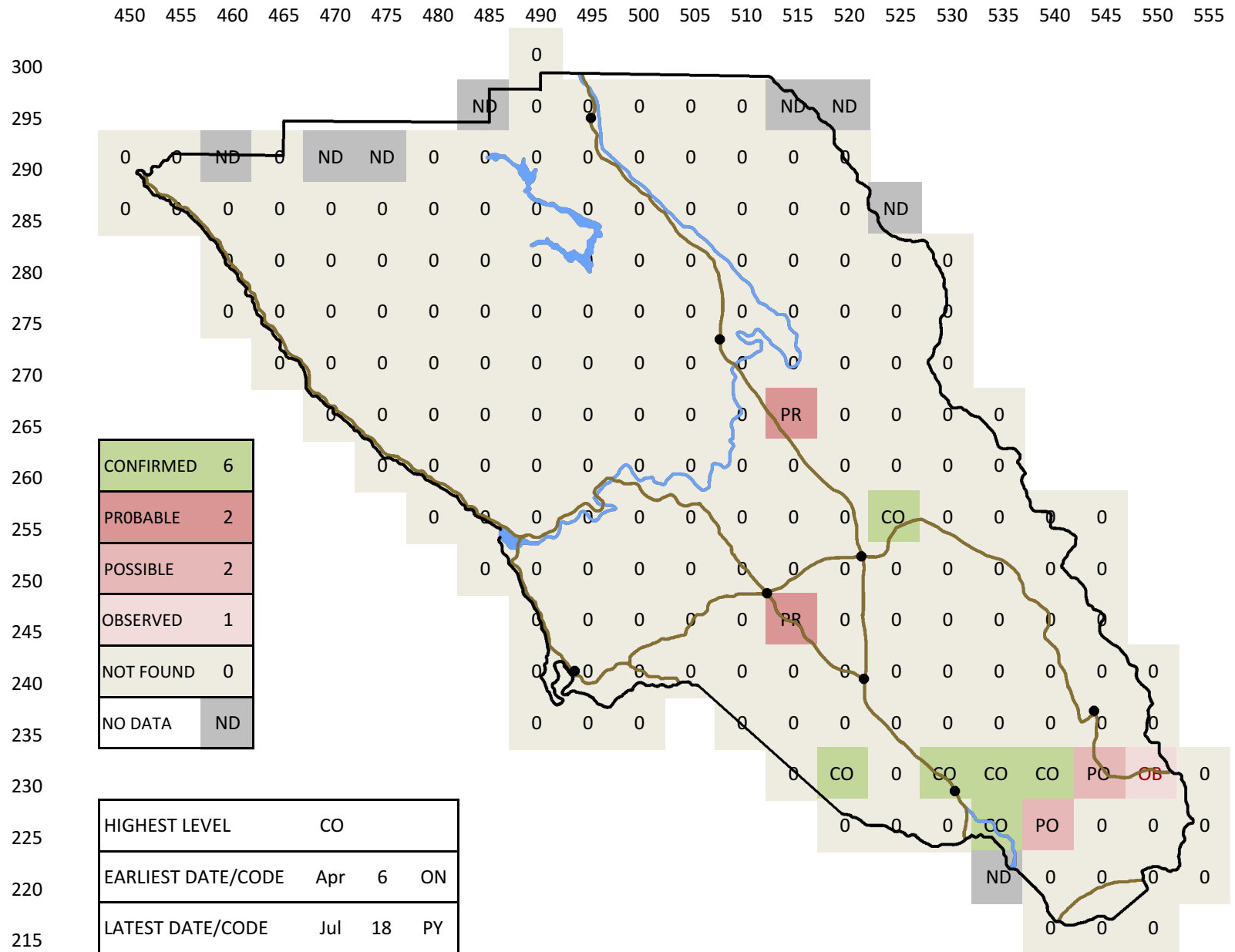
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CANADA GOOSE



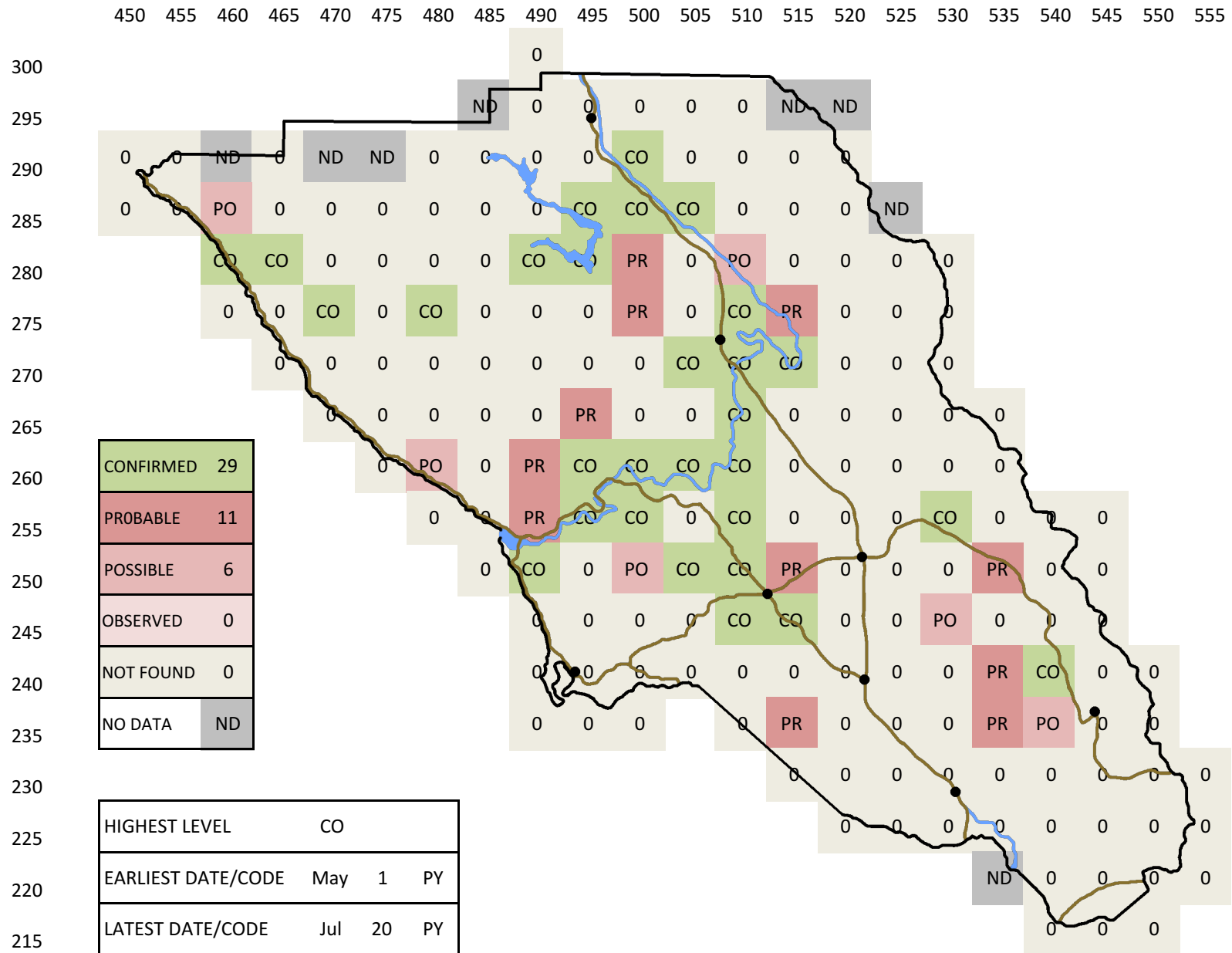
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MUTE SWAN



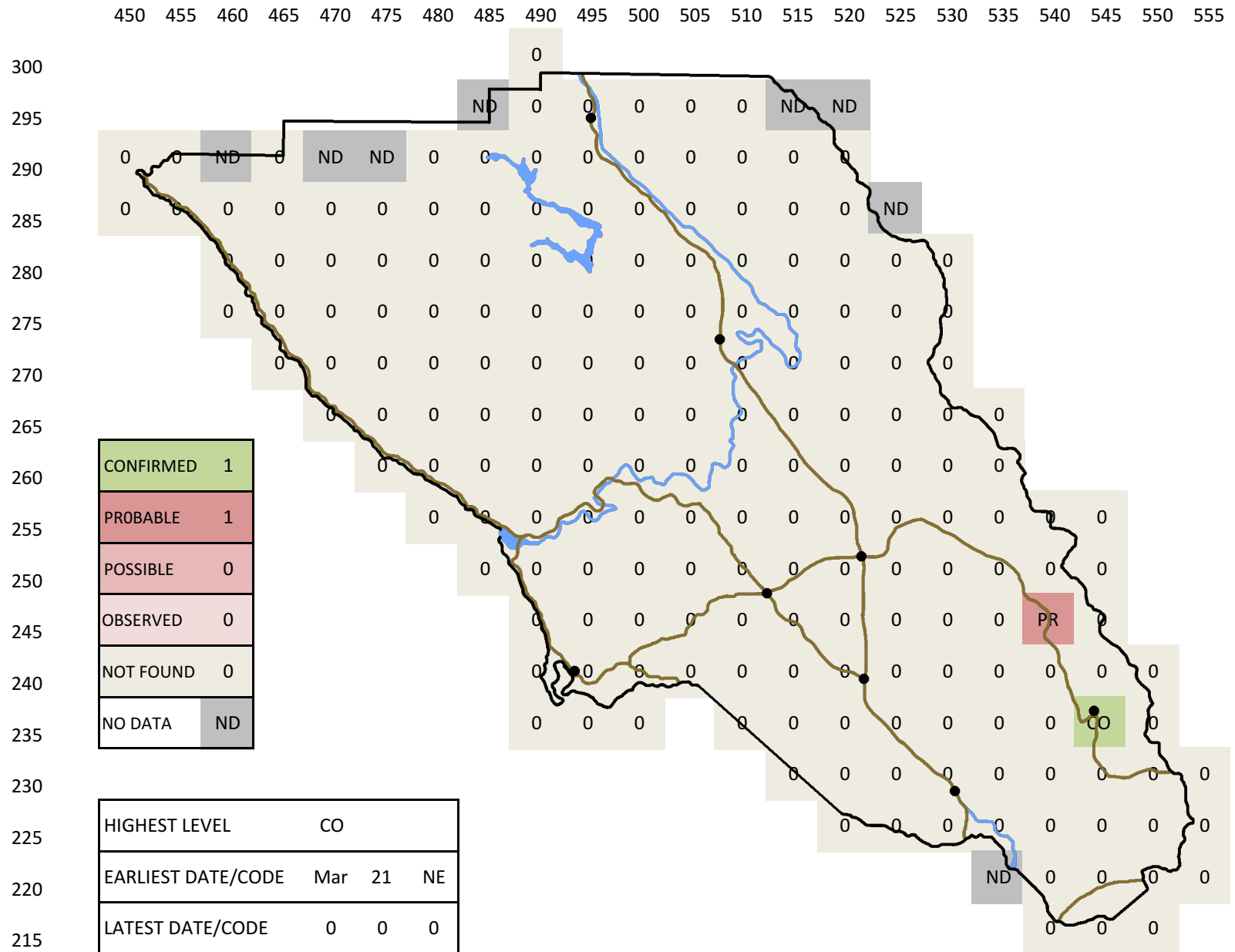
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WOOD DUCK



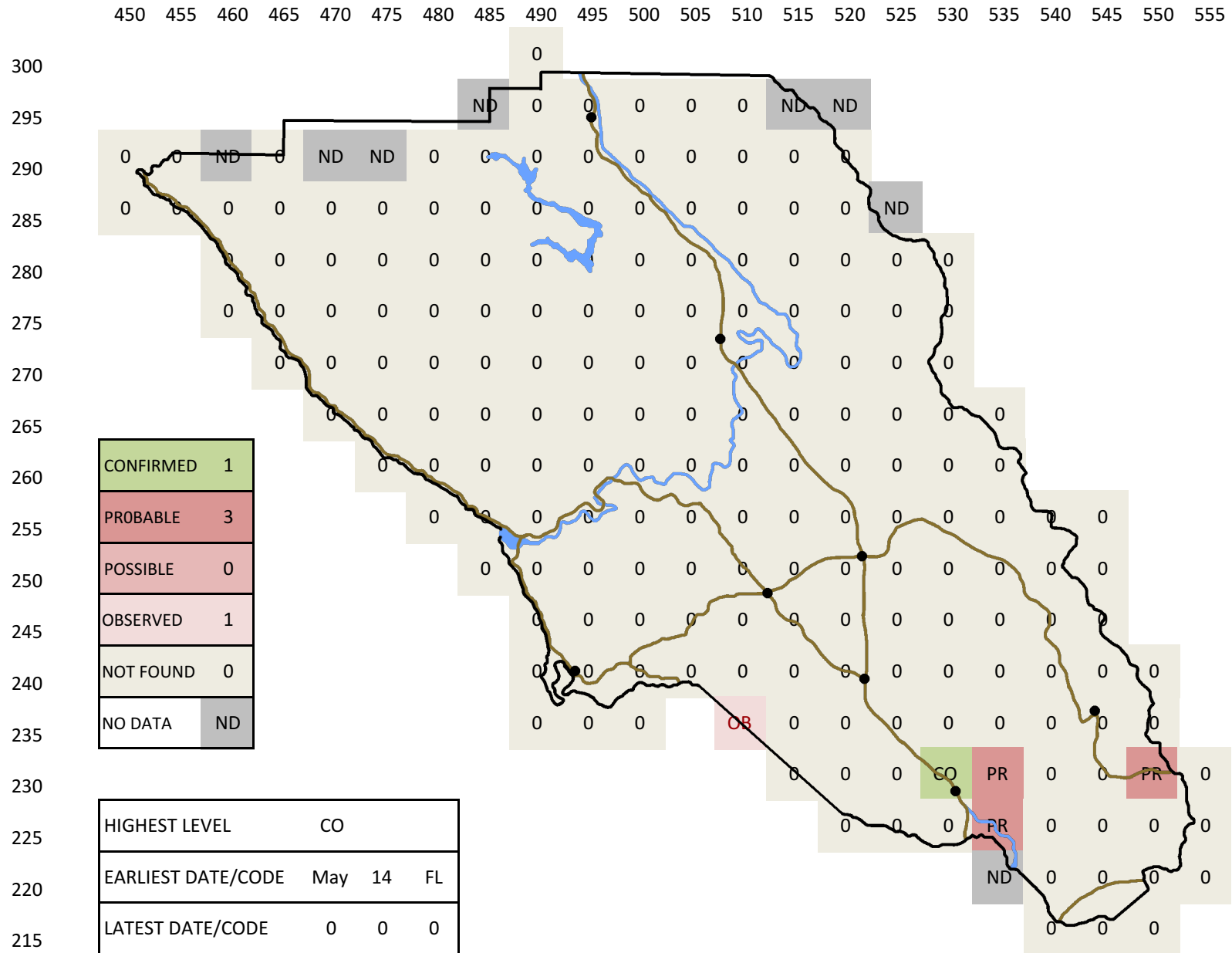
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MANDARIN DUCK



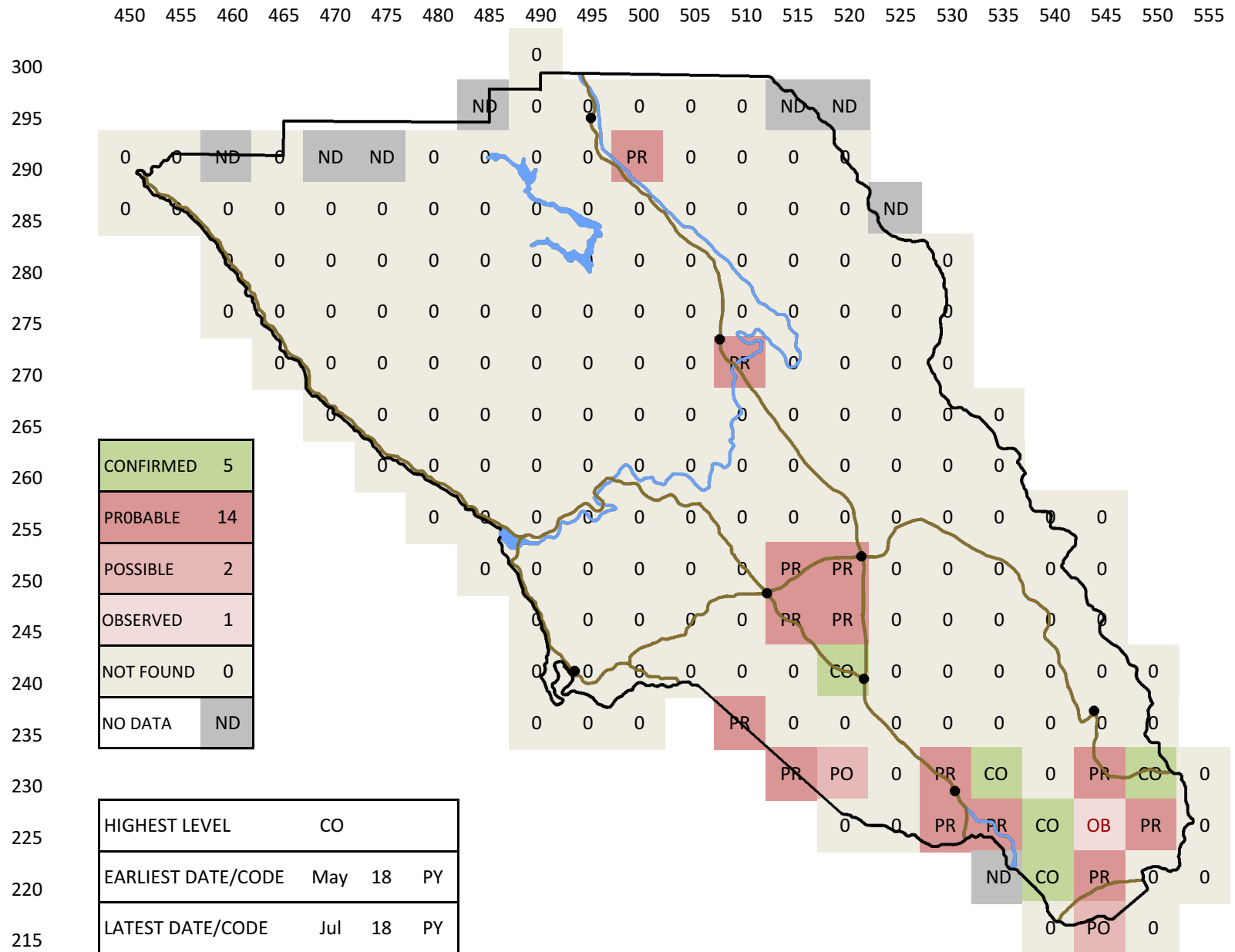
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BLUE-WINGED TEAL



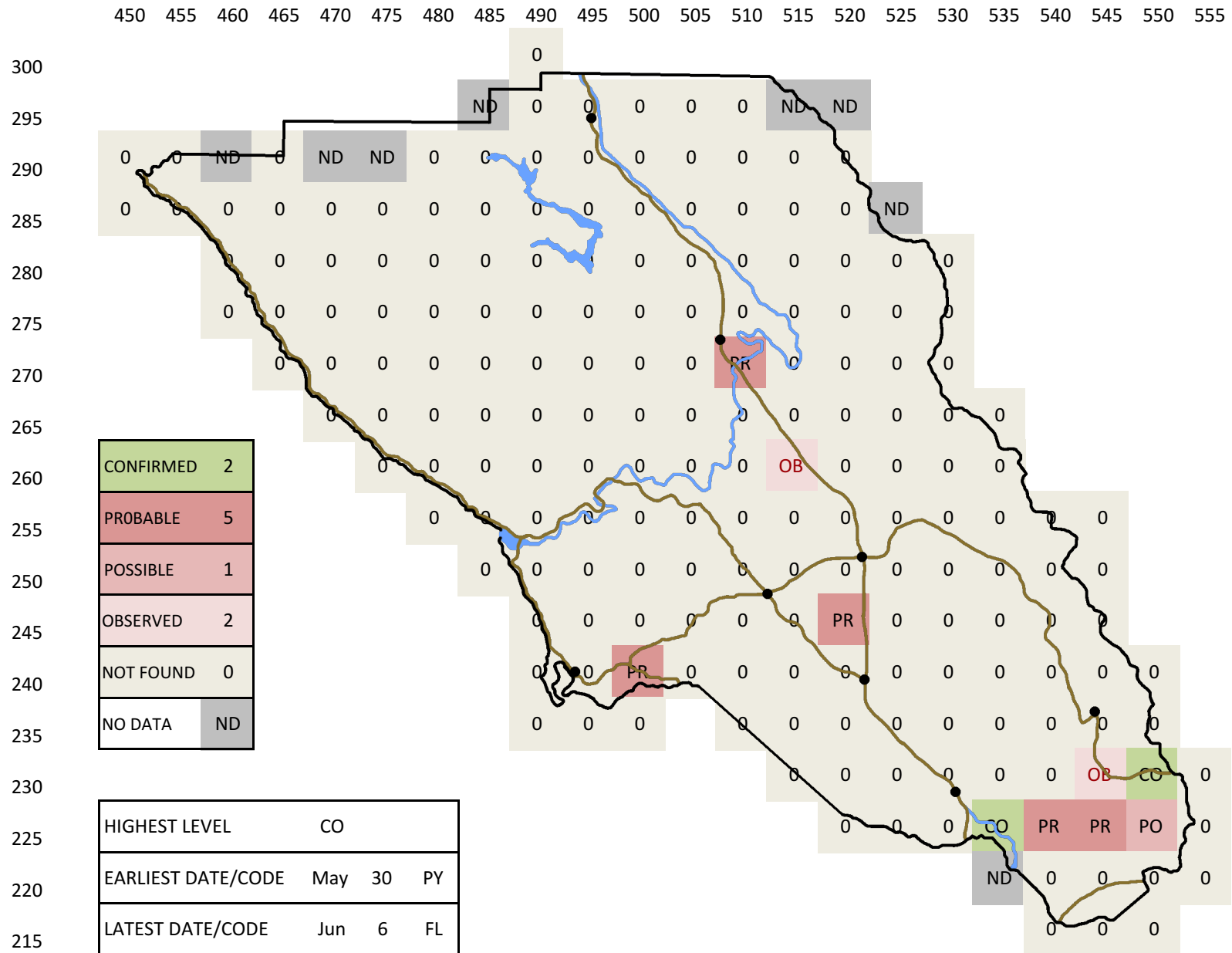
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CINNAMON TEAL



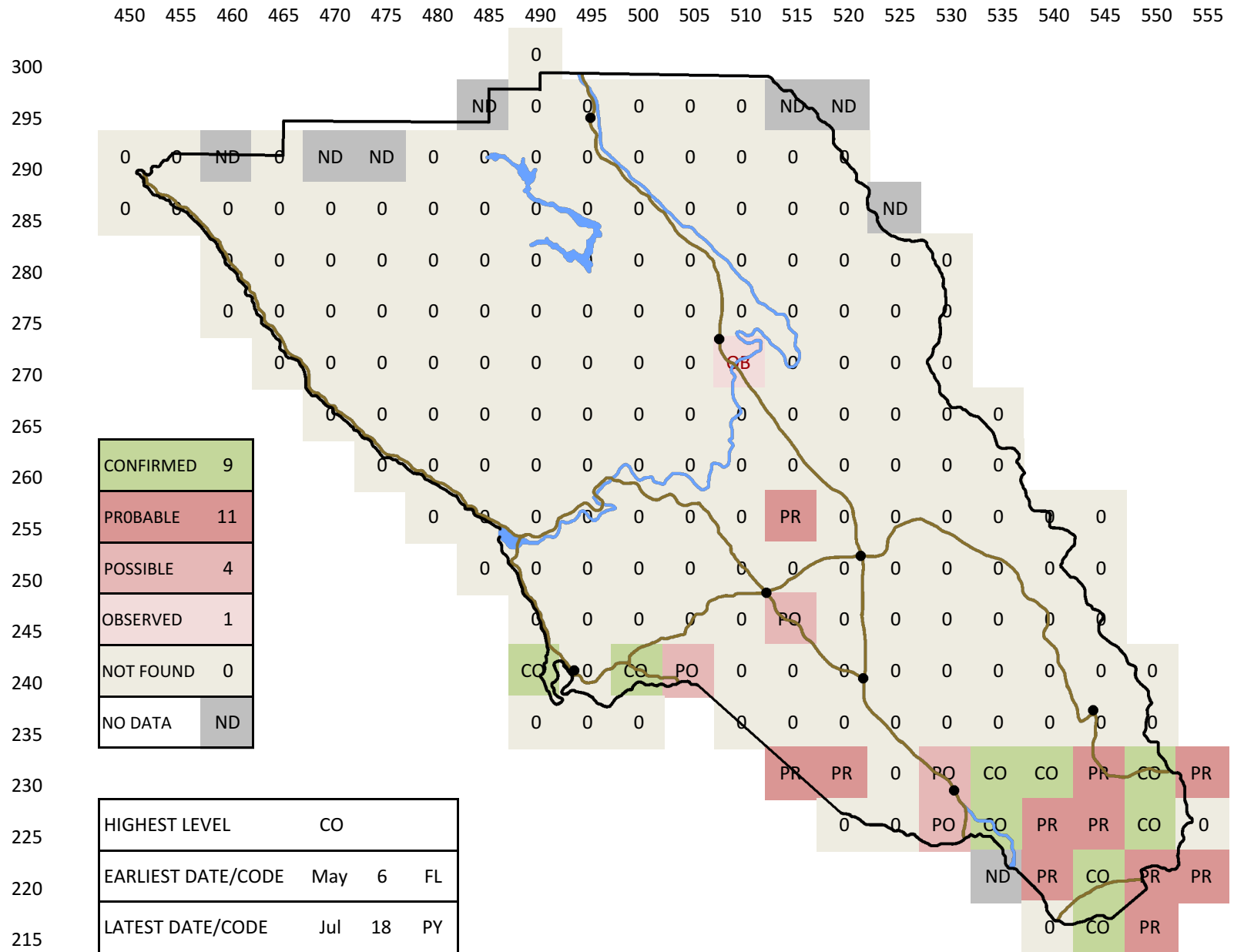
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NORTHERN SHOVELER



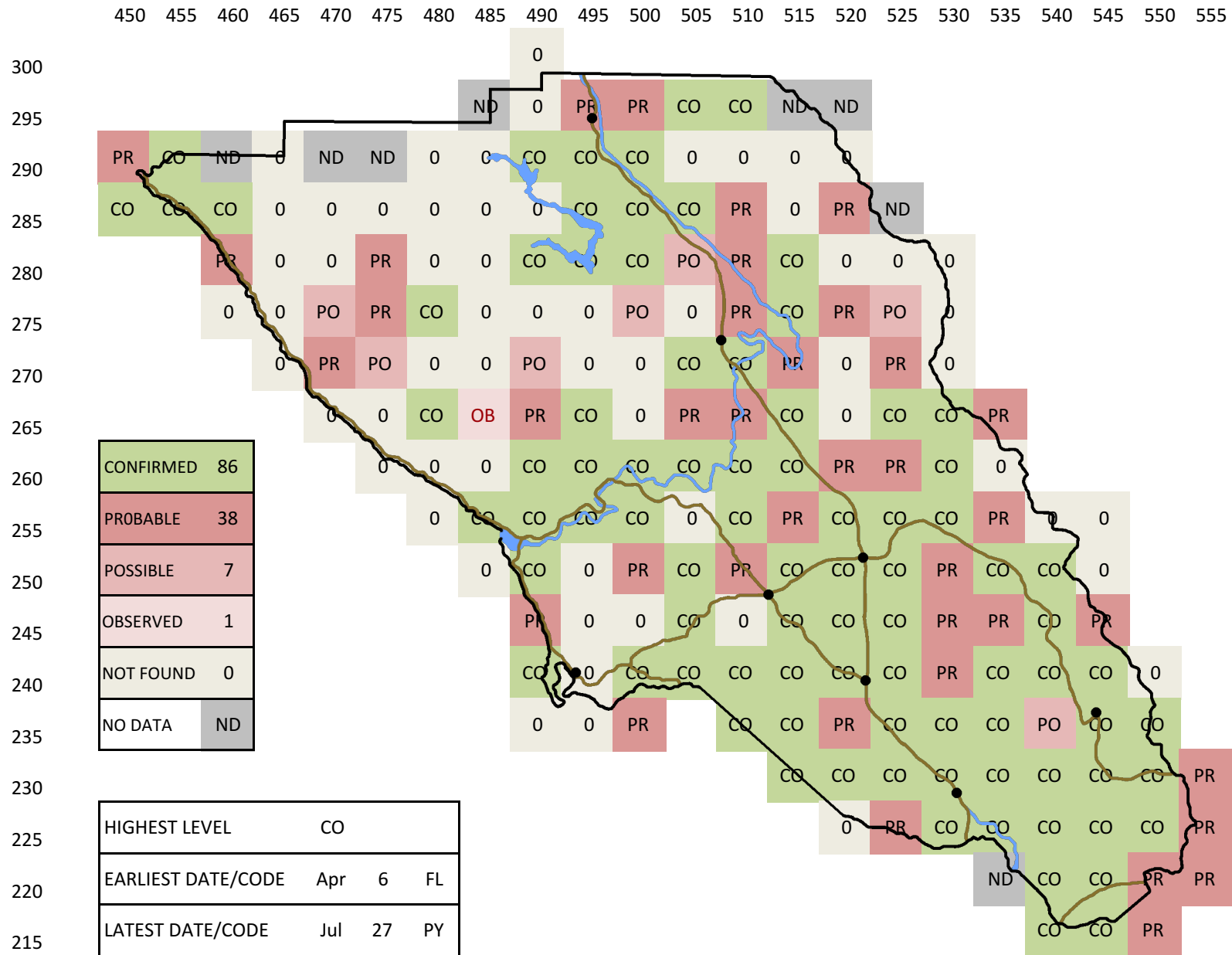
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GADWALL



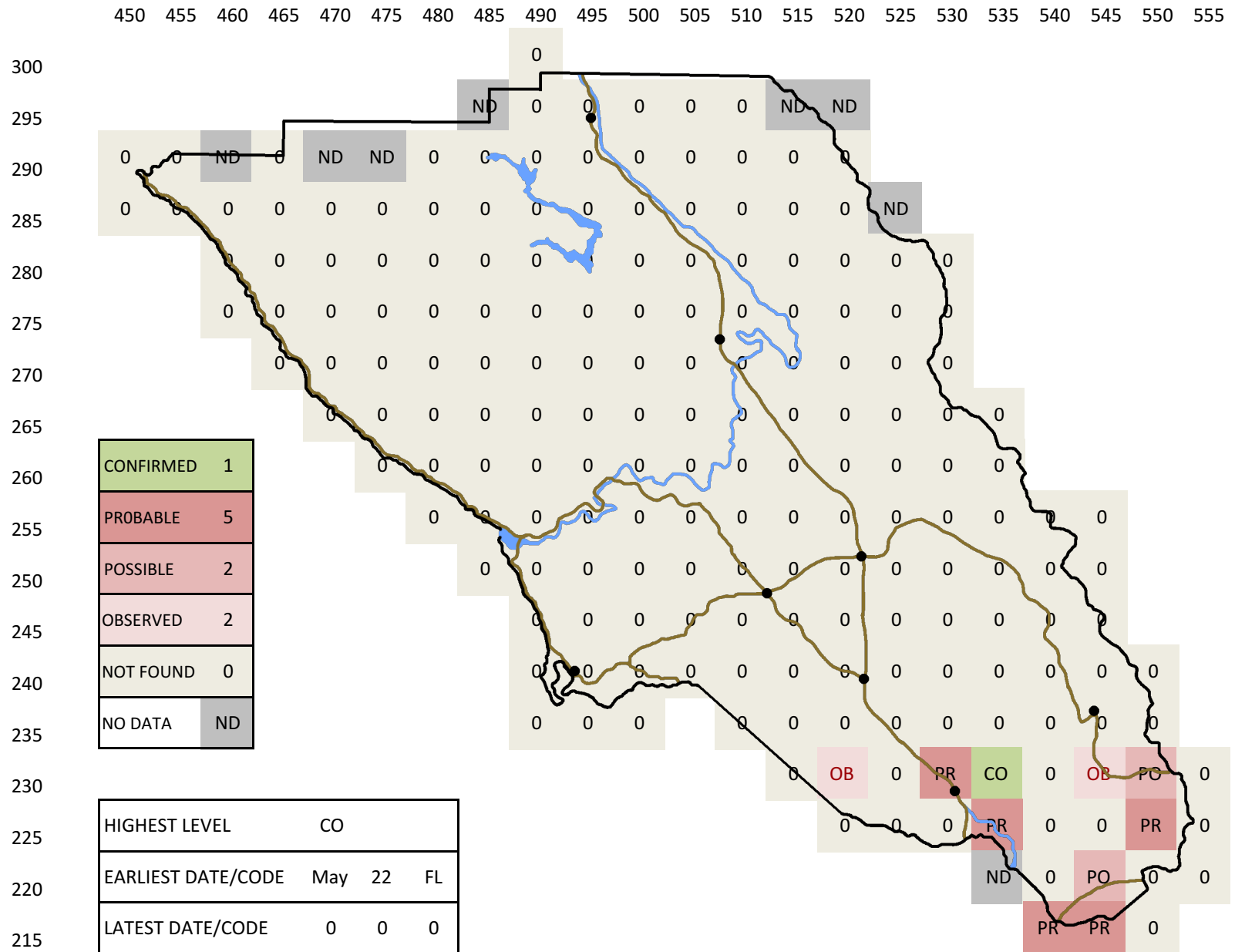
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MALLARD



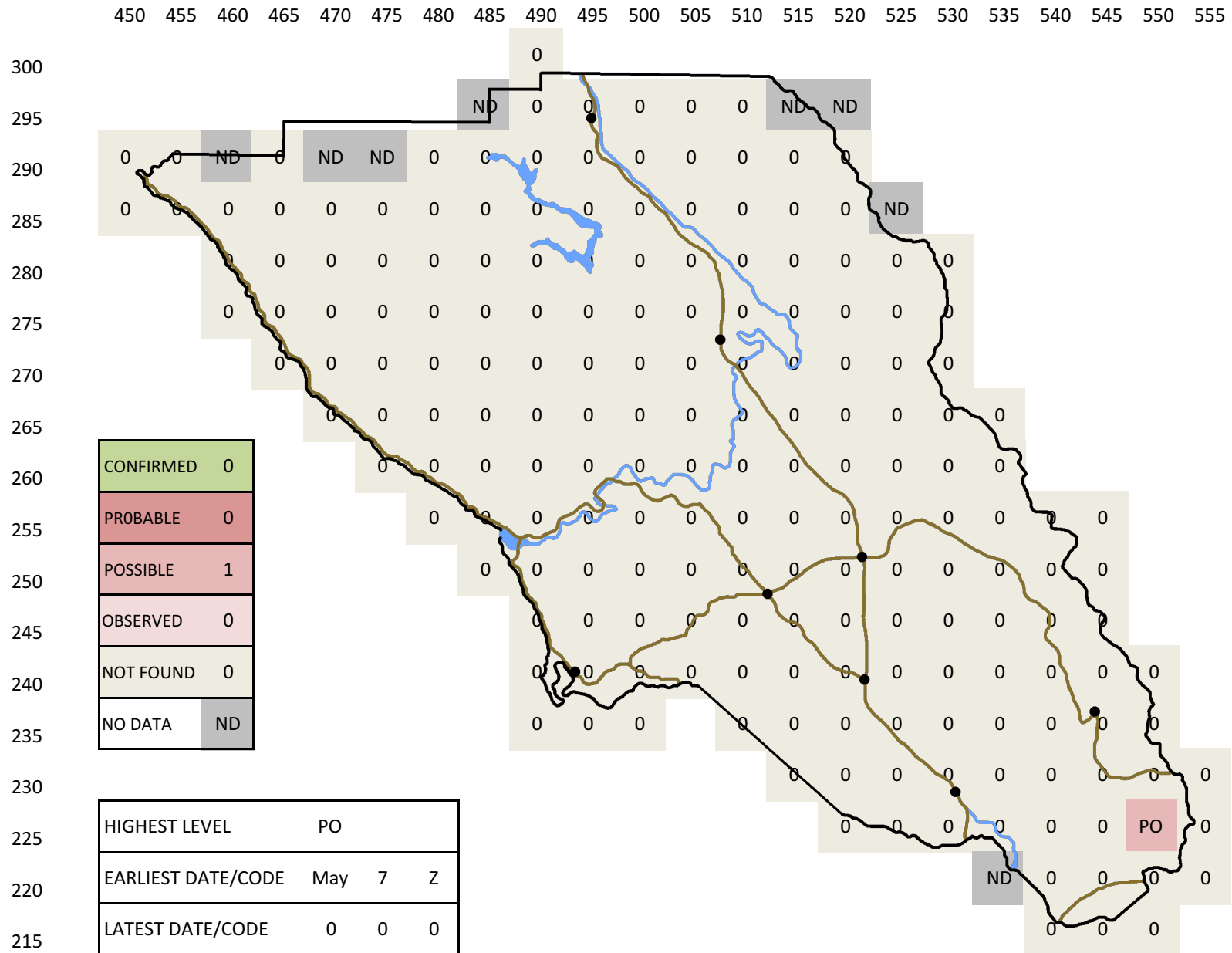
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NORTHERN PINTAIL



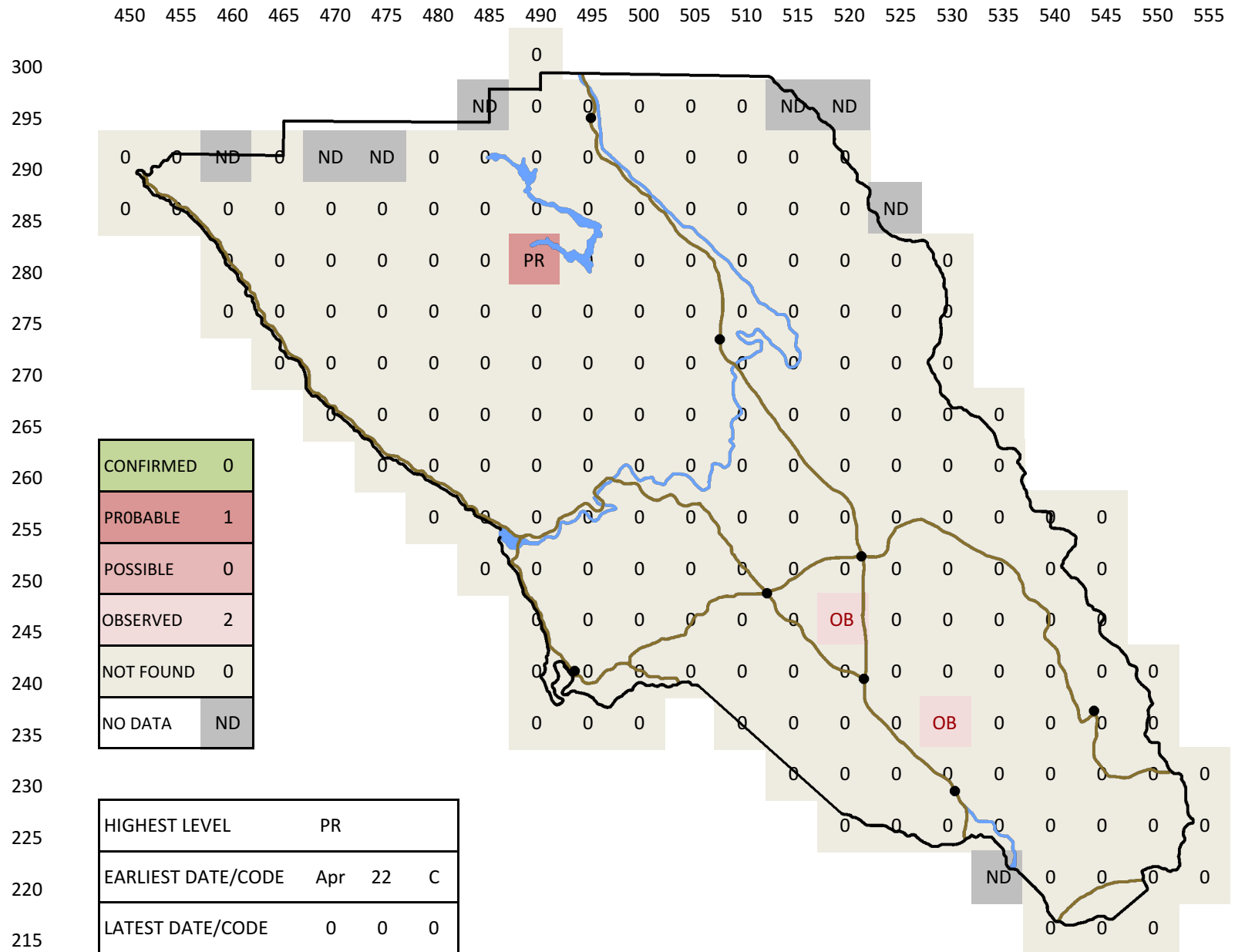
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GREEN-WINGED TEAL

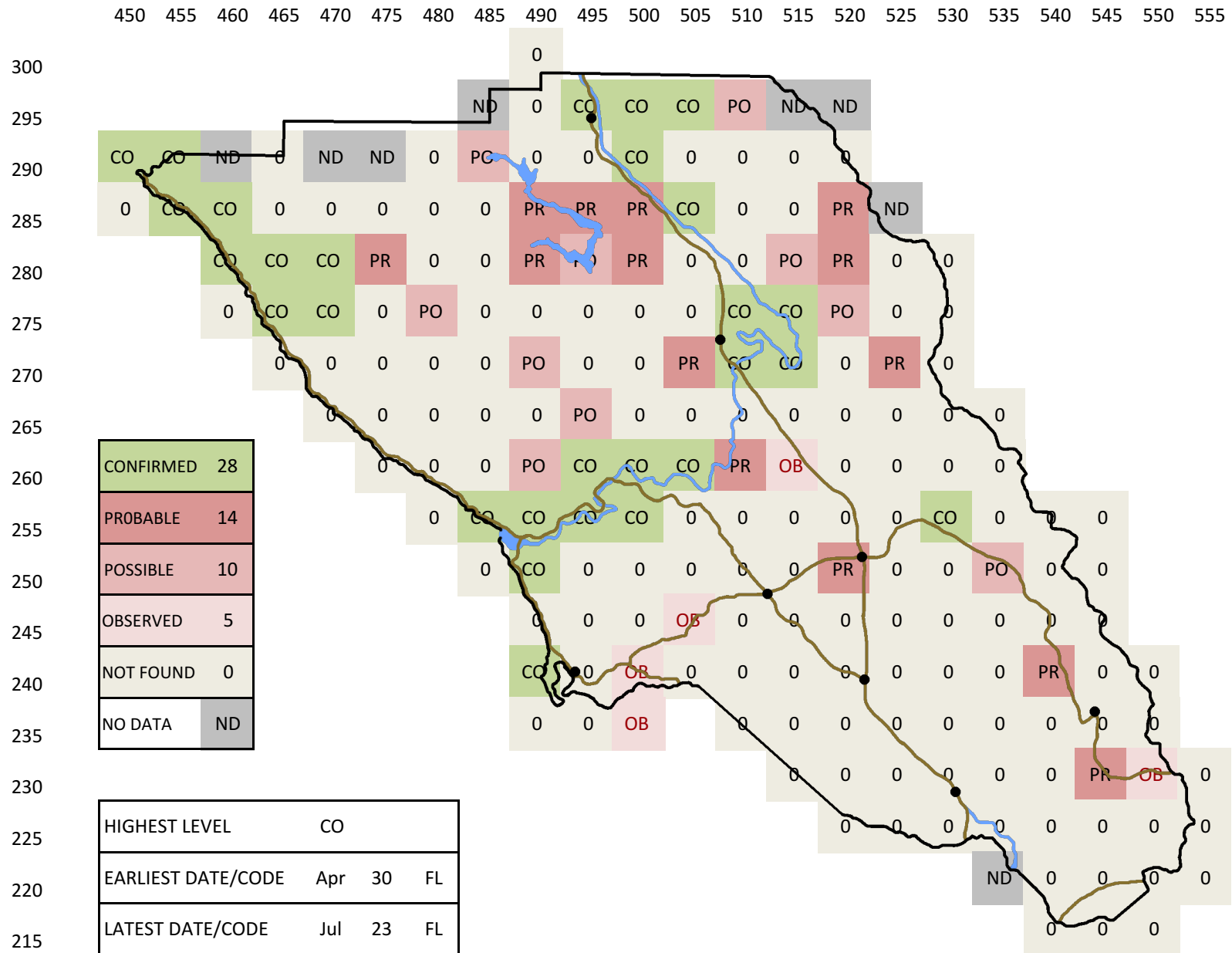


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HOODED MERGANSER

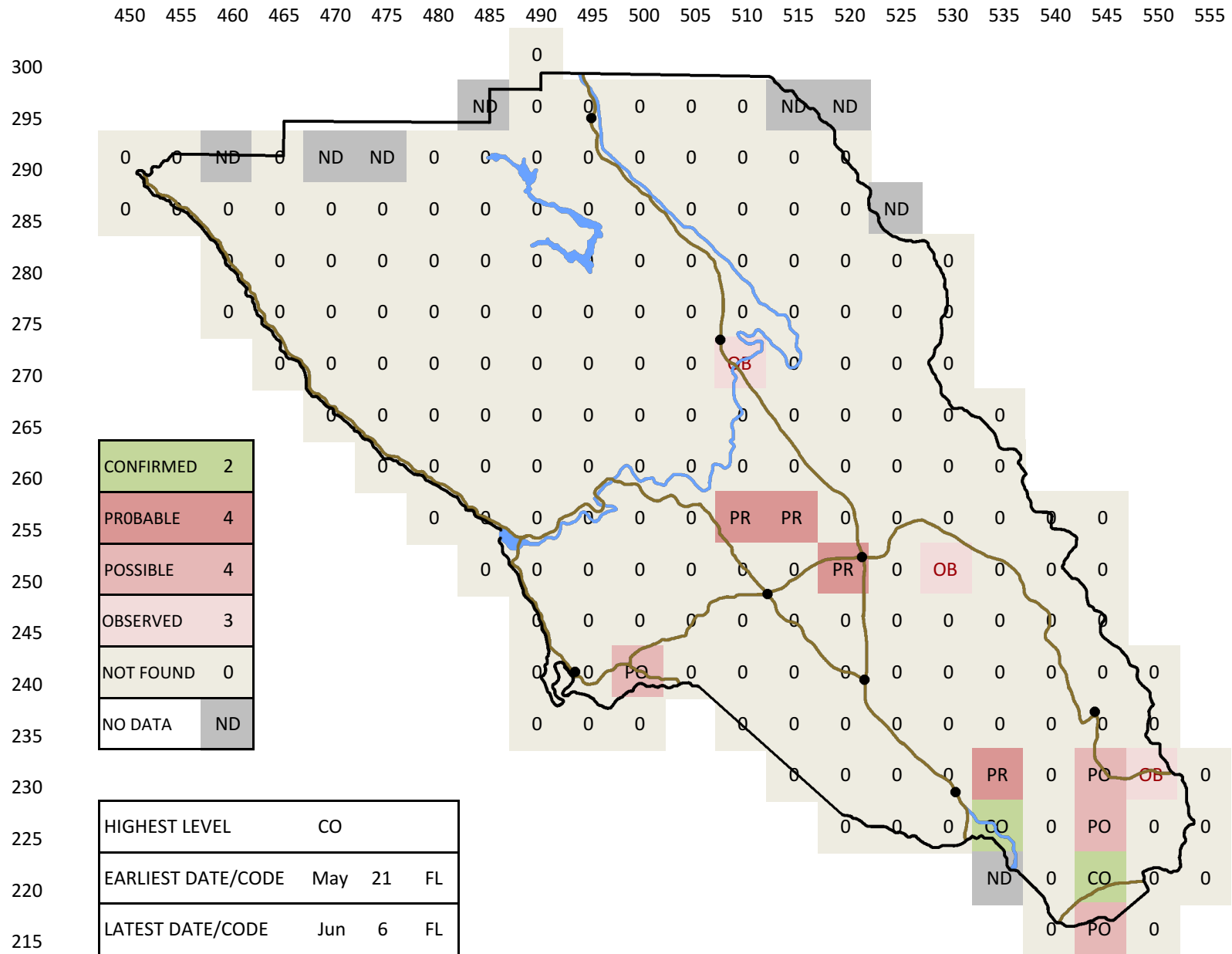


COMMON MERGANSER



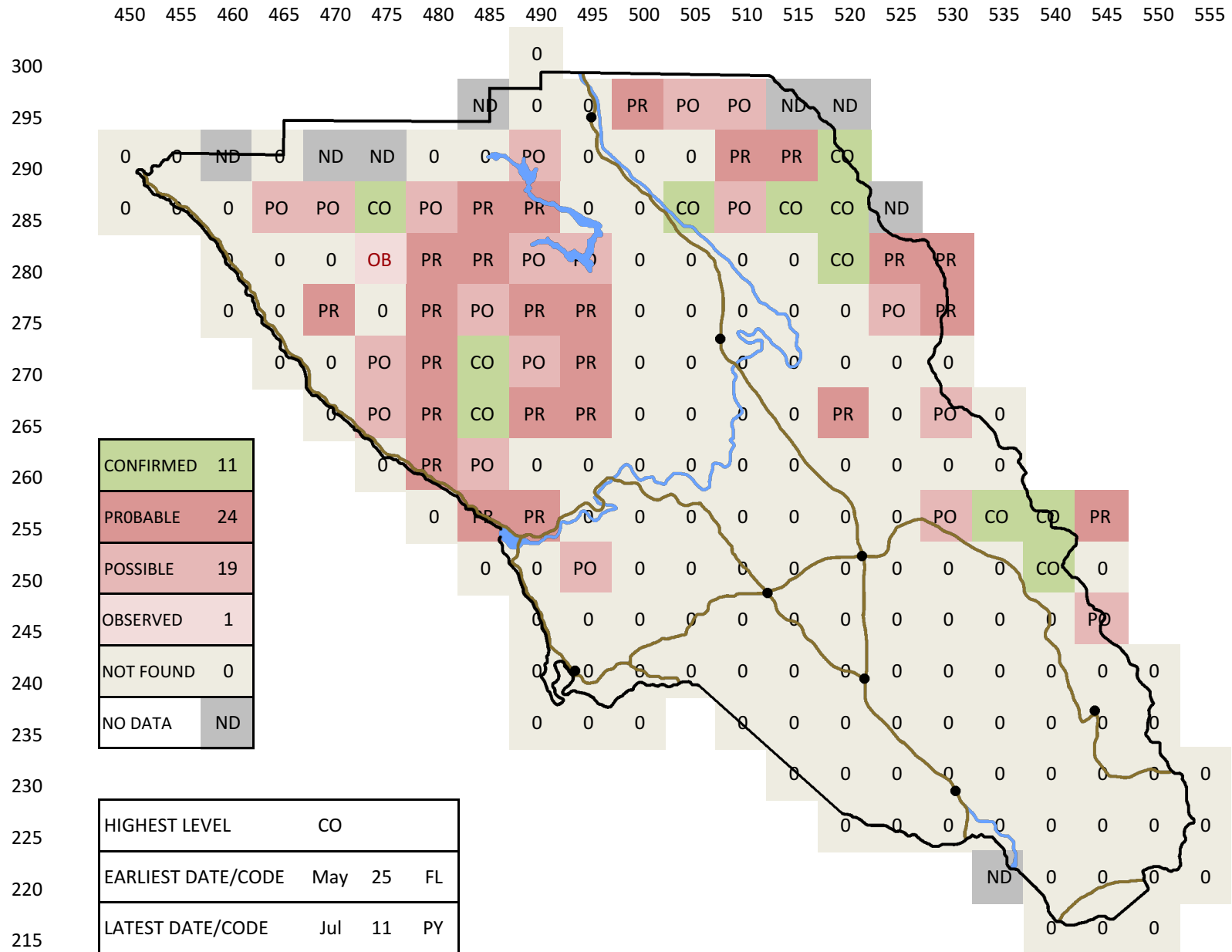
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RUDDY DUCK

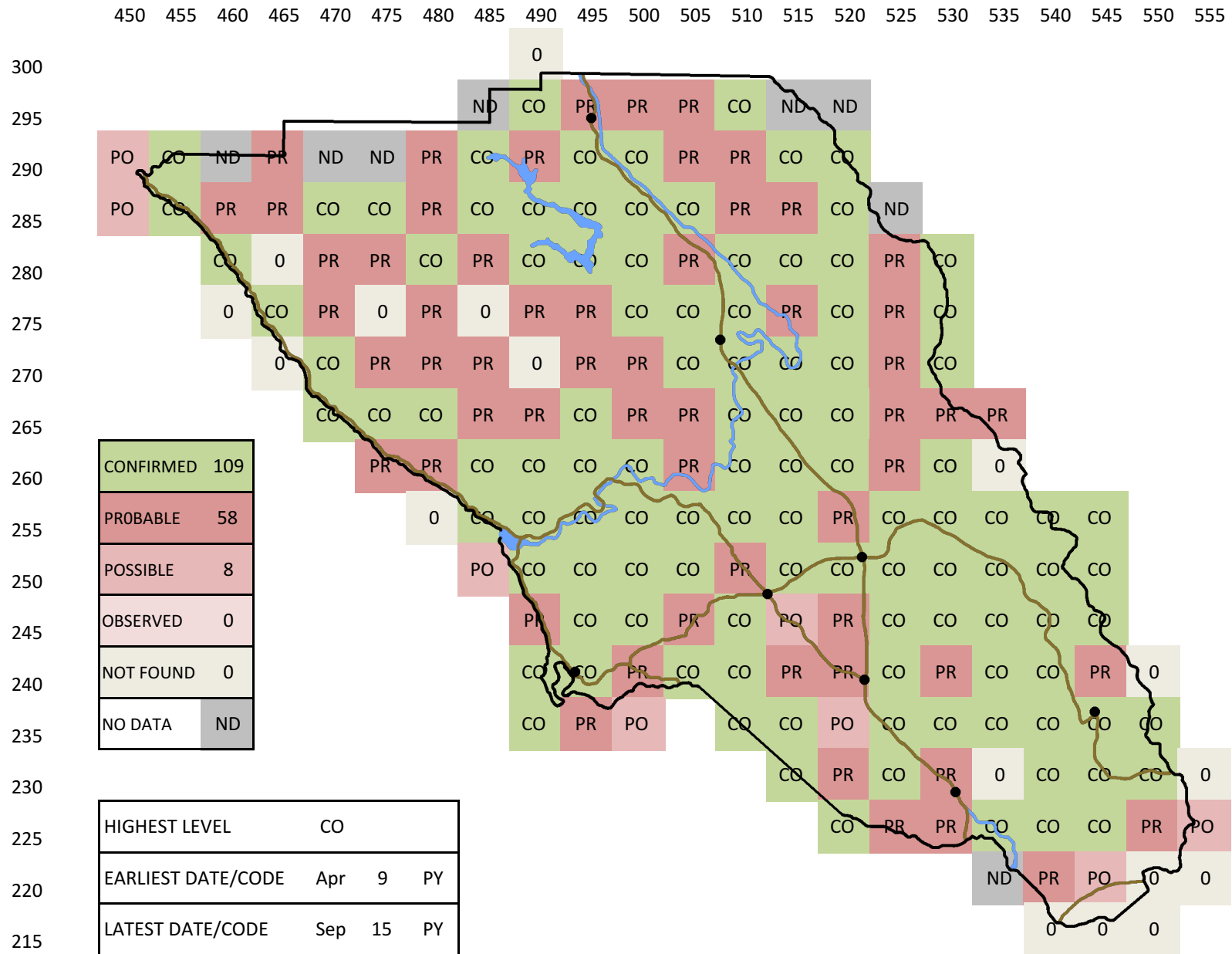


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MOUNTAIN QUAIL

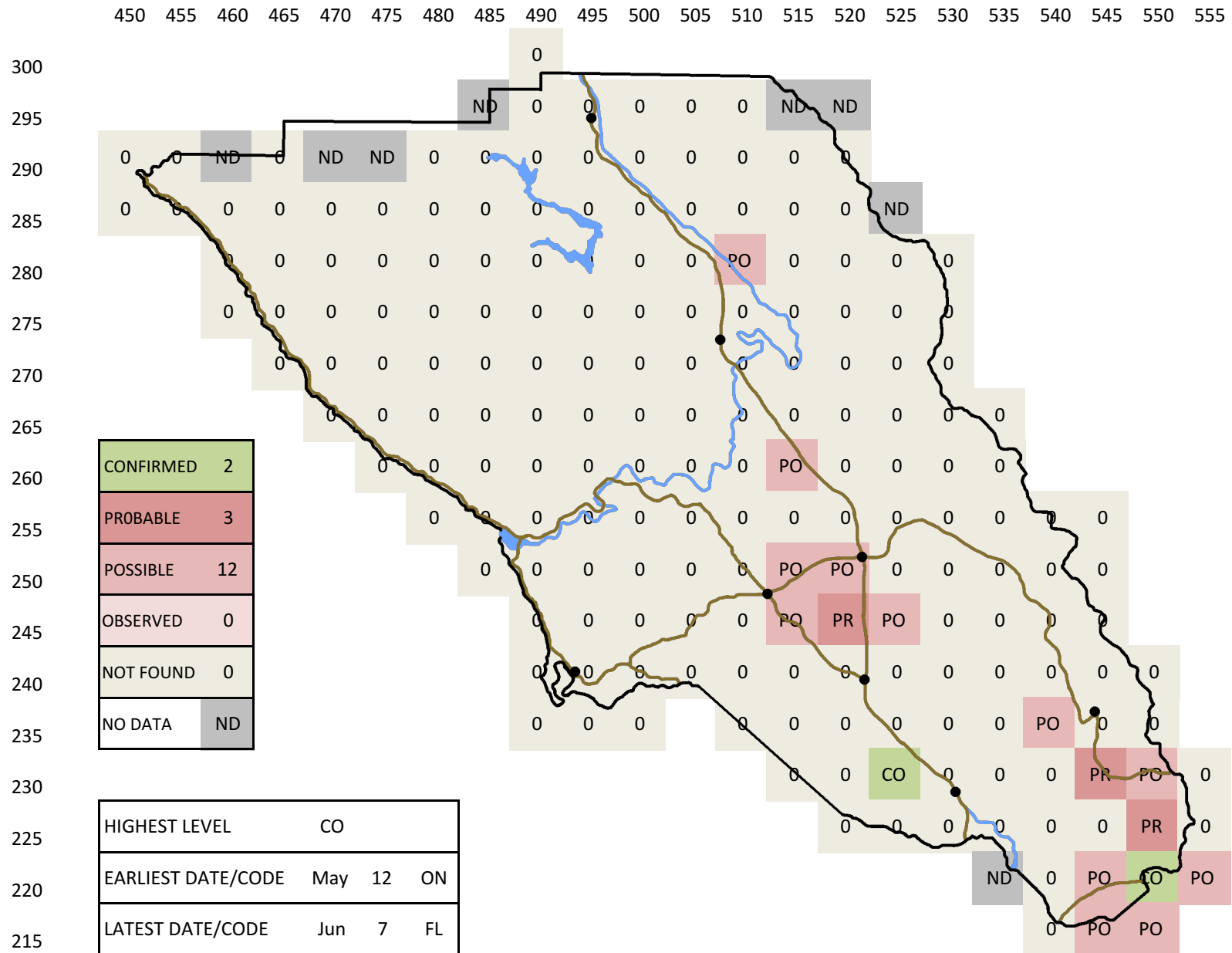


CALIFORNIA QUAIL



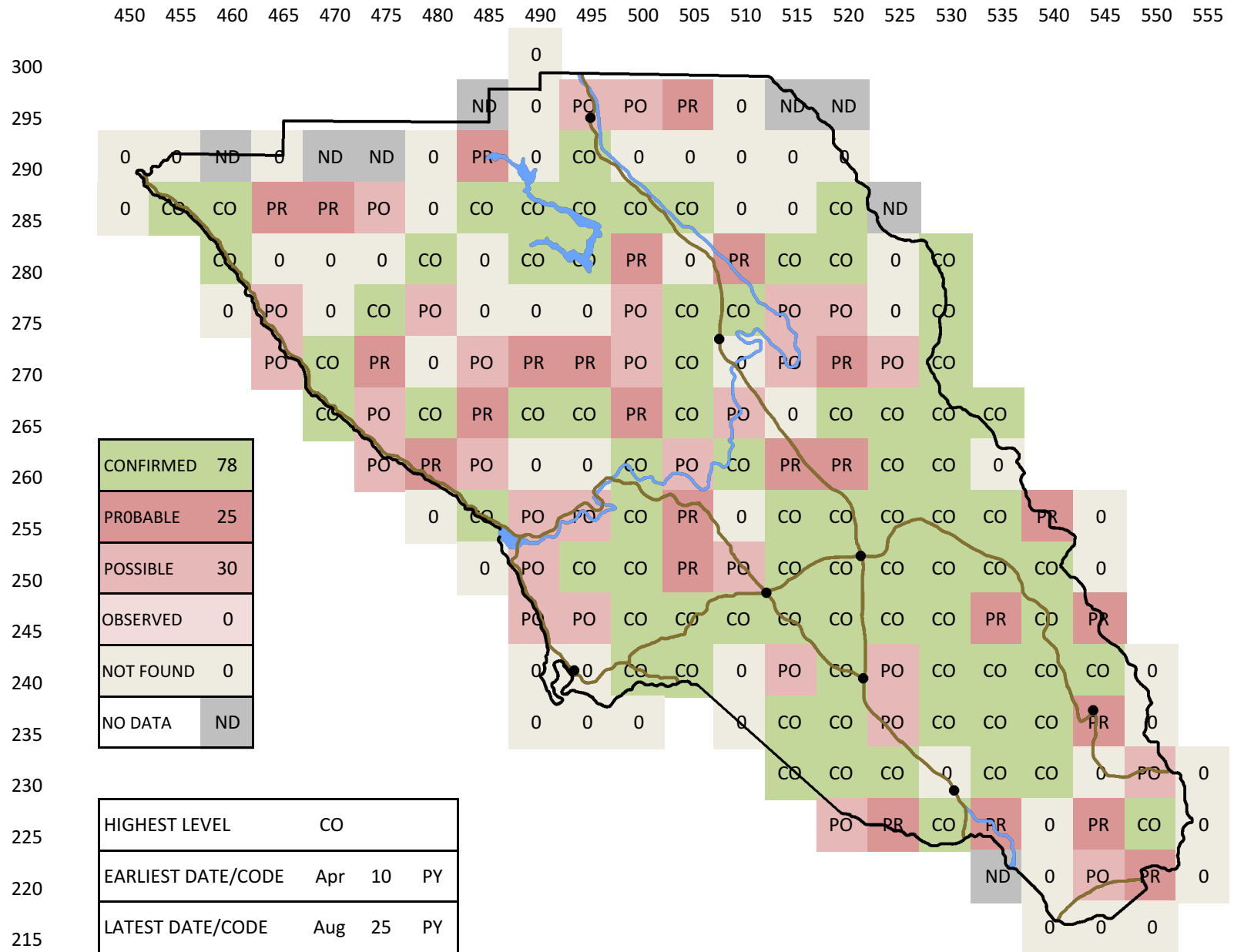
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RING-NECKED PHEASANT



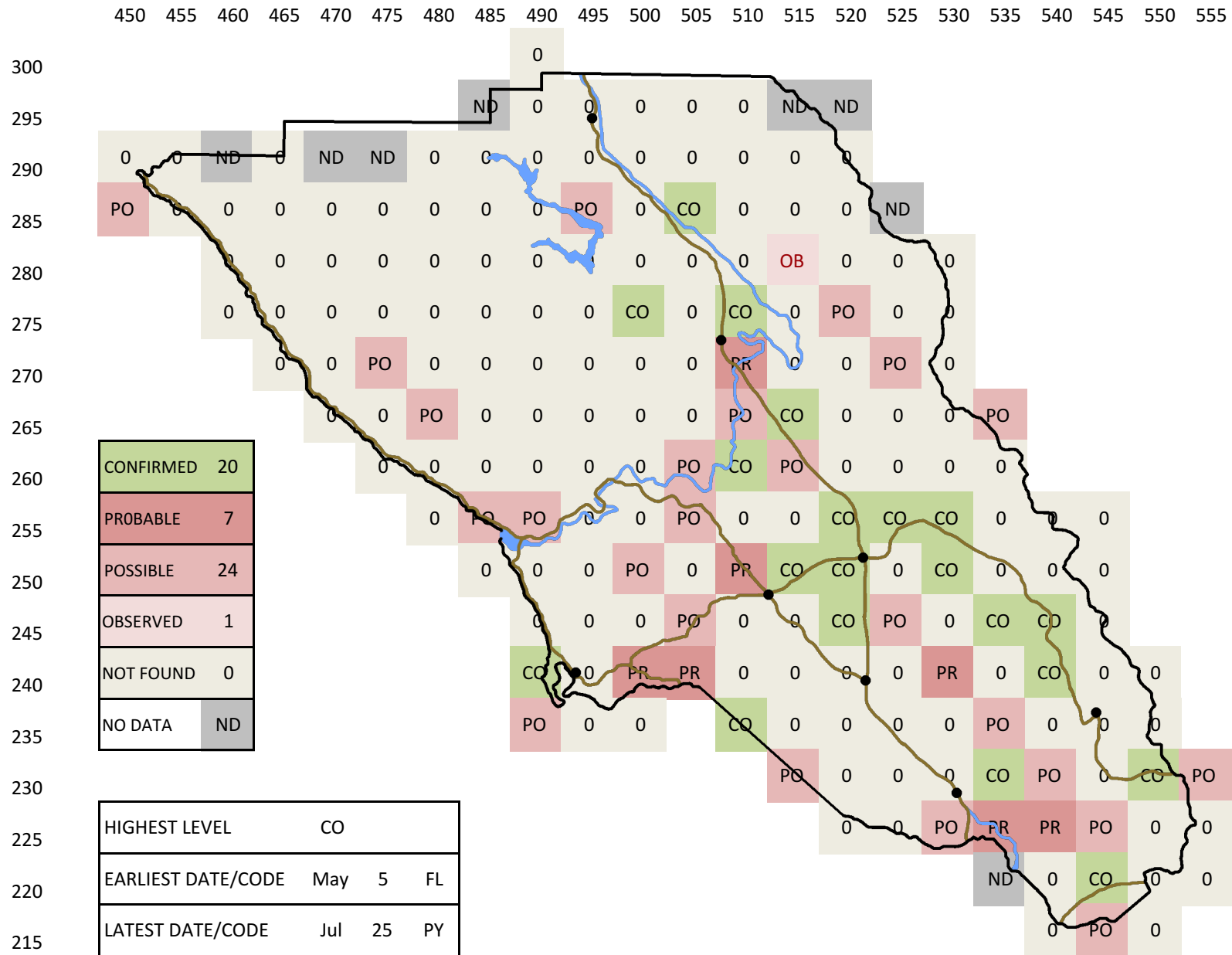
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WILD TURKEY



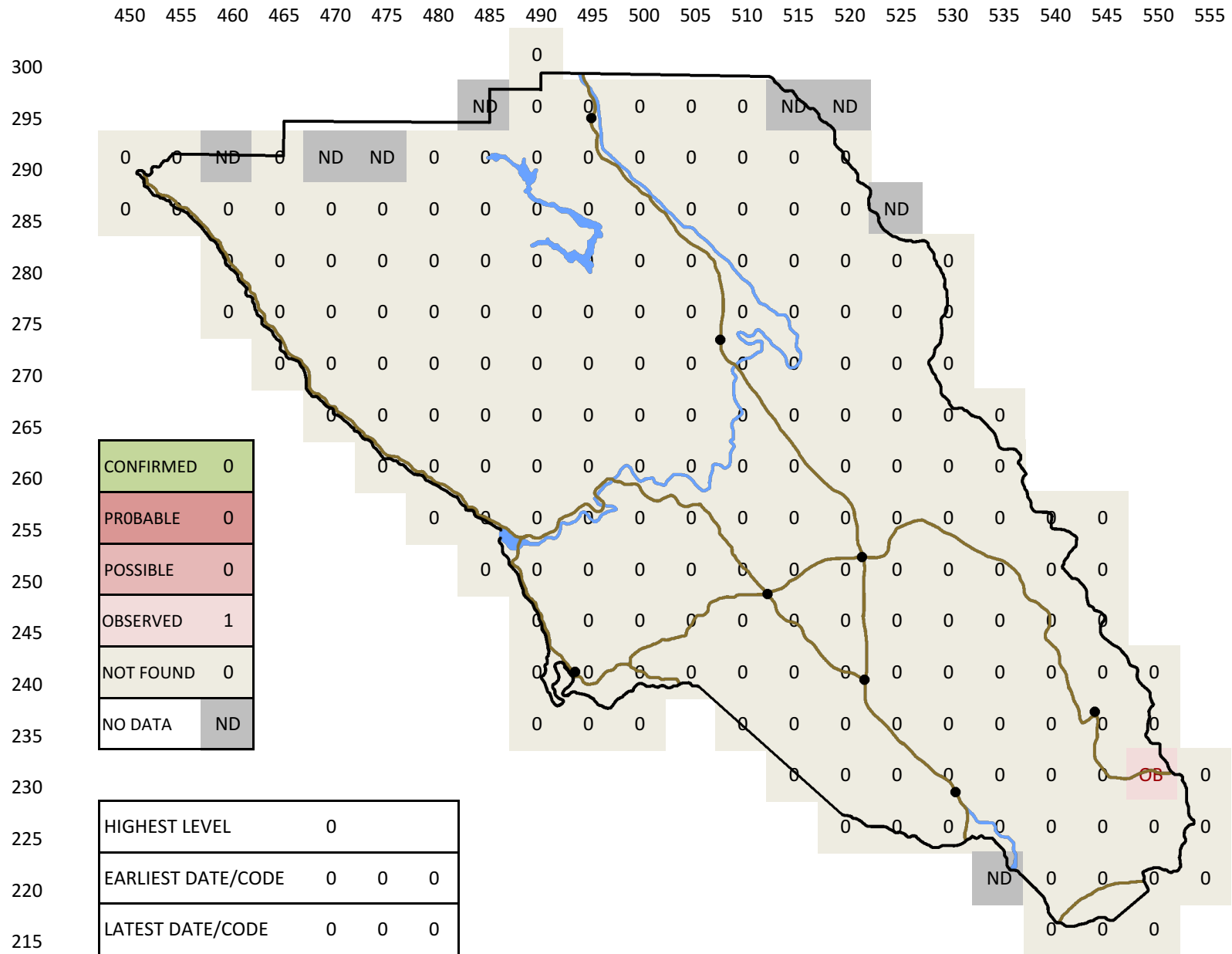
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PIED-BILLED GREBE



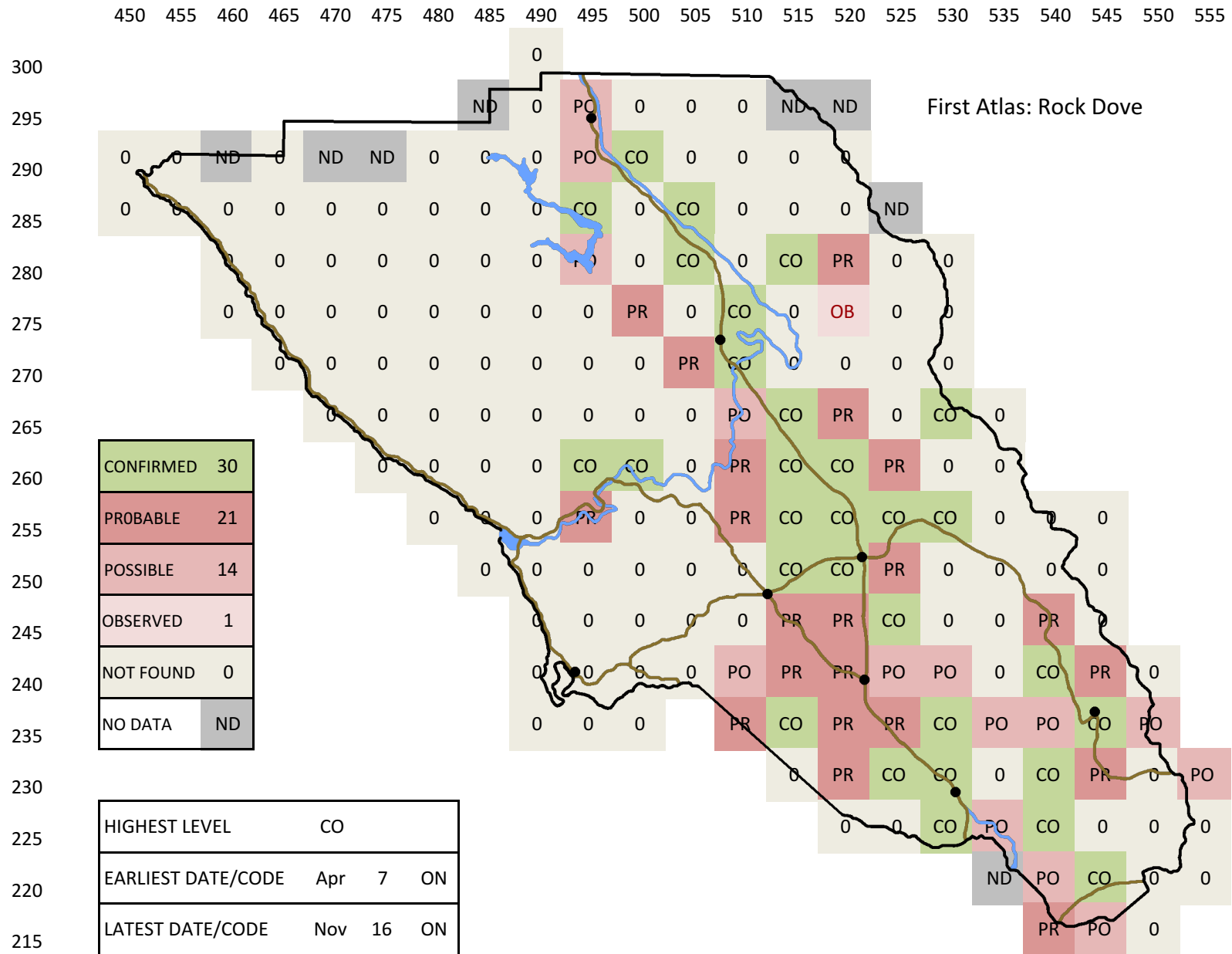
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EARED GREBE

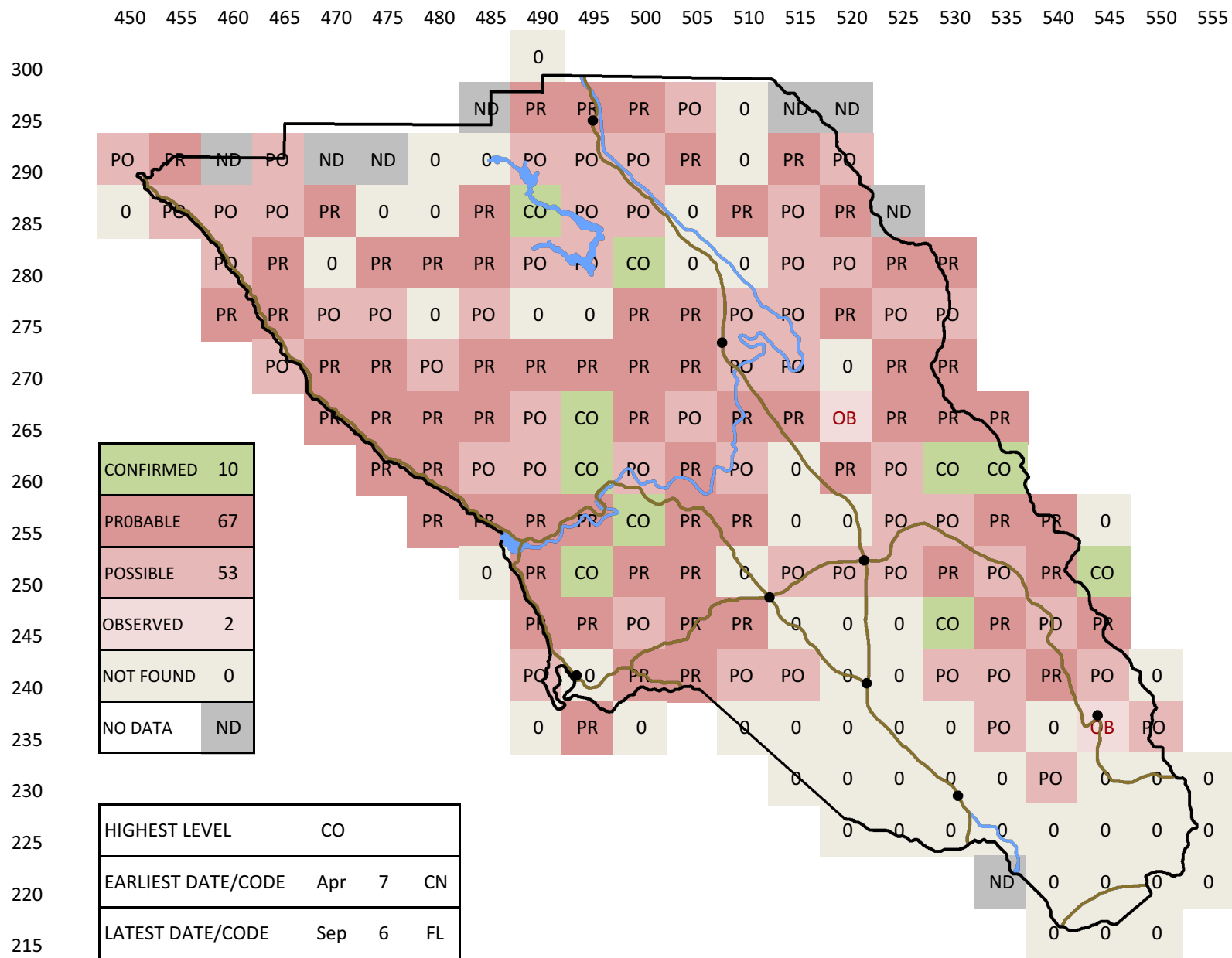


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ROCK PIGEON

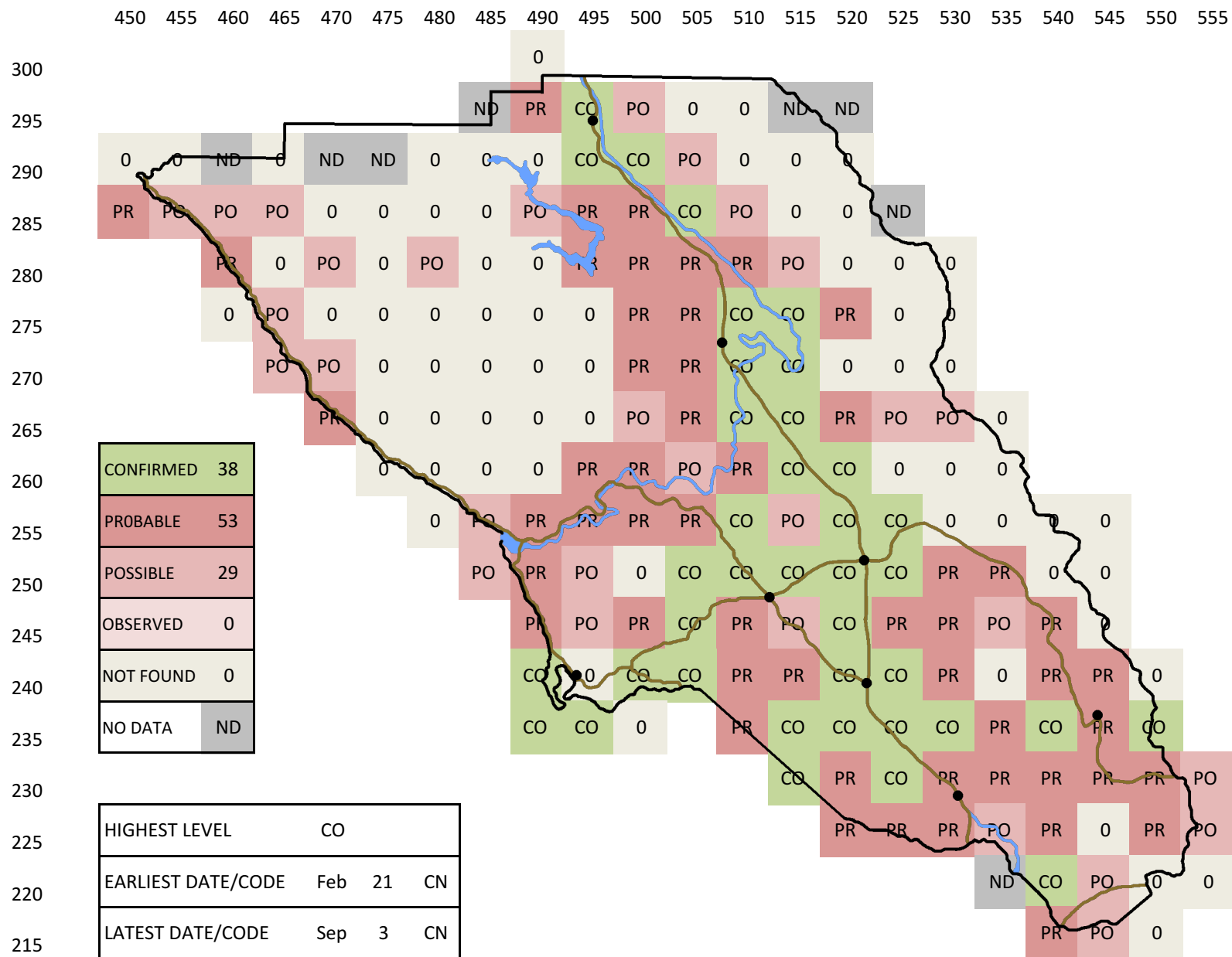


BAND-TAILED PIGEON



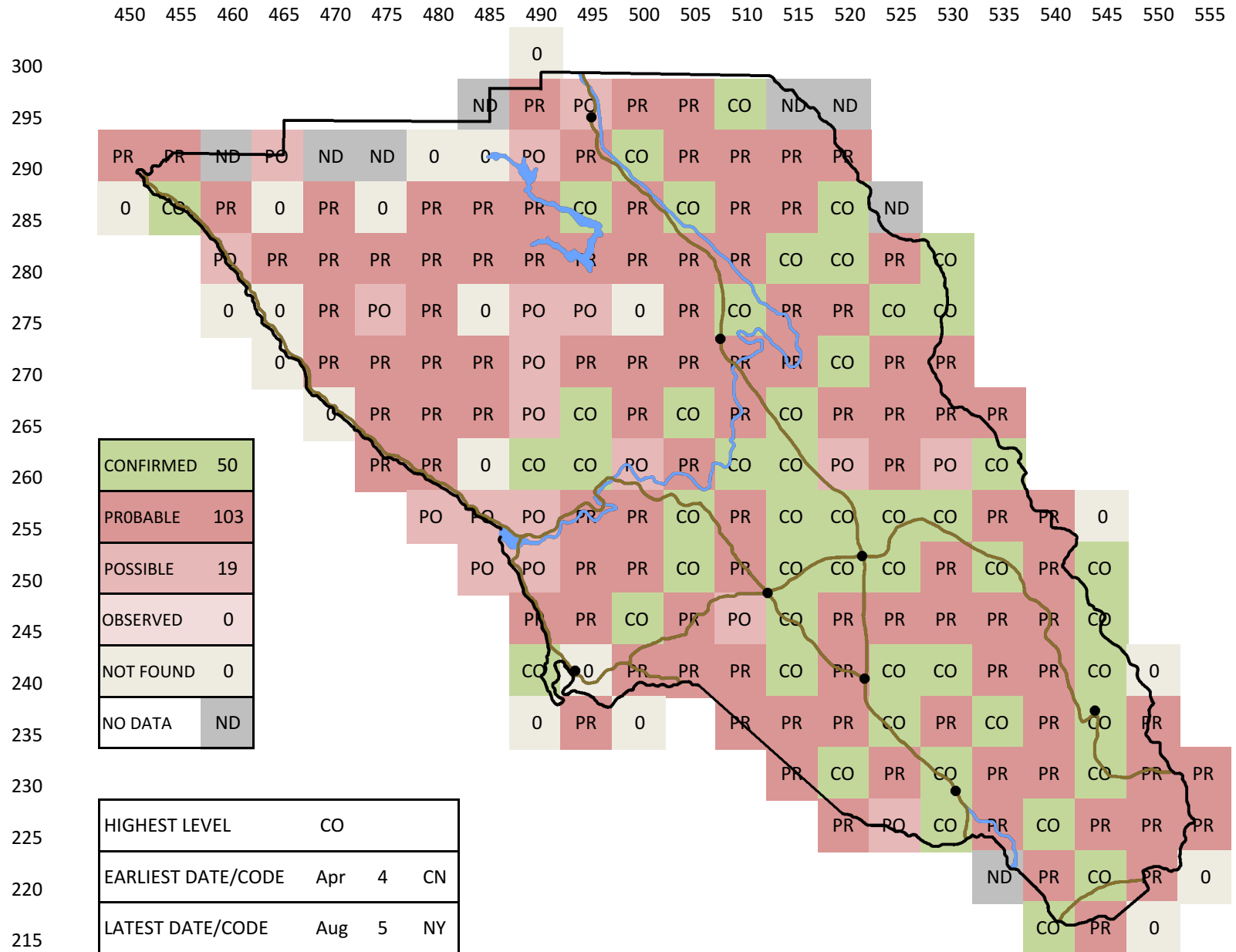
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EURASIAN COLLARED-DOVE



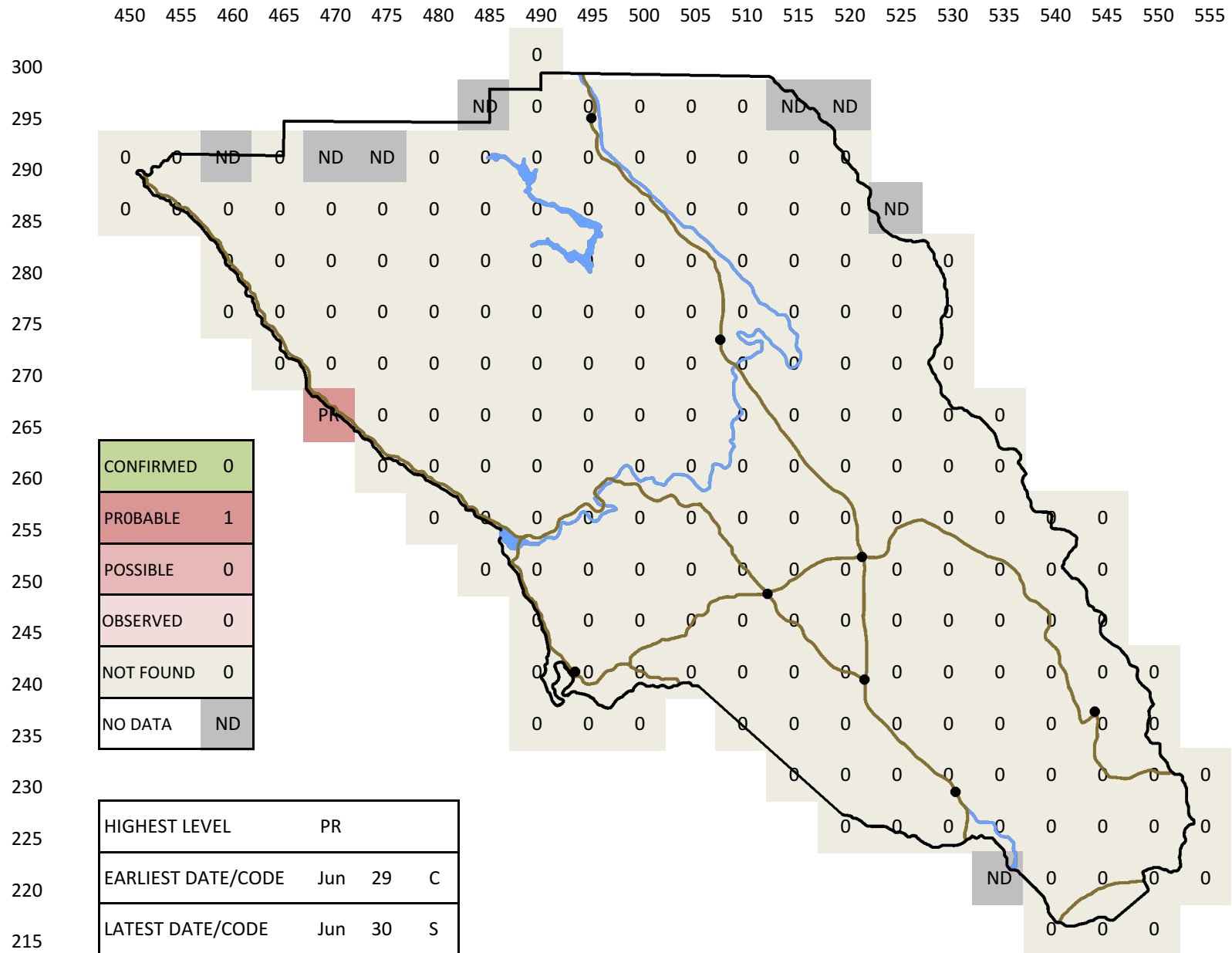
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MOURNING DOVE



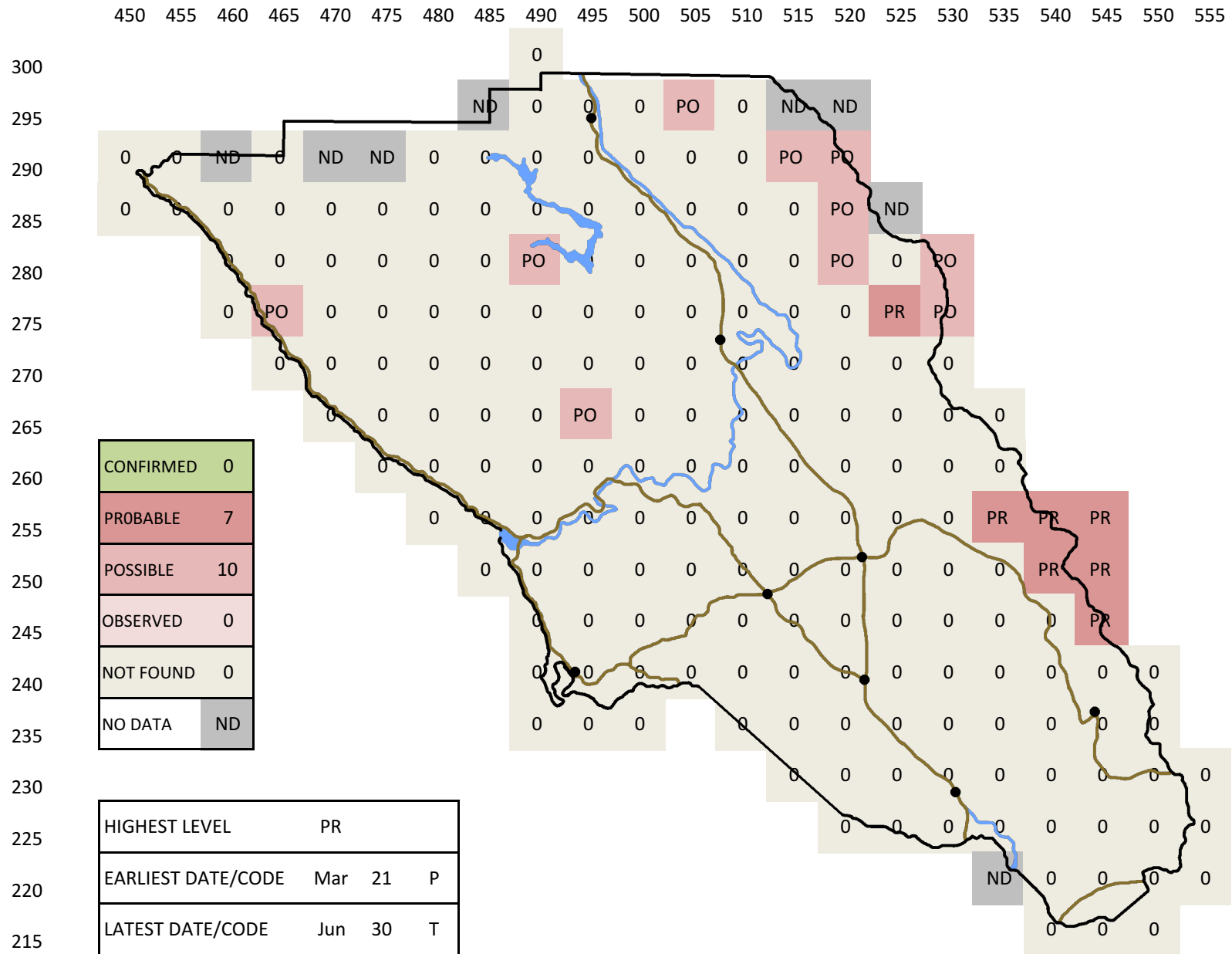
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COMMON NIGHTHAWK



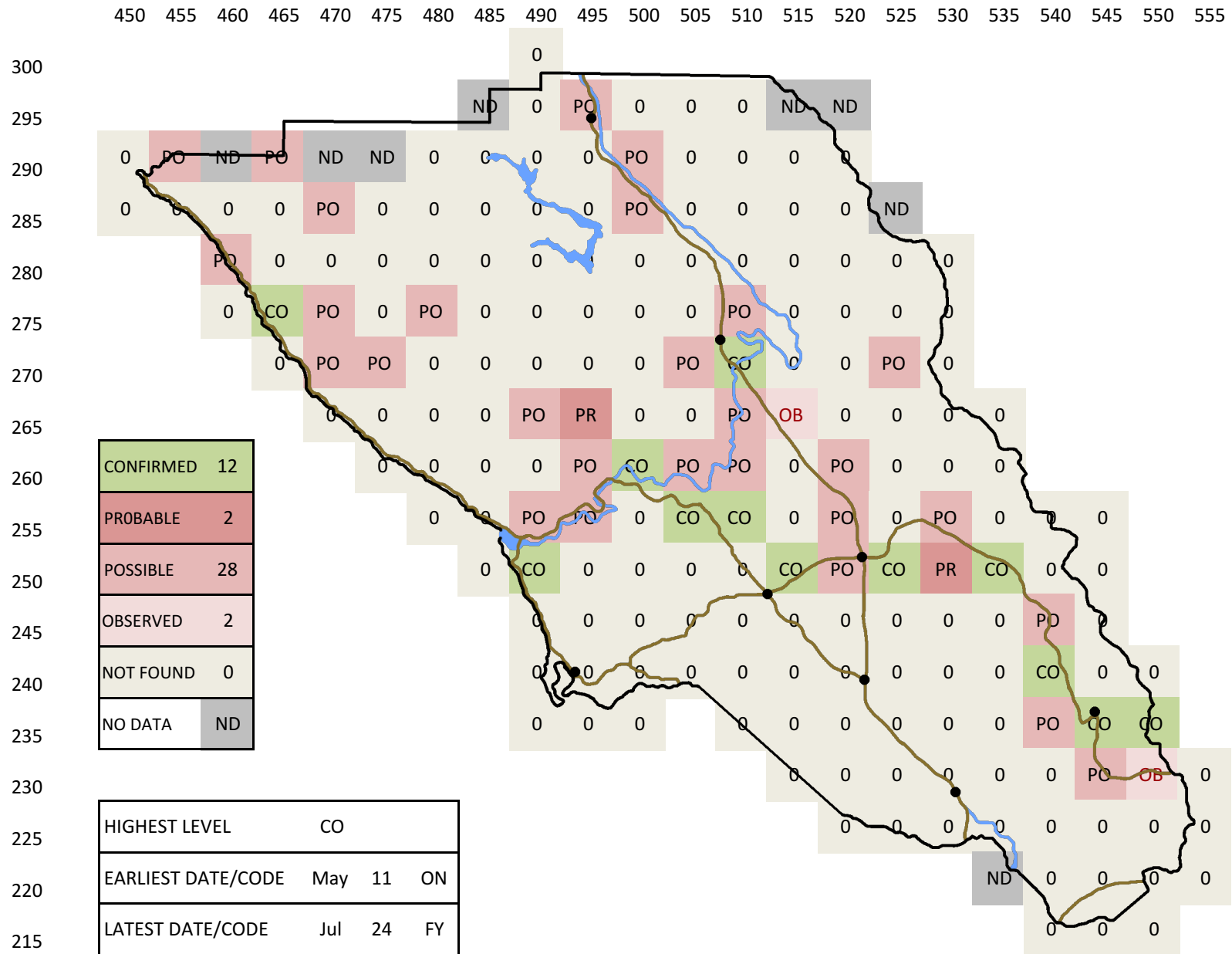
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COMMON POORWILL



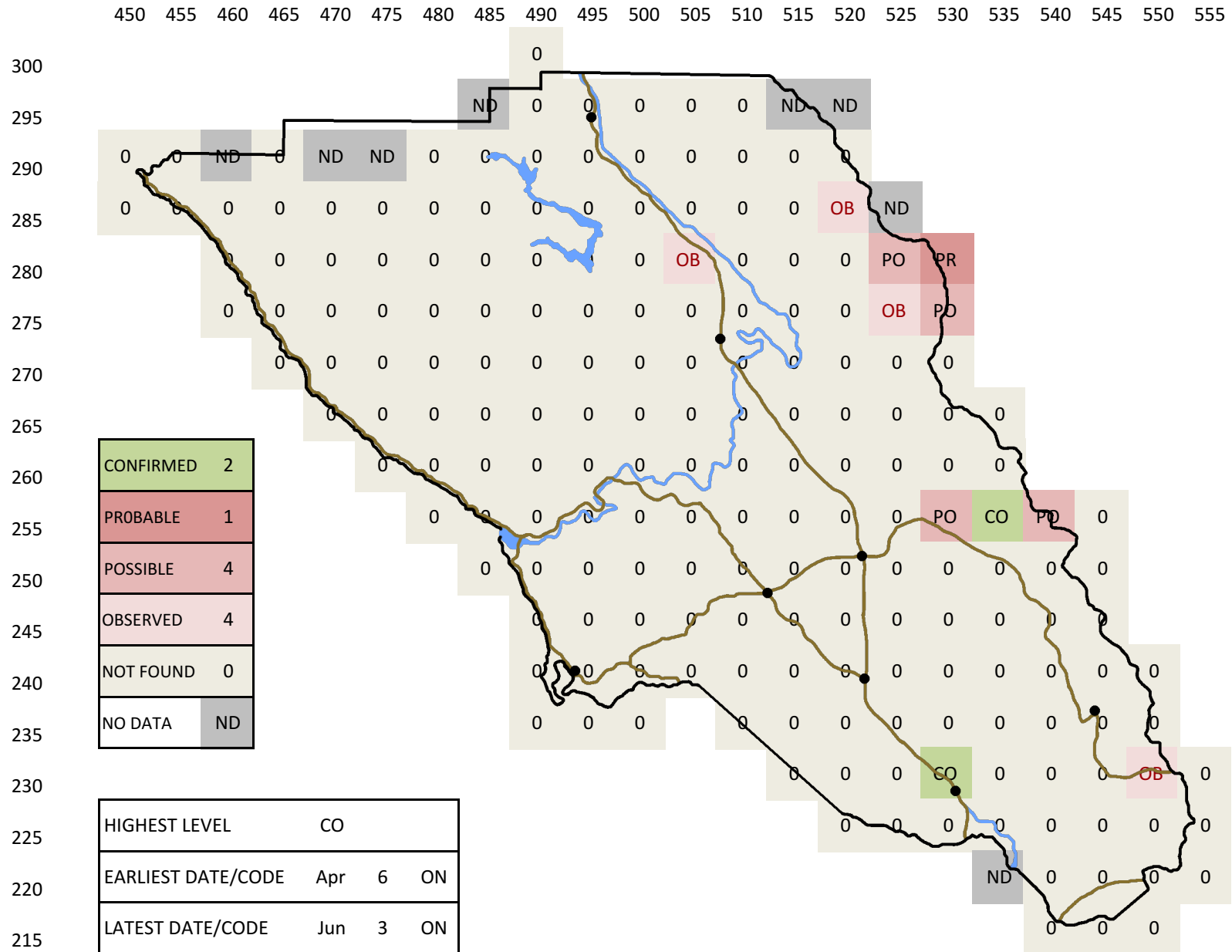
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VAUX'S SWIFT



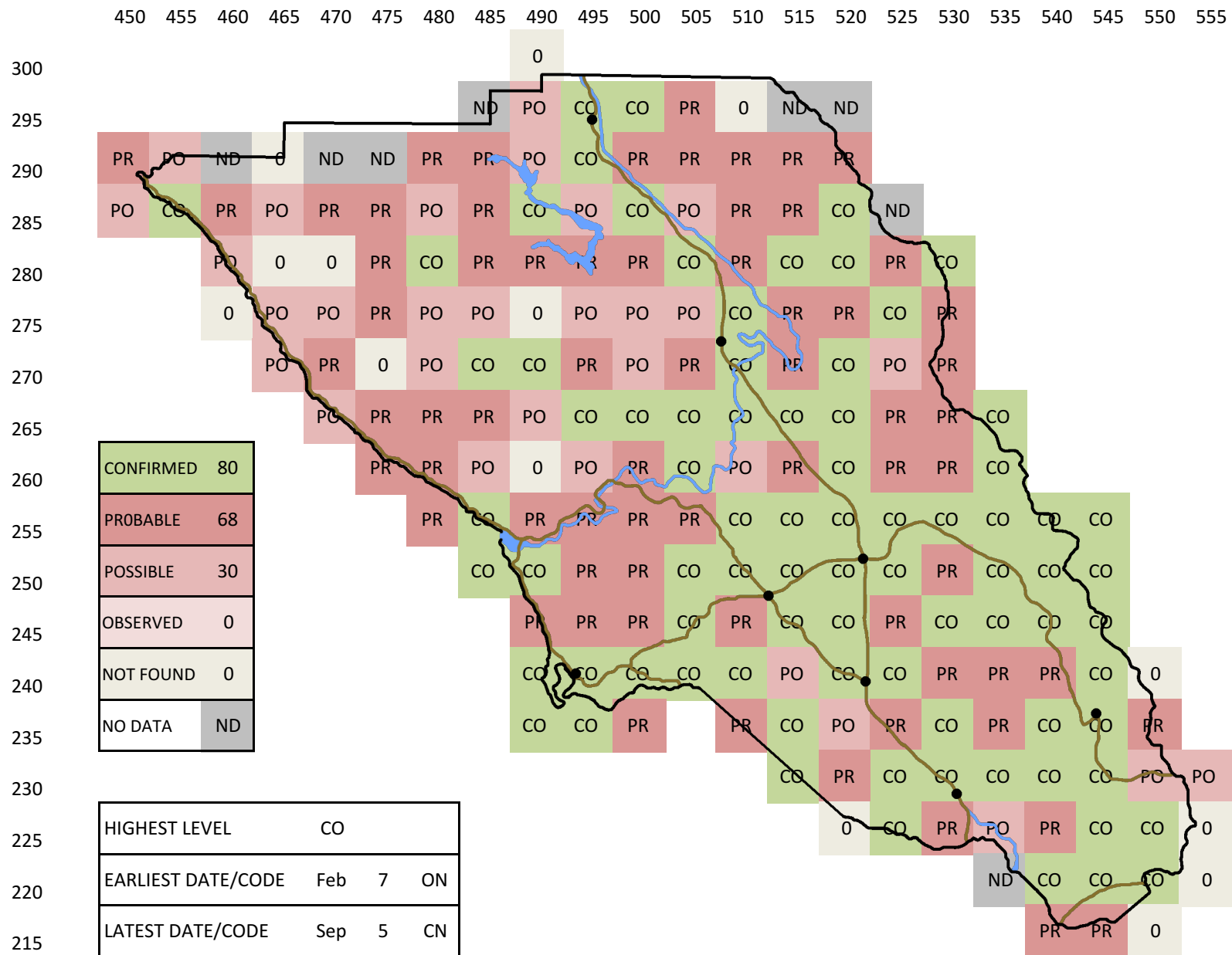
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WHITE-THROATED SWIFT



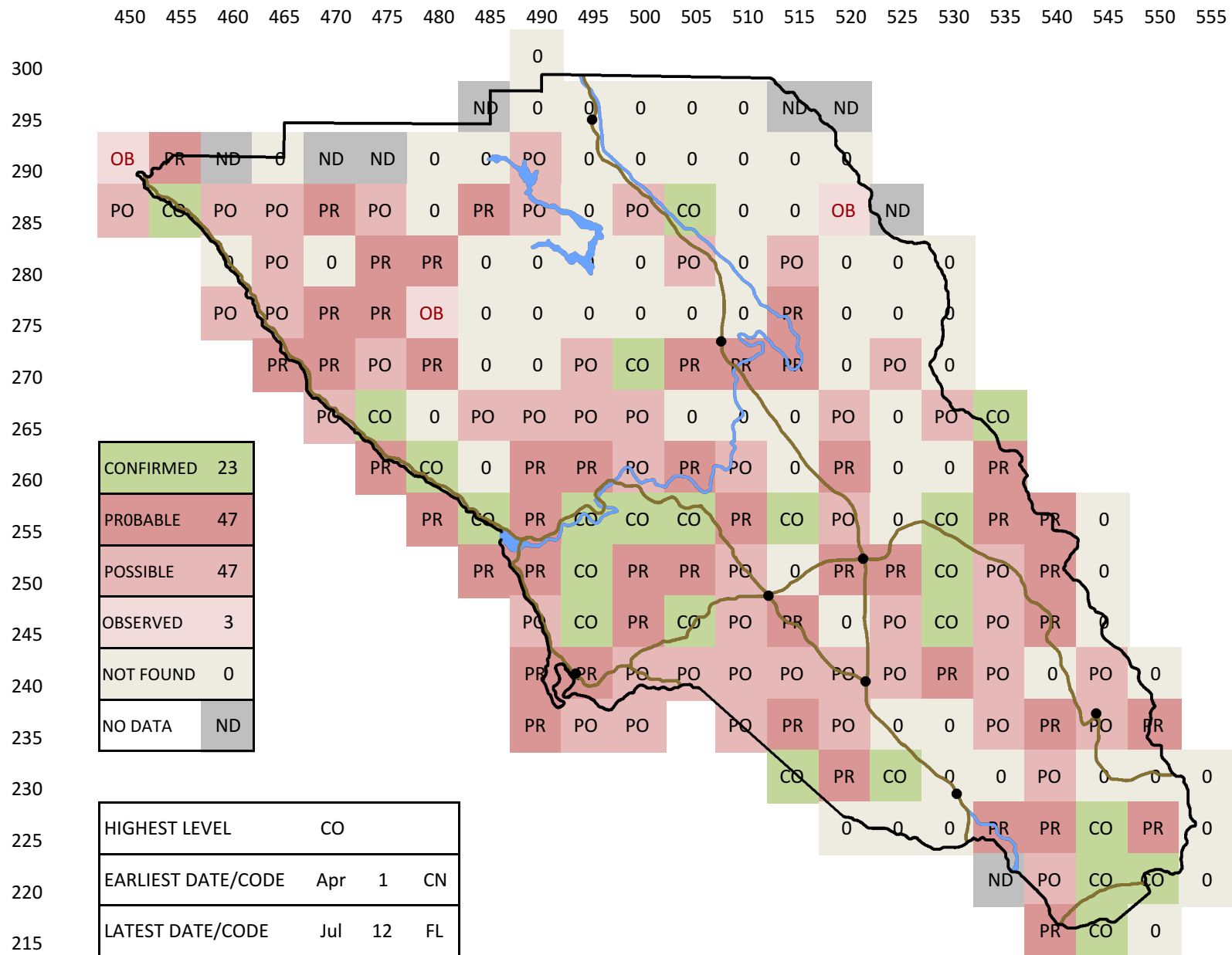
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ANNA'S HUMMINGBIRD



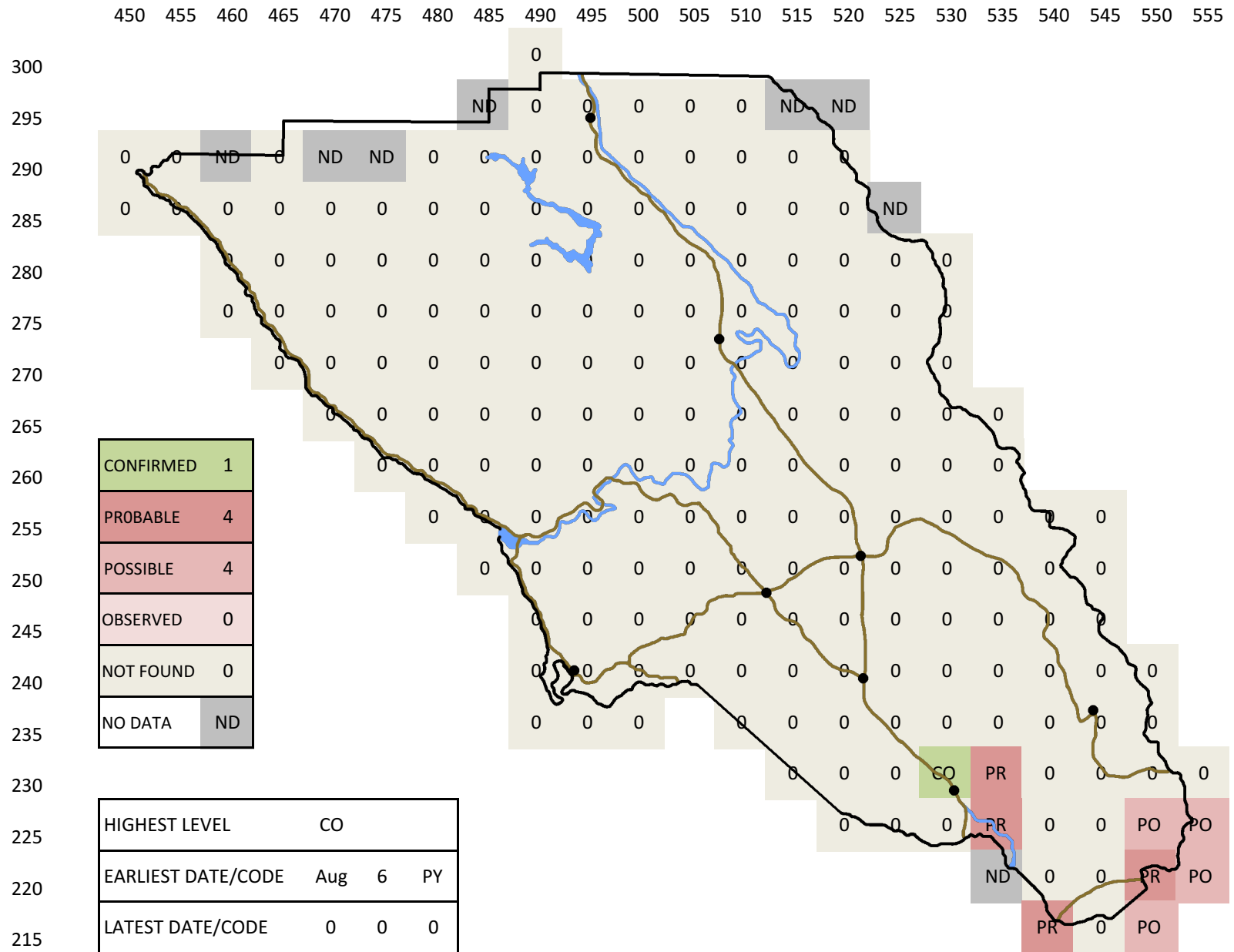
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ALLEN'S HUMMINGBIRD



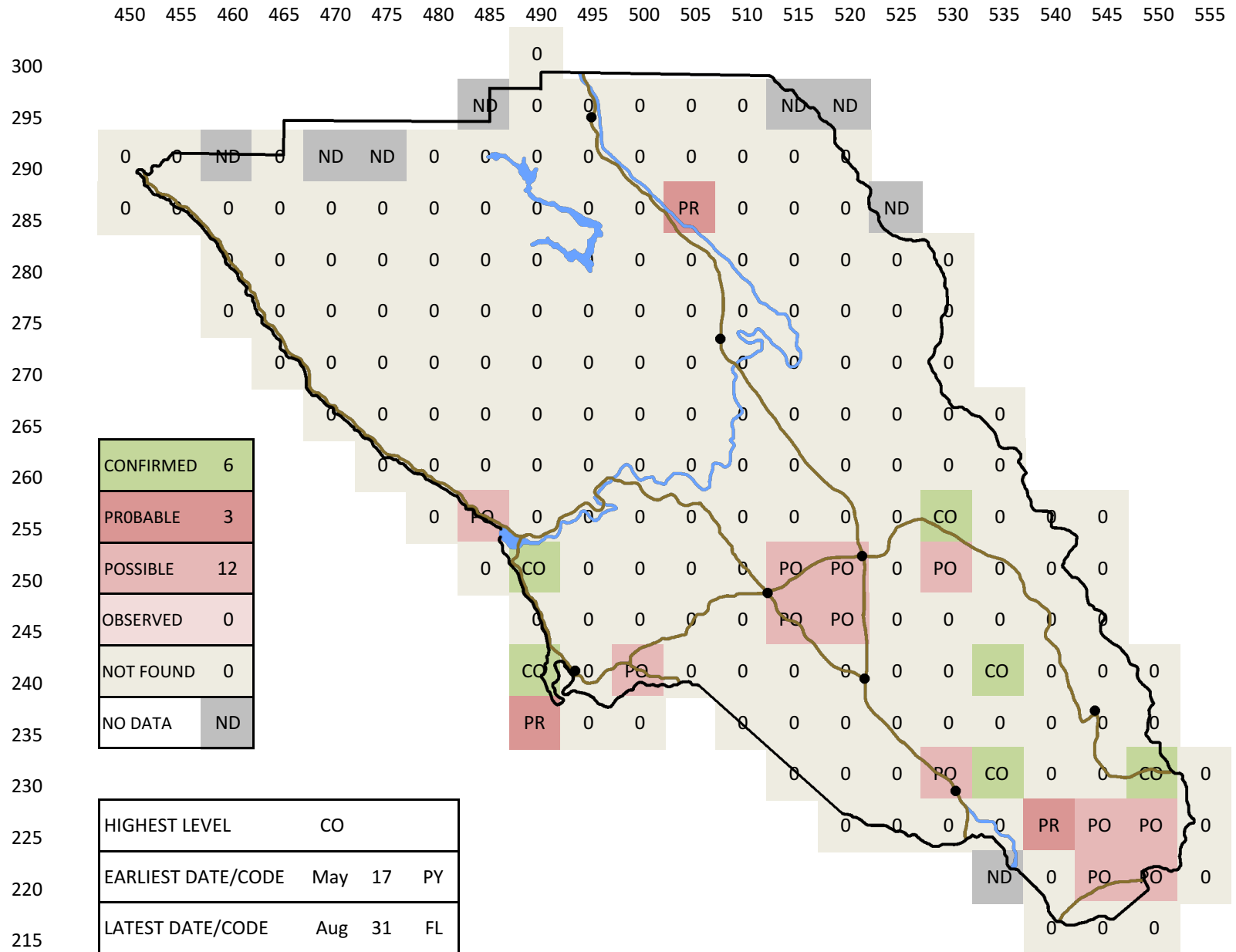
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BLACK RAIL



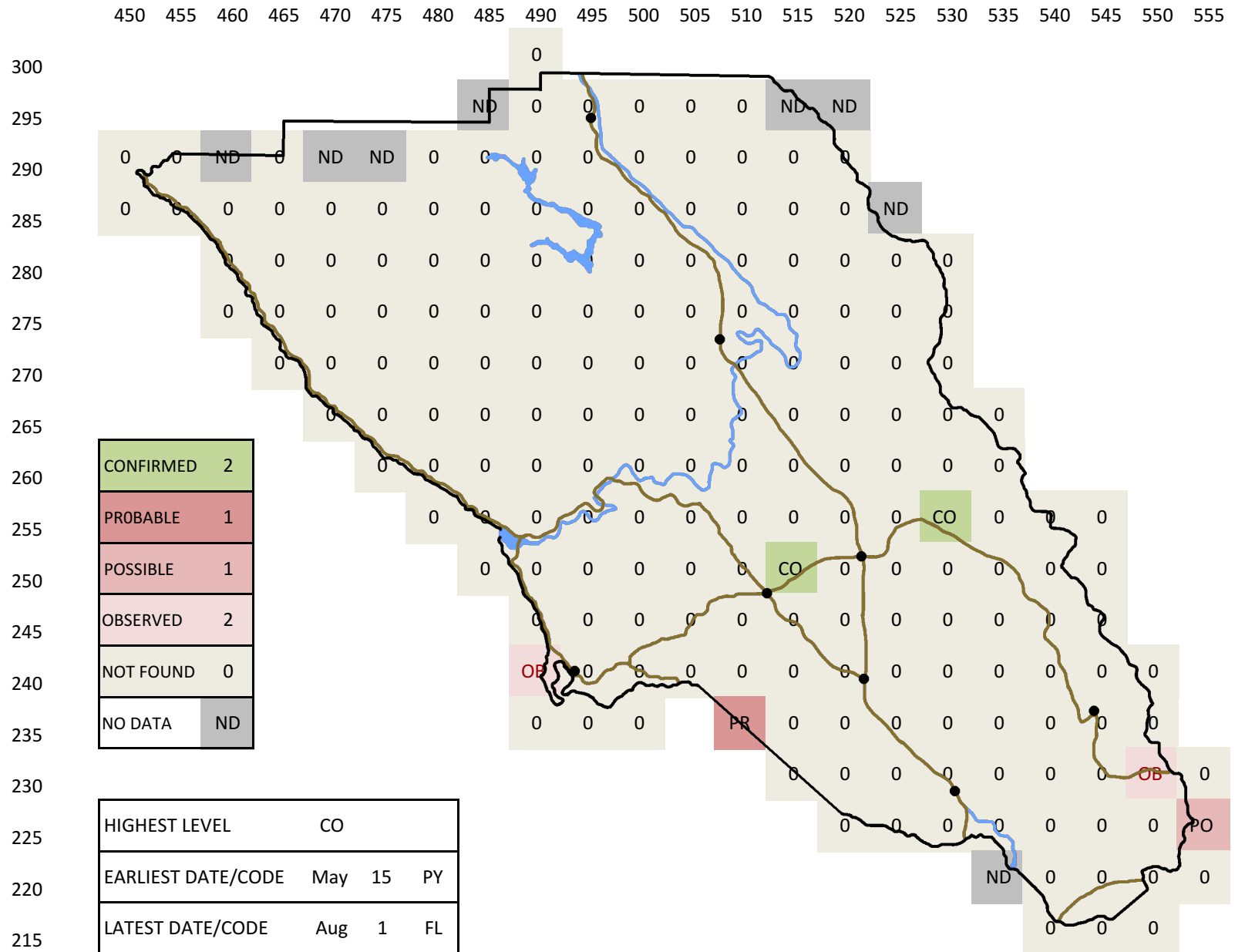
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VIRGINIA RAIL



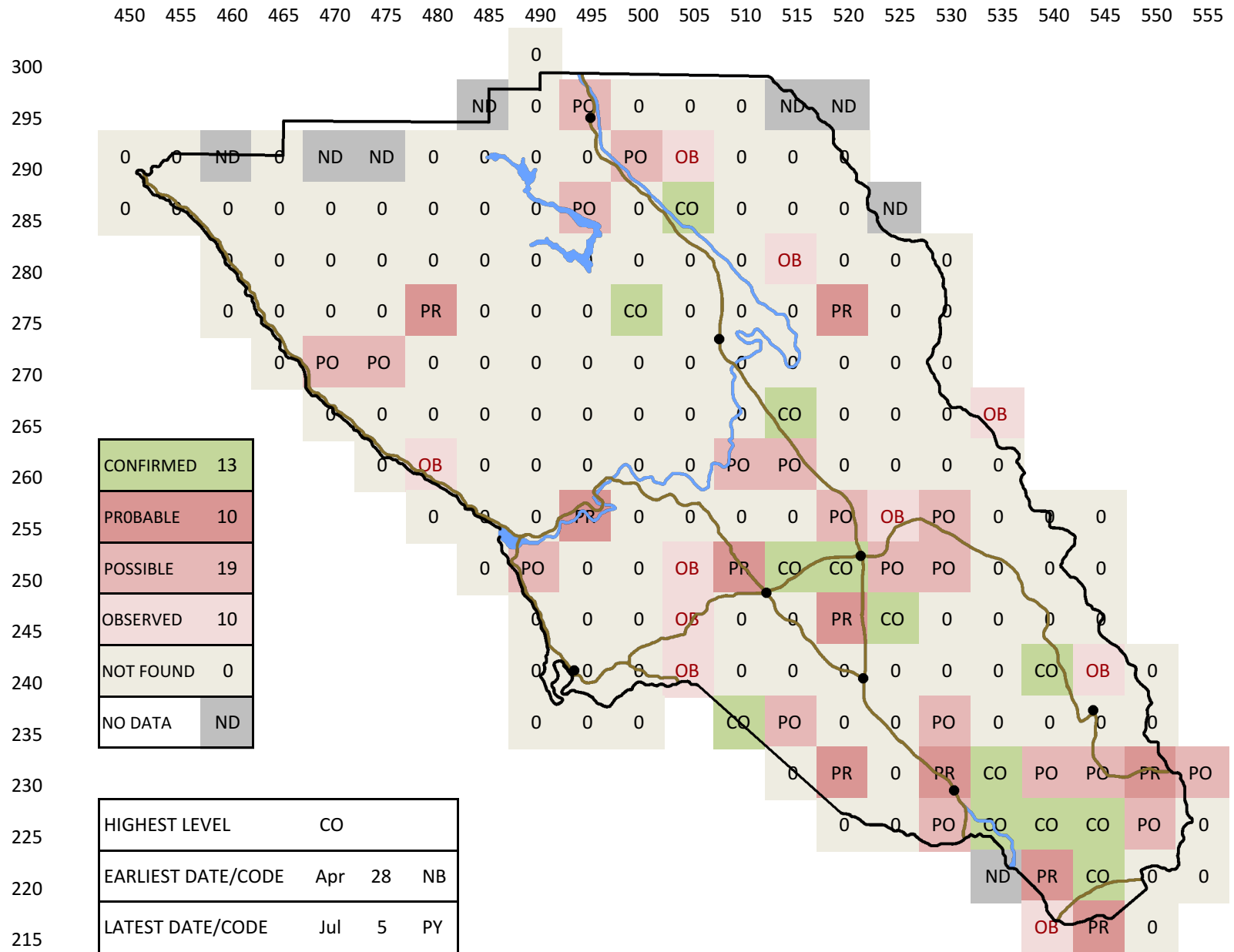
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SORA

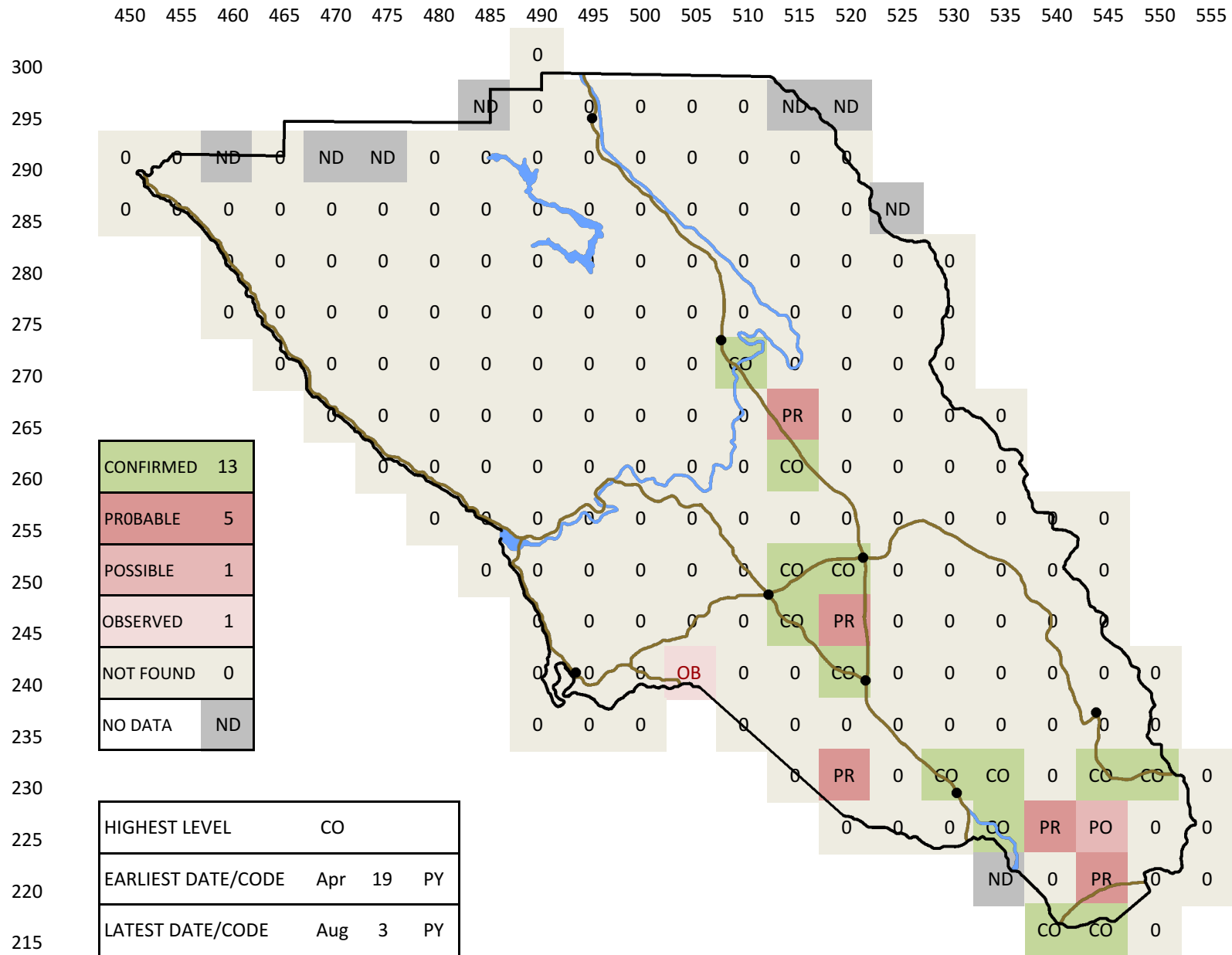


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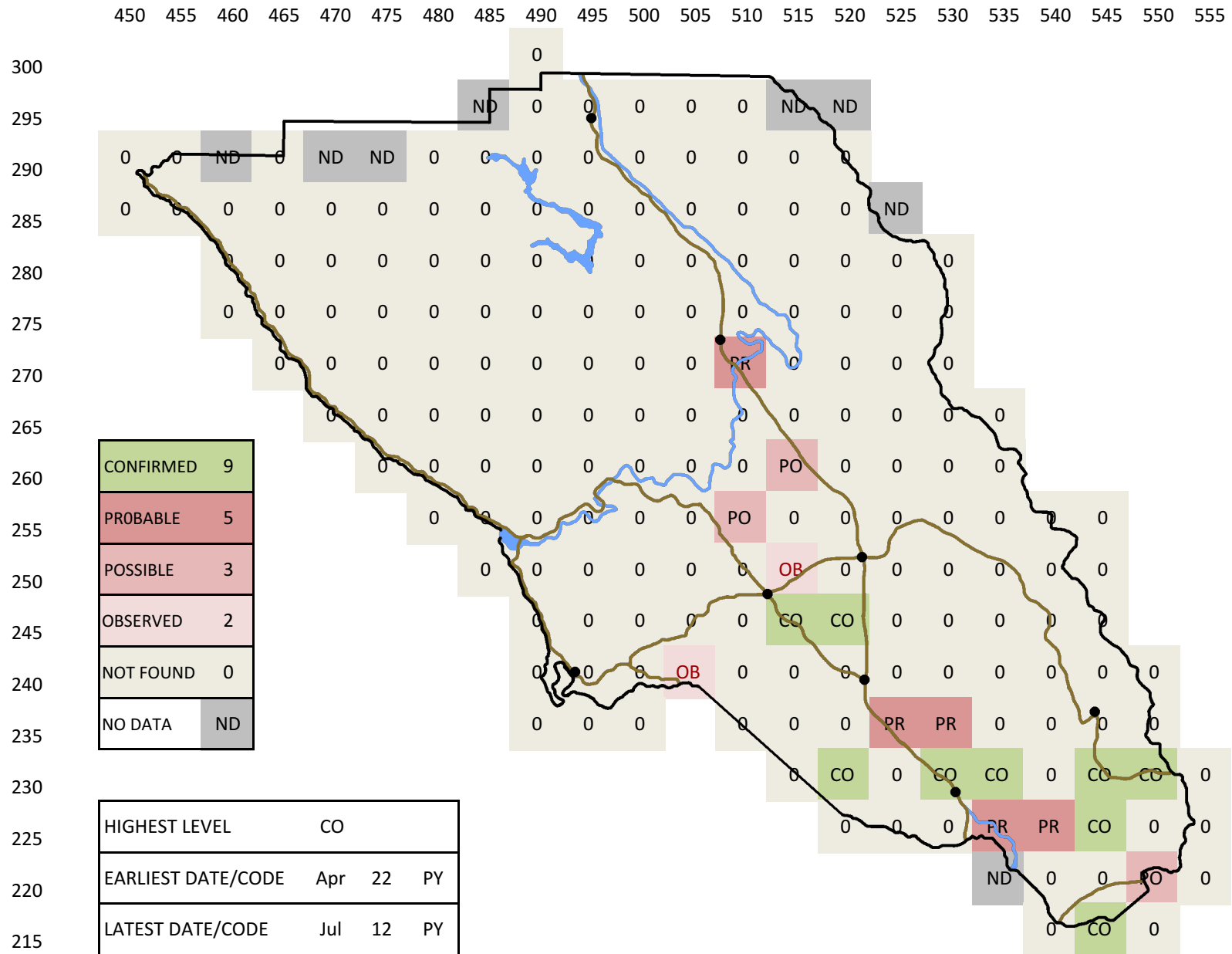
AMERICAN COOT



BLACK-NECKED STILT

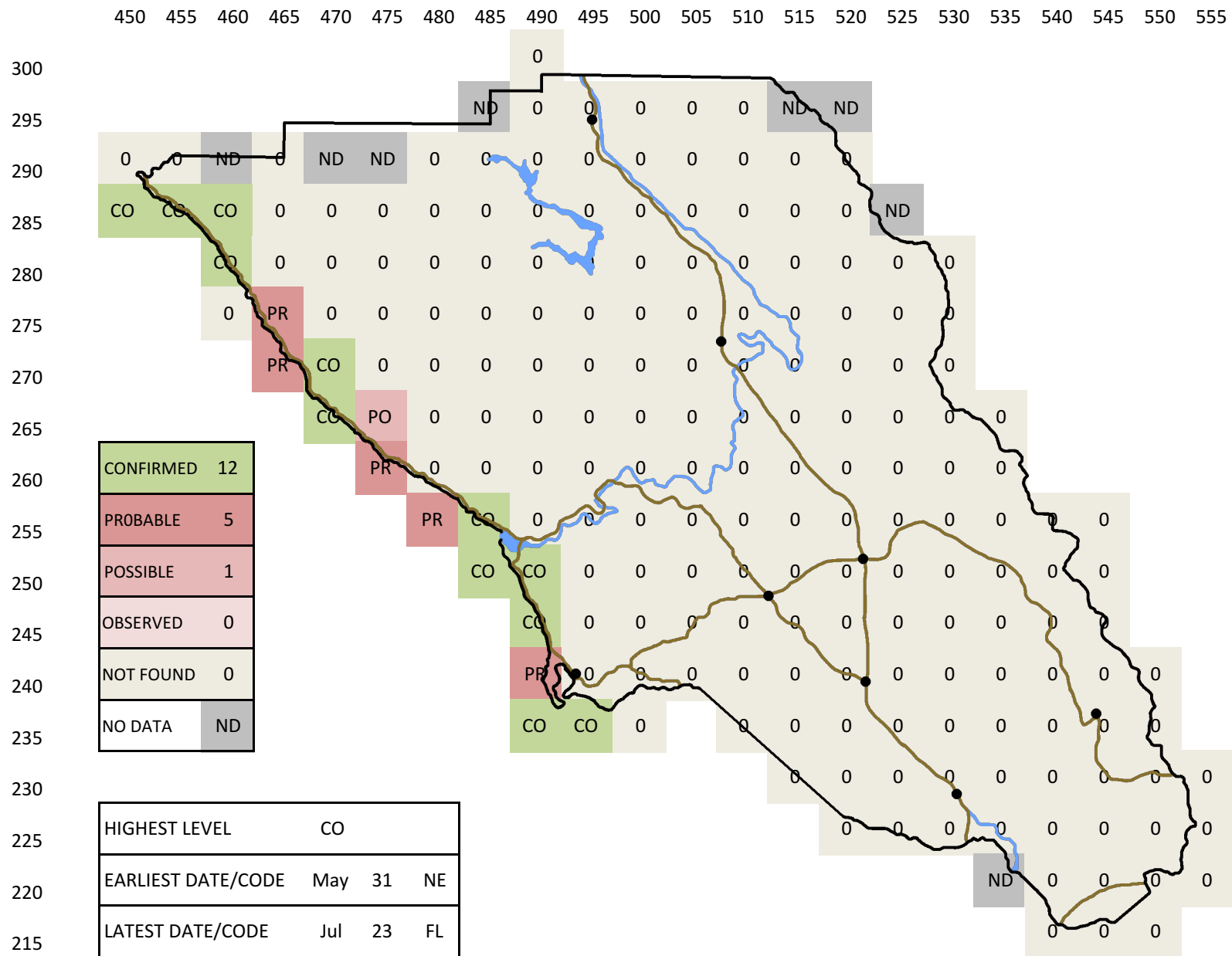


AMERICAN AVOCET



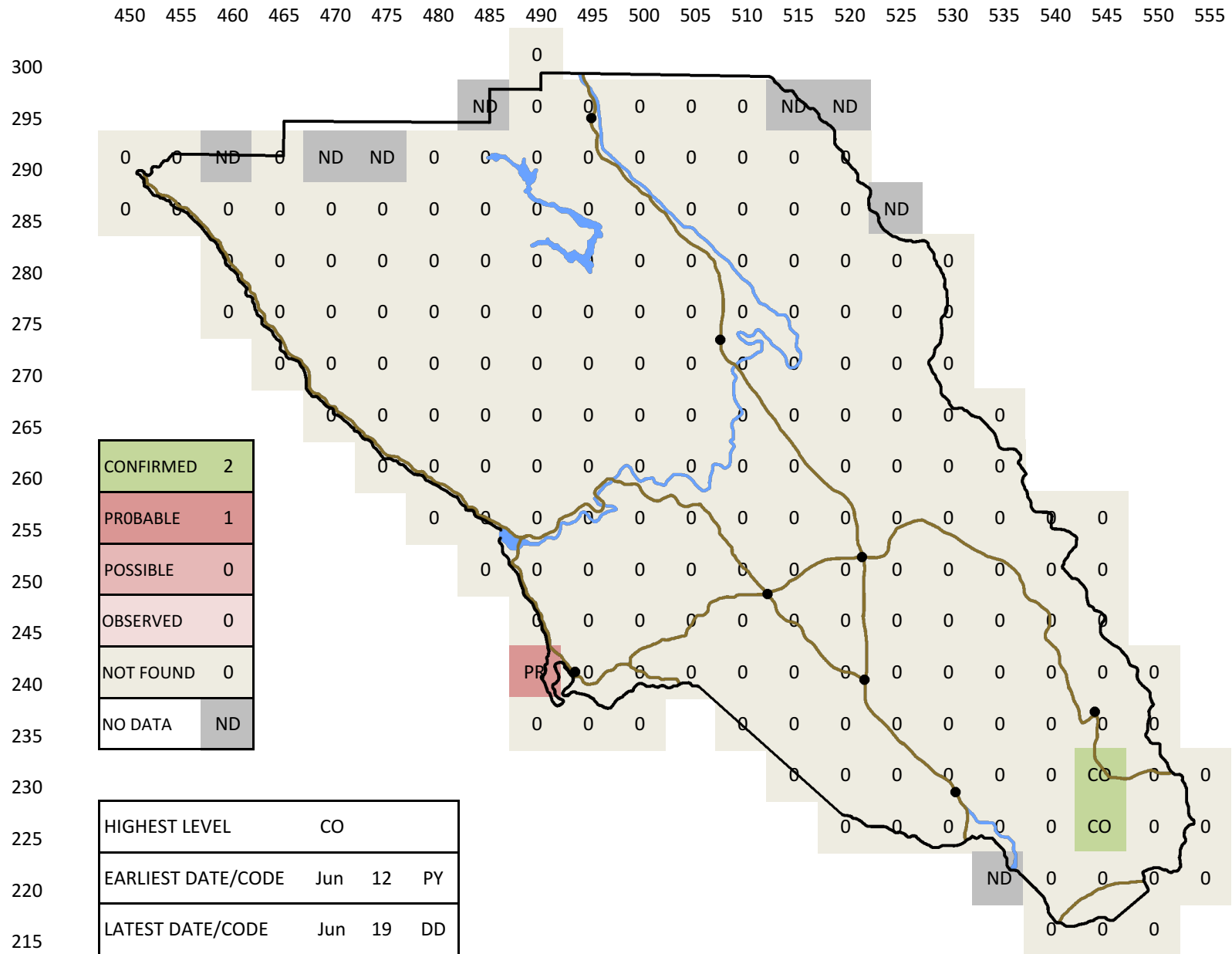
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BLACK OYSTERCATCHER



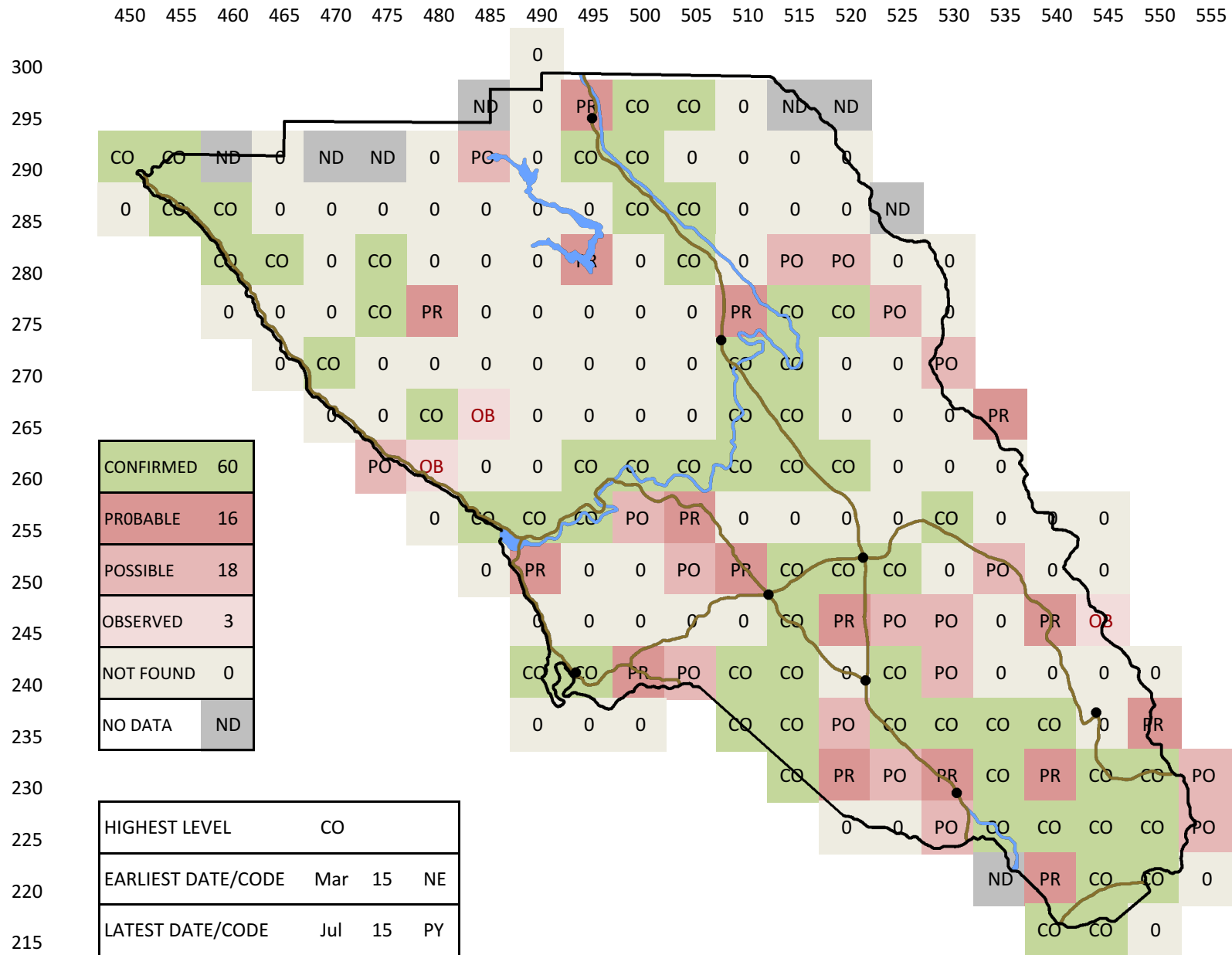
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SNOWY PLOVER



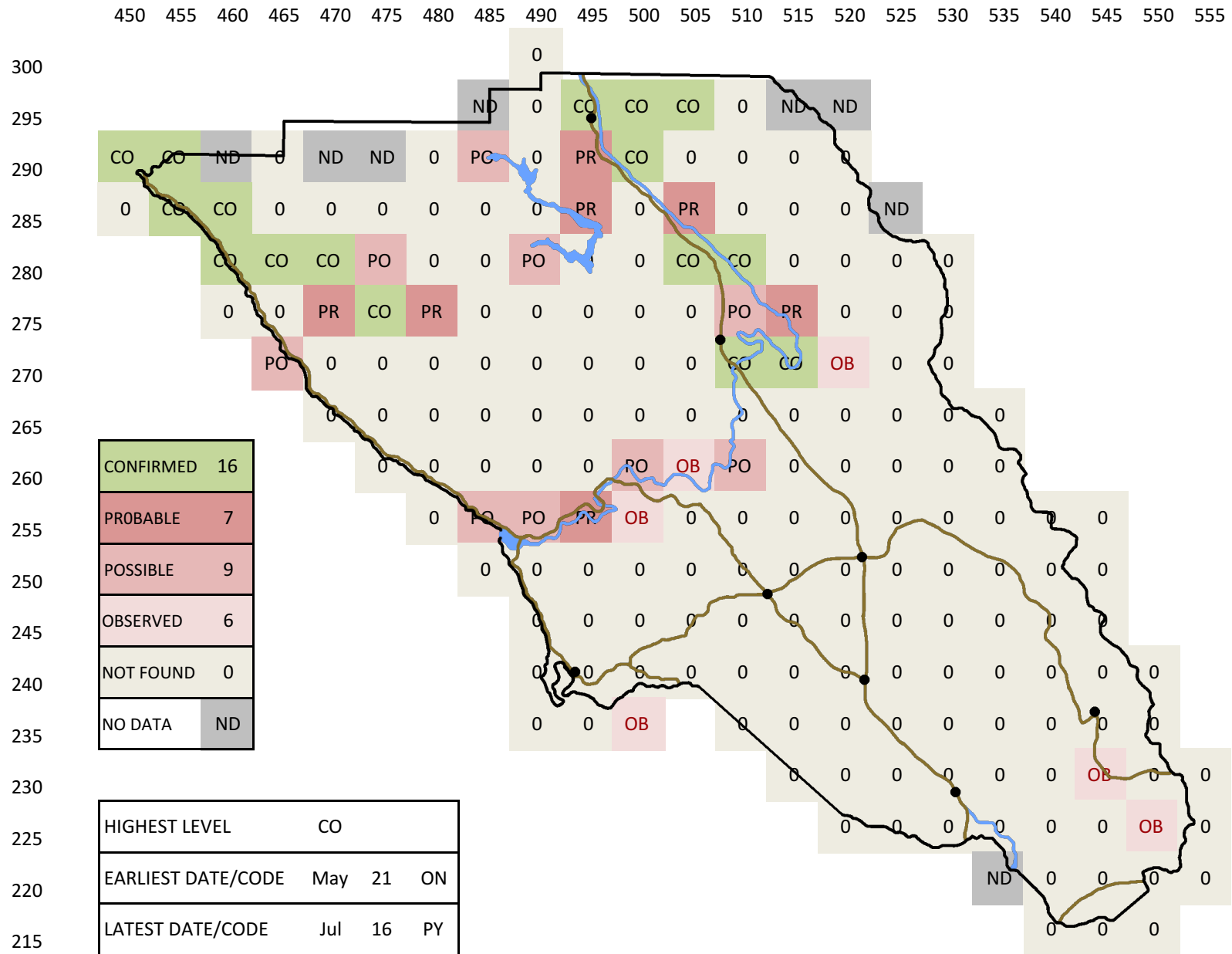
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KILLDEER



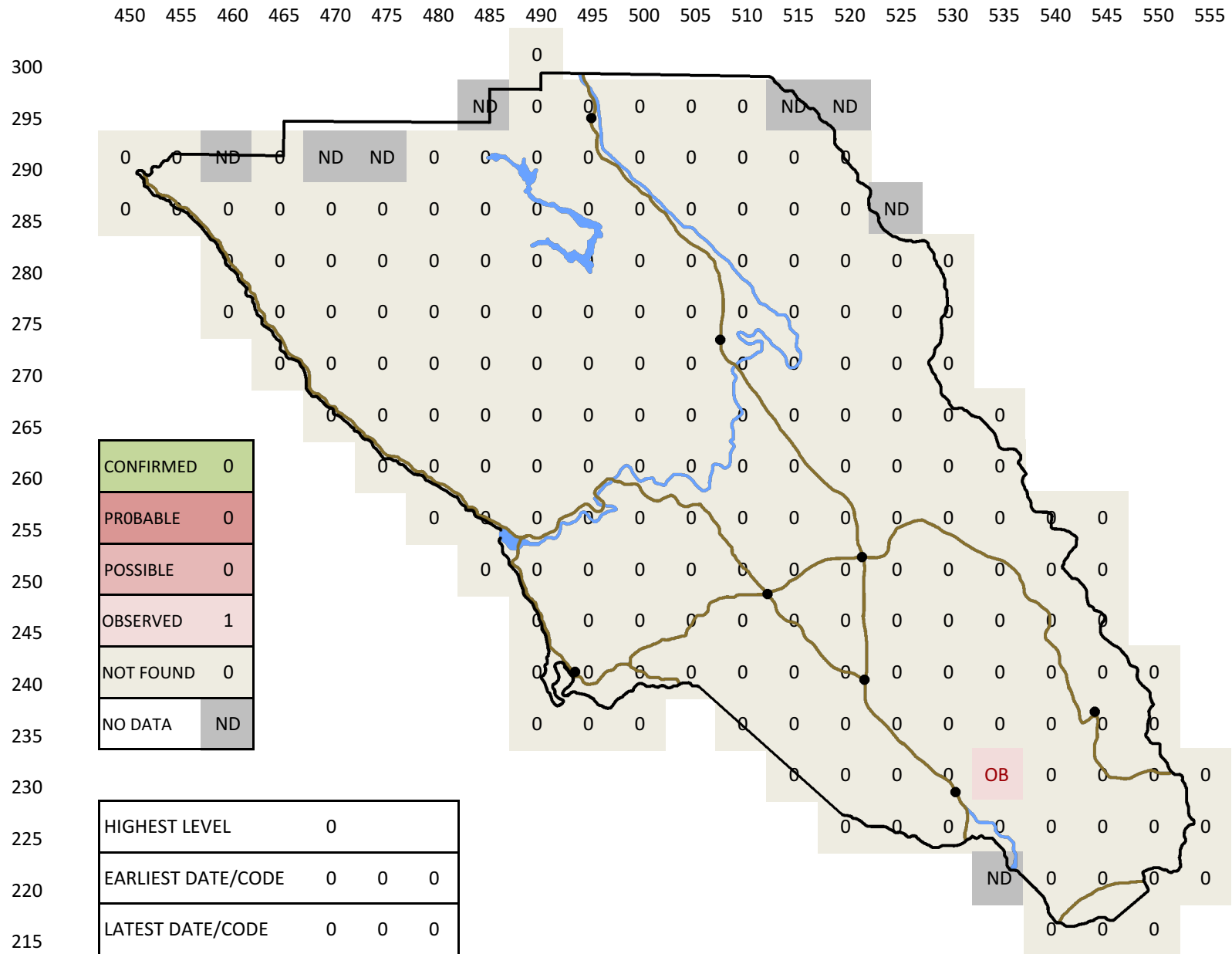
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SPOTTED SANDPIPER



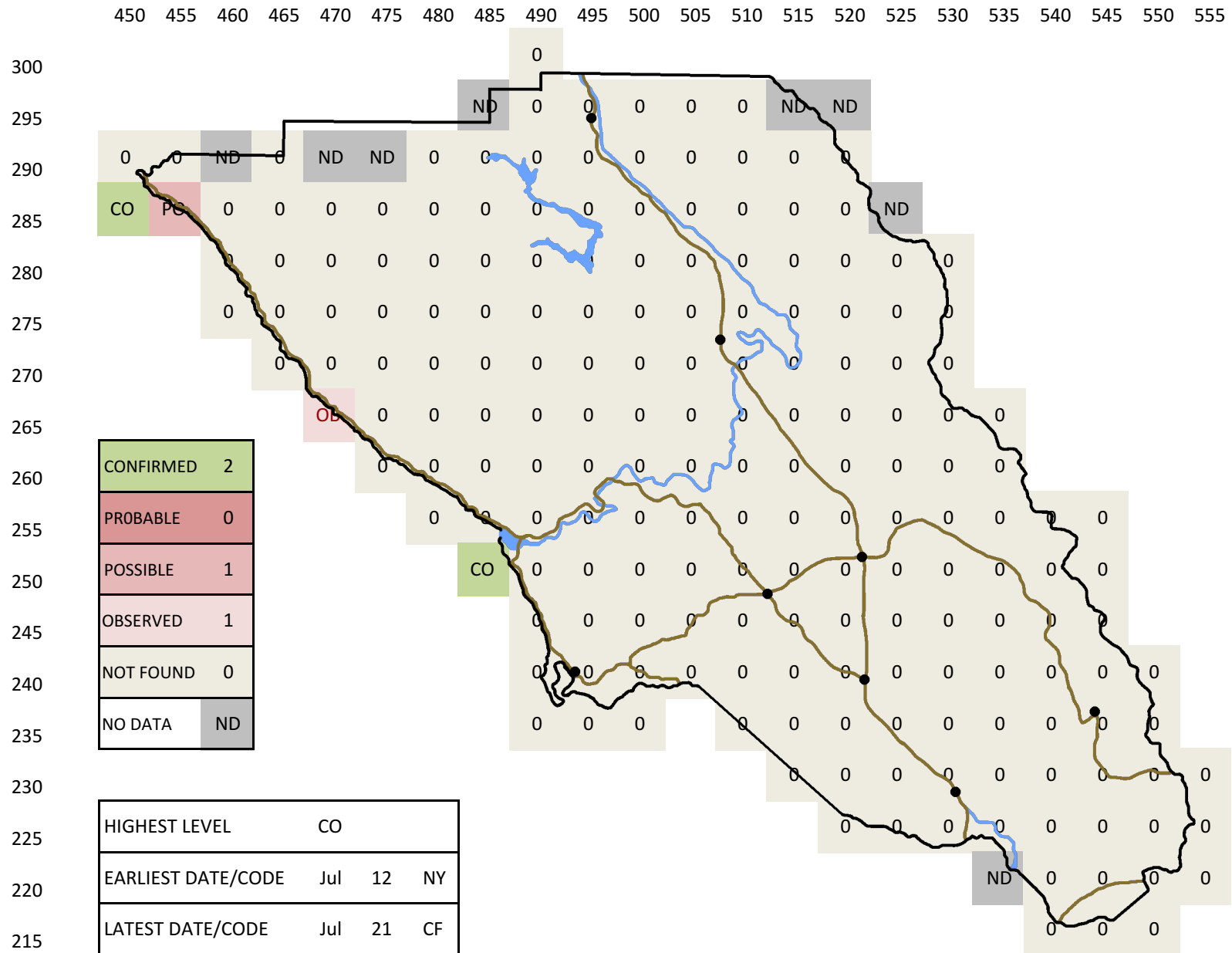
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WILSON'S PHALAROPE



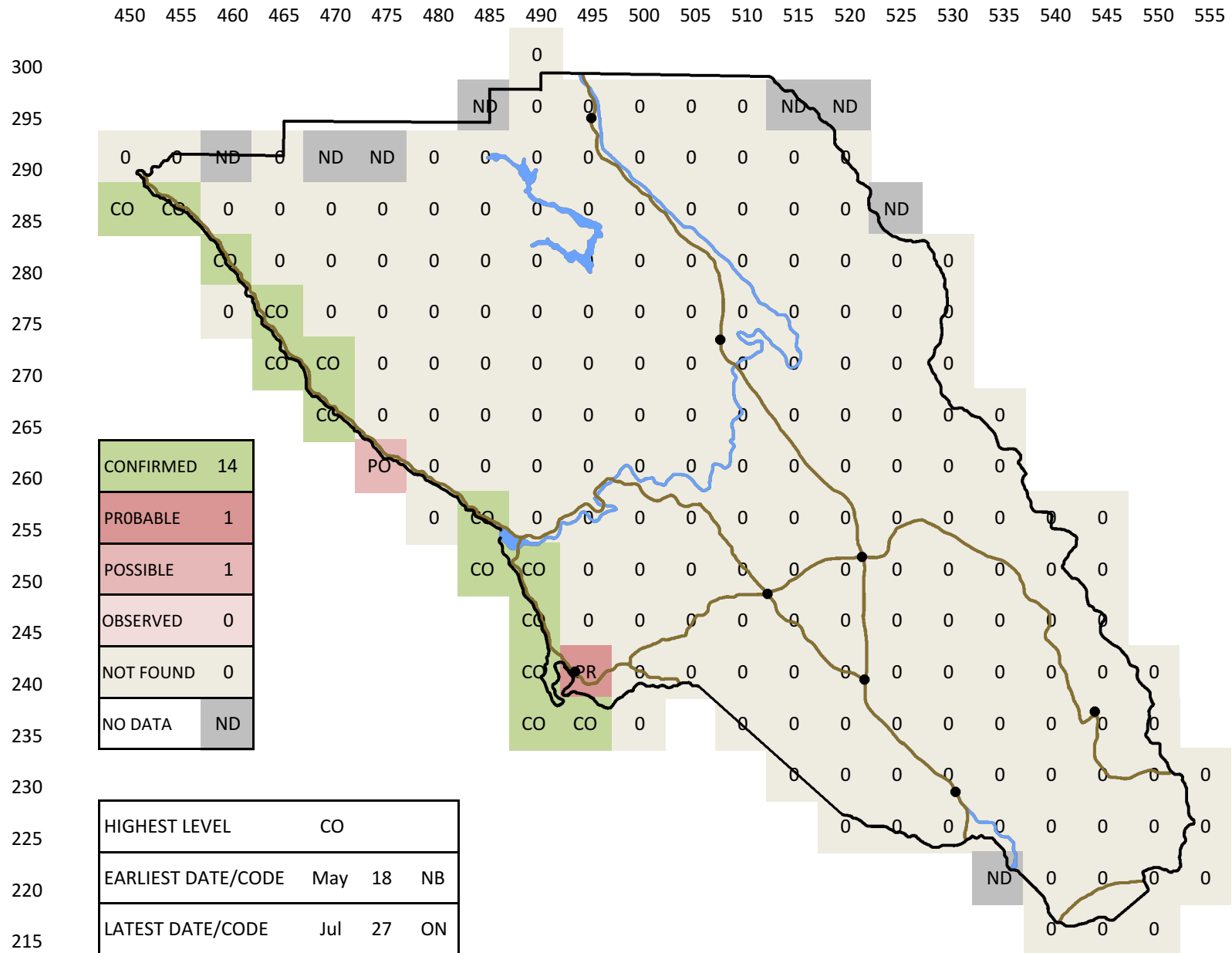
Atlas #2: 2011-2016

COMMON MURRE



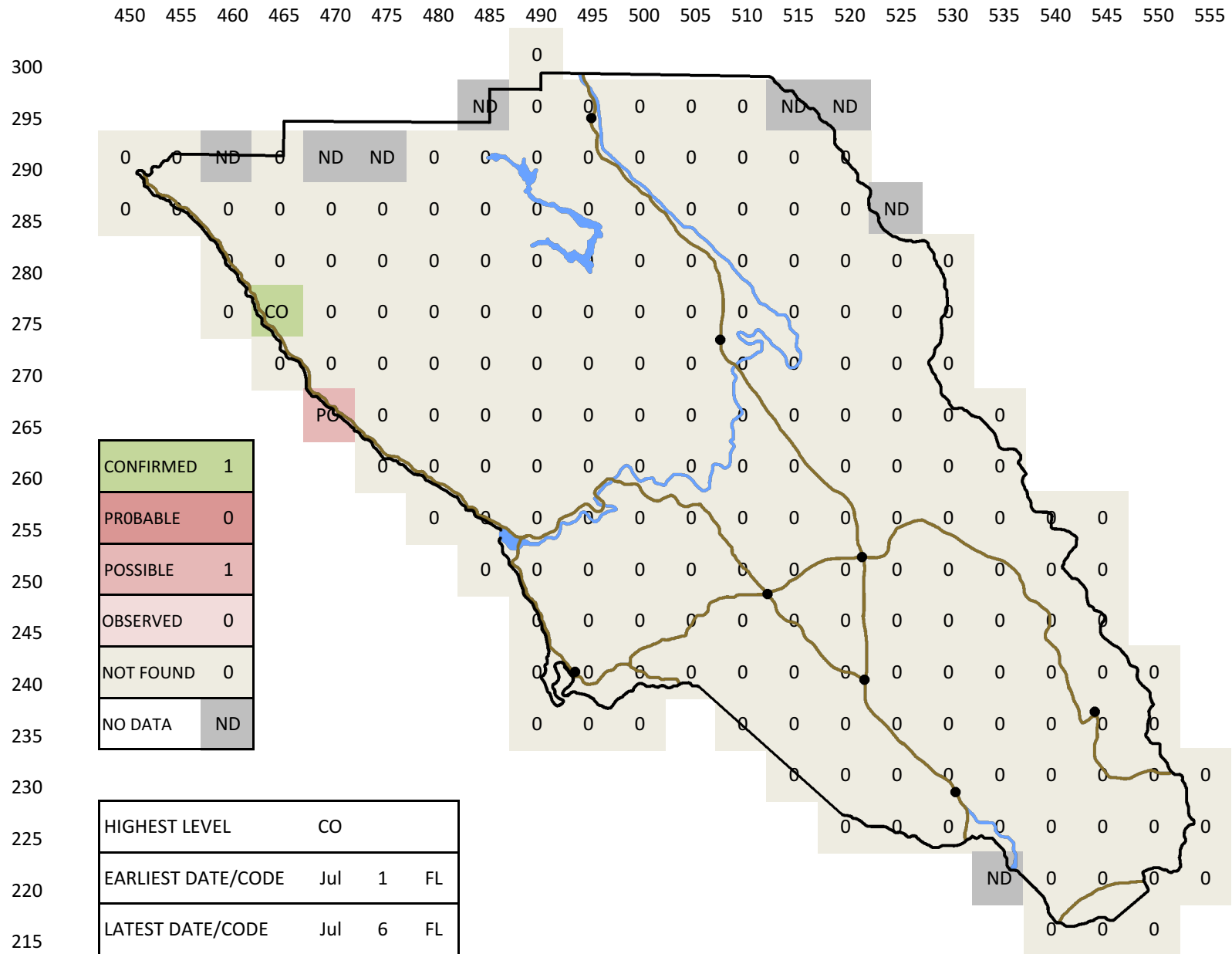
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PIGEON GUILLEMOT



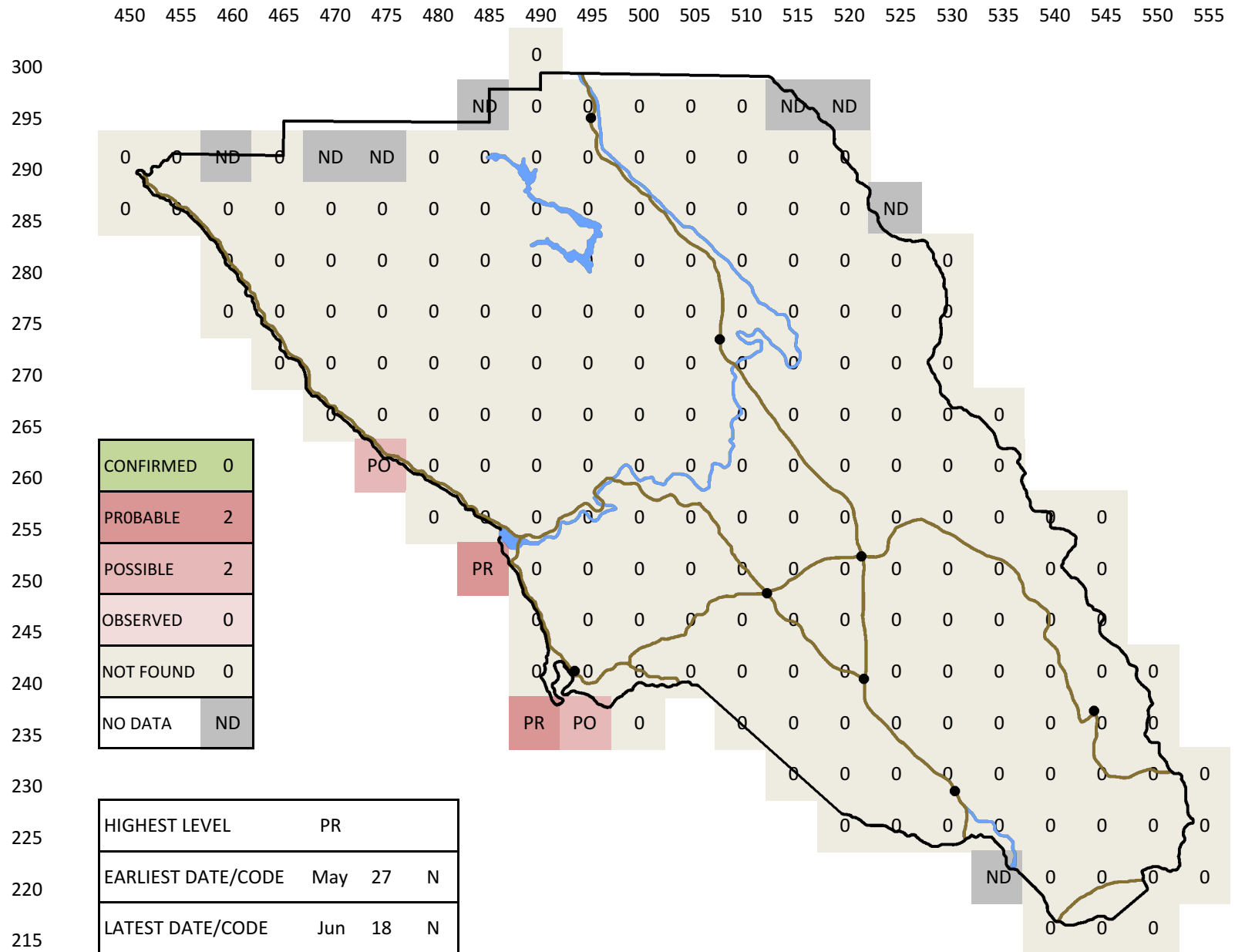
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MARBLED MURRELET



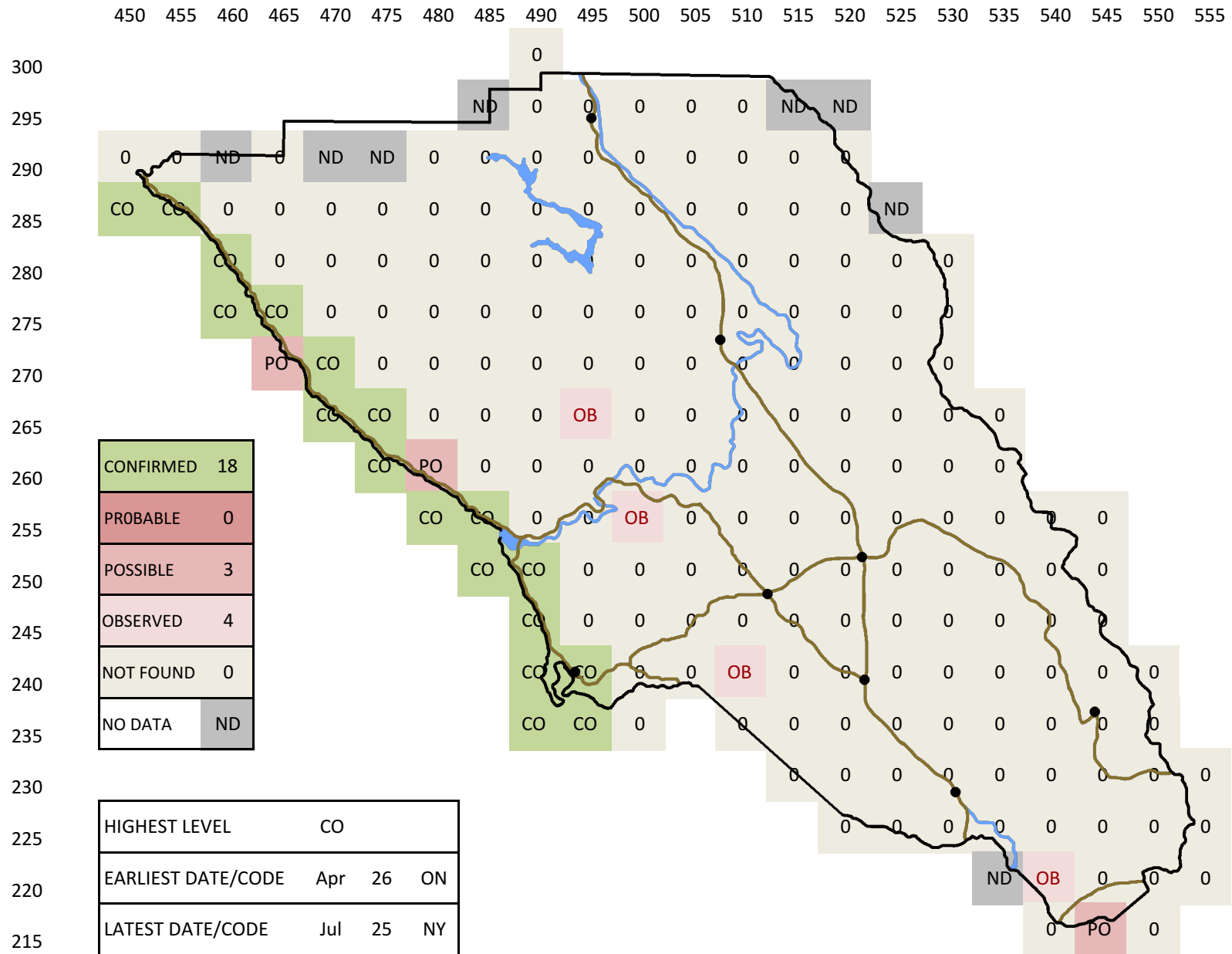
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RHINOCEROS AUKLET



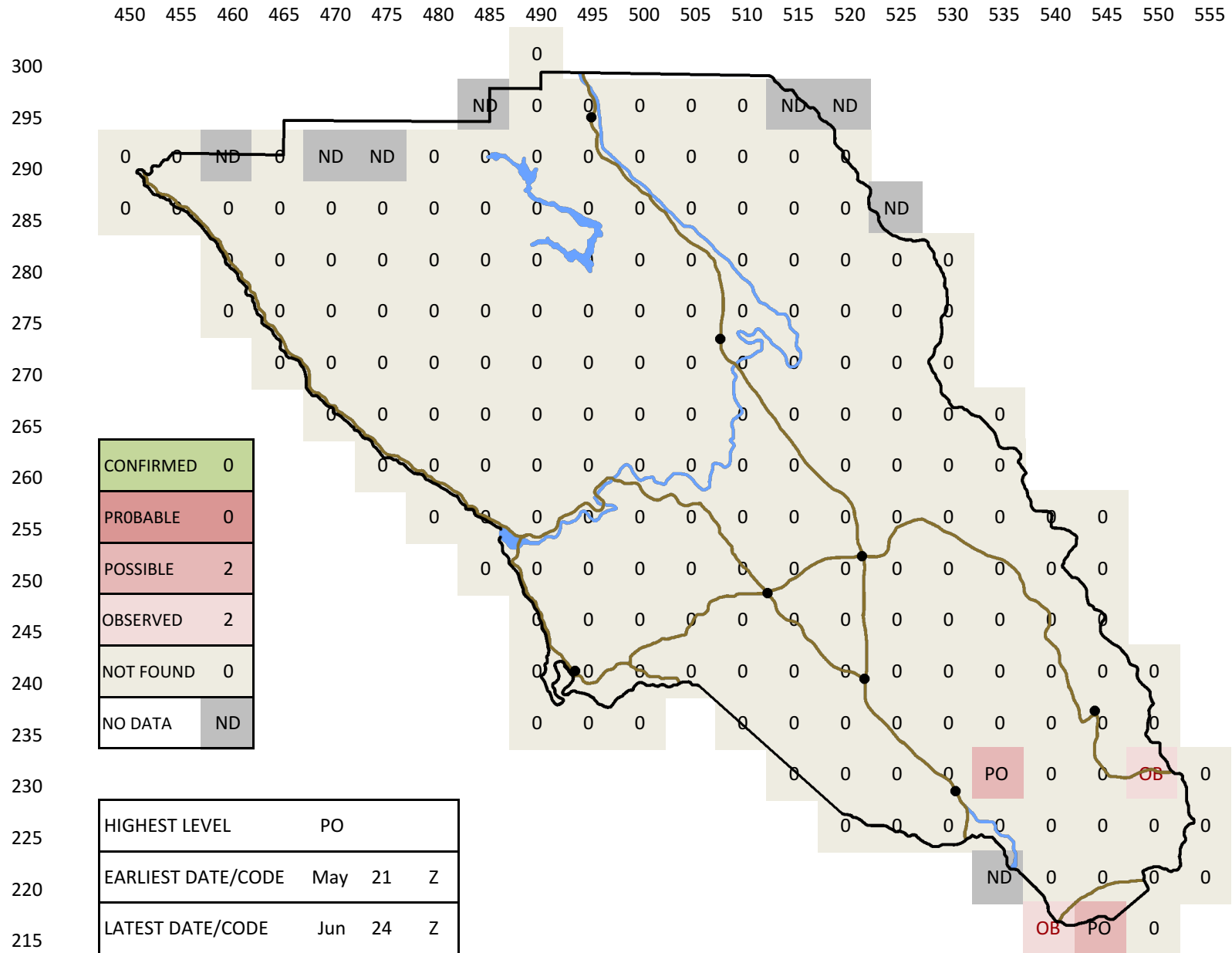
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WESTERN GULL



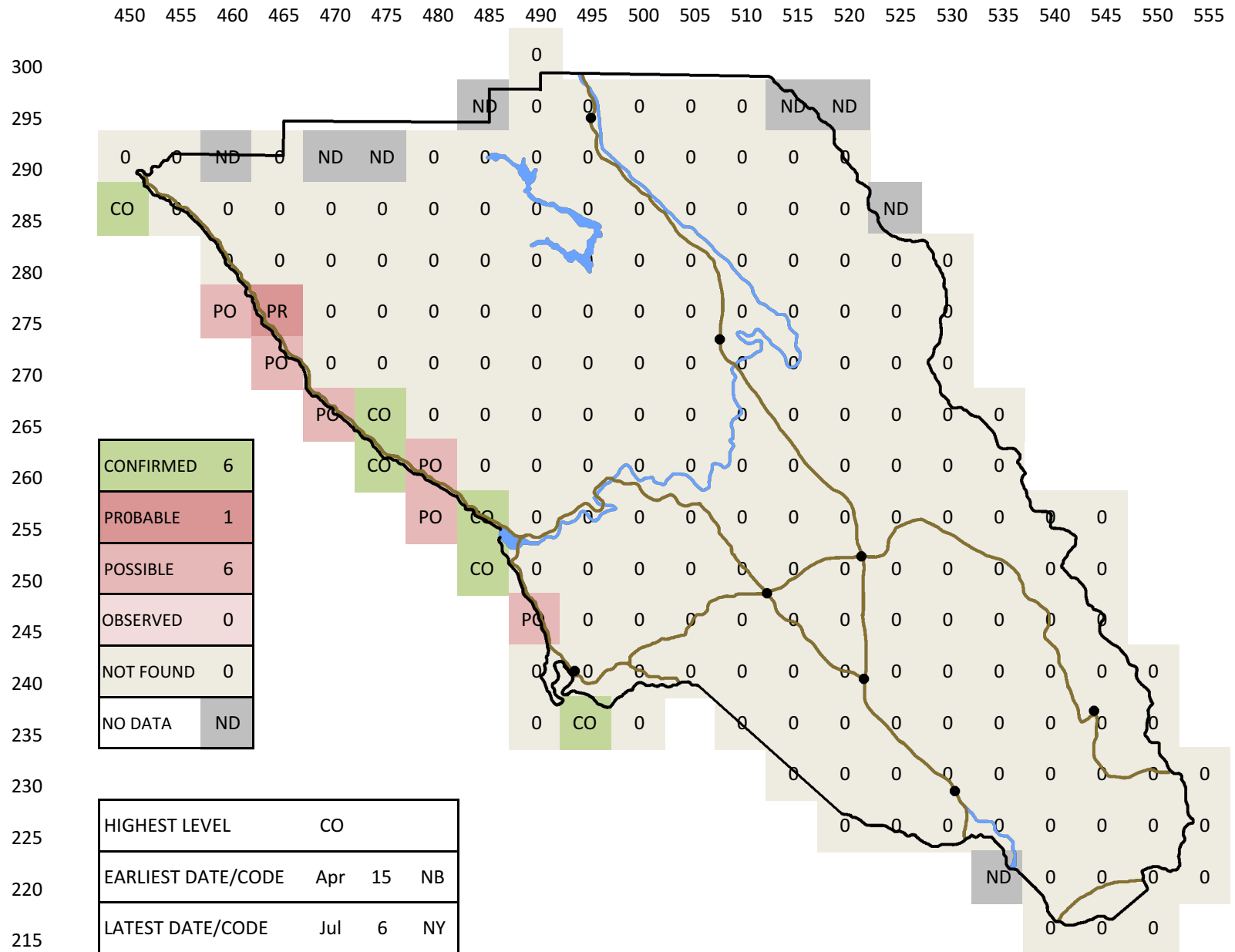
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FORSTER'S TERN



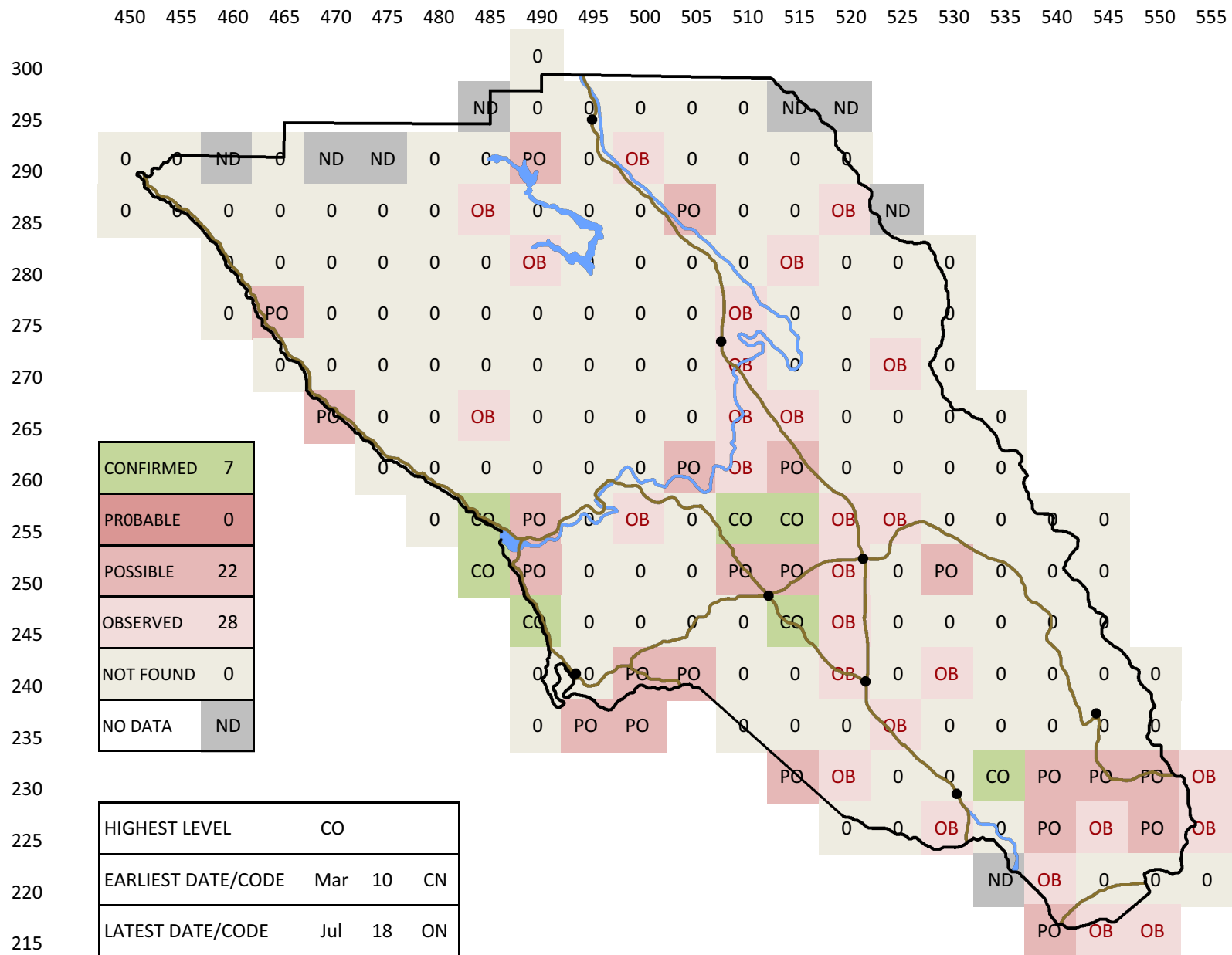
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BRANDT'S CORMORANT



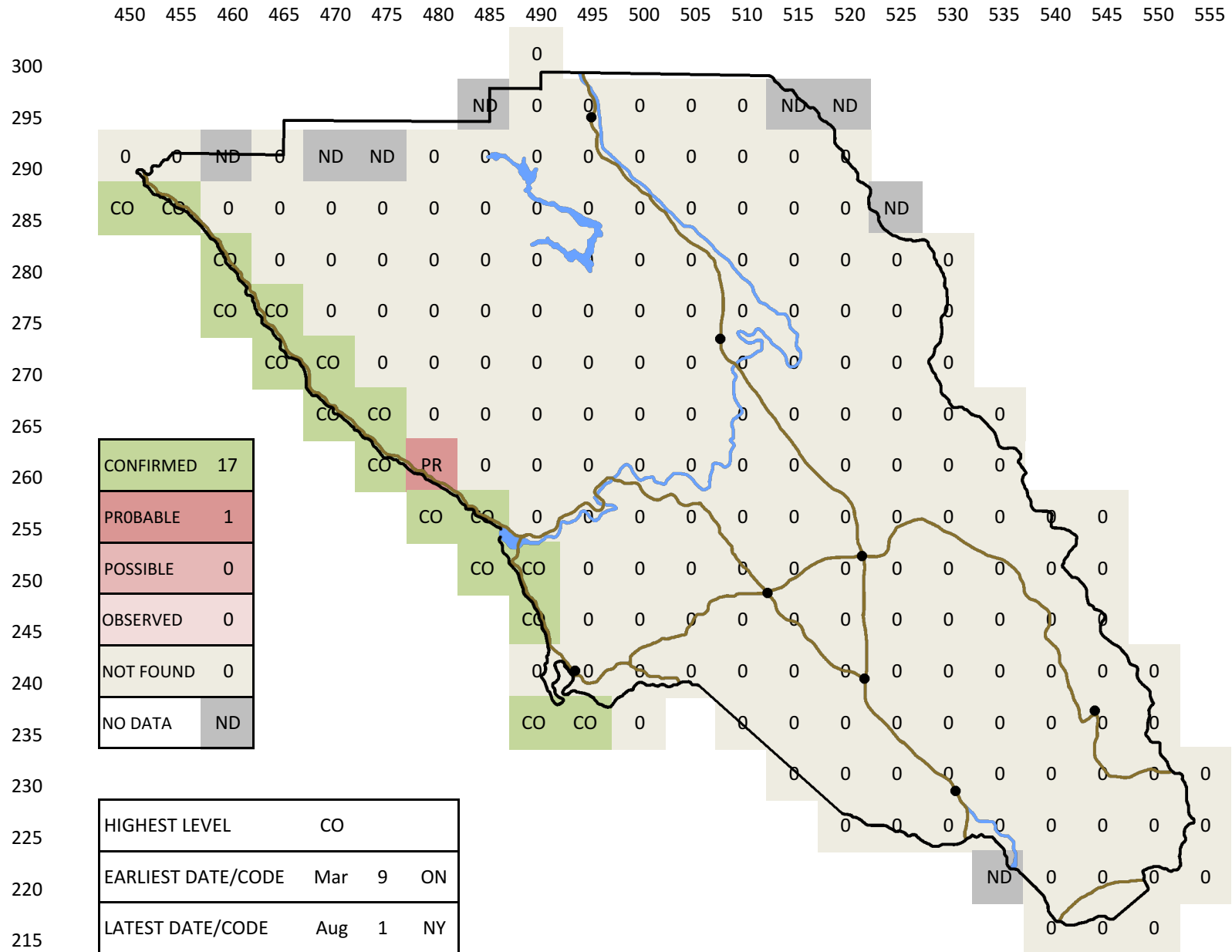
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DOUBLE-CRESTED CORMORANT



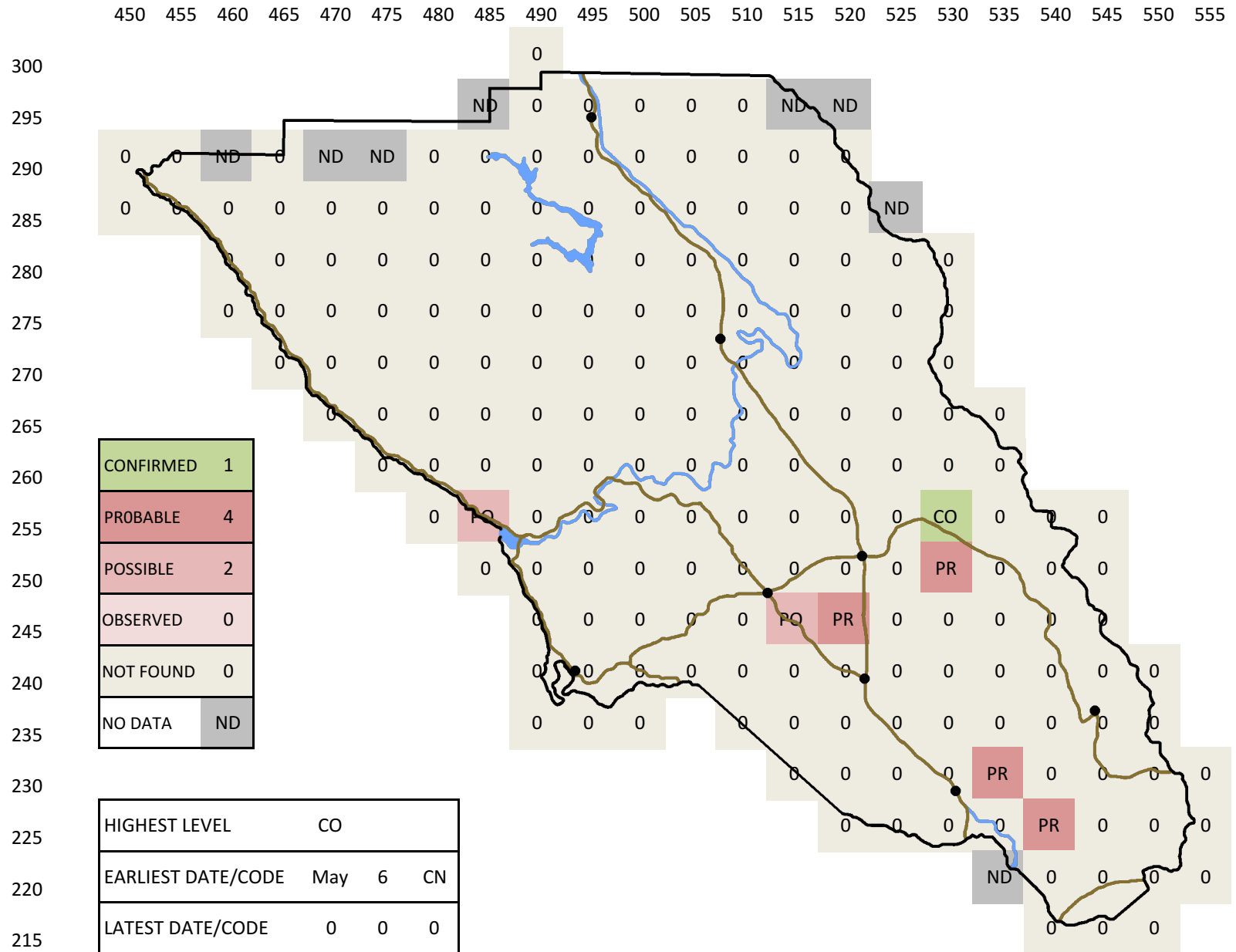
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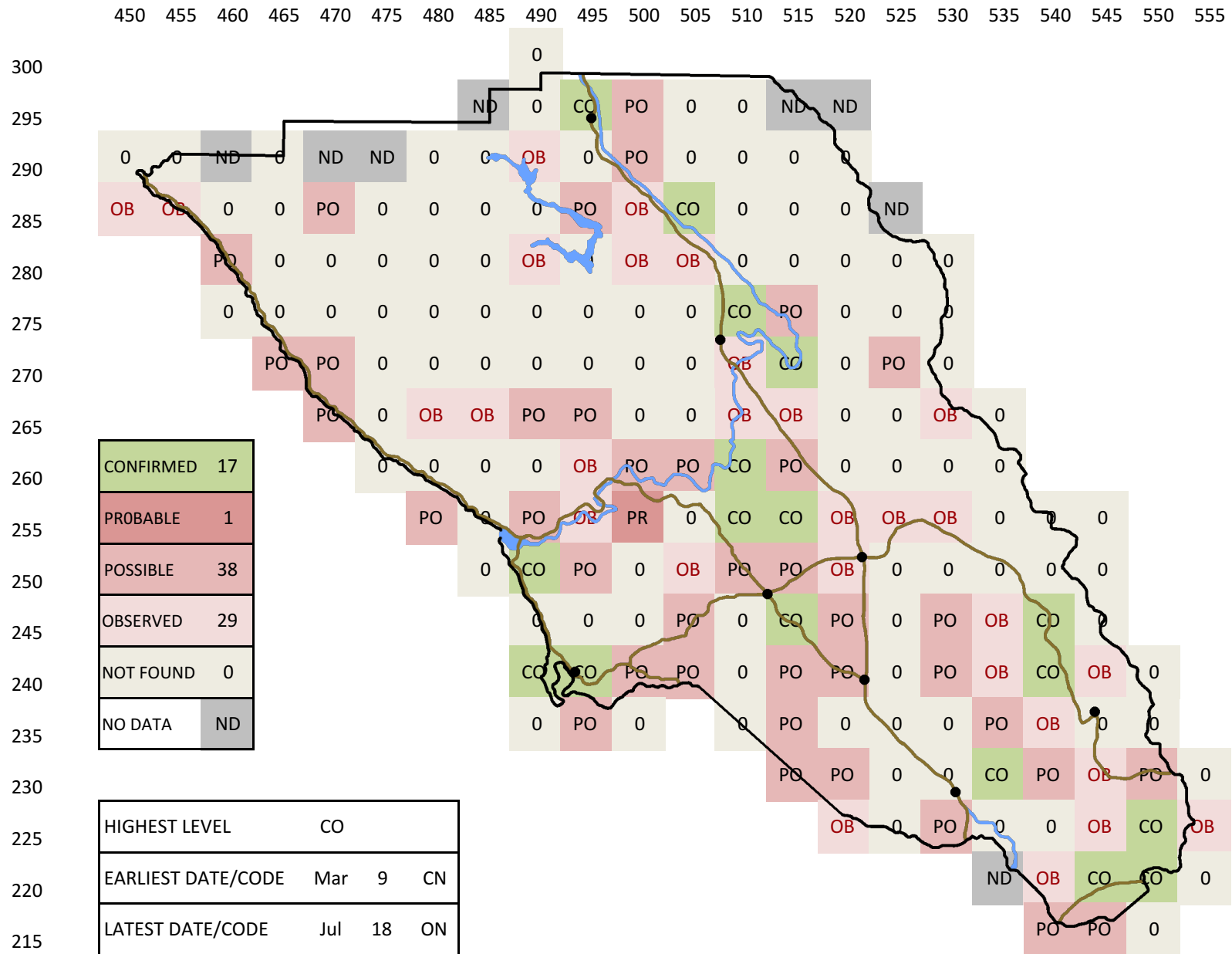
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AMERICAN BITTERN



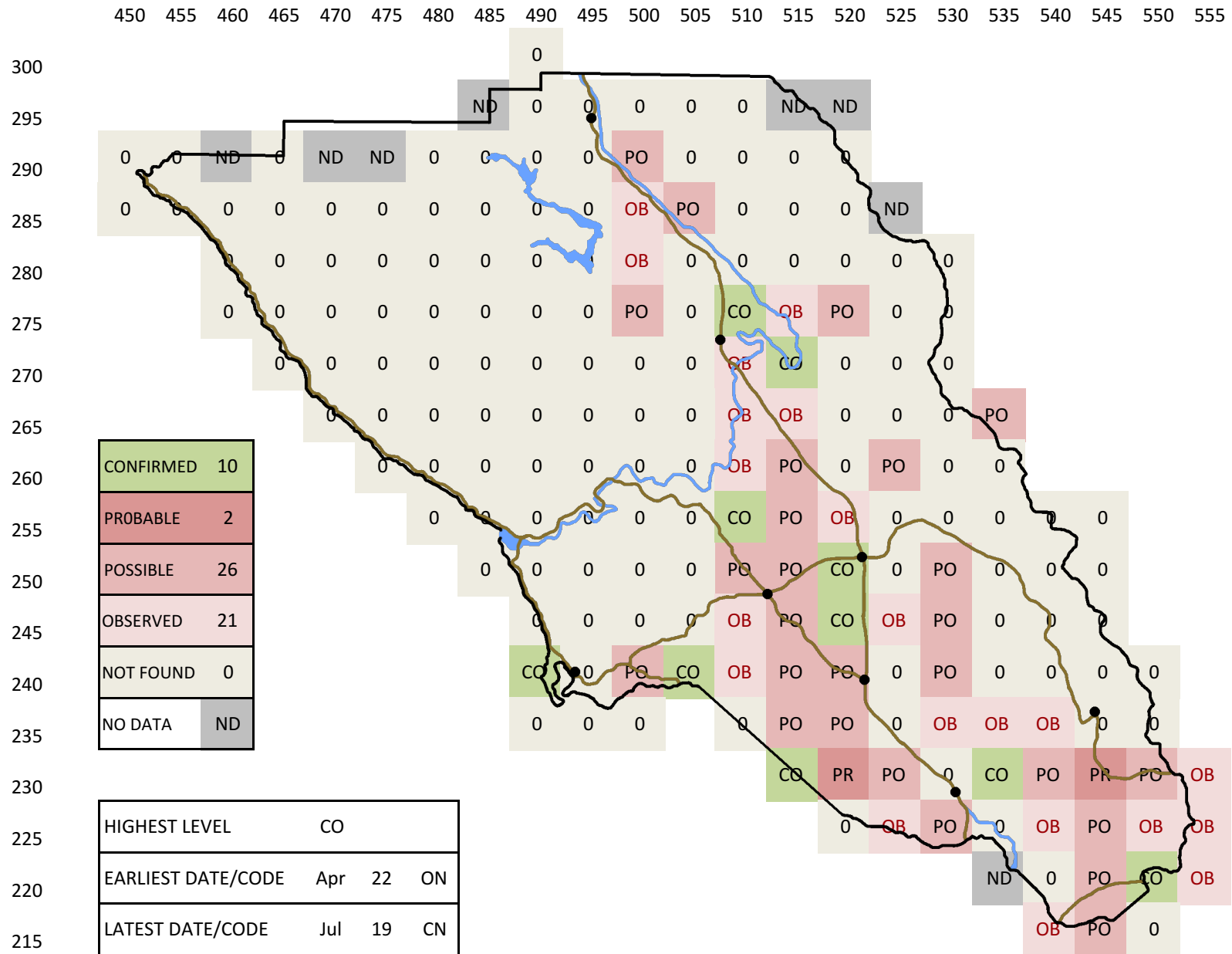
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GREAT BLUE HERON



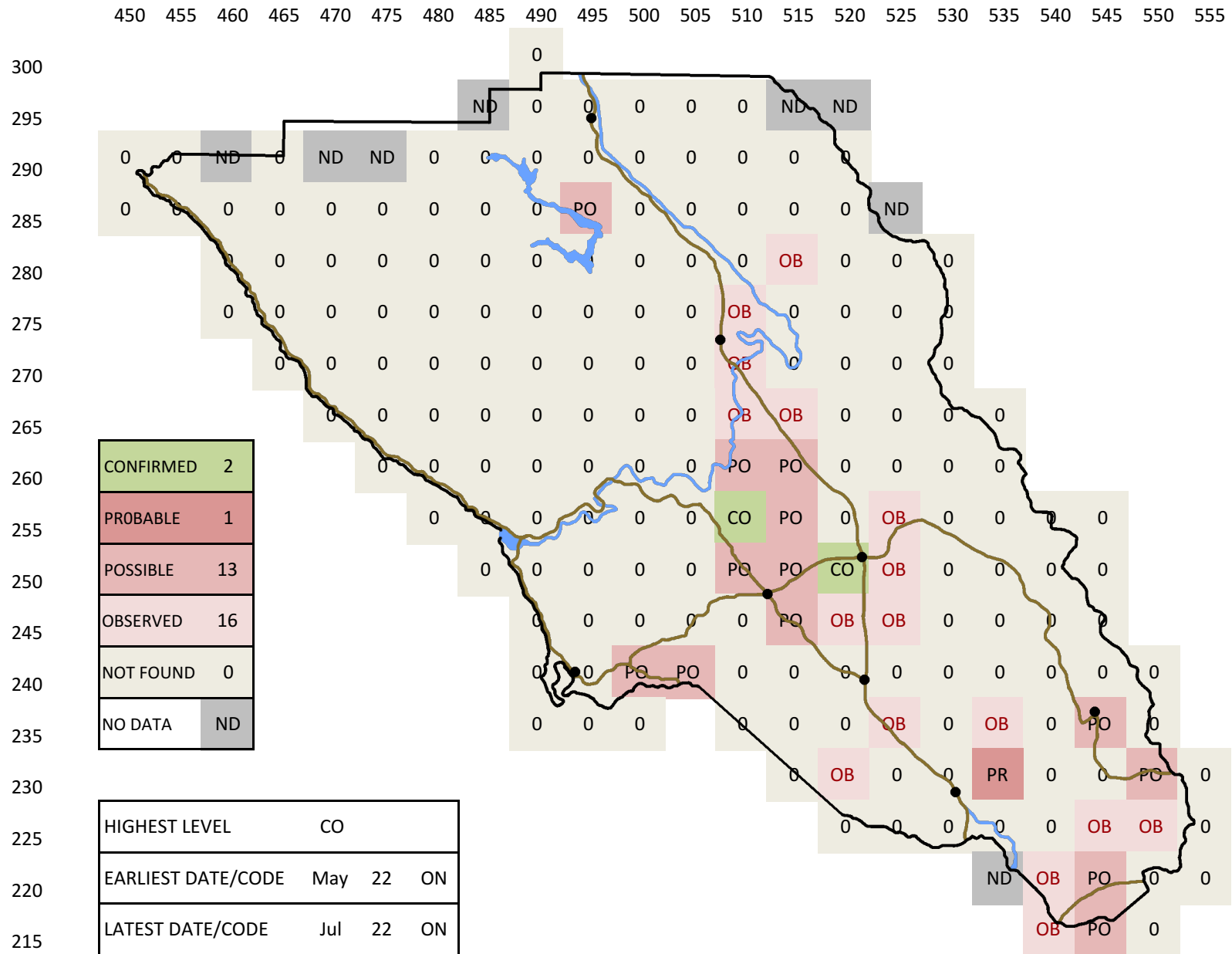
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GREAT EGRET



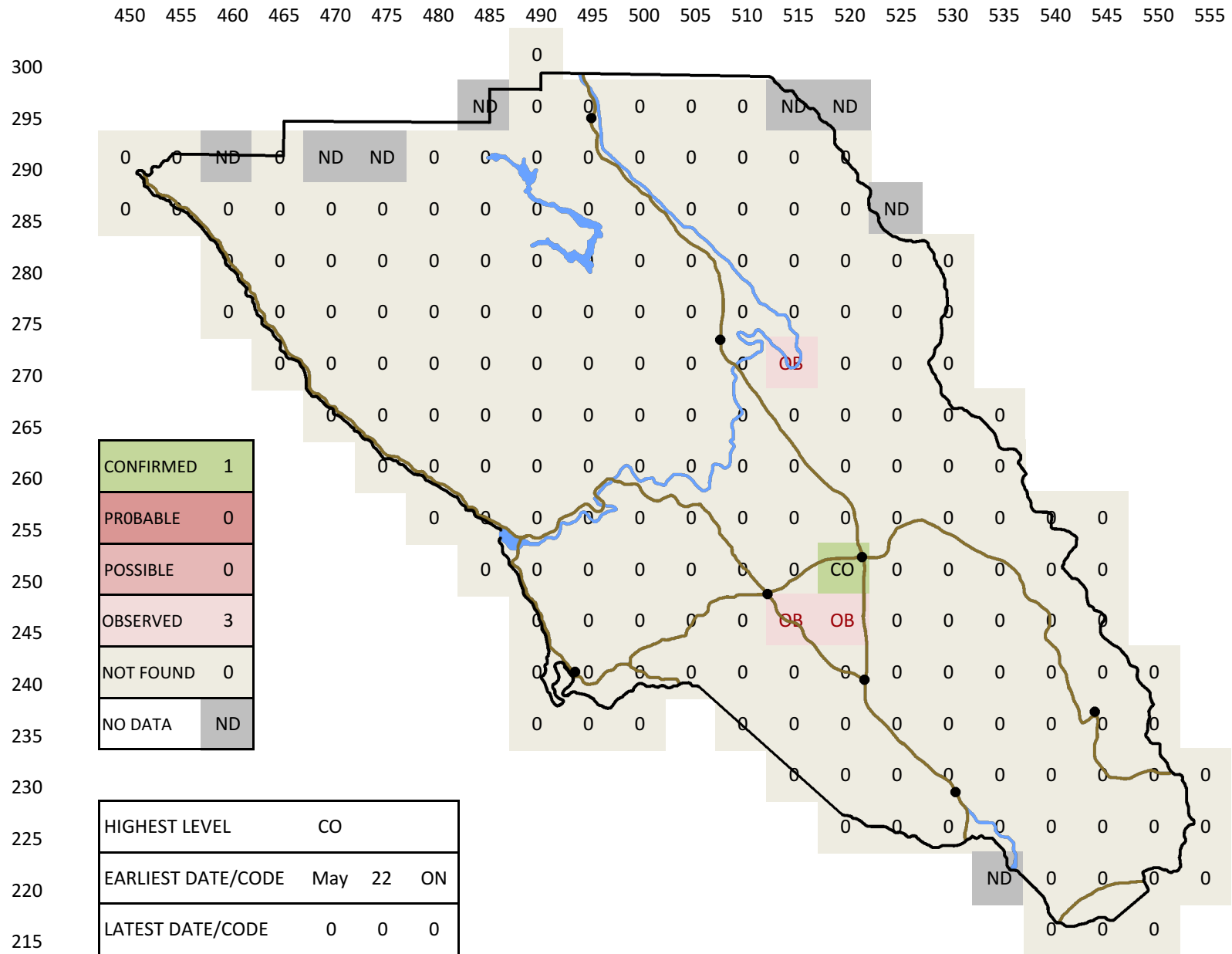
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SNOWY EGRET



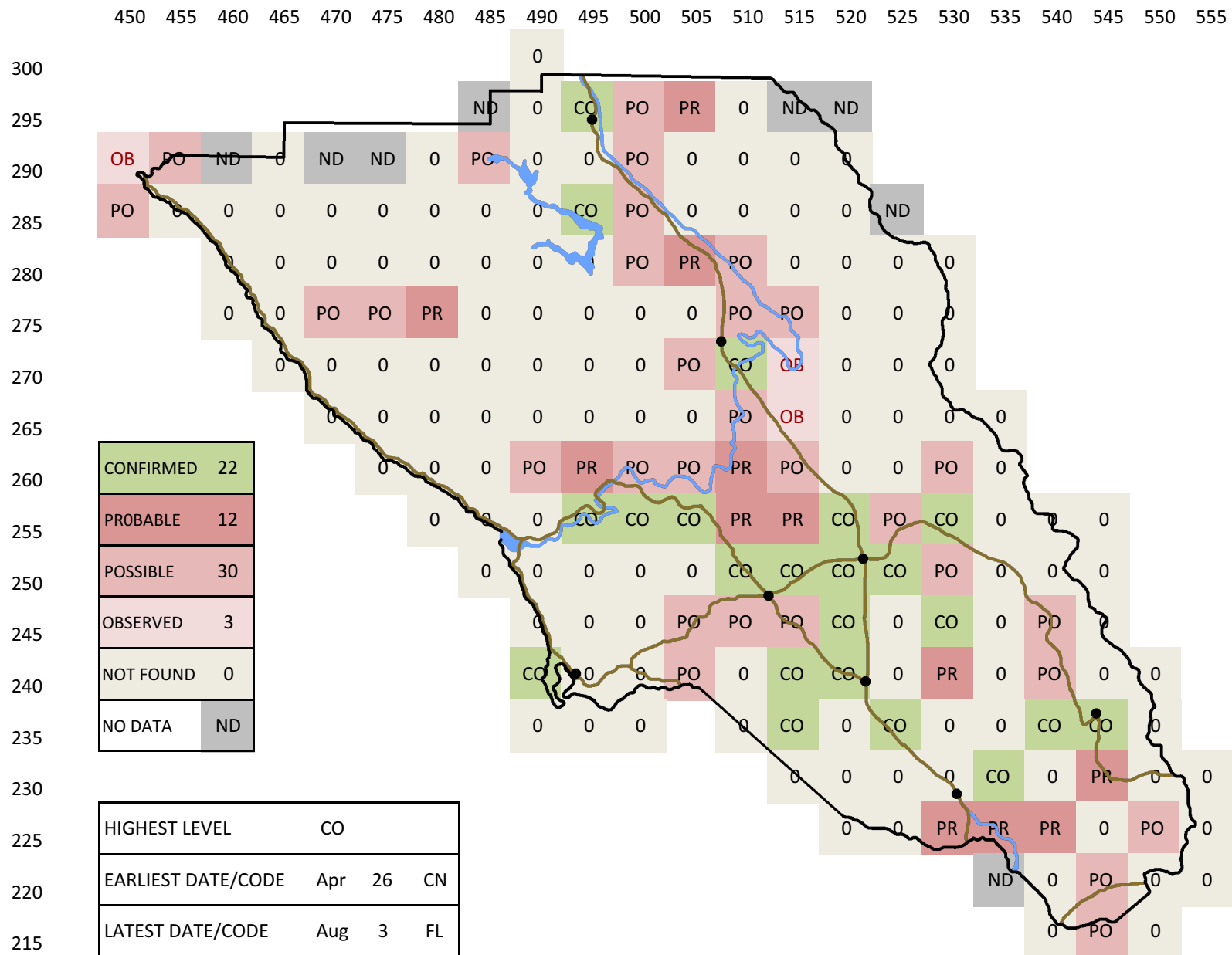
Atlas #2: 2011-2016

CATTLE EGRET



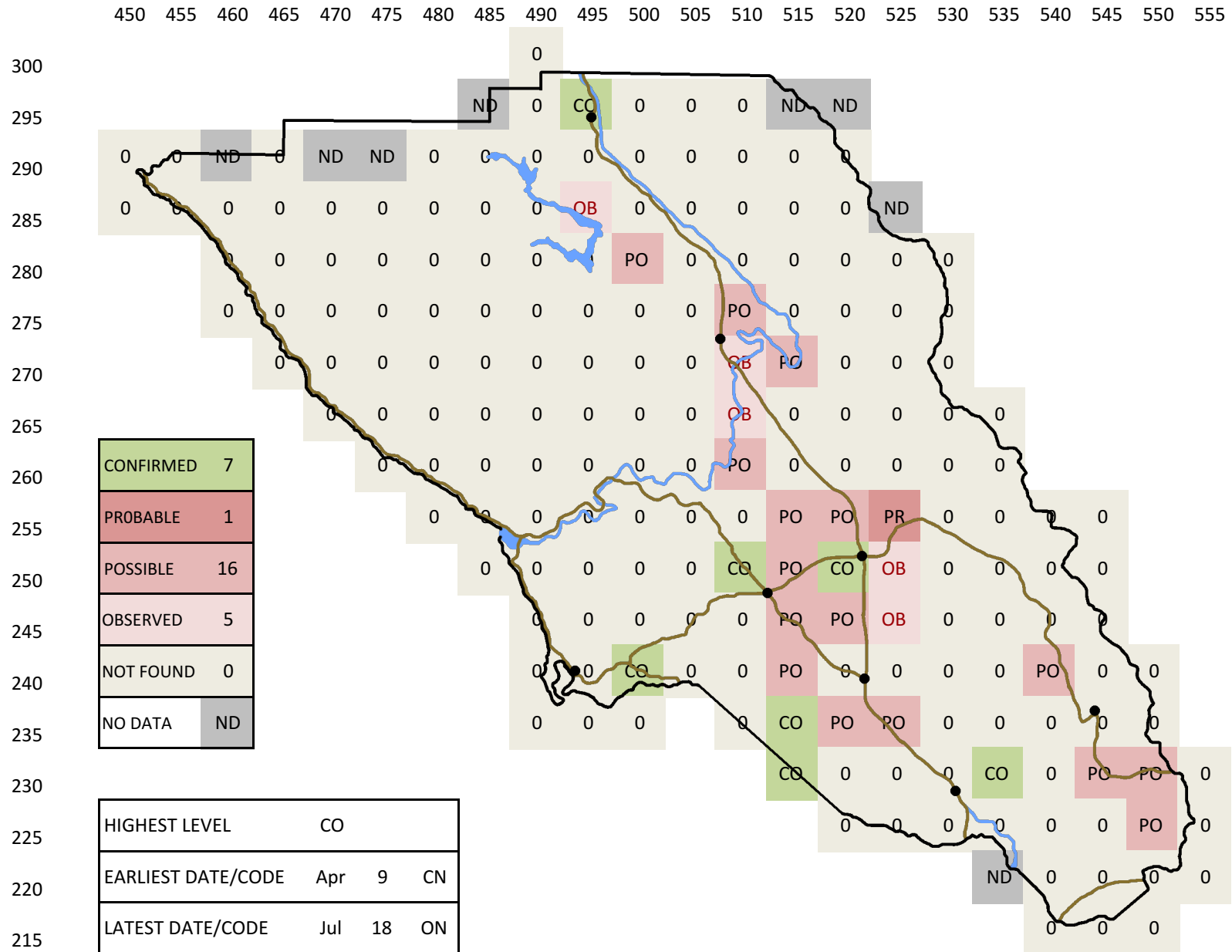
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GREEN HERON



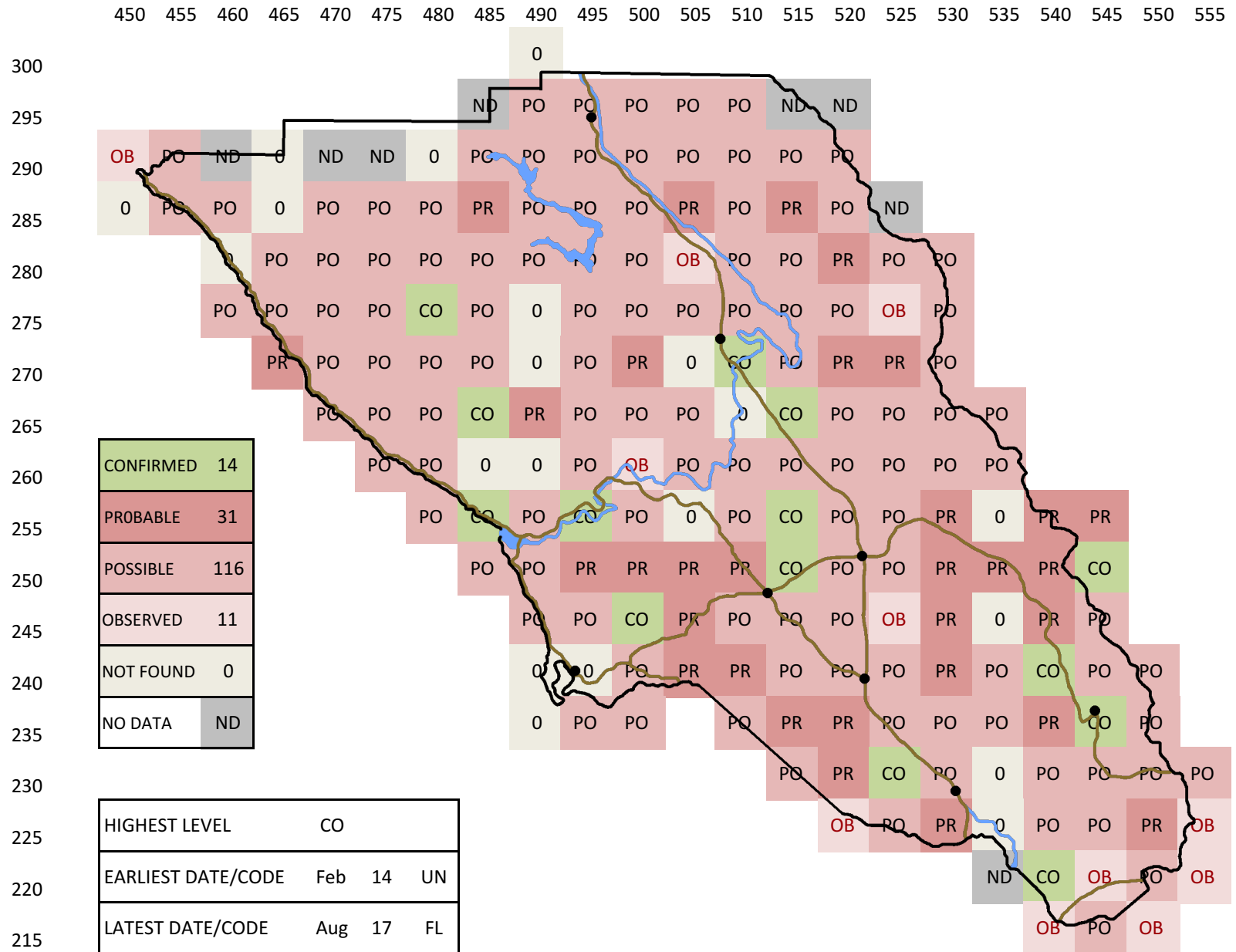
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BLACK-CROWNED NIGHT-HERON



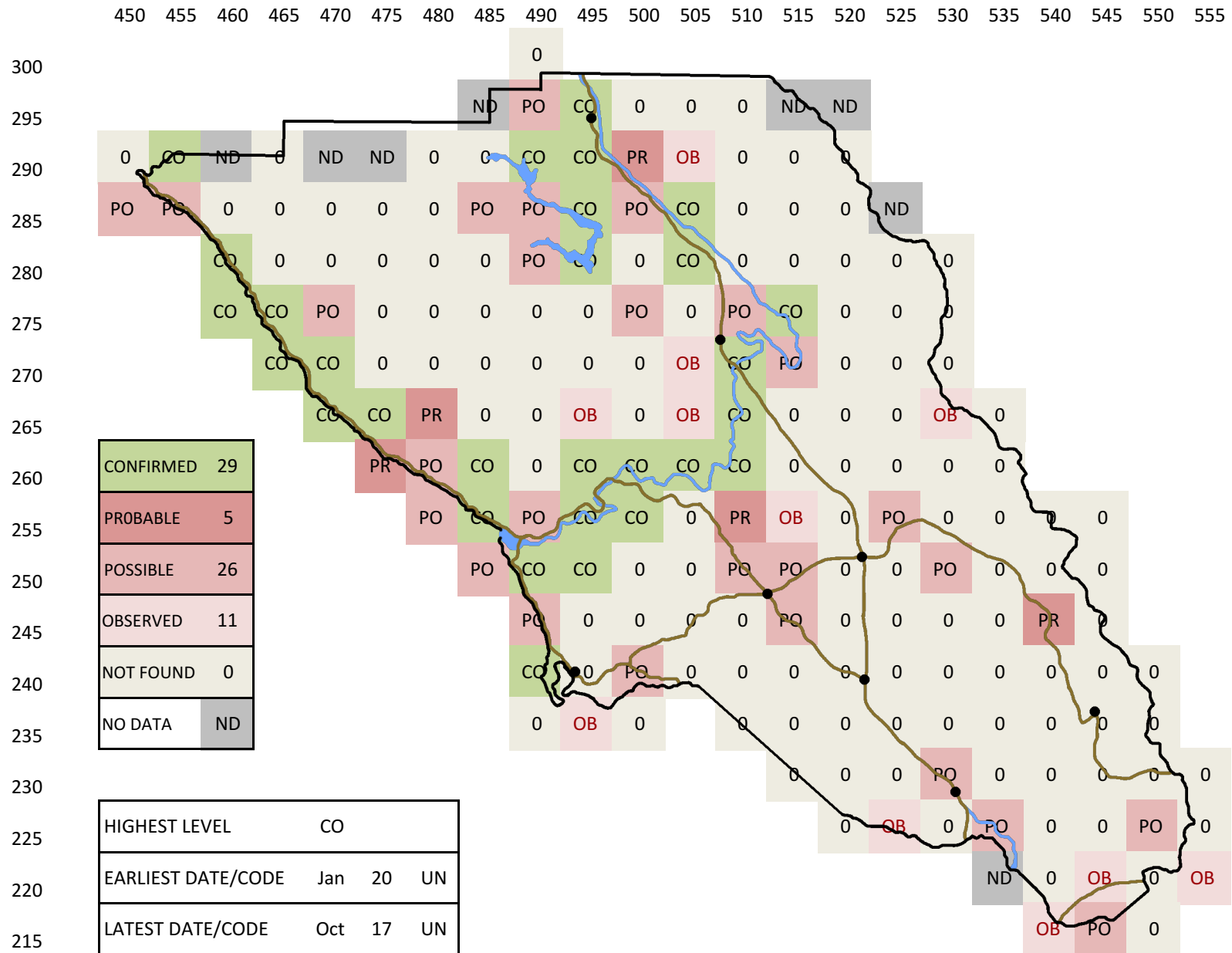
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TURKEY VULTURE



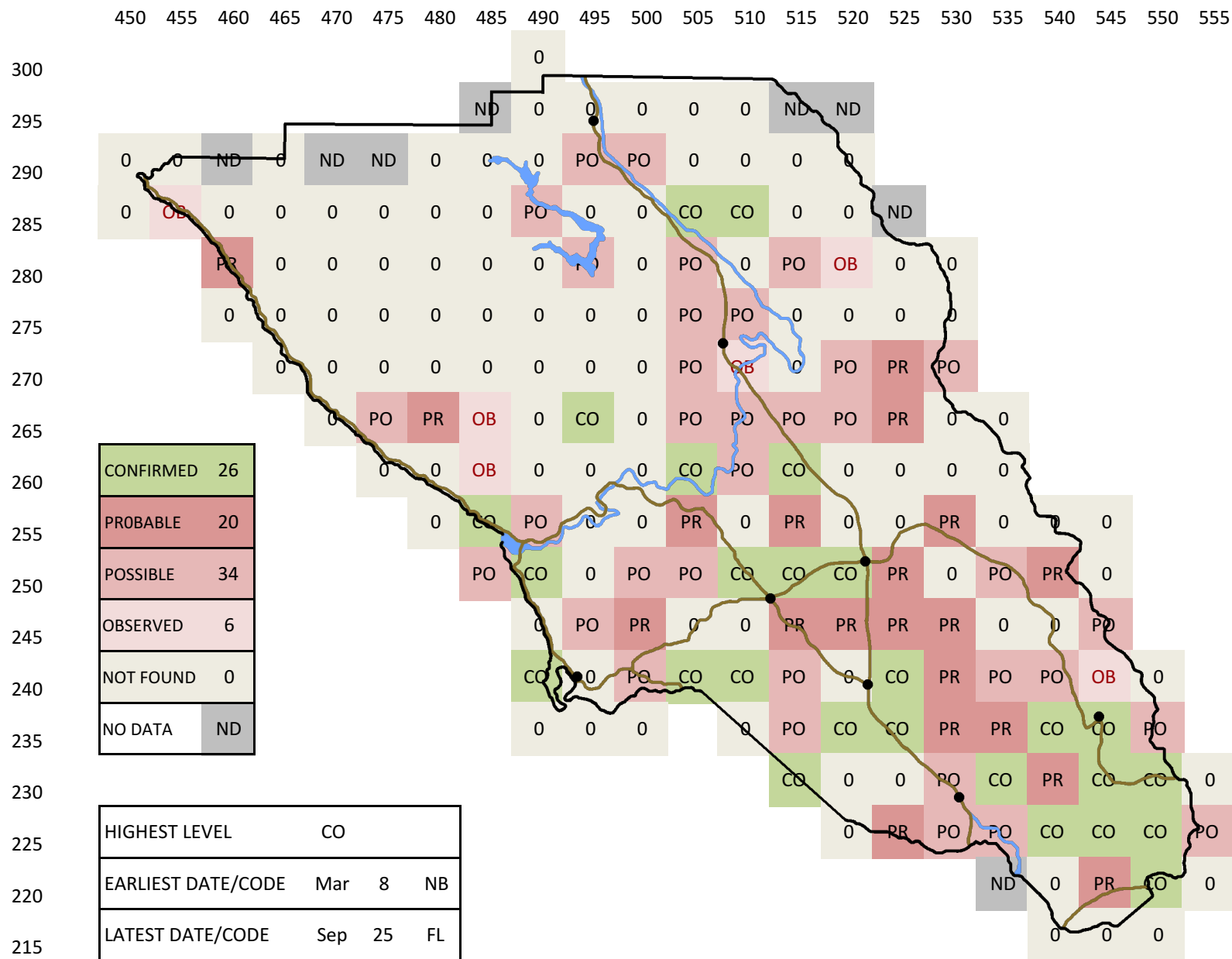
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OSPREY



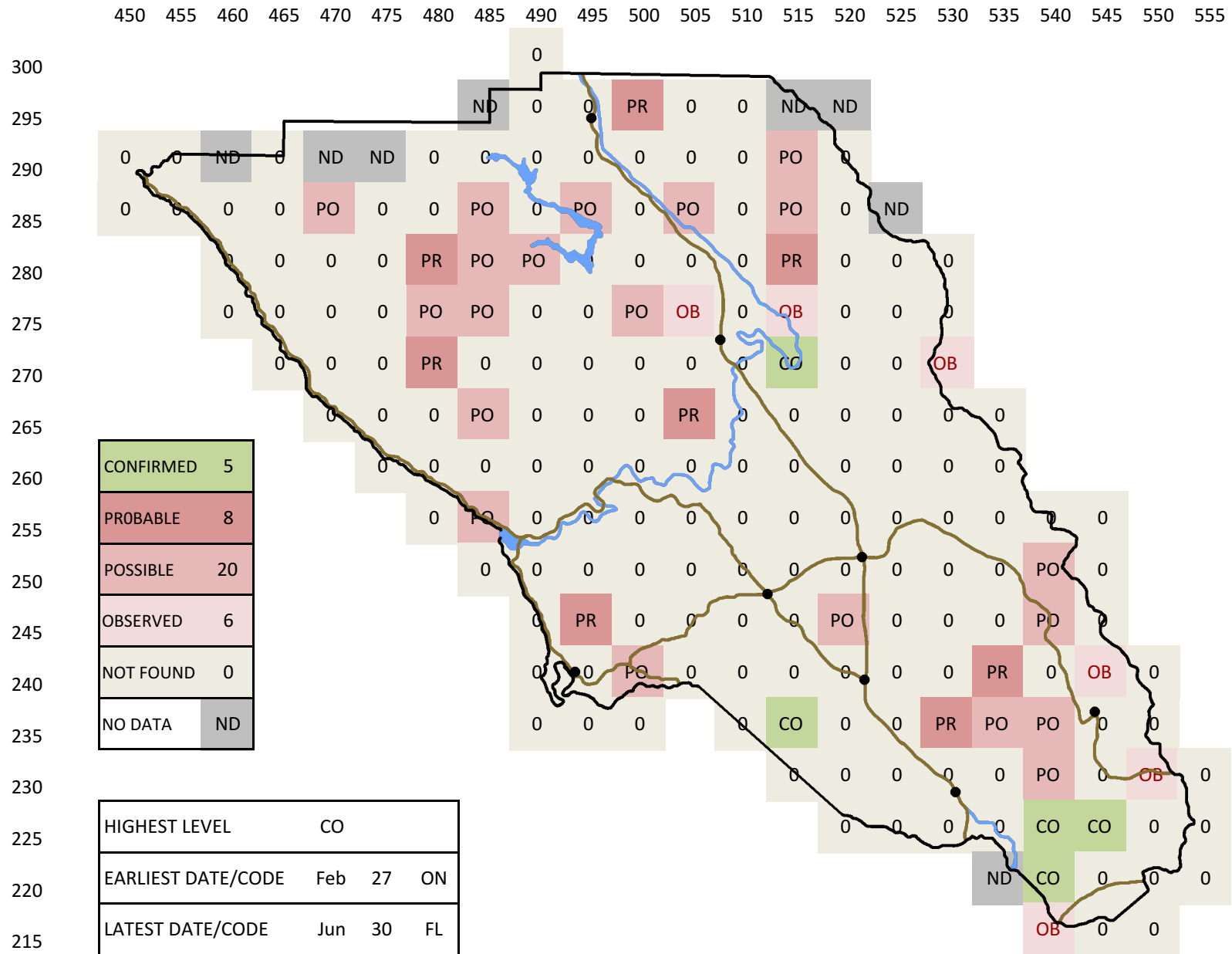
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WHITE-TAILED KITE



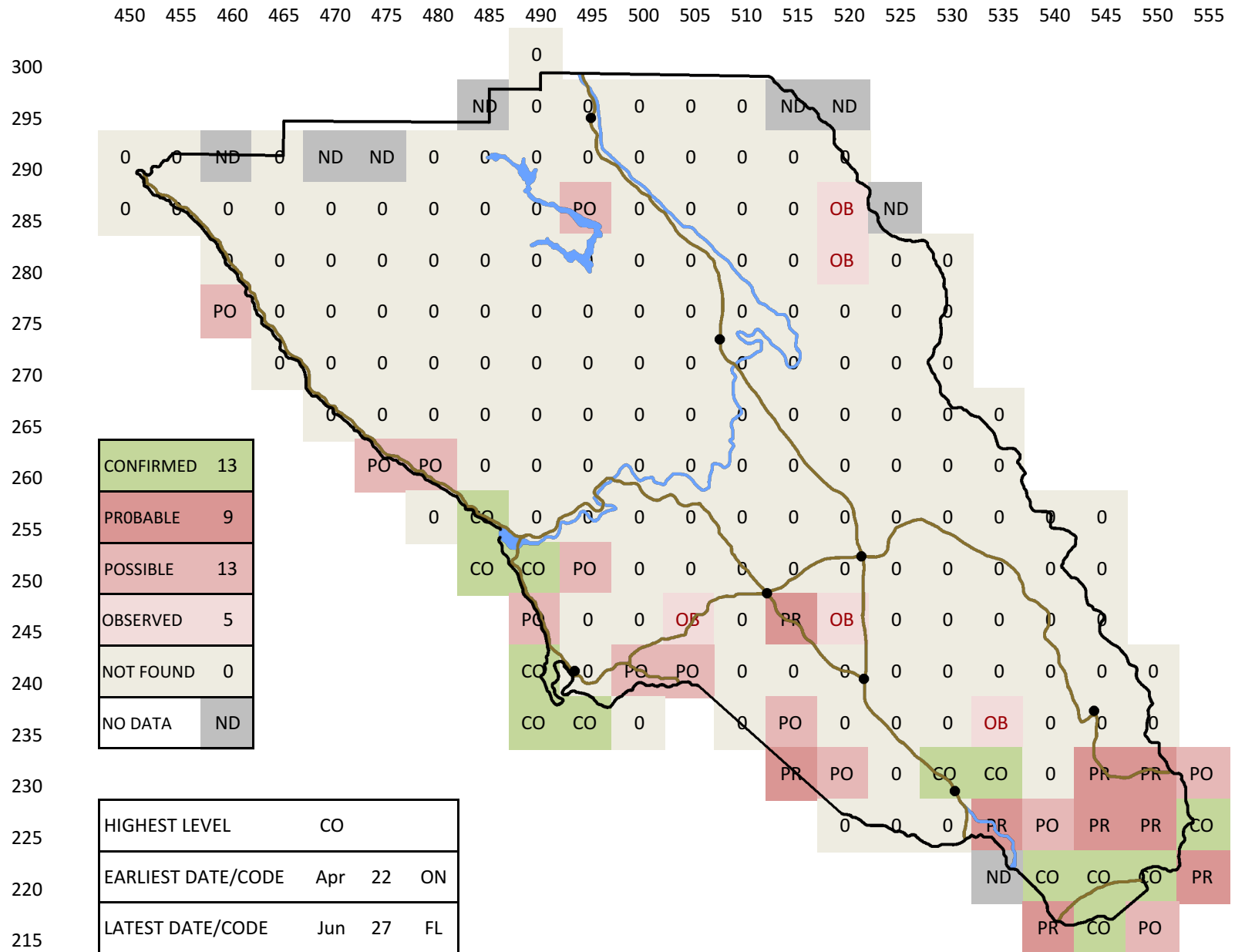
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GOLDEN EAGLE



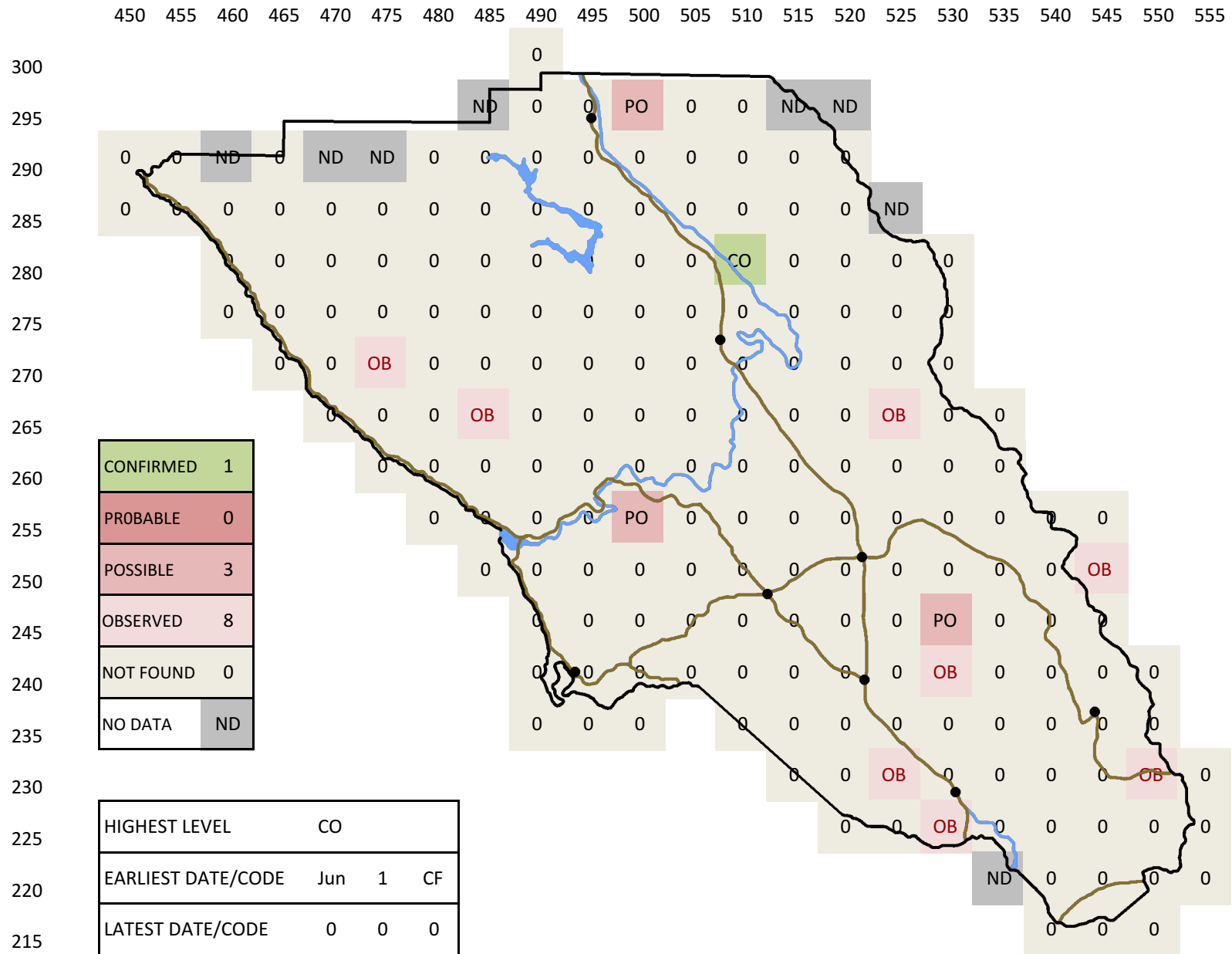
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NORTHERN HARRIER



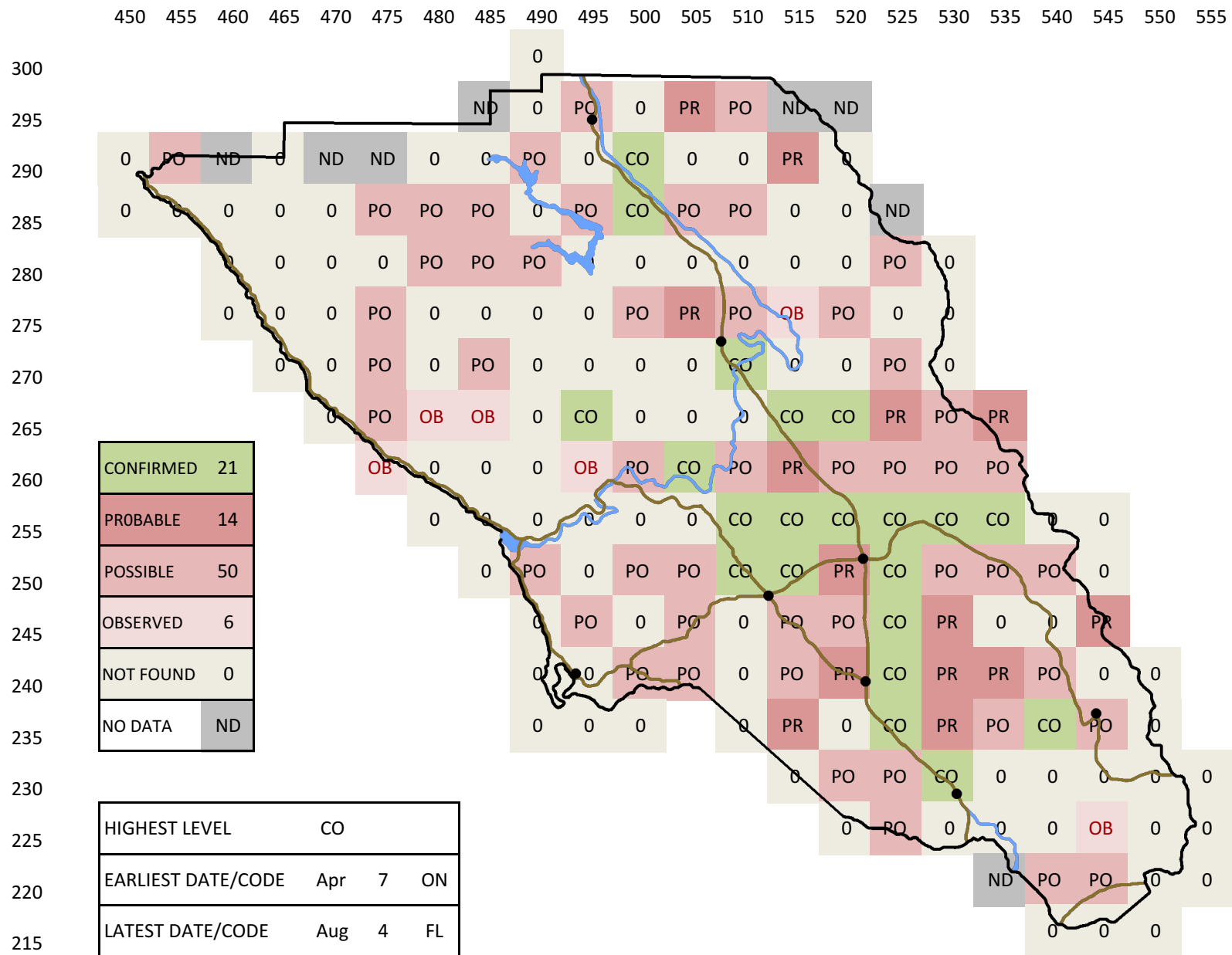
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SHARP-SHINNED HAWK



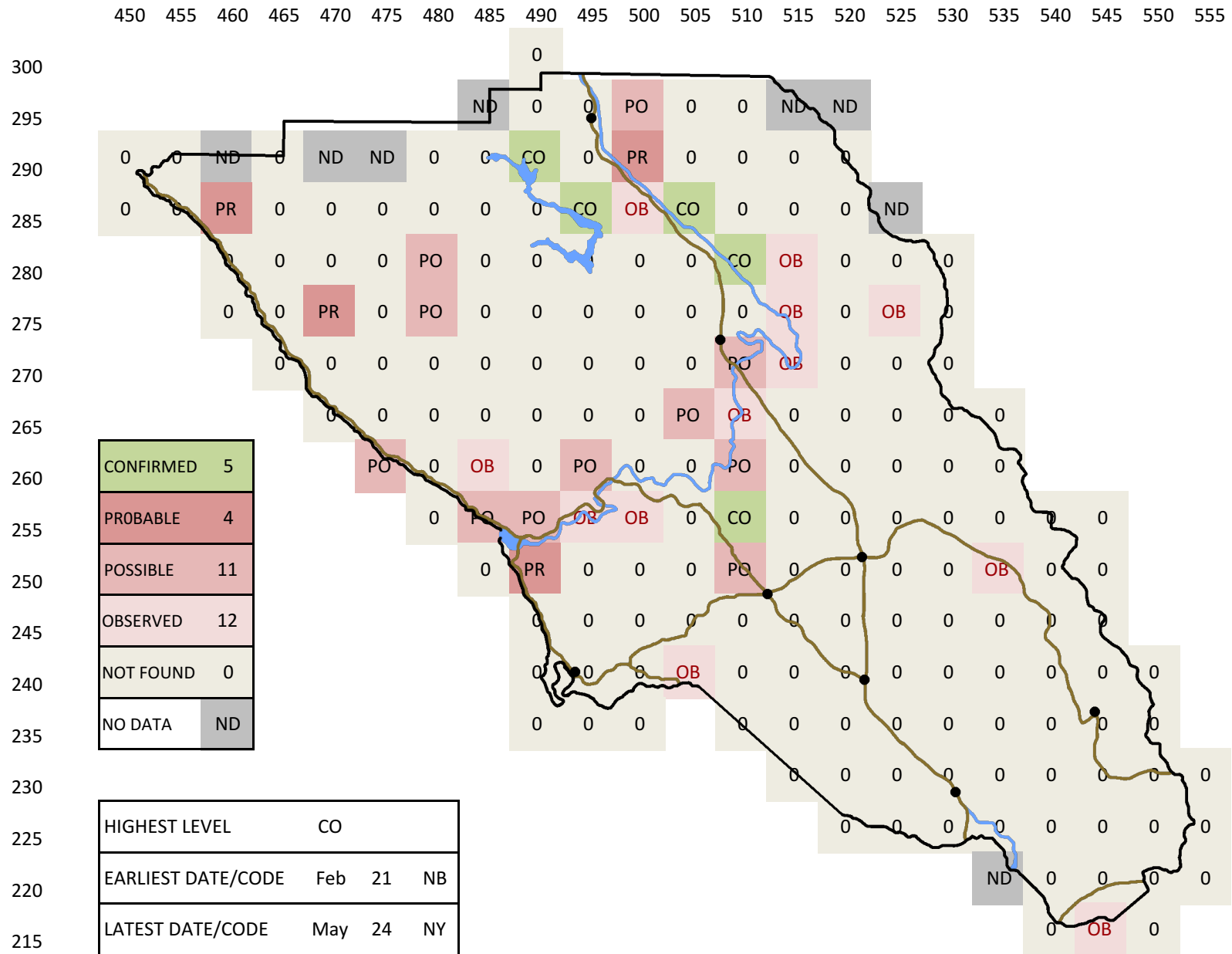
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COOPER'S HAWK



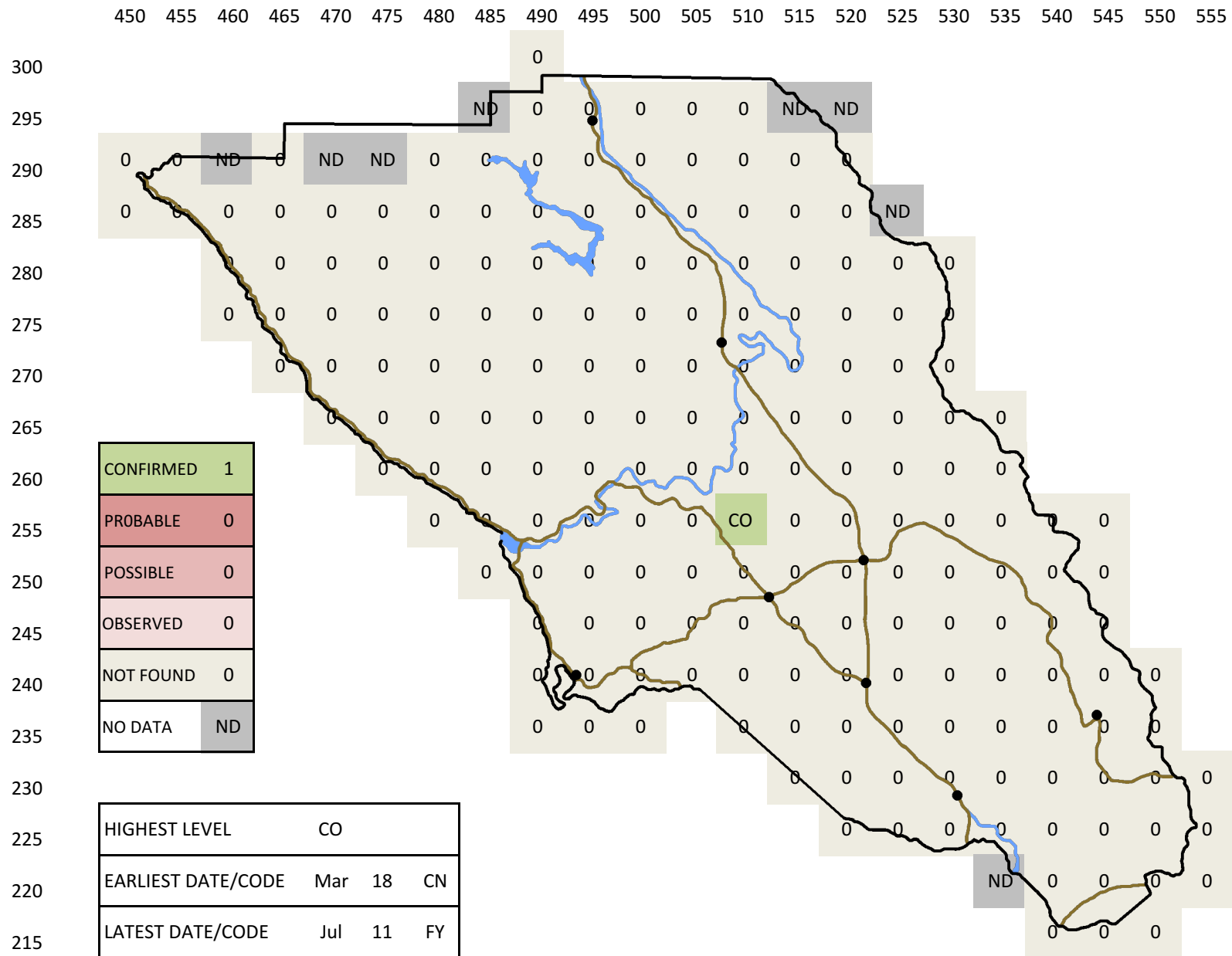
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BALD EAGLE



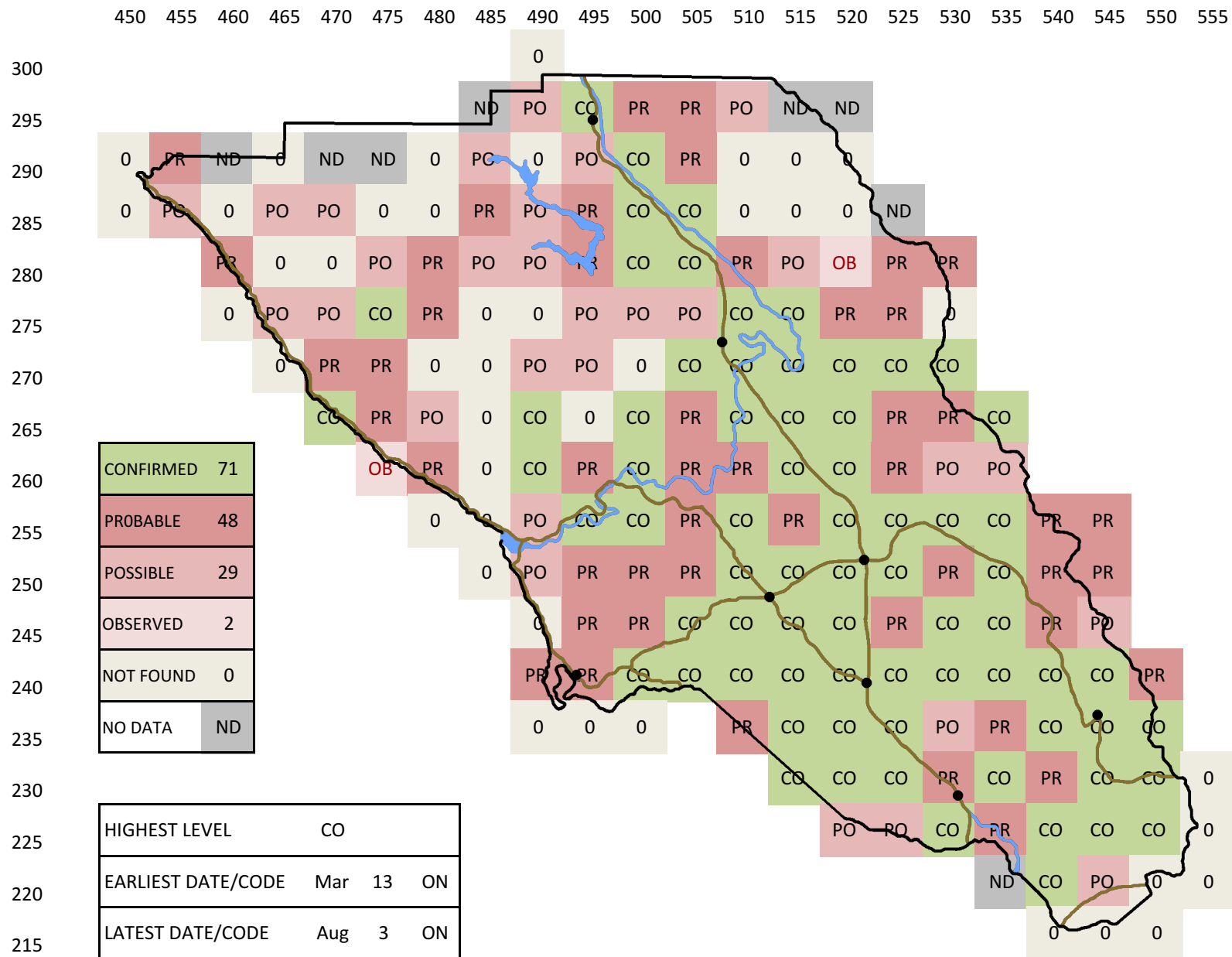
Atlas #2: 2011-2016

COMMON BLACK HAWK



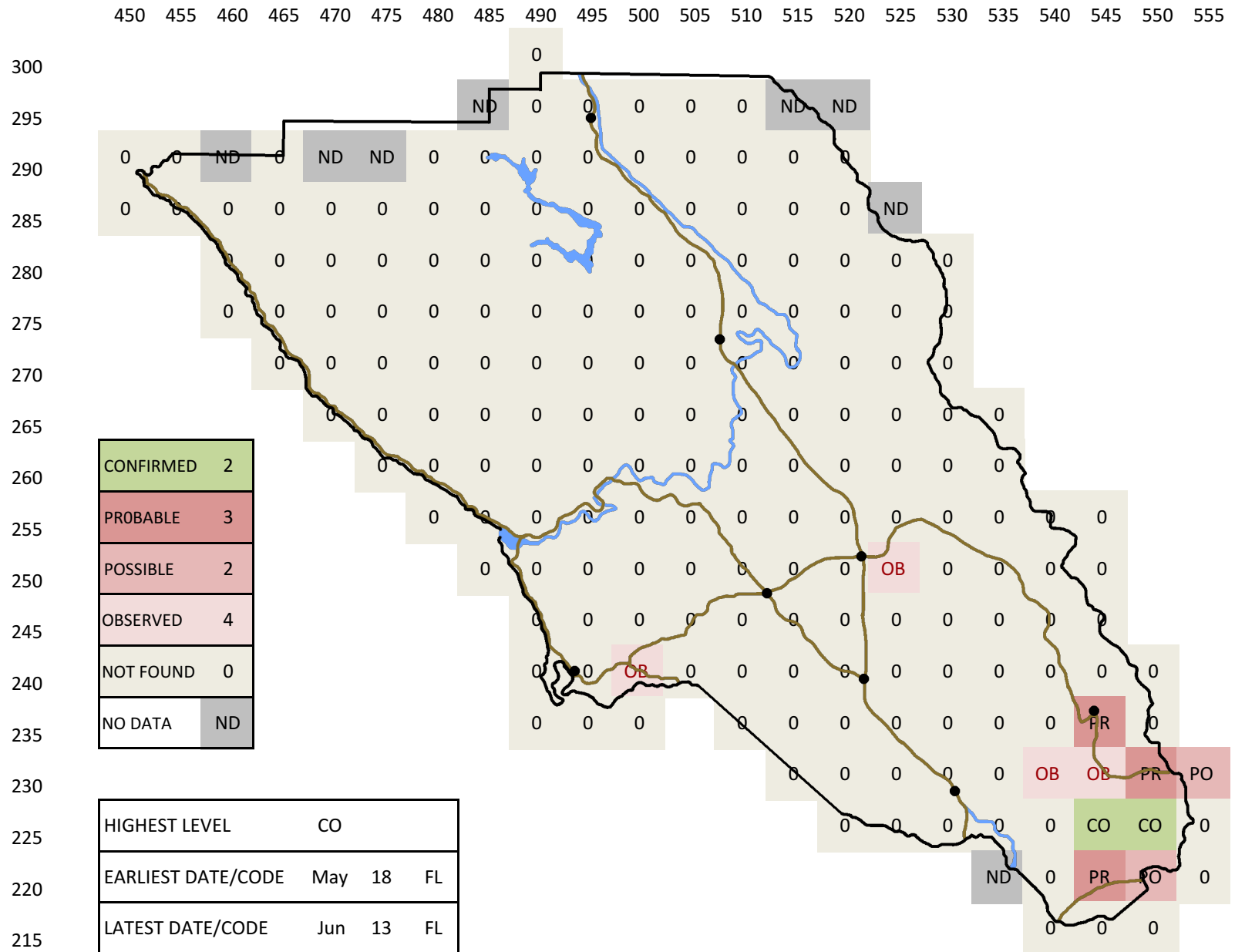
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RED-SHOULDERED HAWK



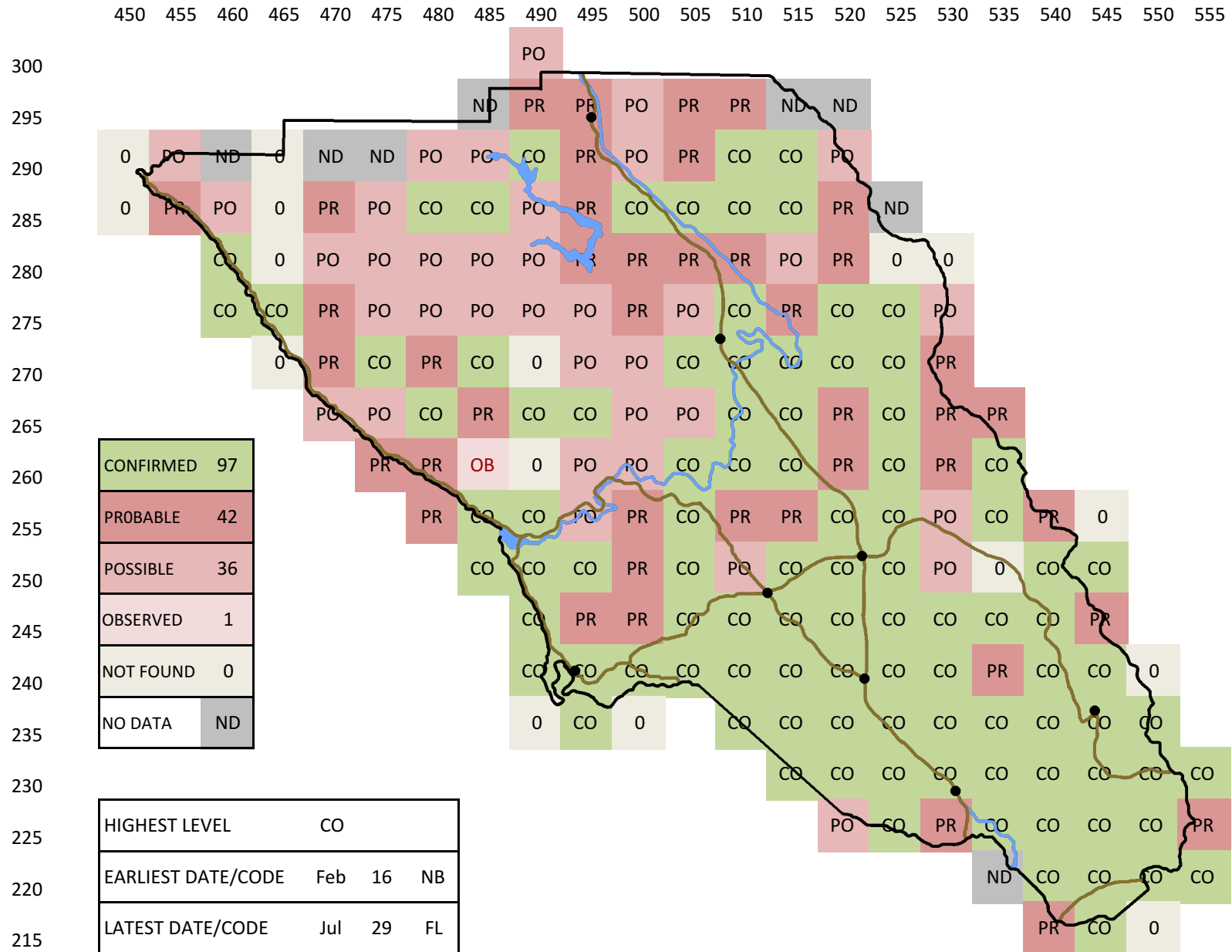
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SWAINSON'S HAWK



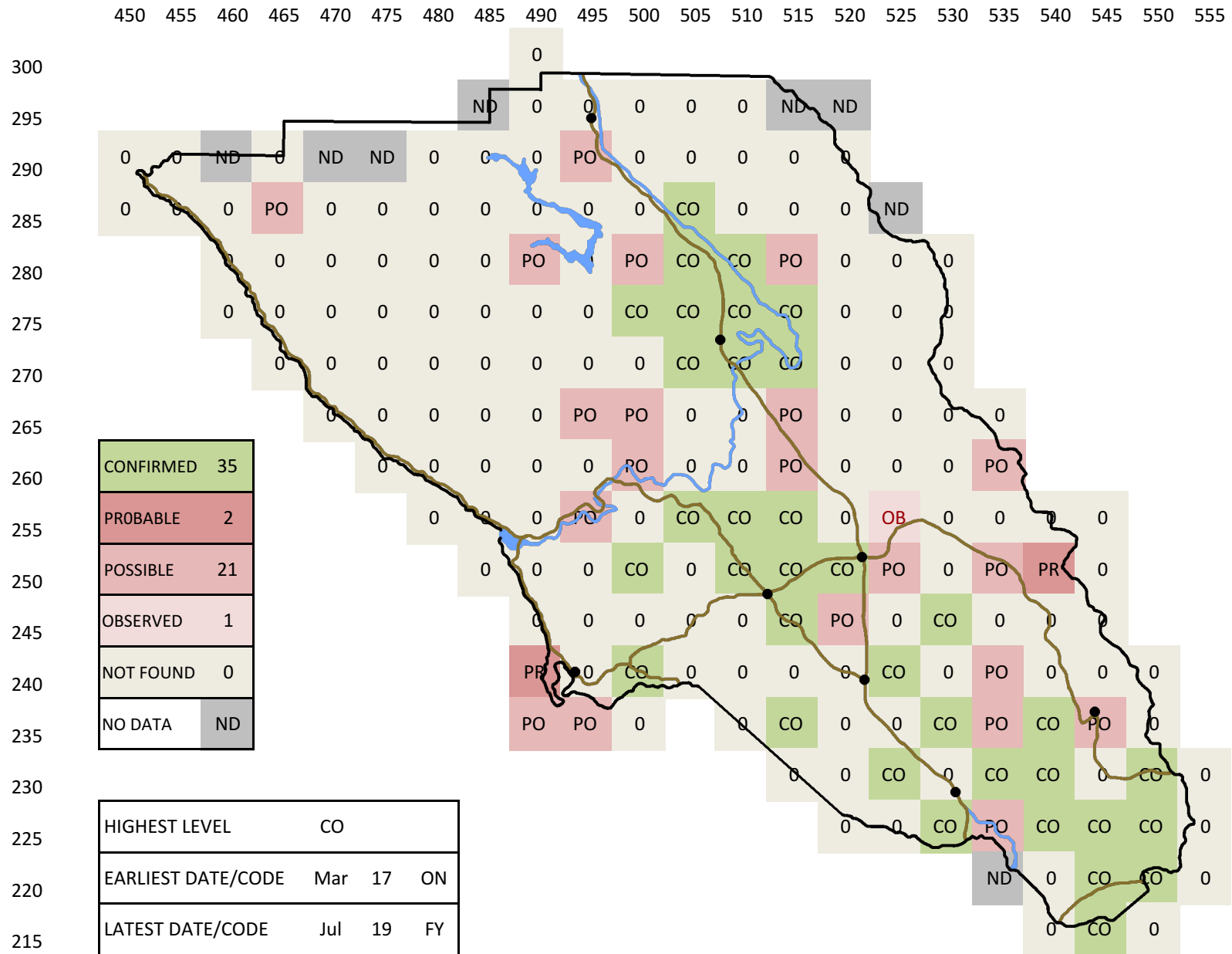
Atlas #2: 2011-2016

RED-TAILED HAWK



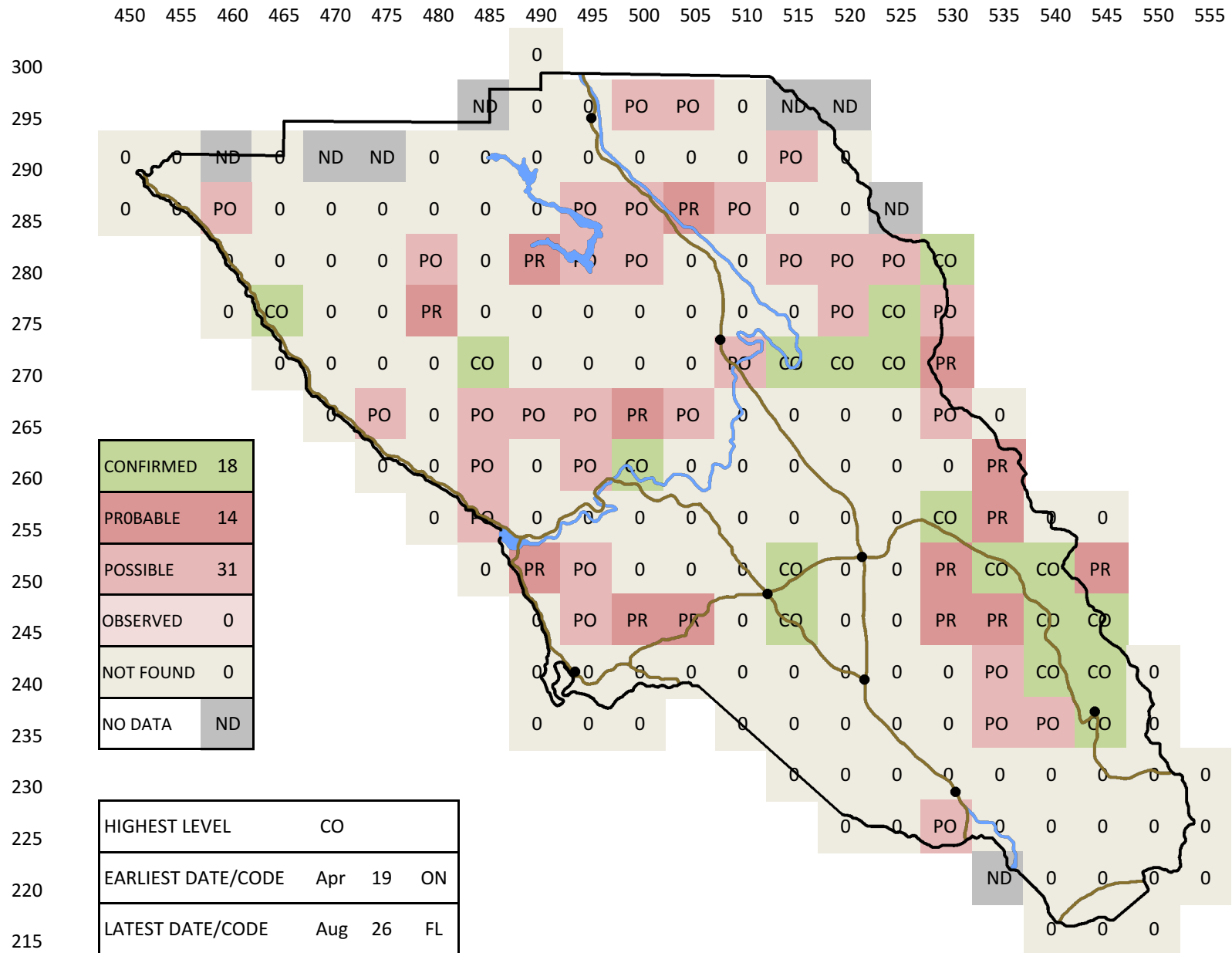
Atlas #2: 2011-2016

BARN OWL



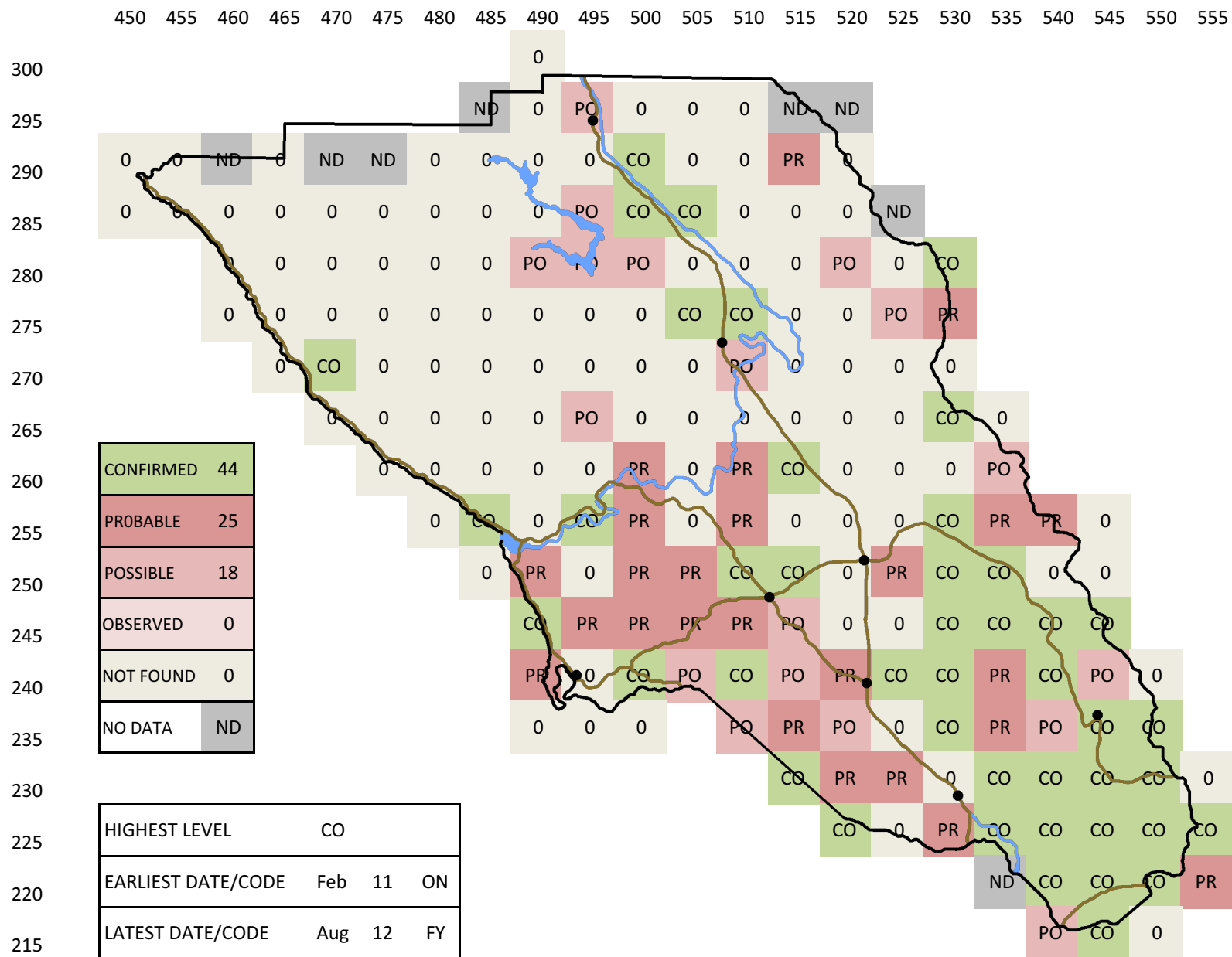
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WESTERN SCREECH-OWL

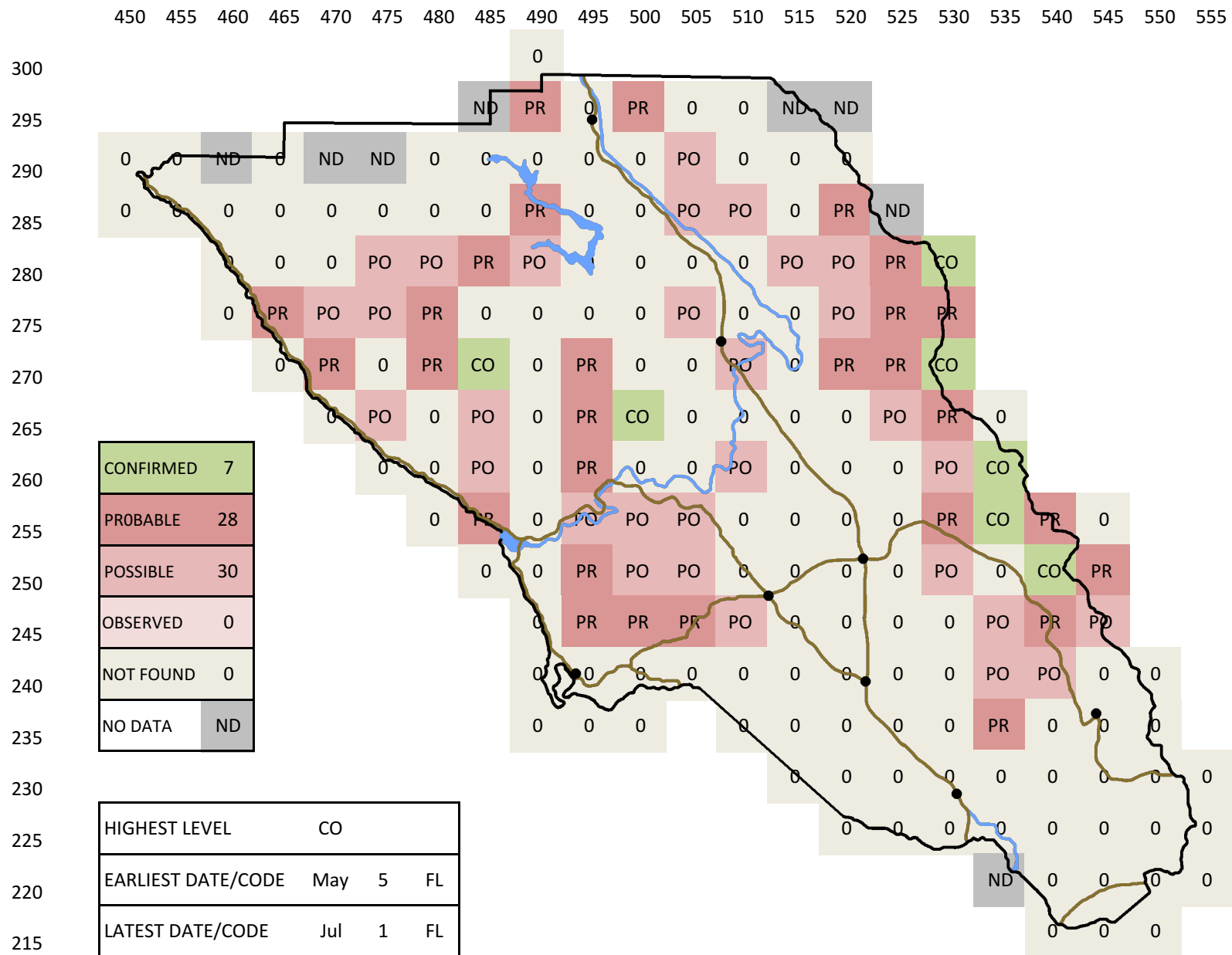


Atlas #2: 2011-2016

GREAT HORNED OWL

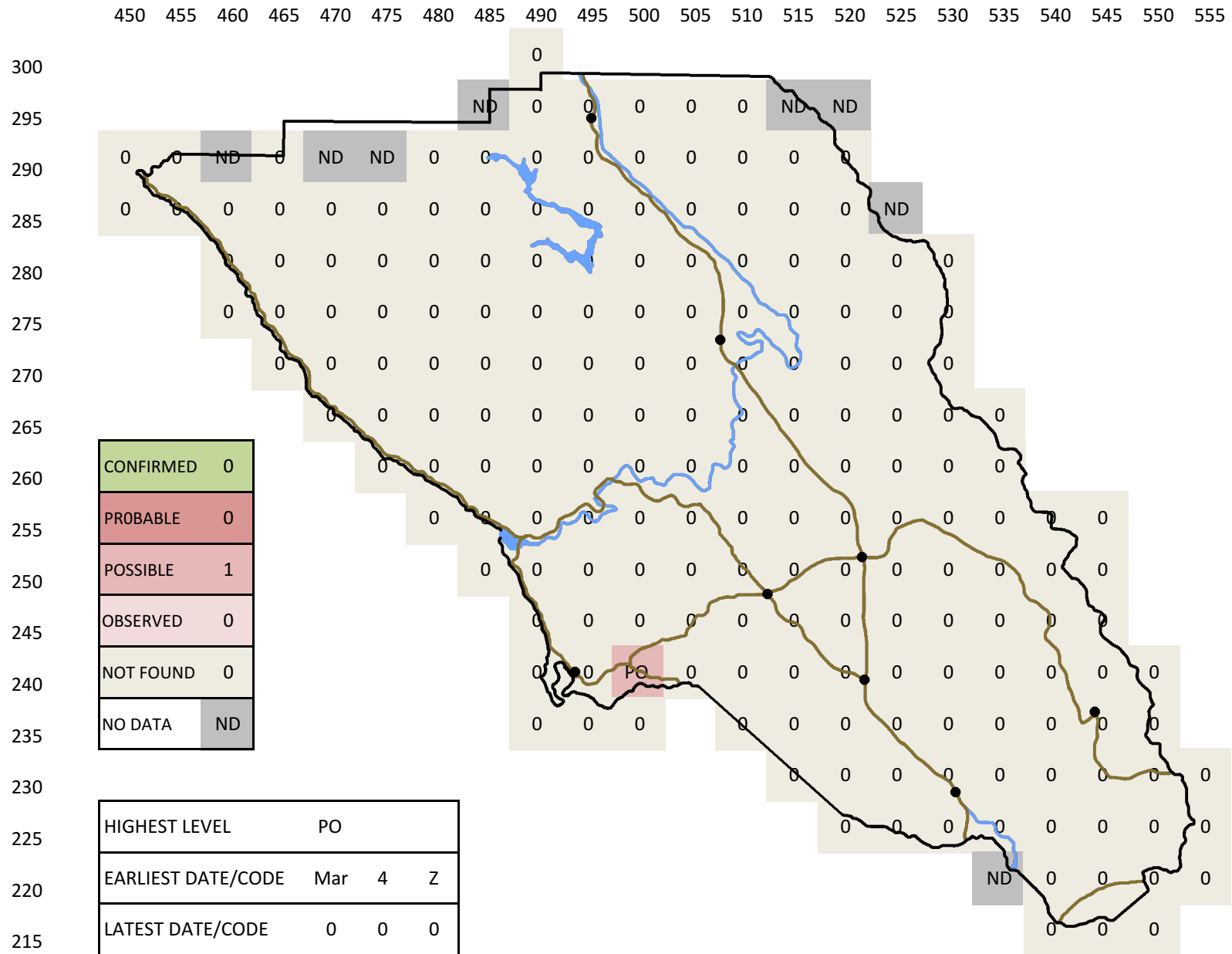


NORTHERN PYGMY-OWL



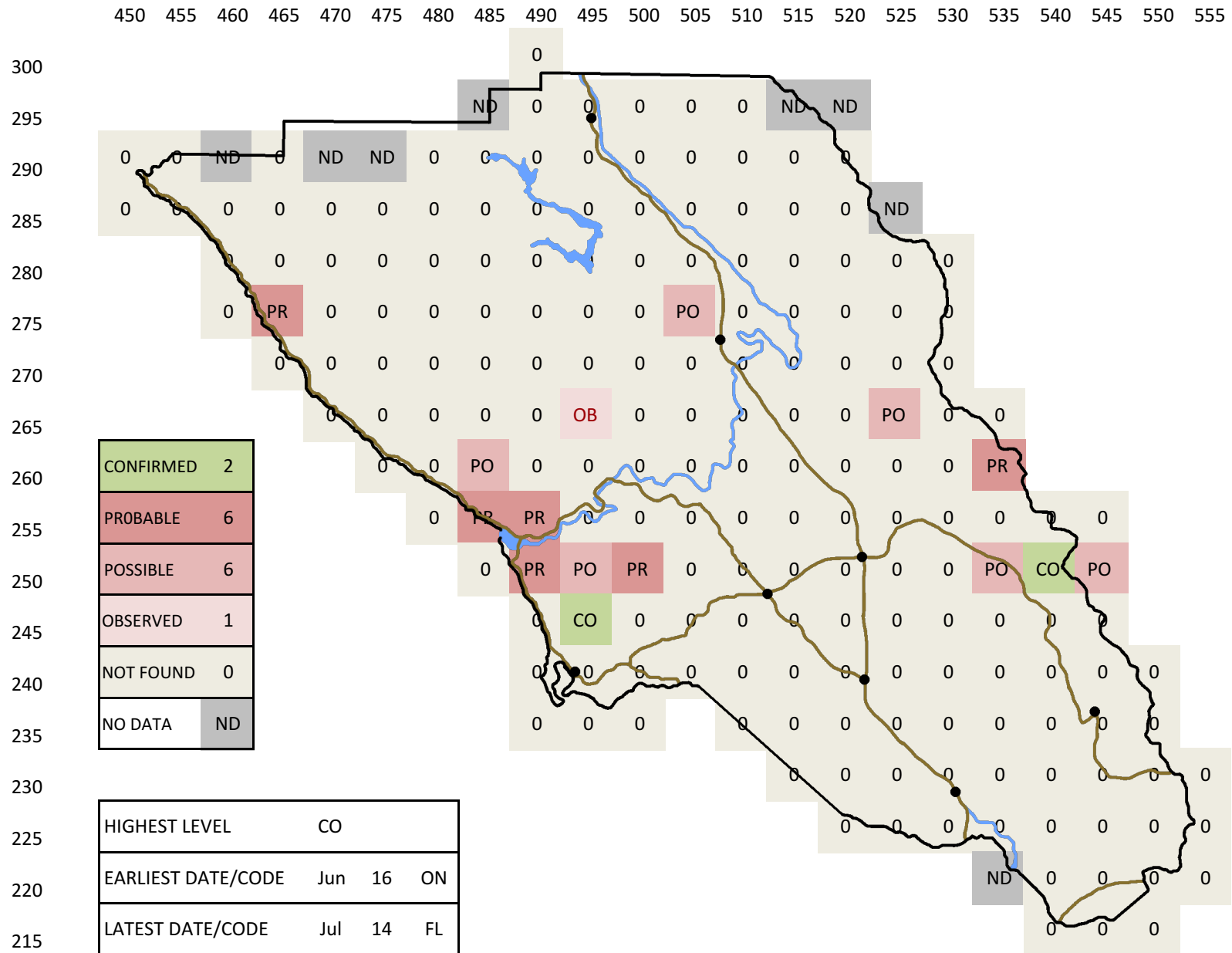
Atlas #2: 2011-2016

BURROWING OWL



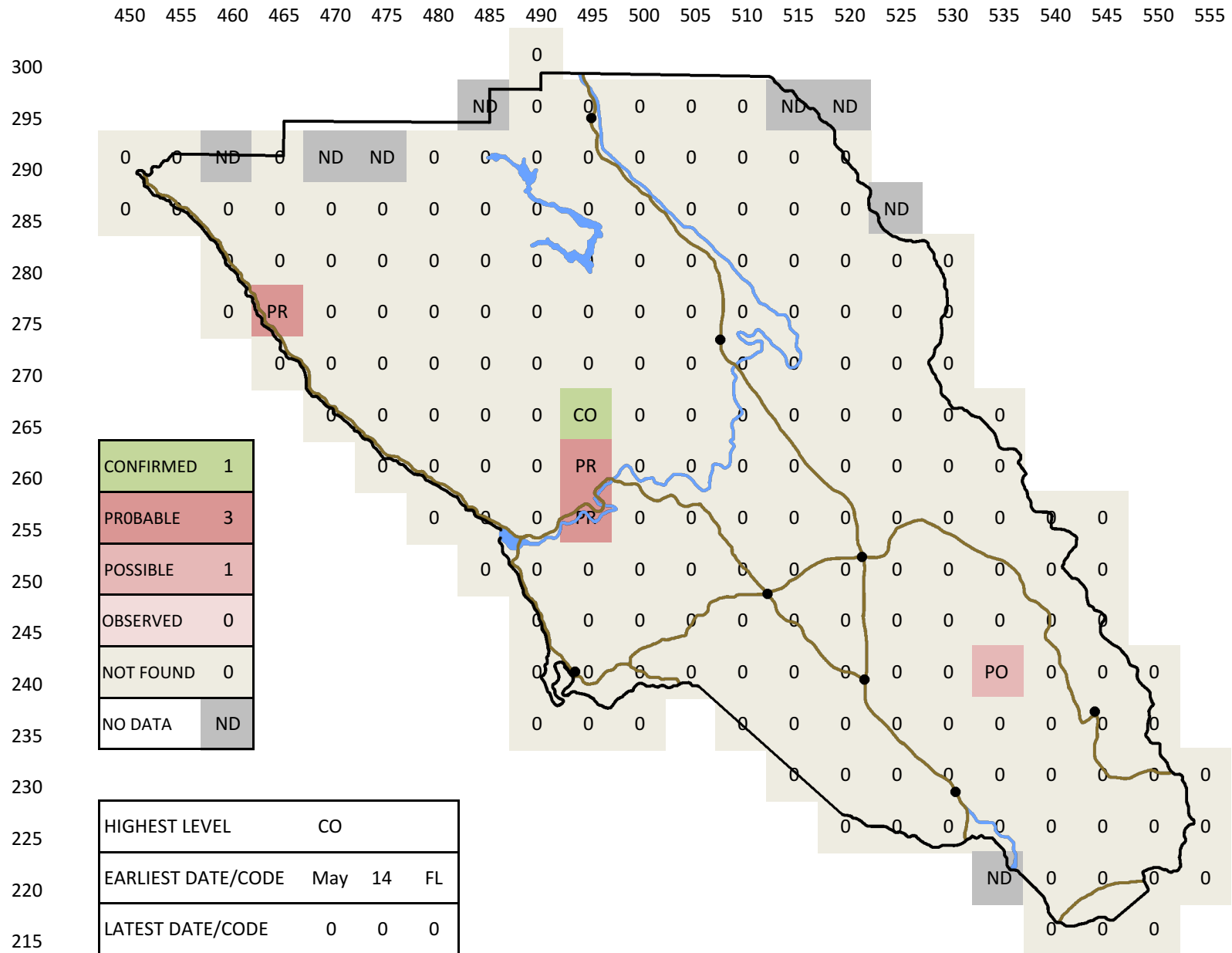
Atlas #2: 2011-2016

SPOTTED OWL



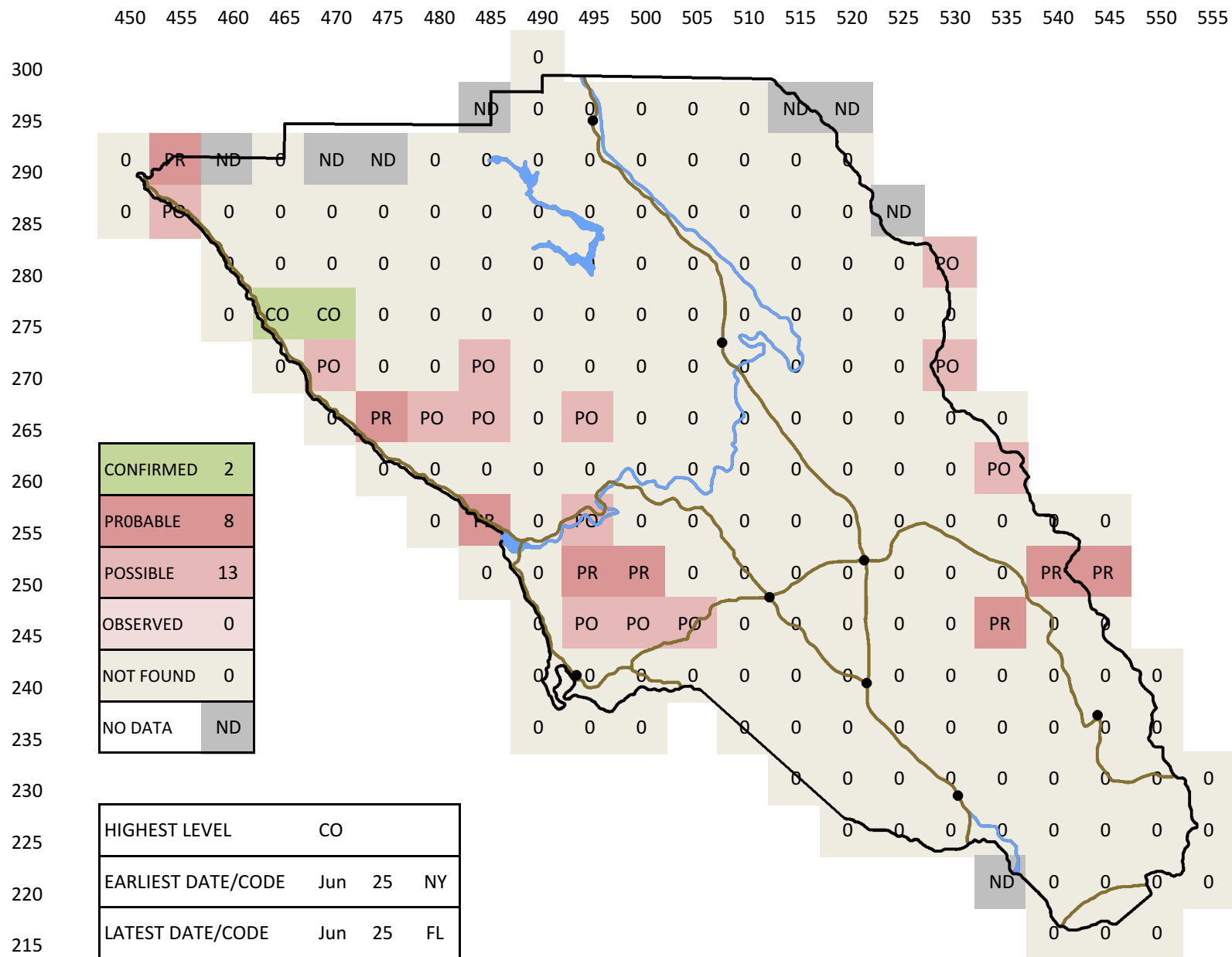
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BARRED OWL



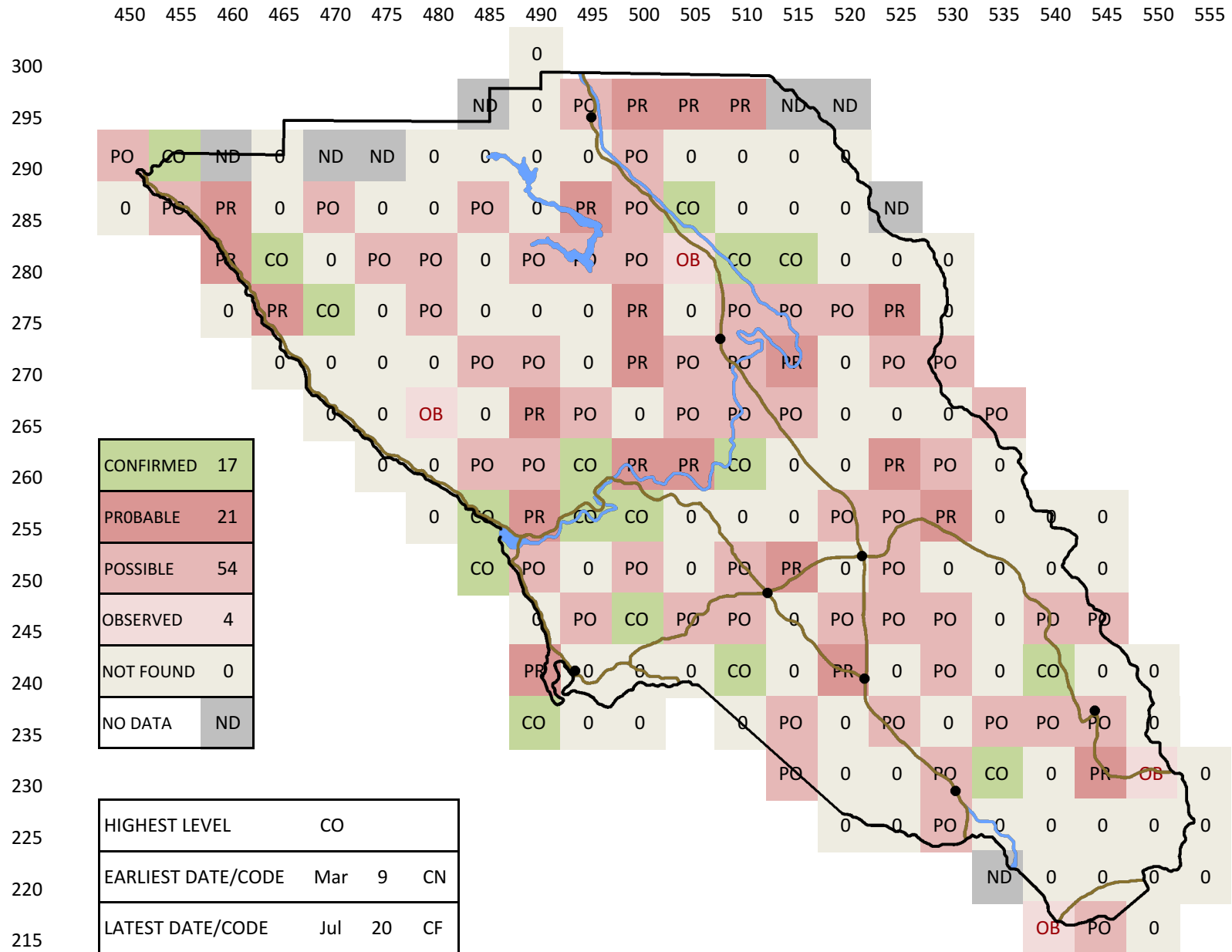
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NORTHERN SAW-WHET OWL



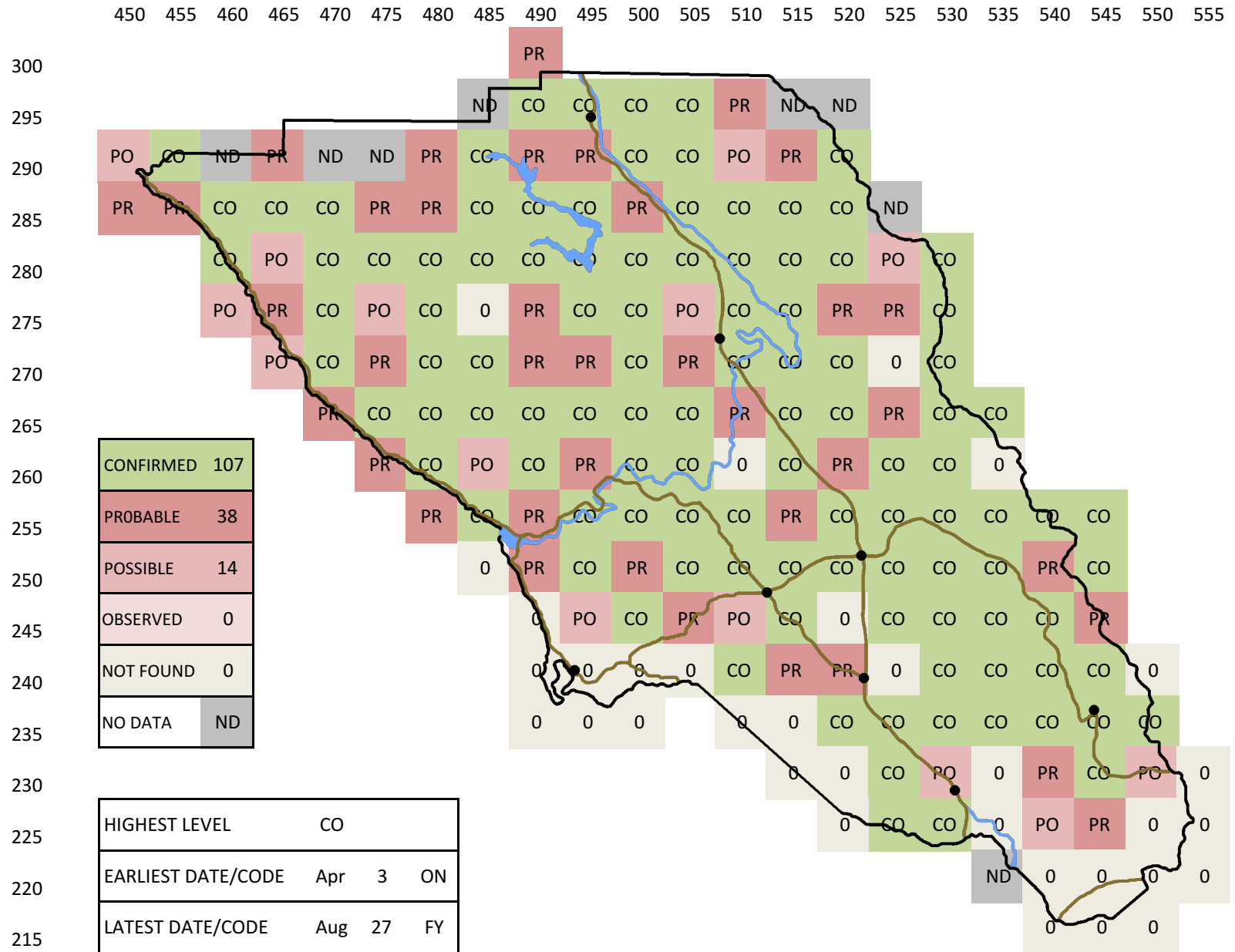
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BELTED KINGFISHER



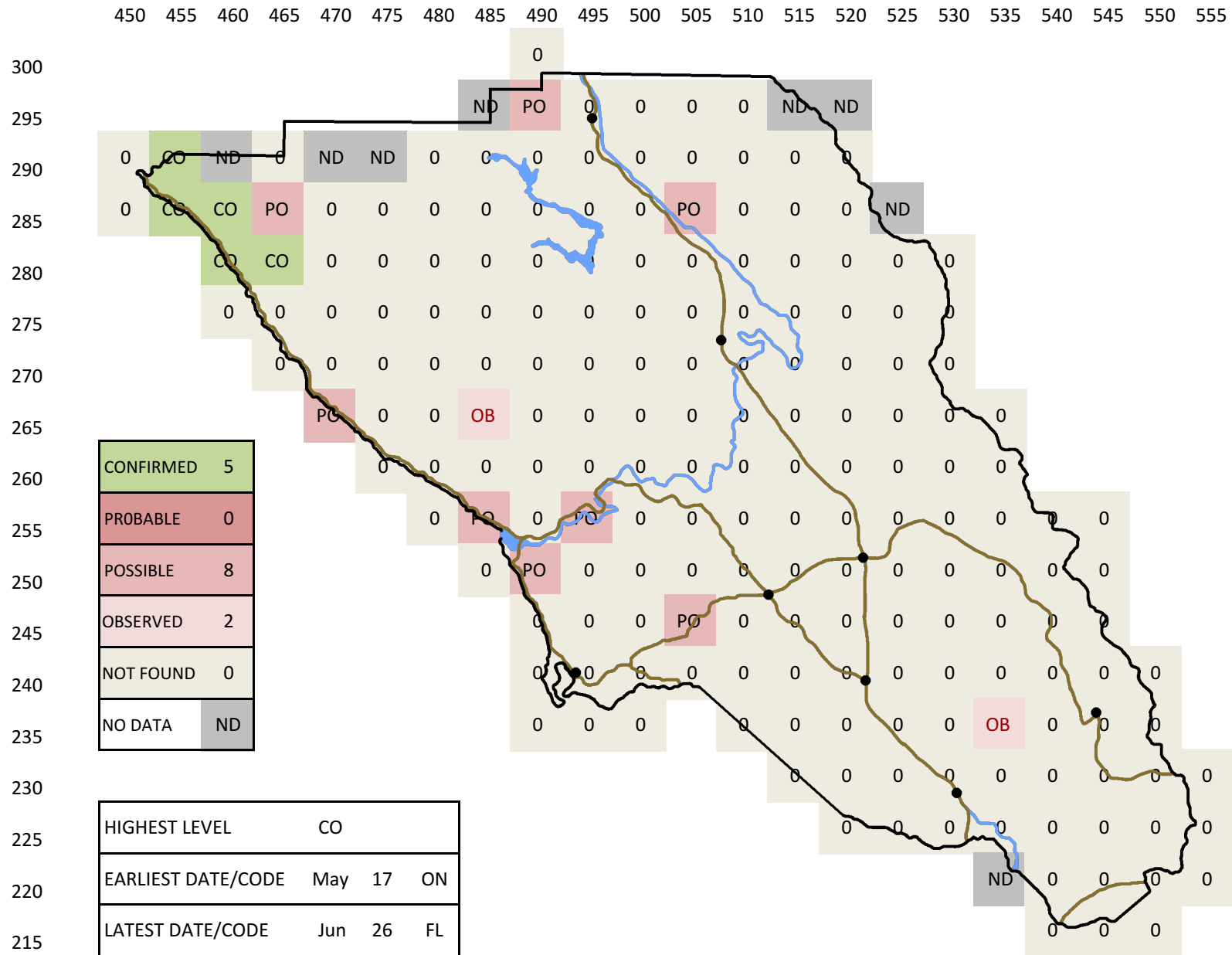
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ACORN WOODPECKER



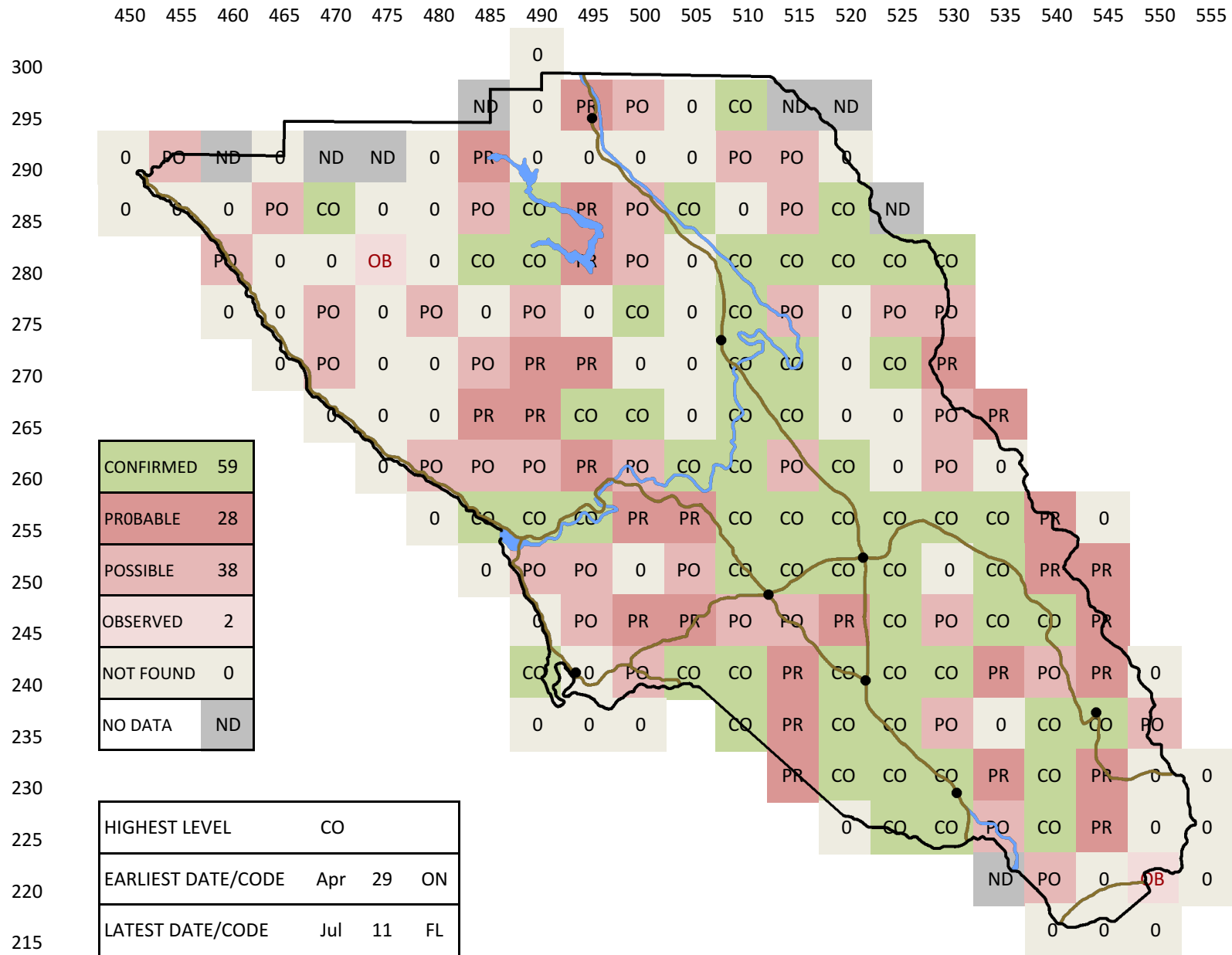
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RED-BREASTED SAPSUCKER

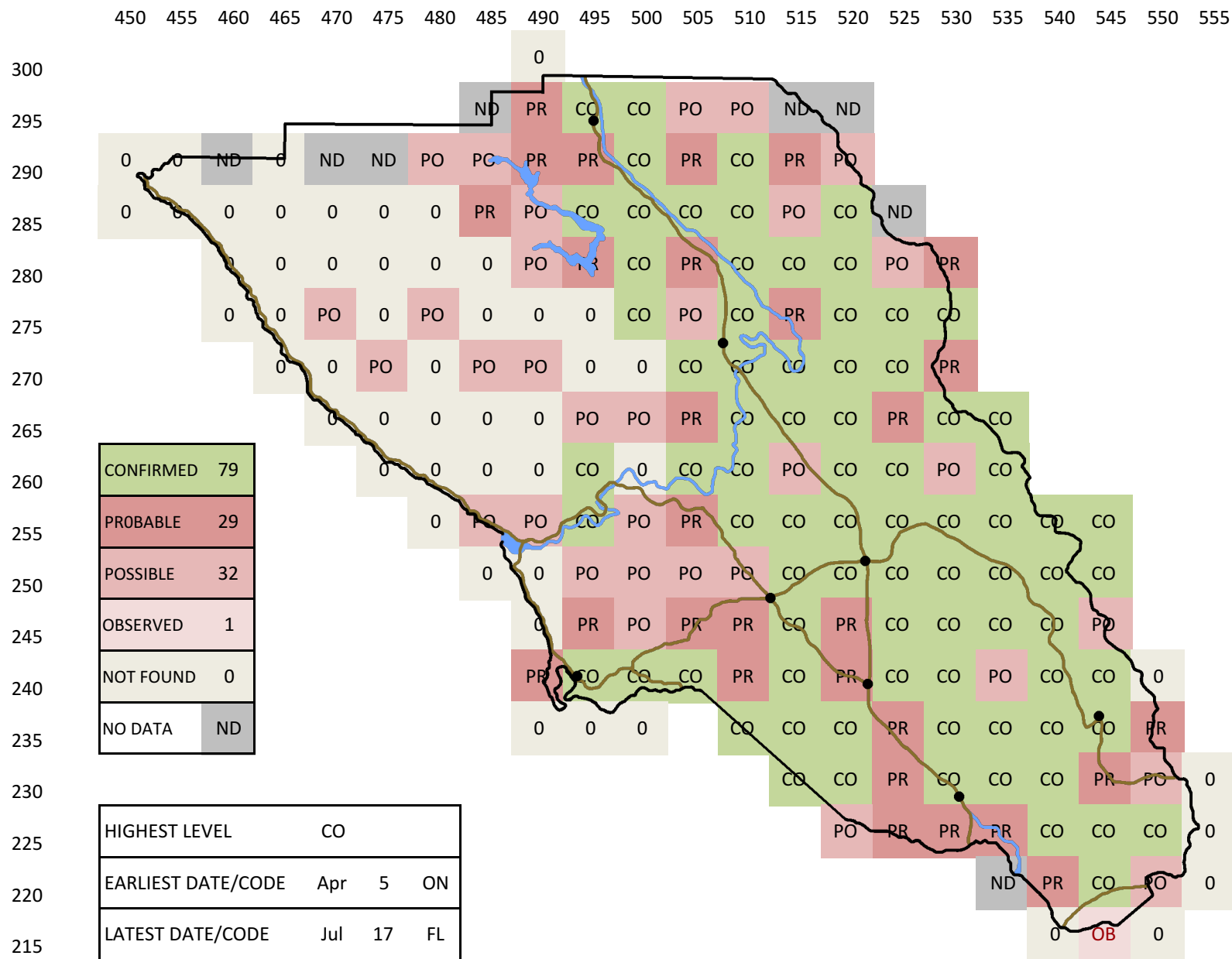


Atlas #2: 2011-2016

DOWNY WOODPECKER

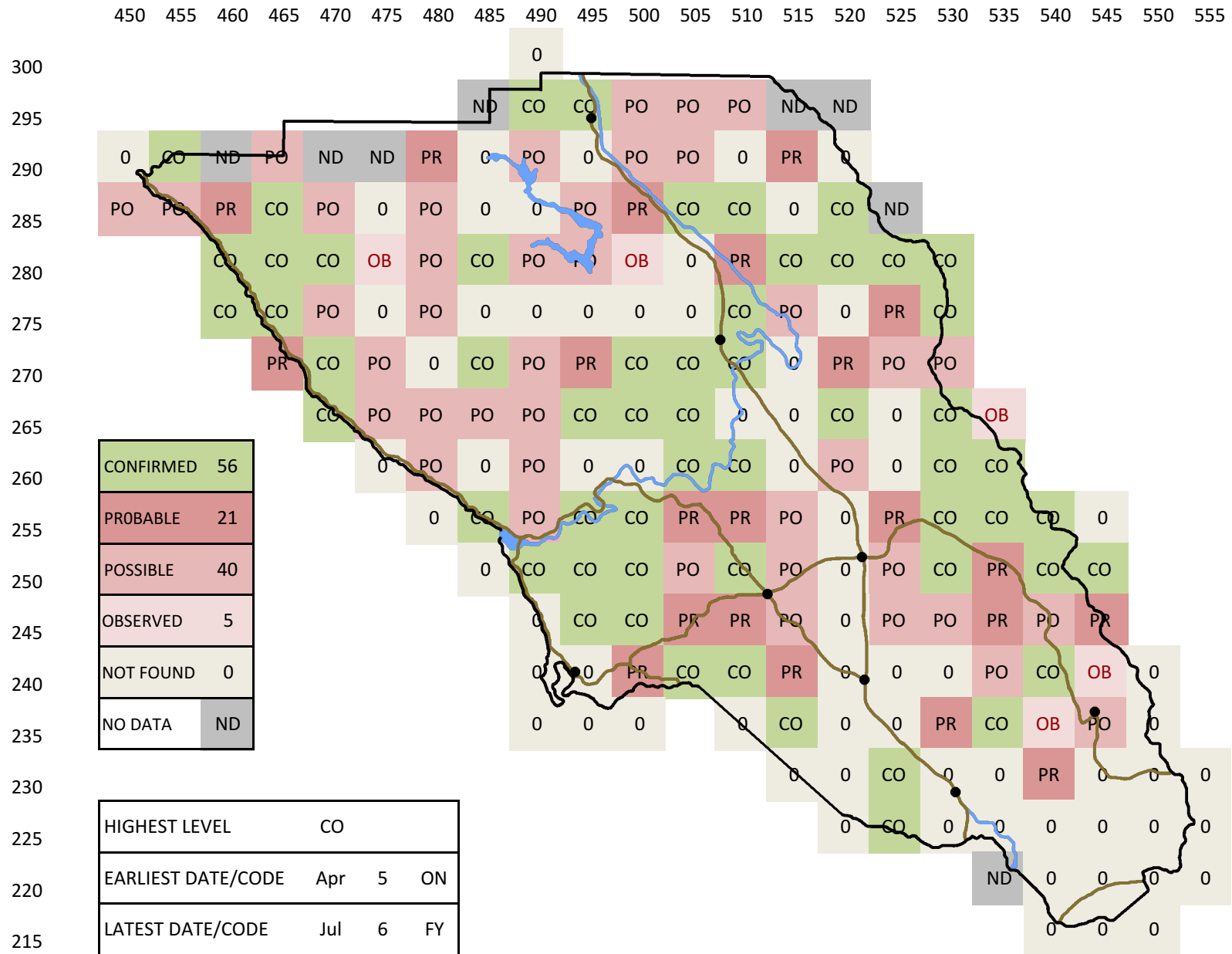


NUTTALL'S WOODPECKER



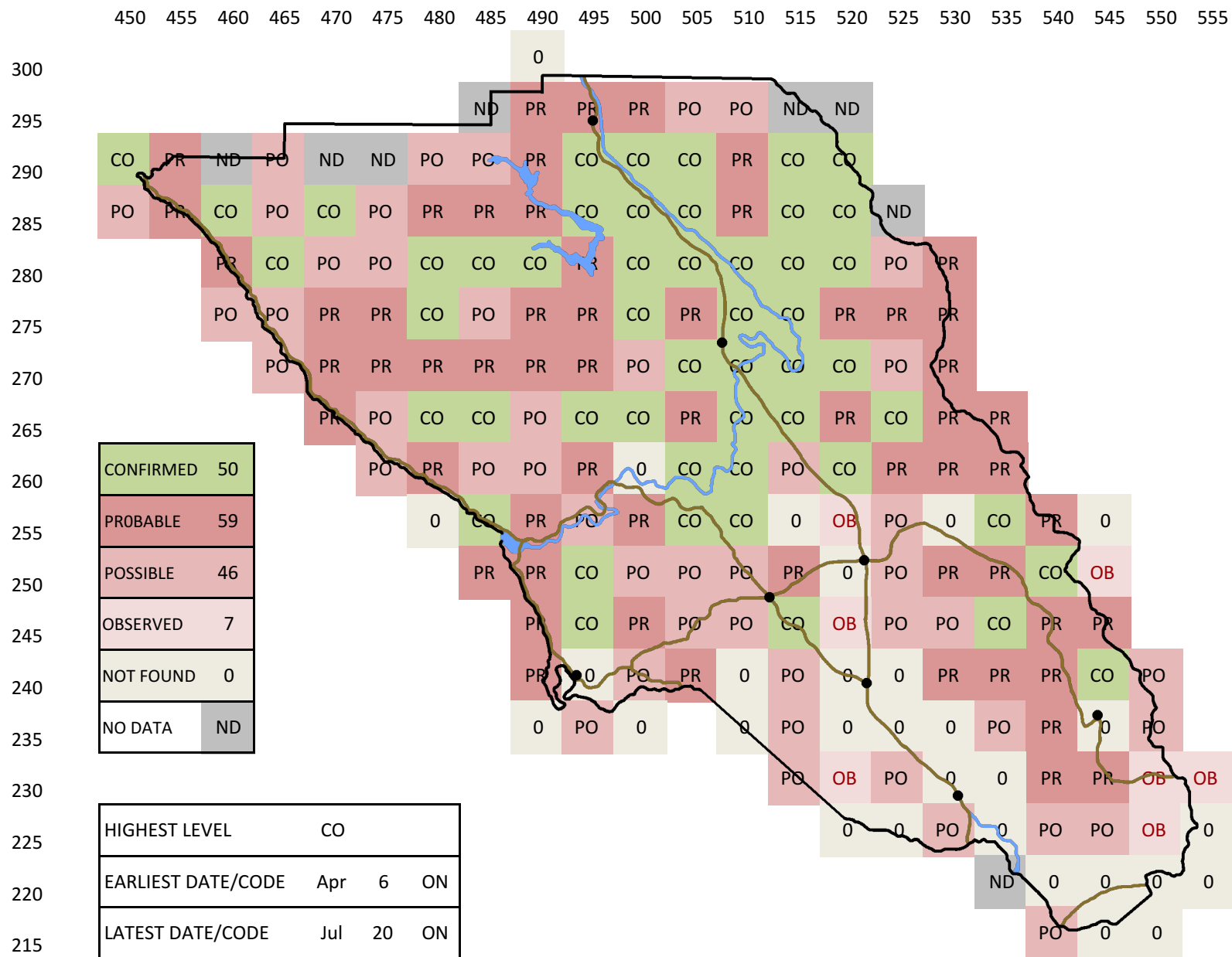
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HAIRY WOODPECKER



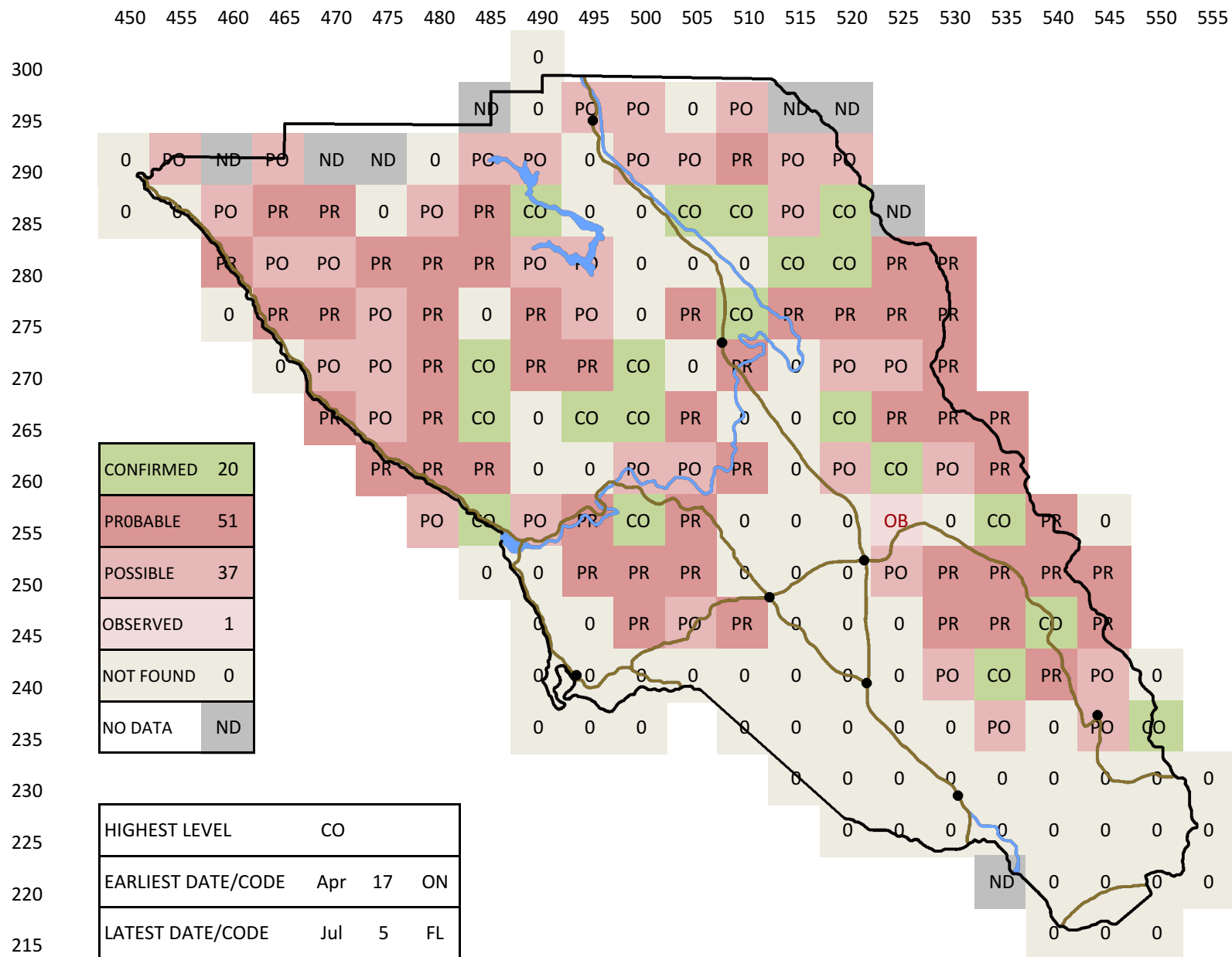
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NORTHERN FLICKER



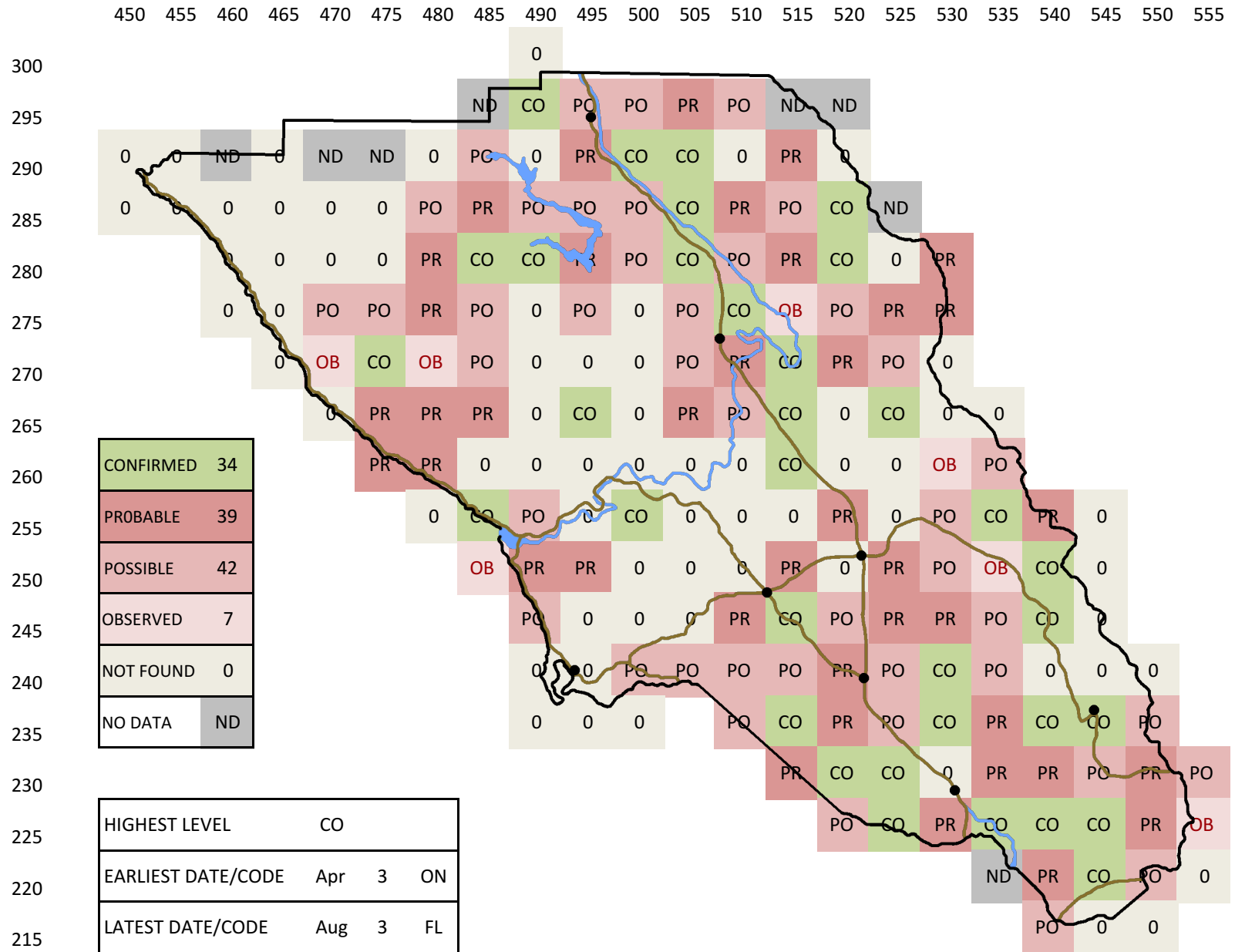
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PILEATED WOODPECKER



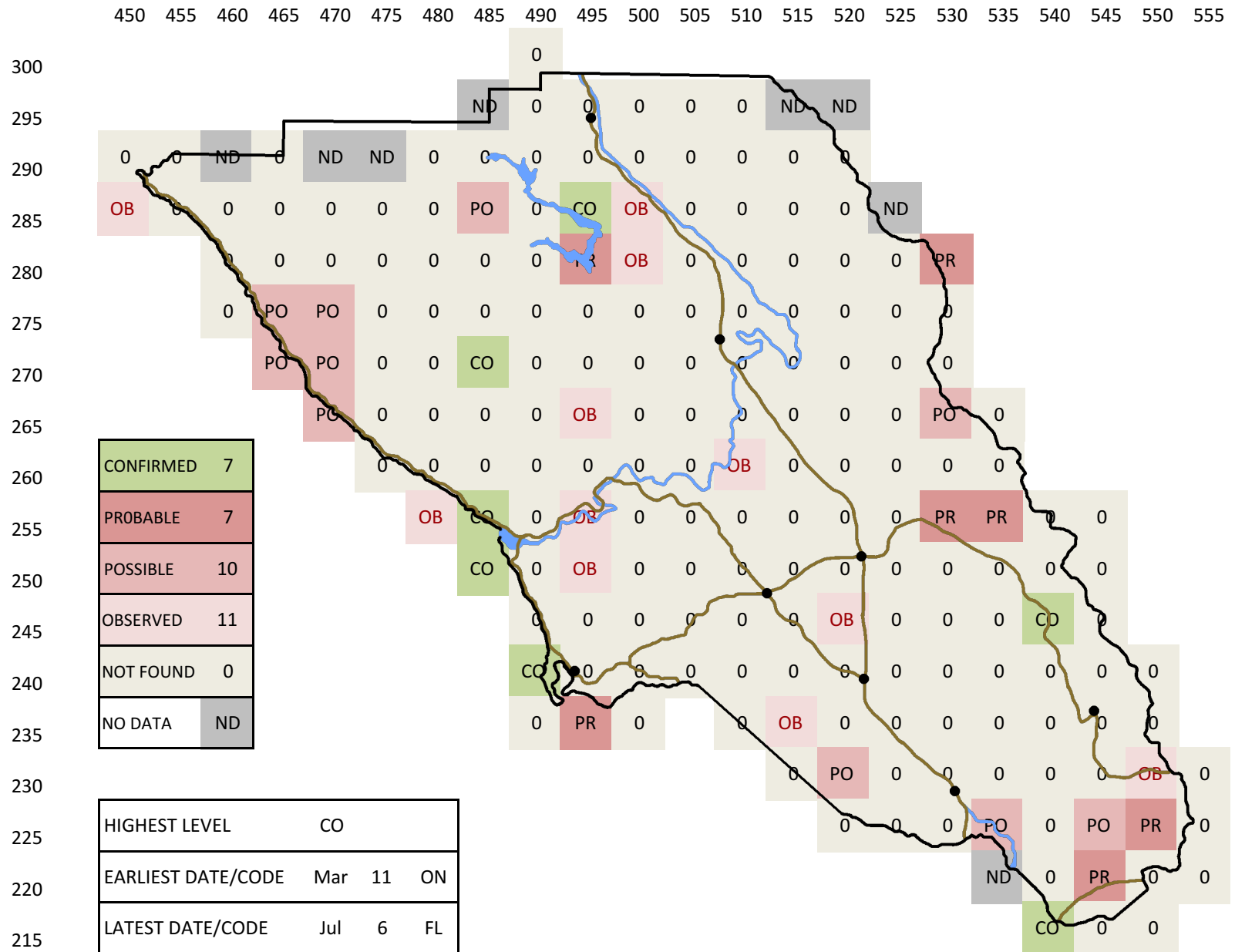
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AMERICAN KESTREL

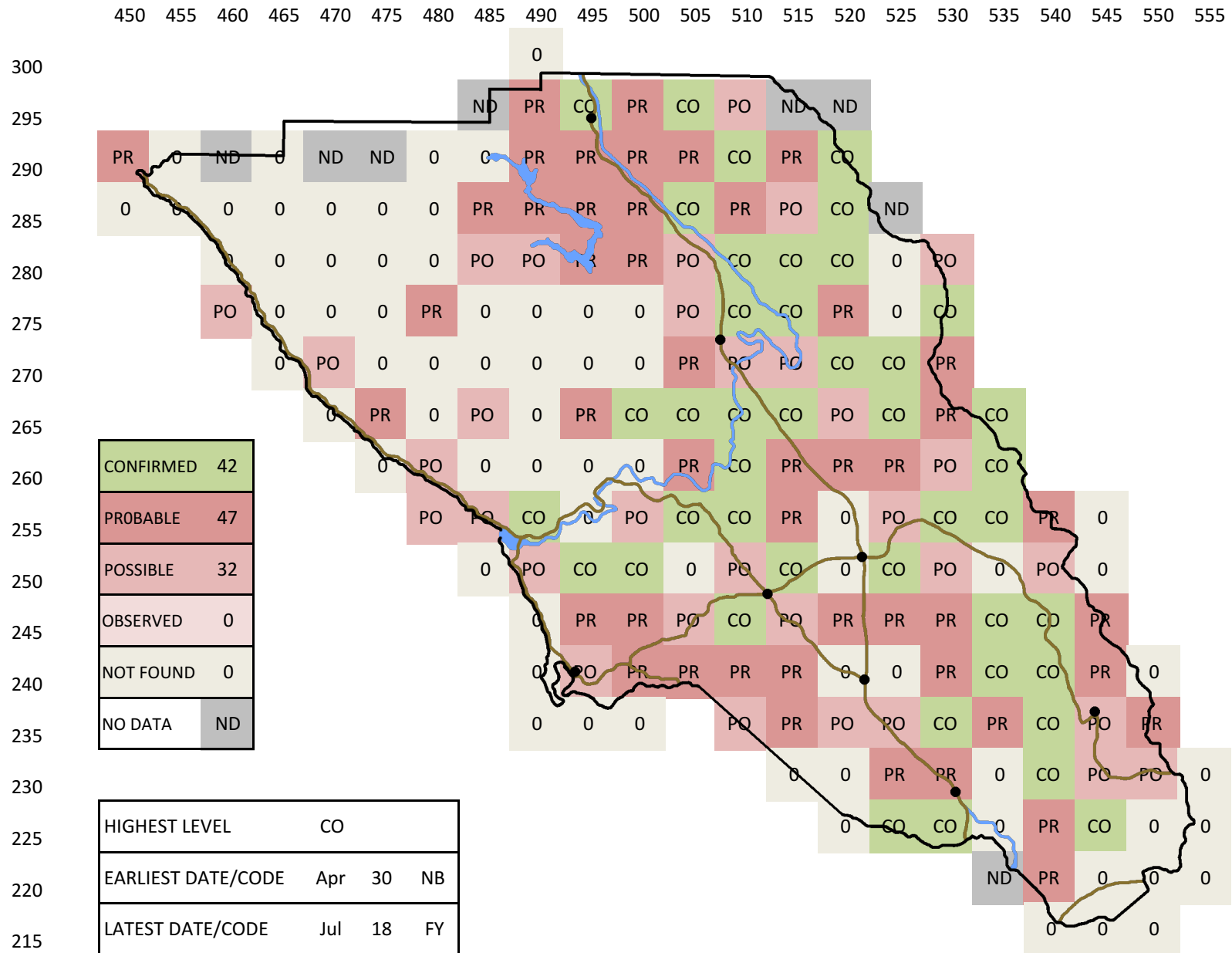


Atlas #2: 2011-2016

PEREGRINE FALCON

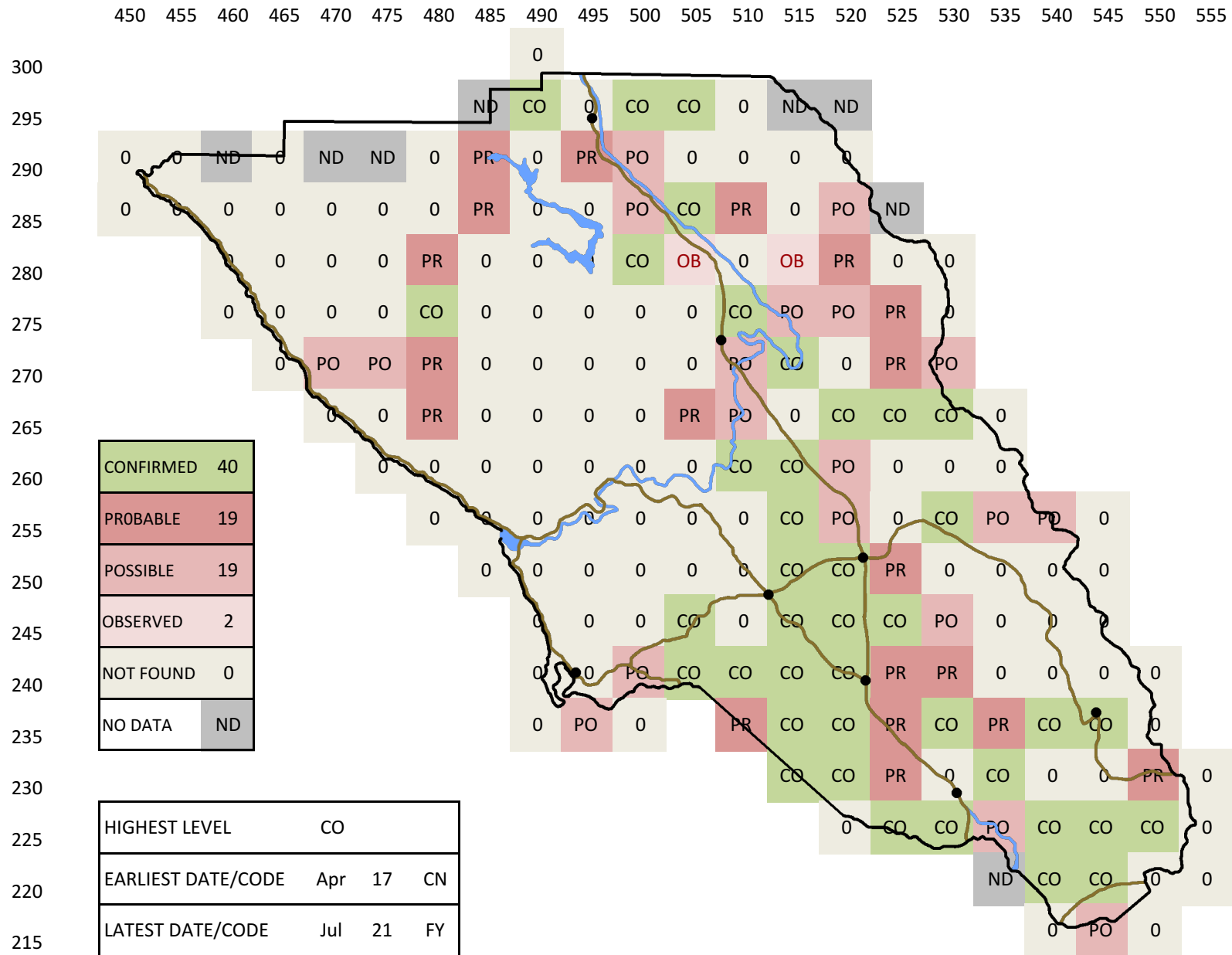


ASH-THROATED FLYCATCHER



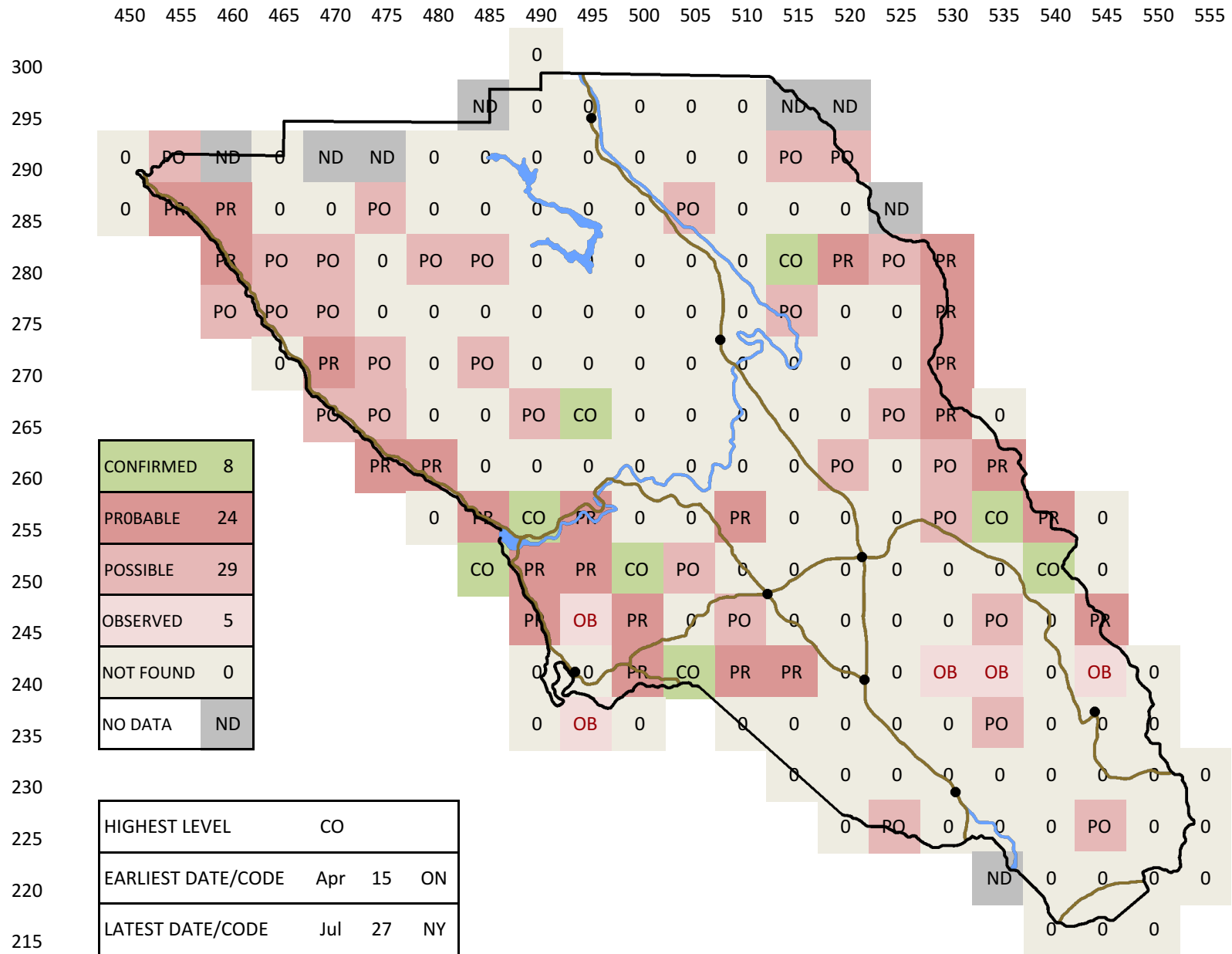
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WESTERN KINGBIRD



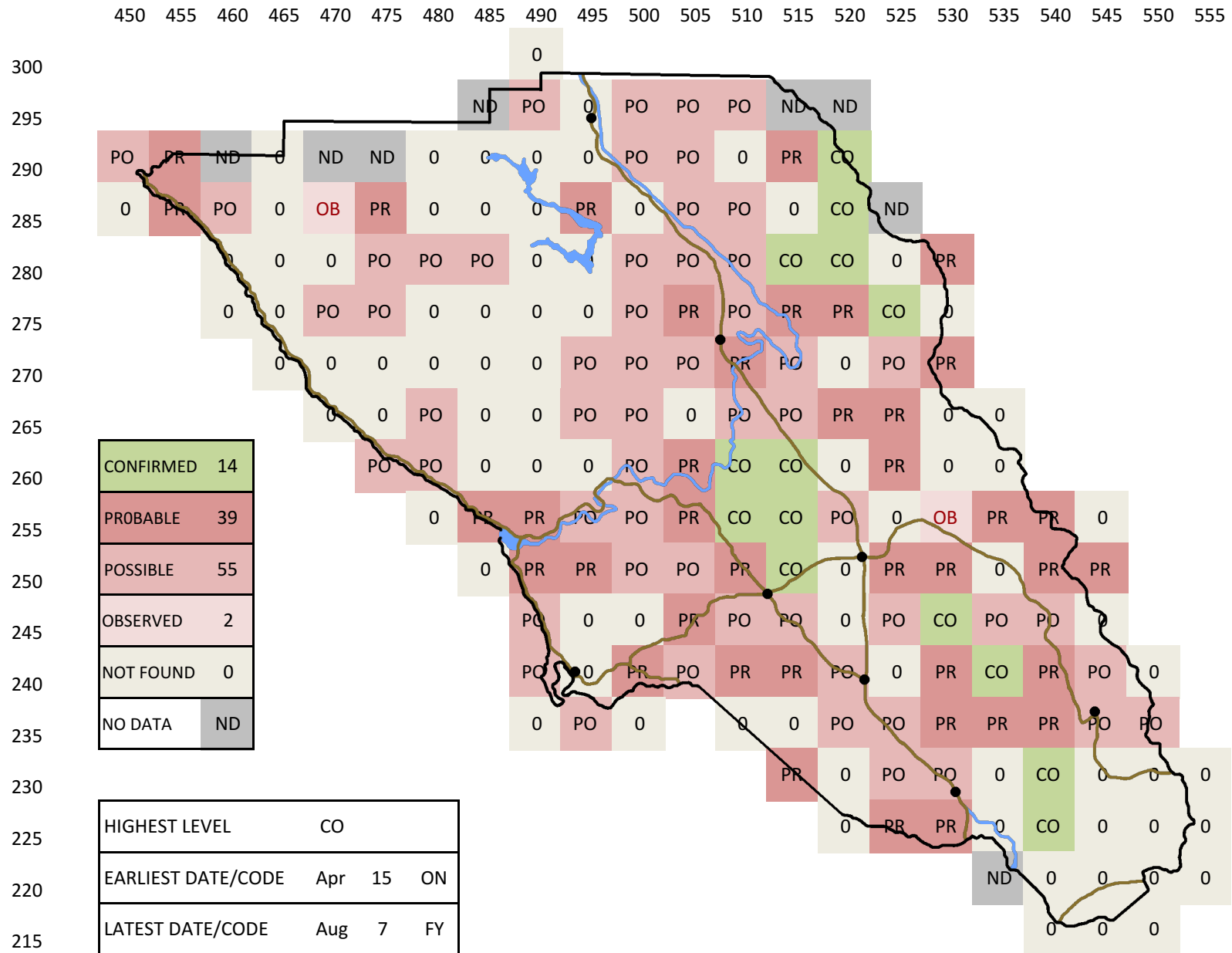
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OLIVE-SIDED FLYCATCHER



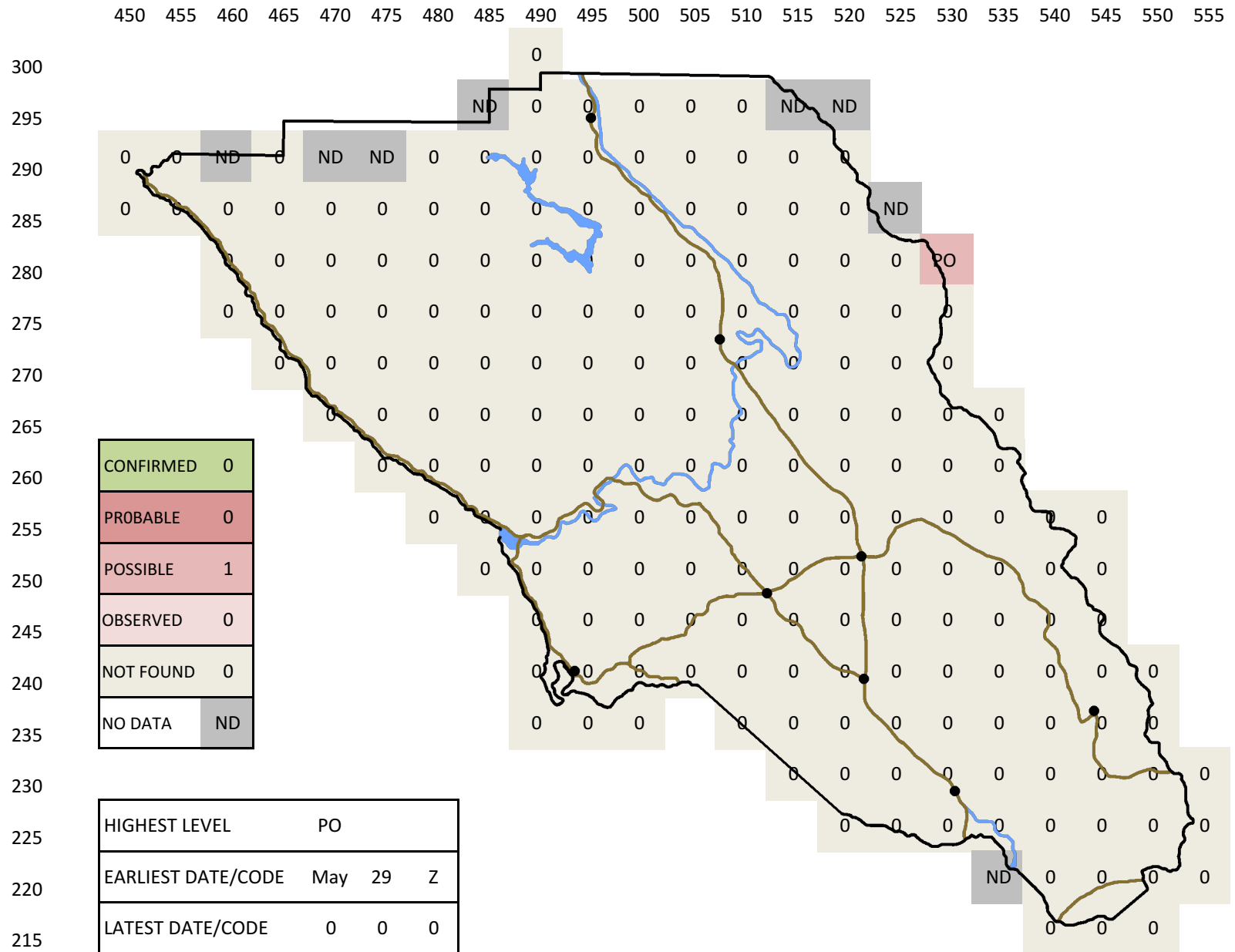
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WESTERN WOOD-PEWEE

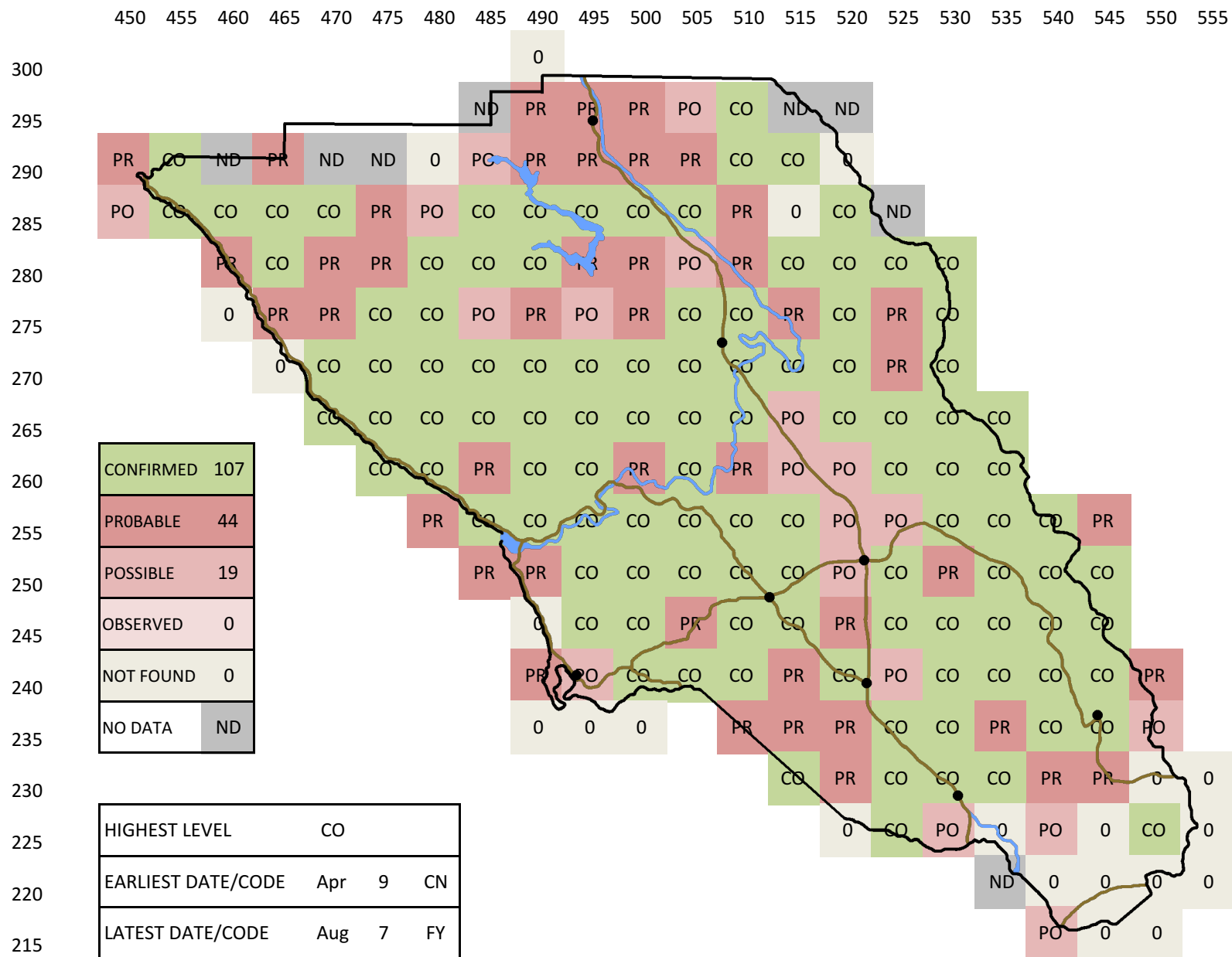


Atlas #2: 2011-2016

DUSKY FLYCATCHER

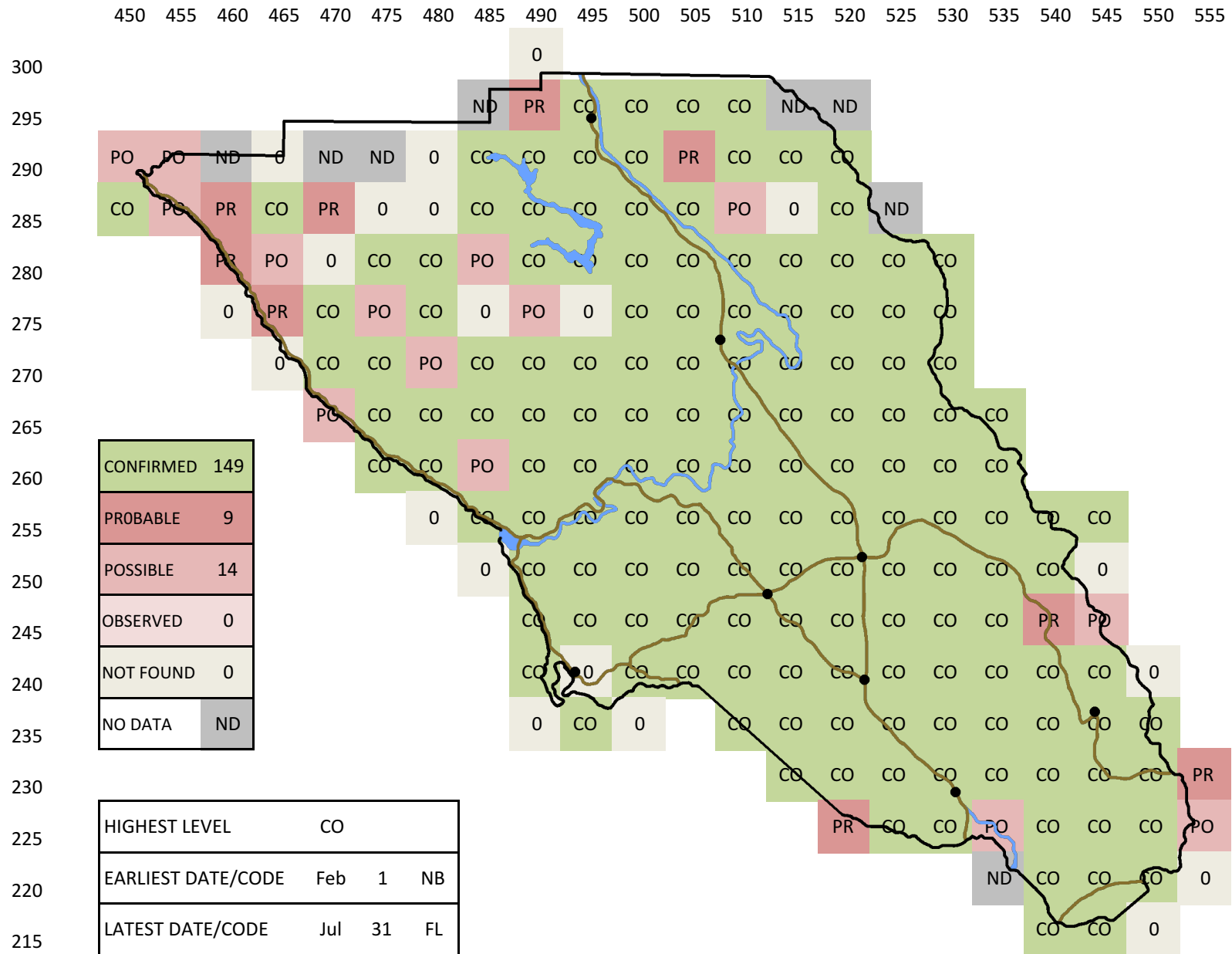


PACIFIC-SLOPE FLYCATCHER



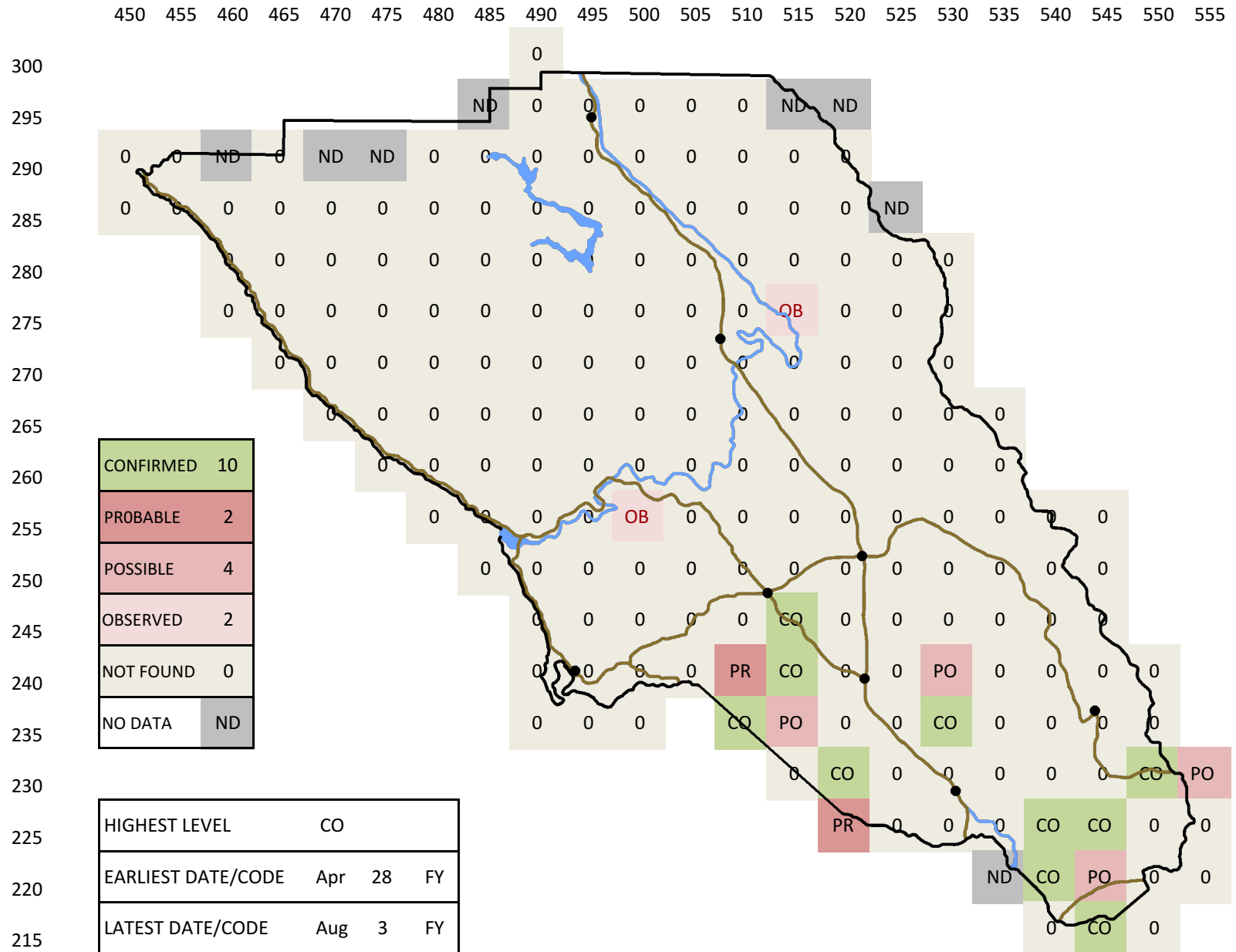
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BLACK PHOEBE



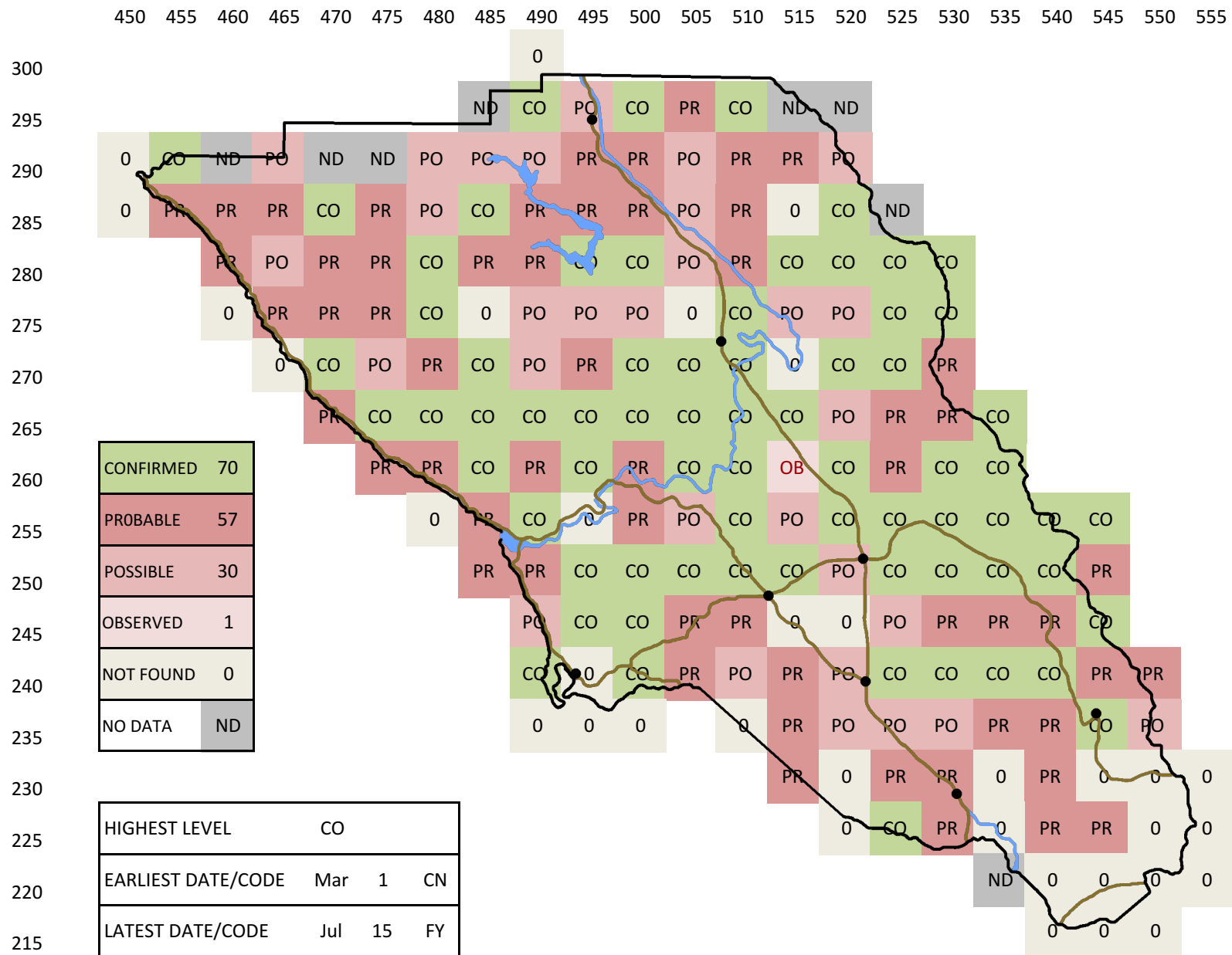
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LOGGERHEAD SHRIKE



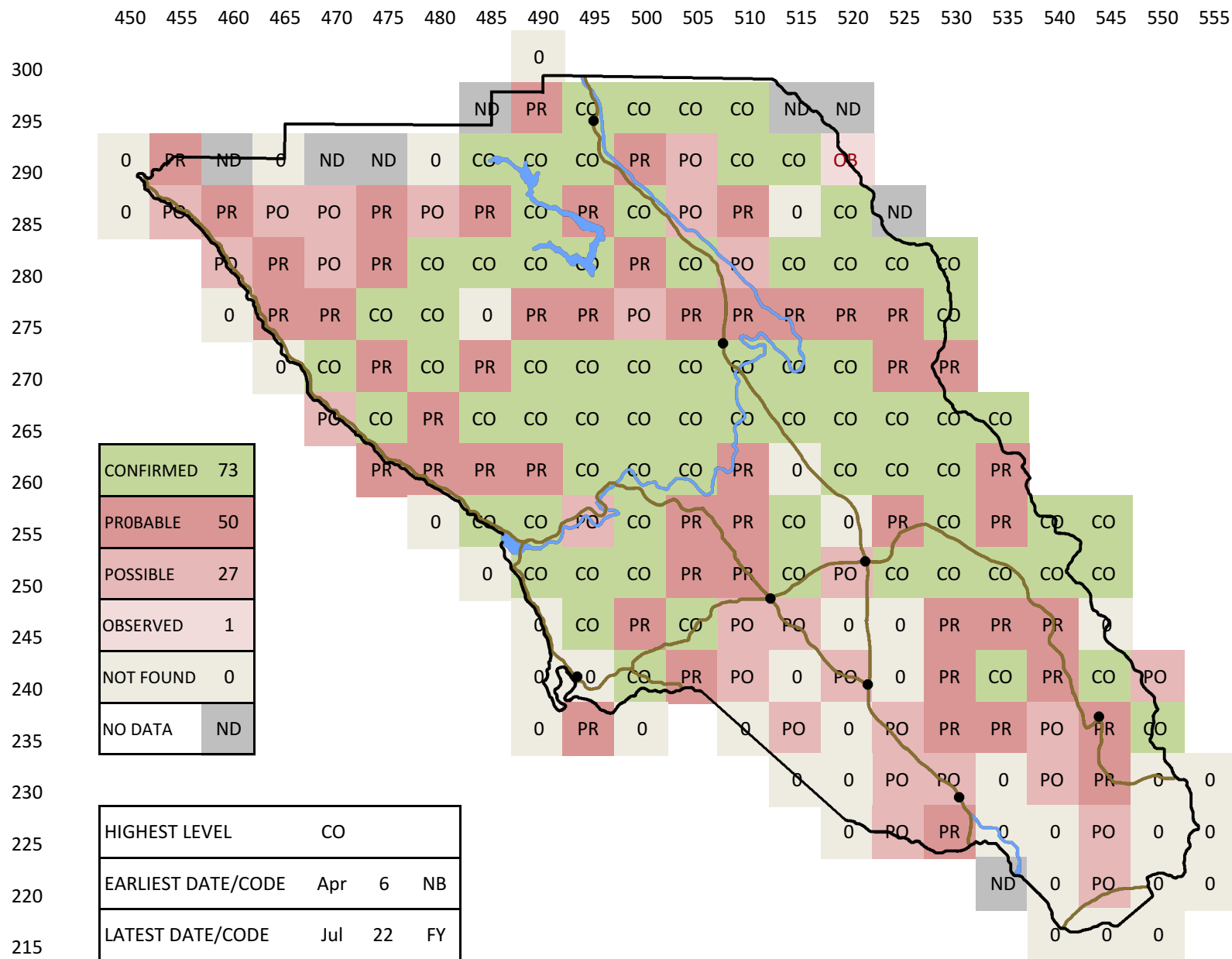
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HUTTON'S VIREO



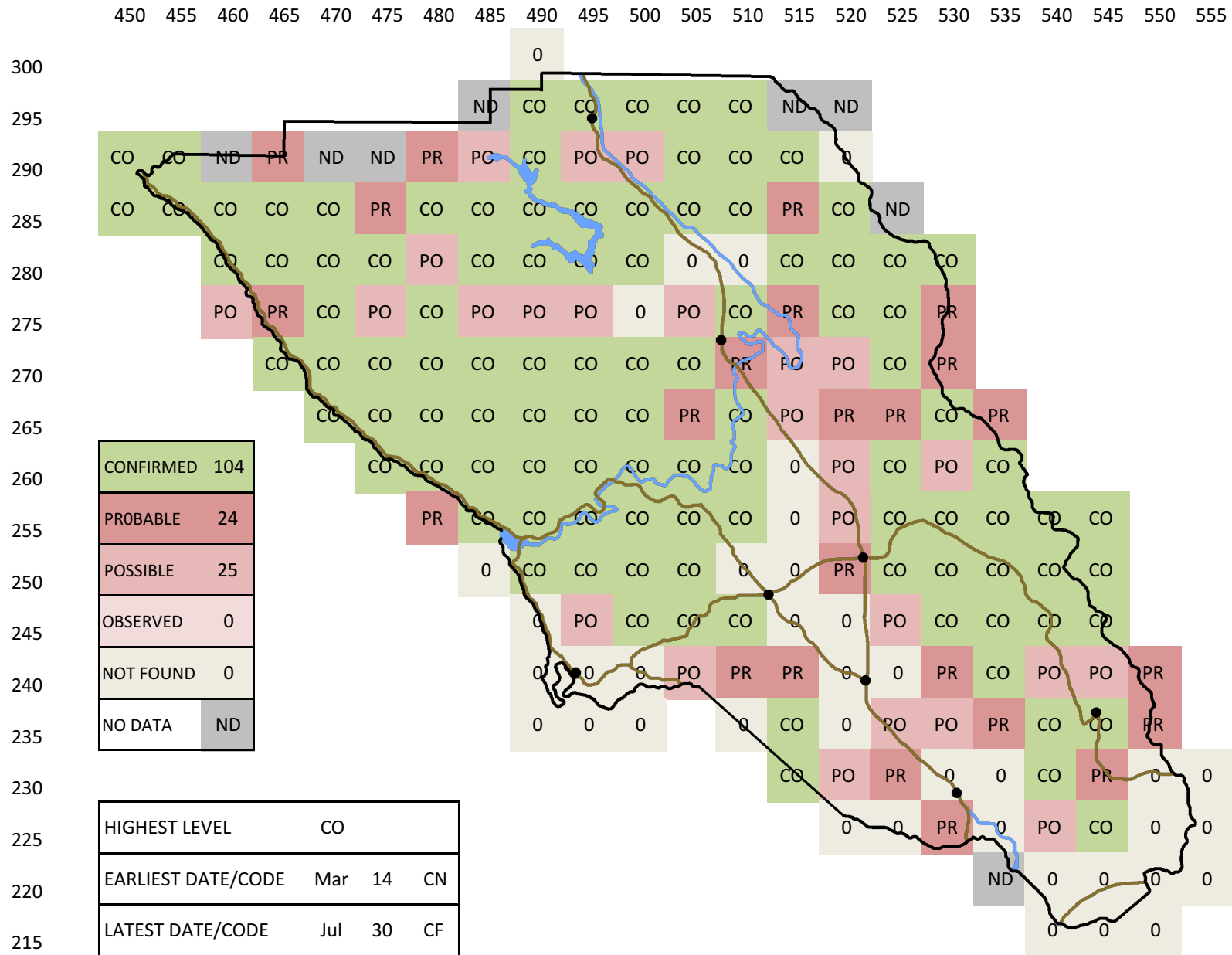
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WARBLING VIREO

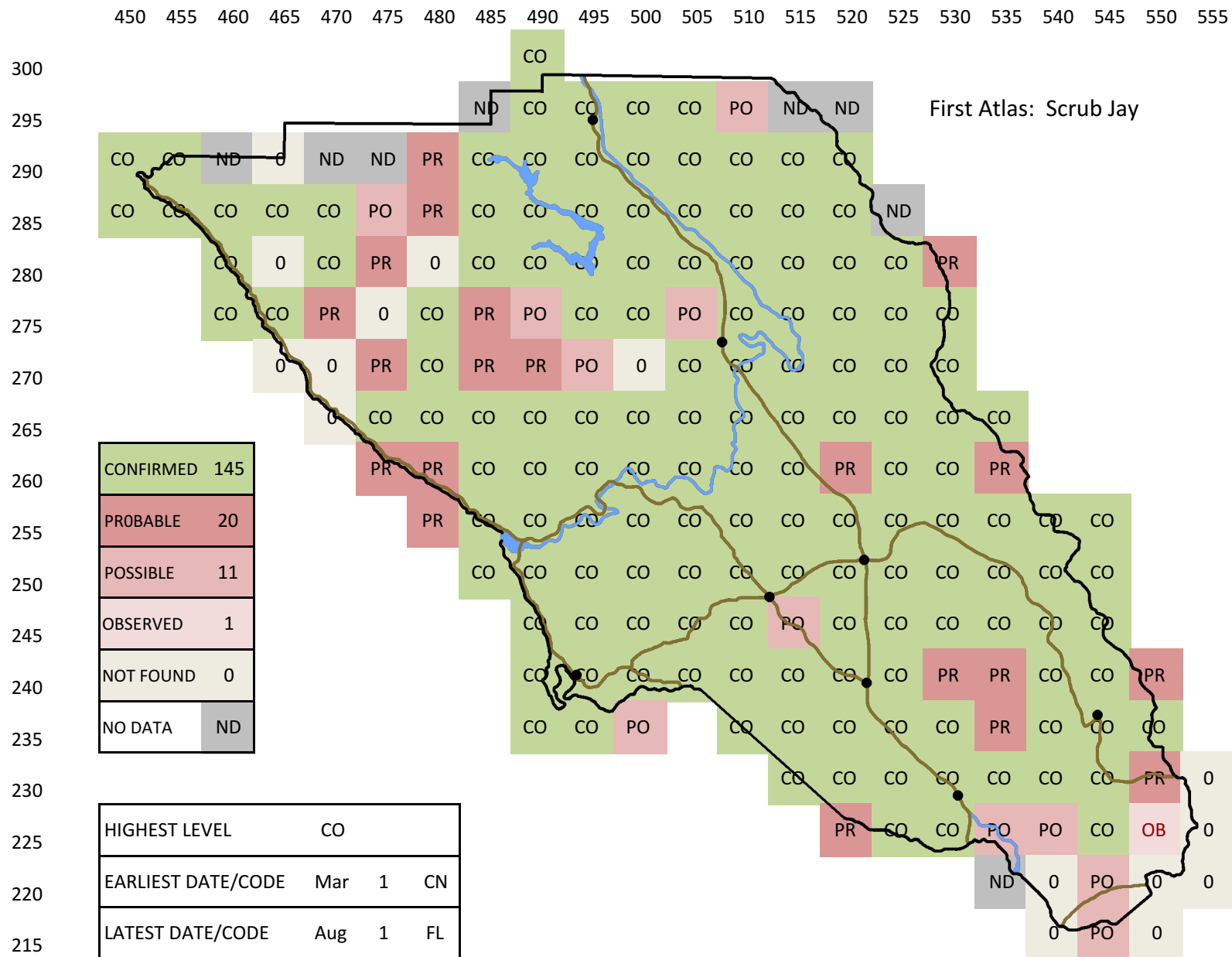


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STELLER'S JAY

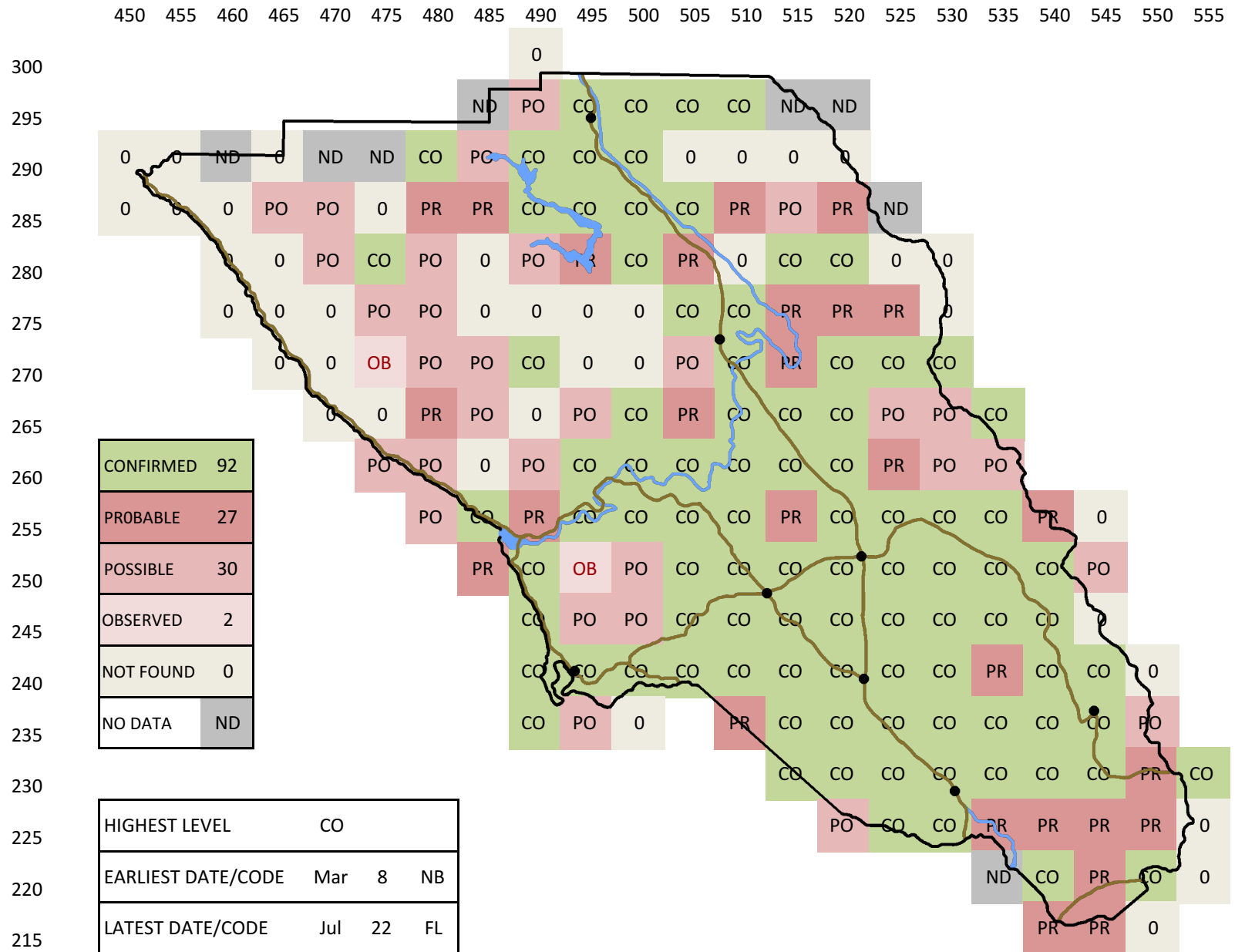


CALIFORNIA SCRUB-JAY



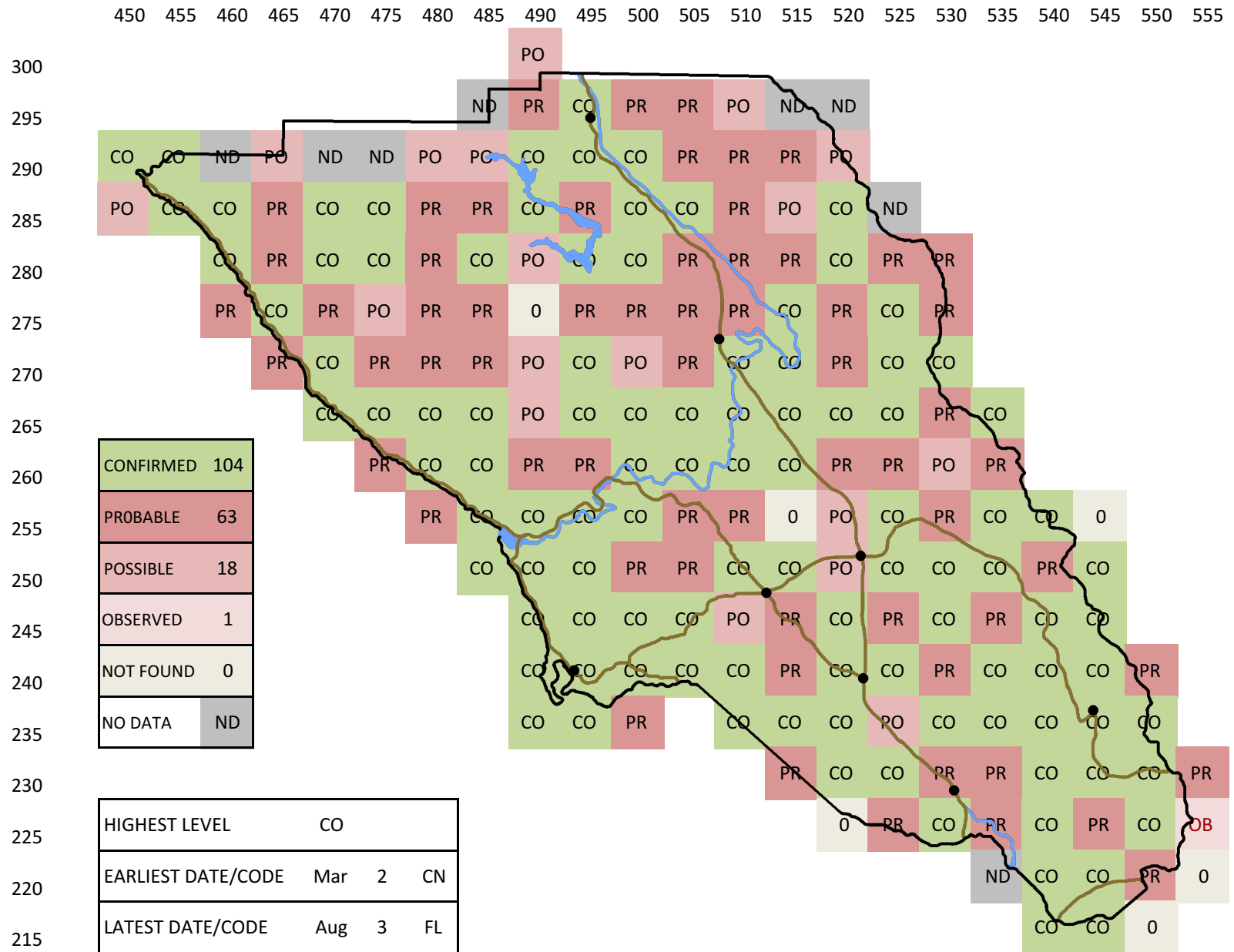
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AMERICAN CROW



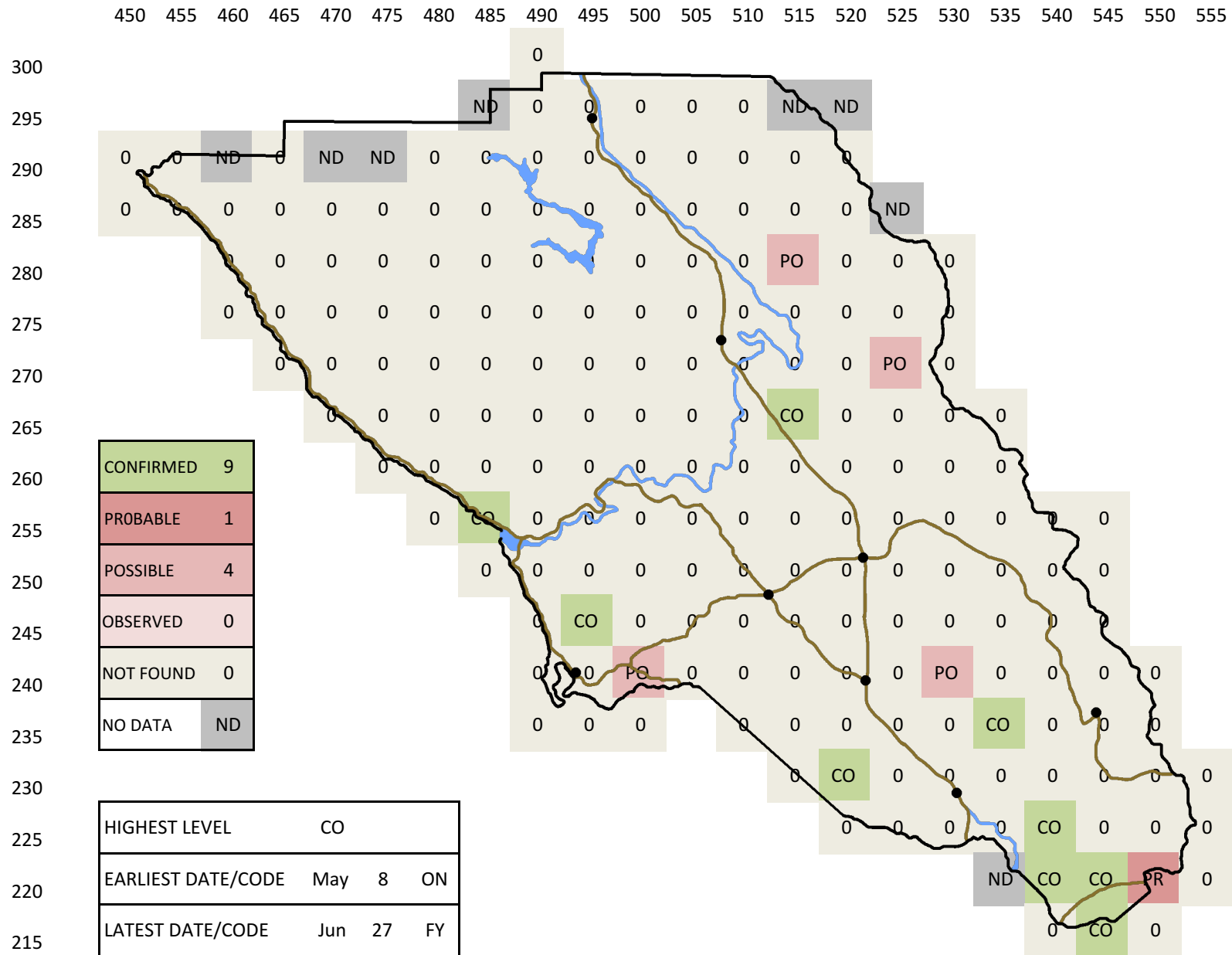
Atlas #2: 2011-2016

COMMON RAVEN



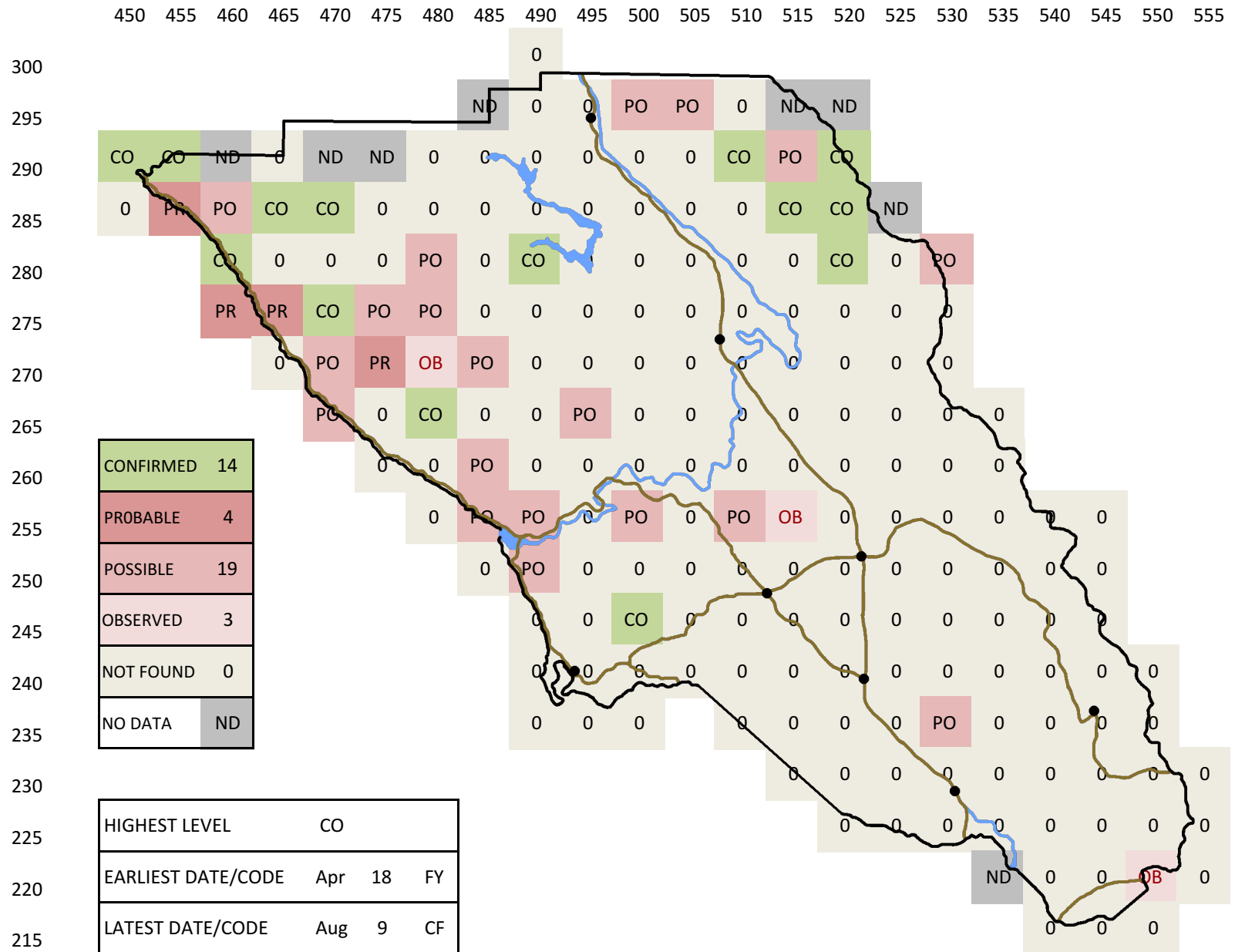
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HORNED LARK



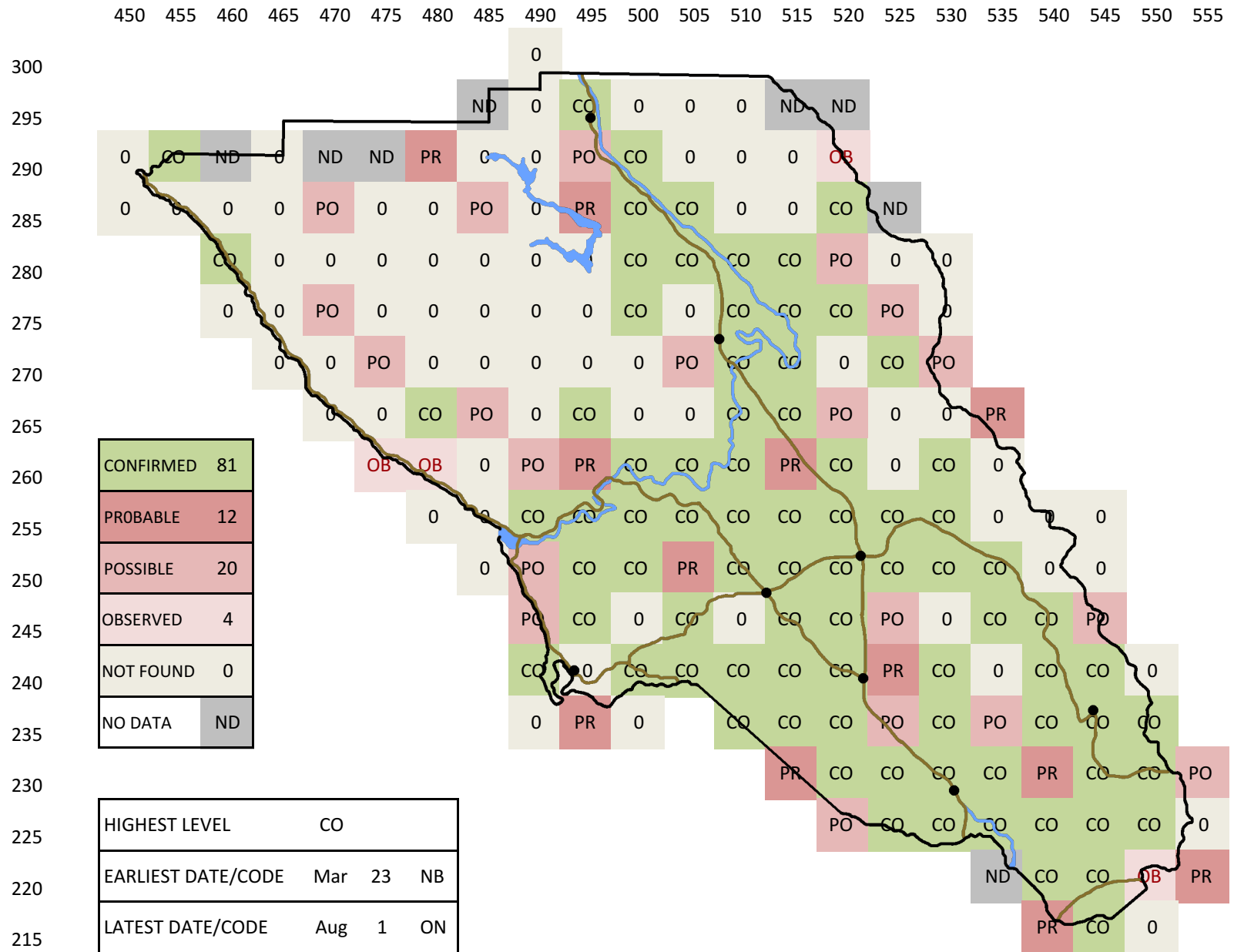
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PURPLE MARTIN



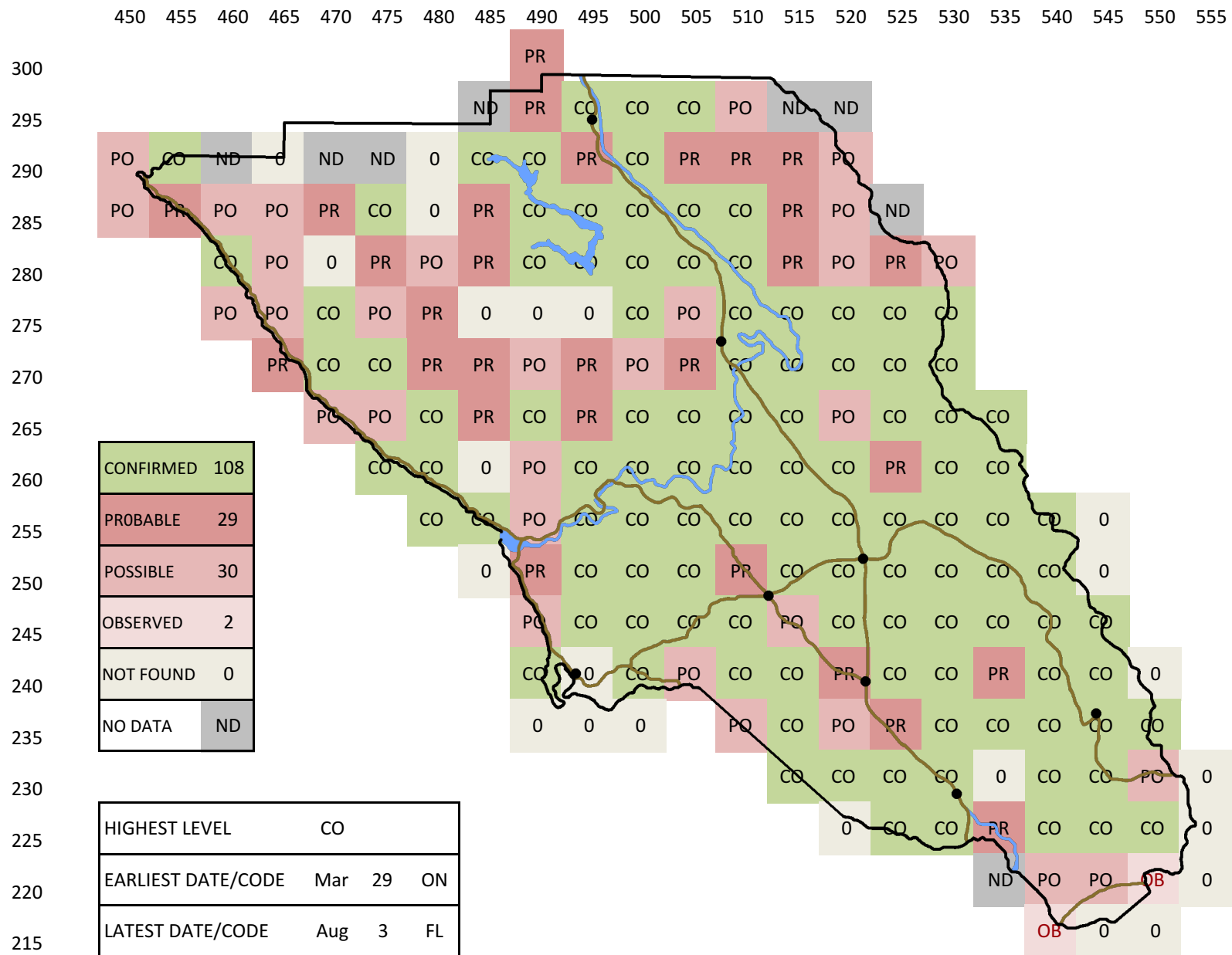
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TREE SWALLOW

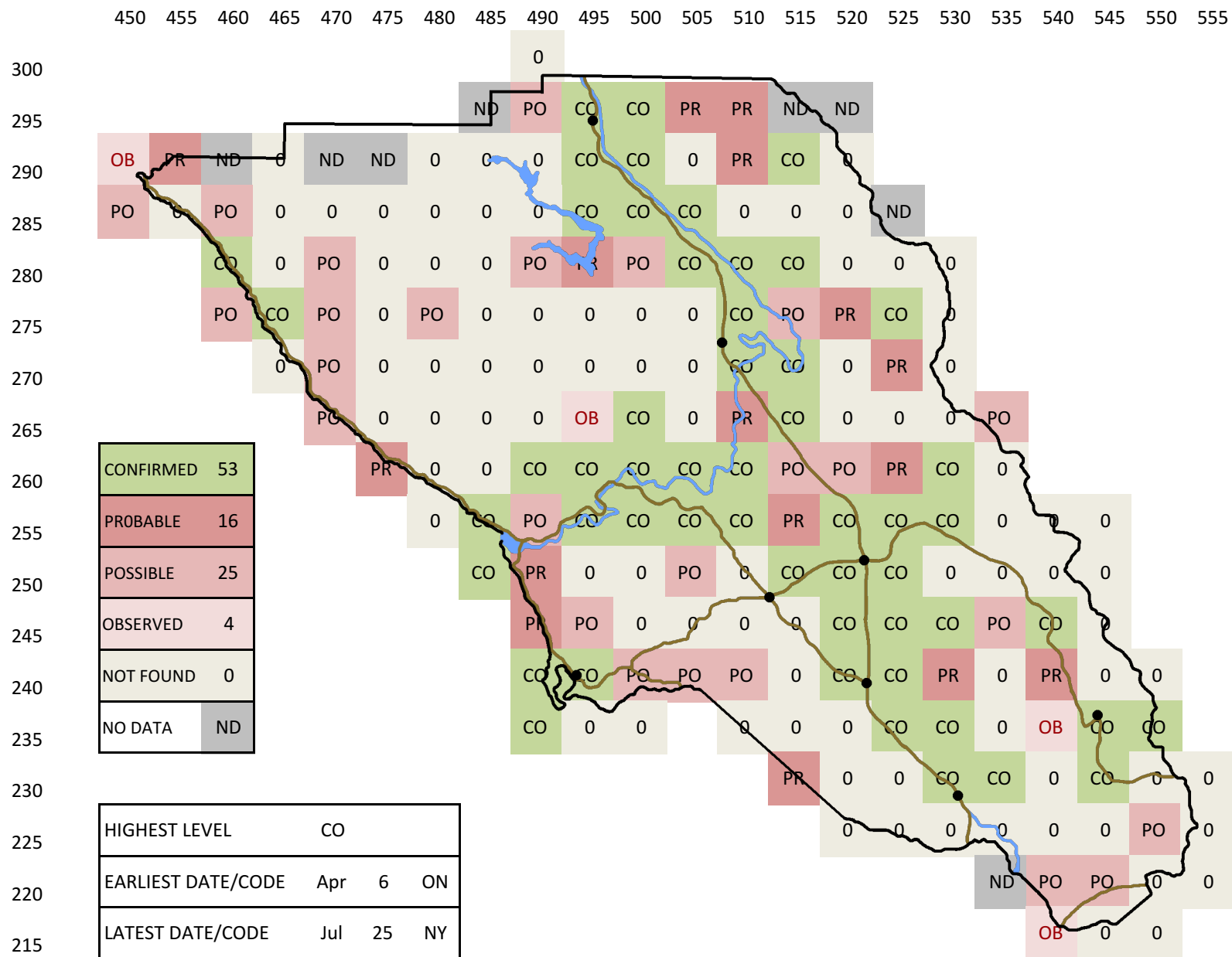


Atlas #2: 2011-2016

VIOLET-GREEN SWALLOW

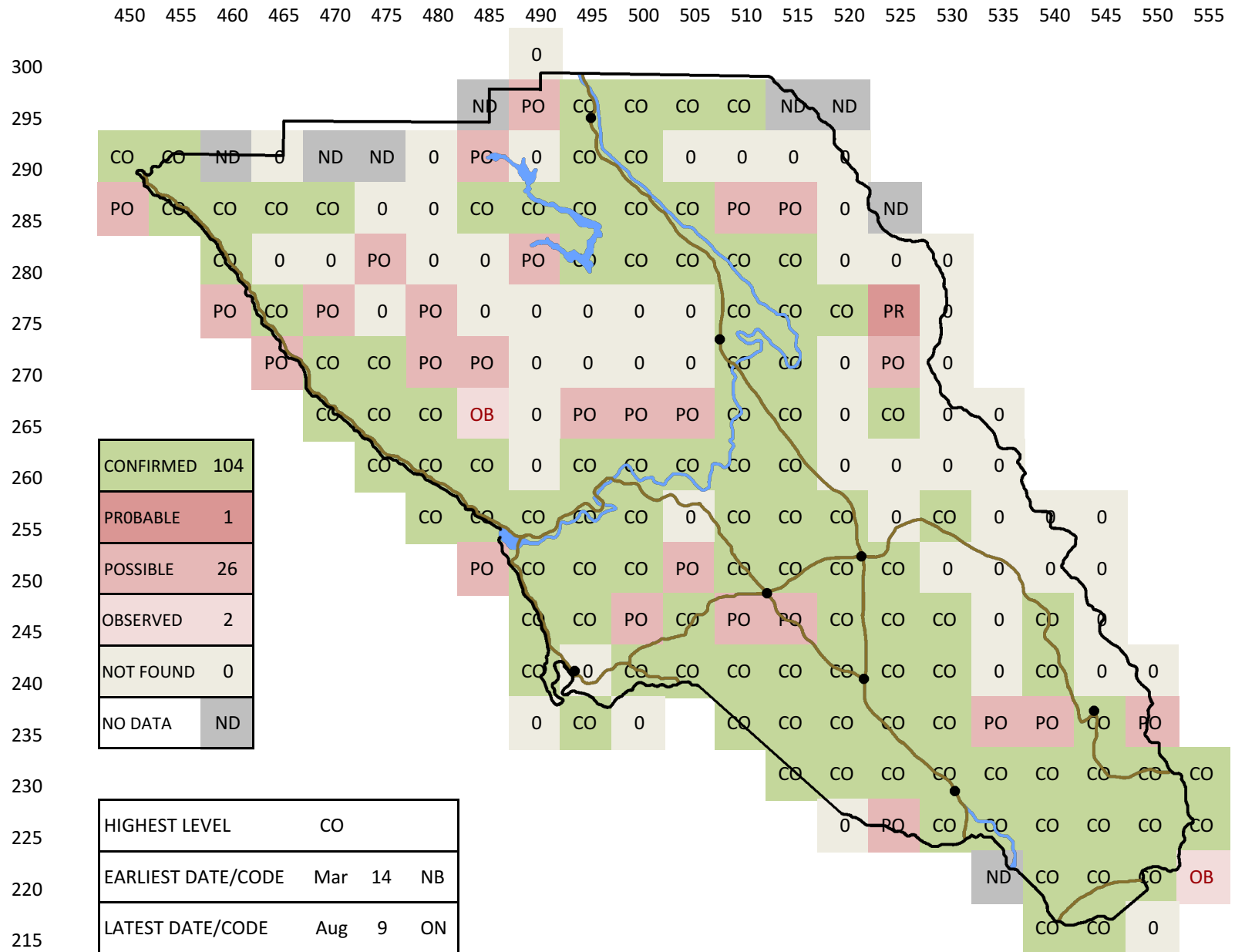


NORTHERN ROUGH-WINGED SWALLOW



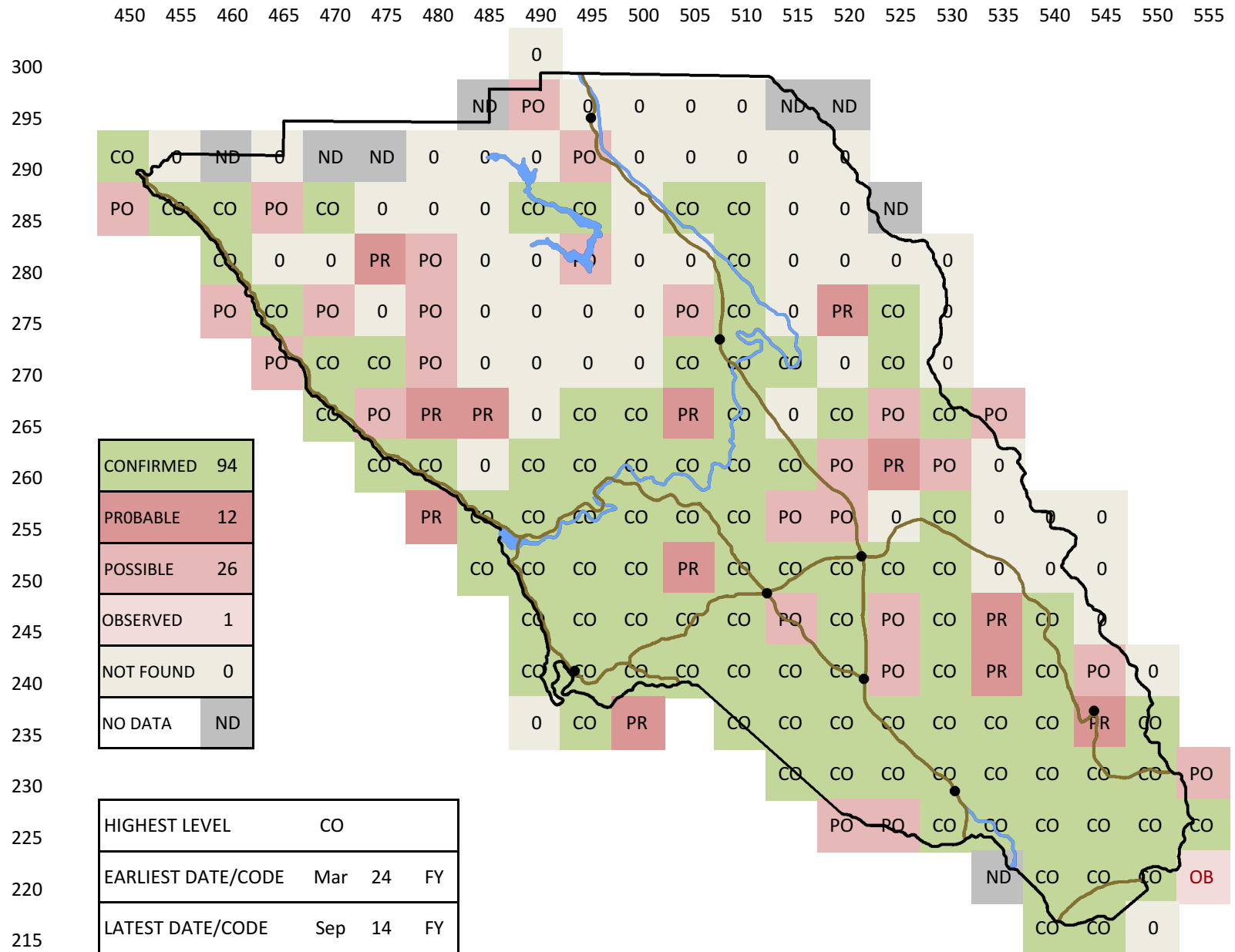
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CLIFF SWALLOW

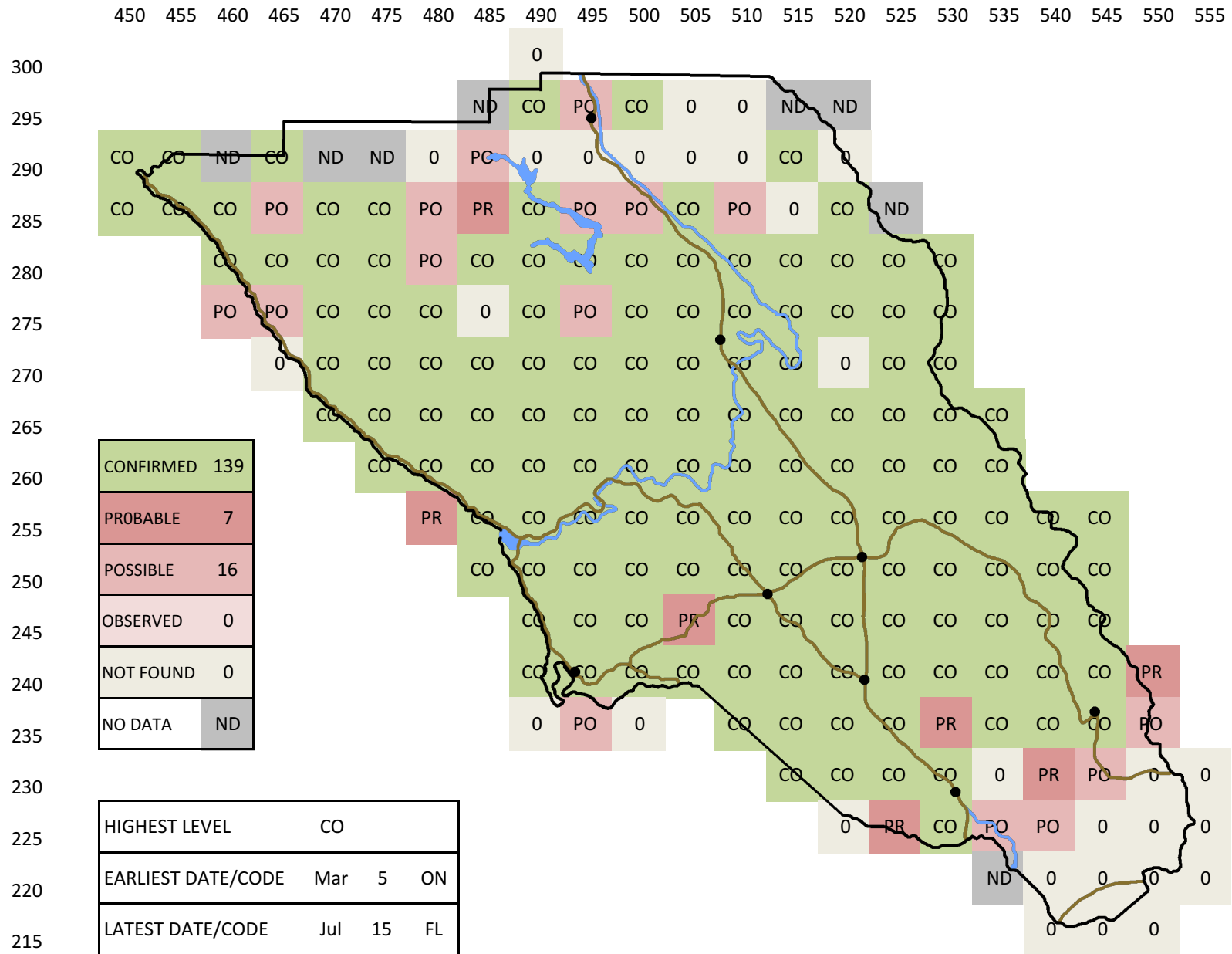


Atlas #2: 2011-2016

BARN SWALLOW

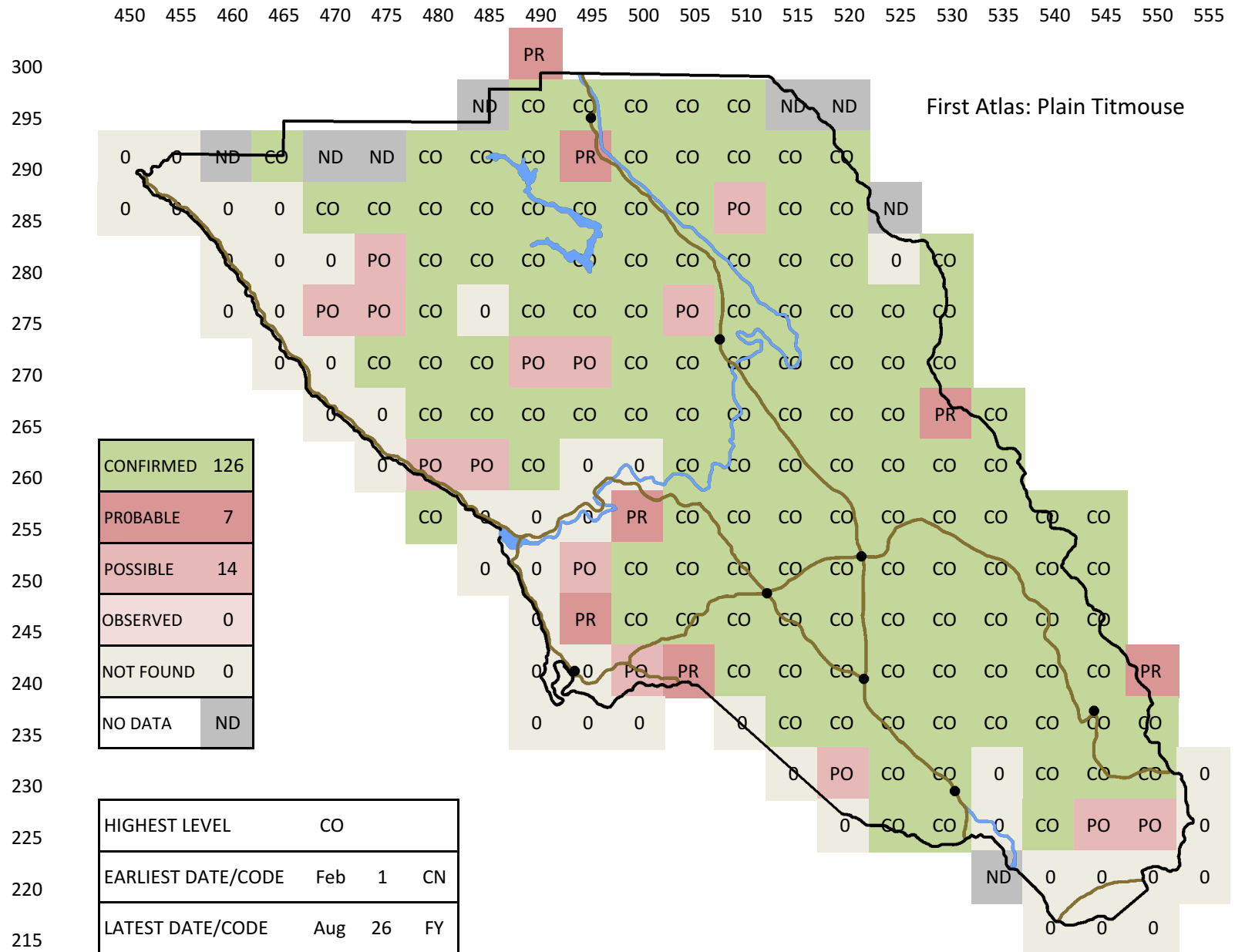


CHESTNUT-BACKED CHICKADEE



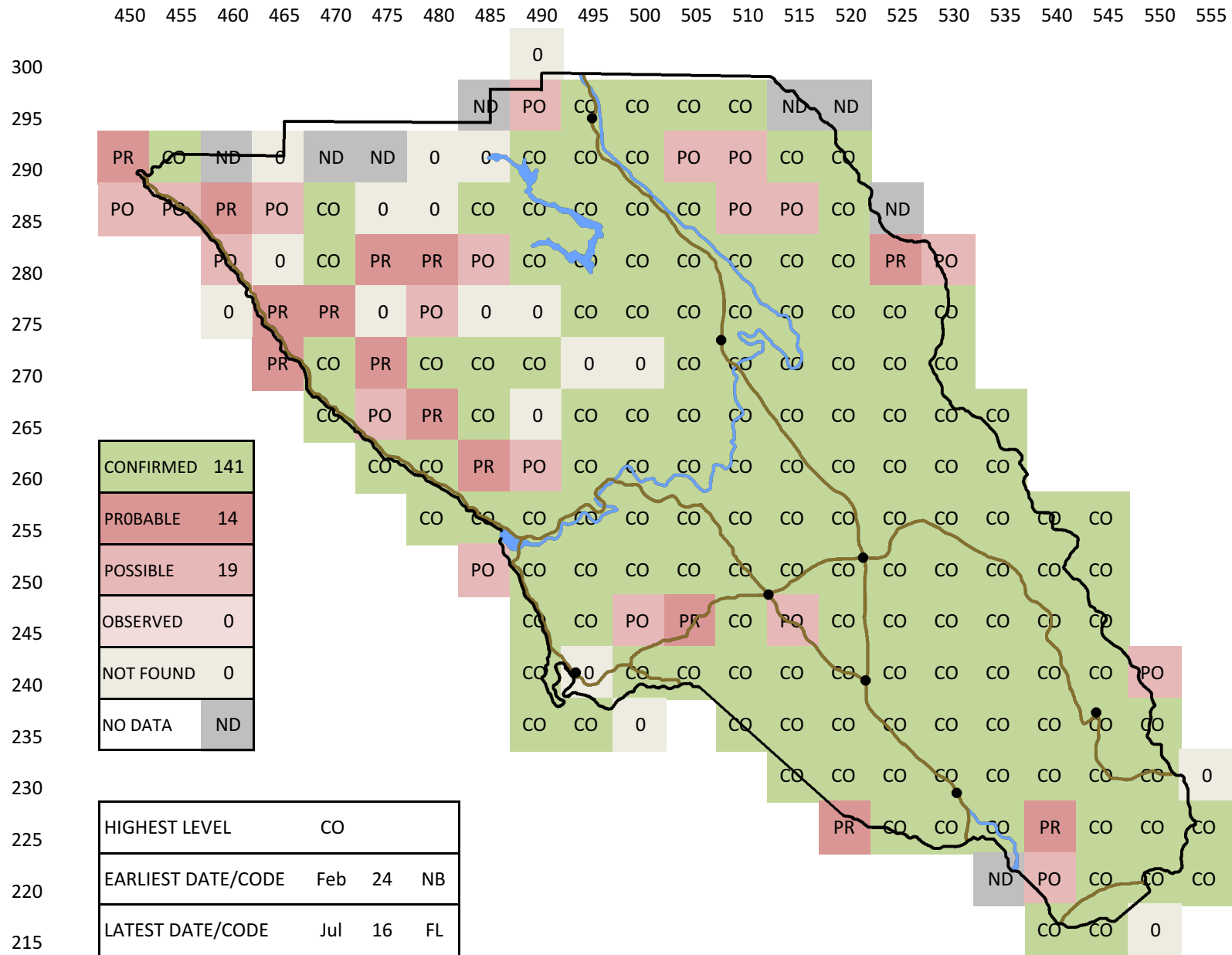
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OAK TITMOUSE



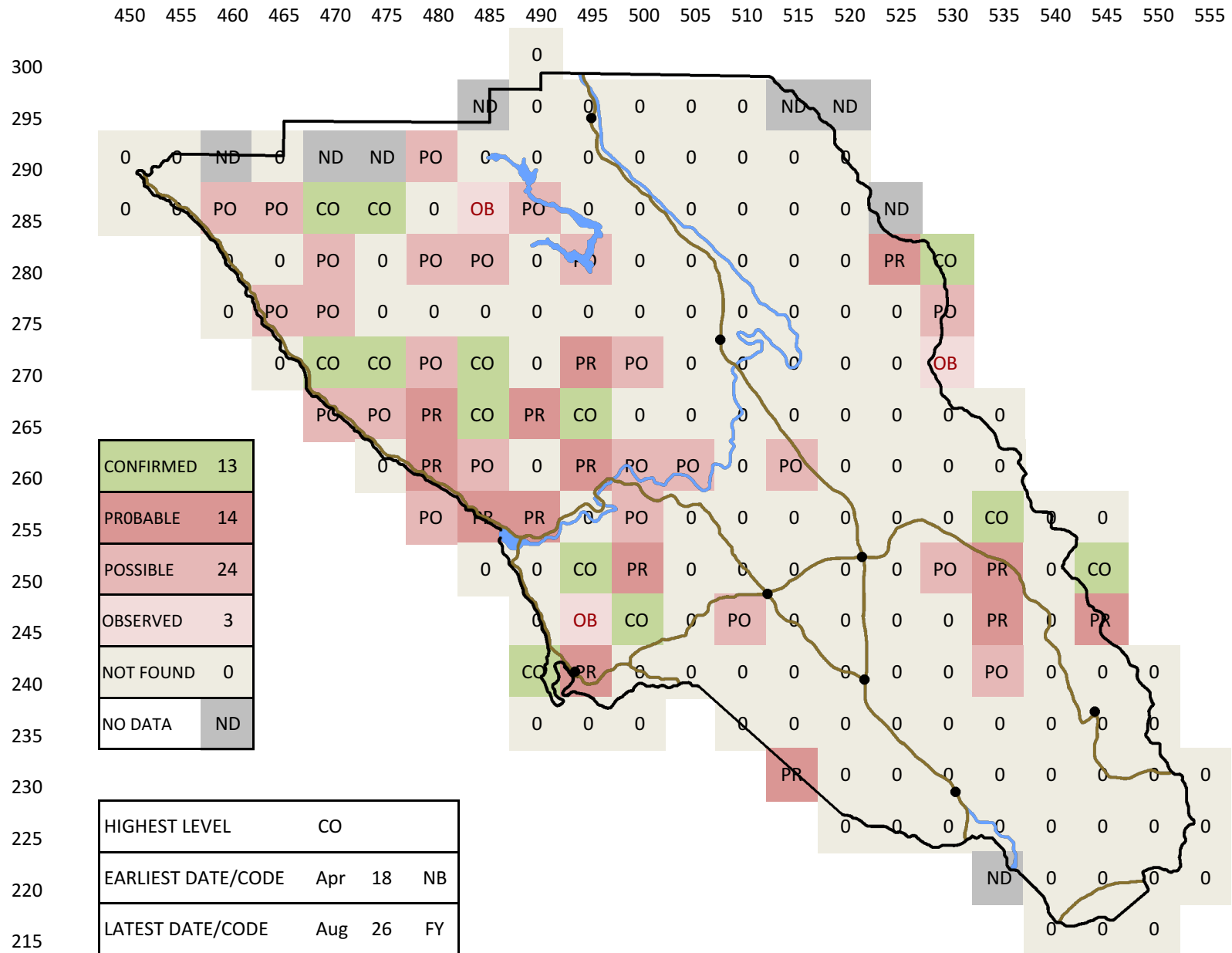
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BUSHTIT

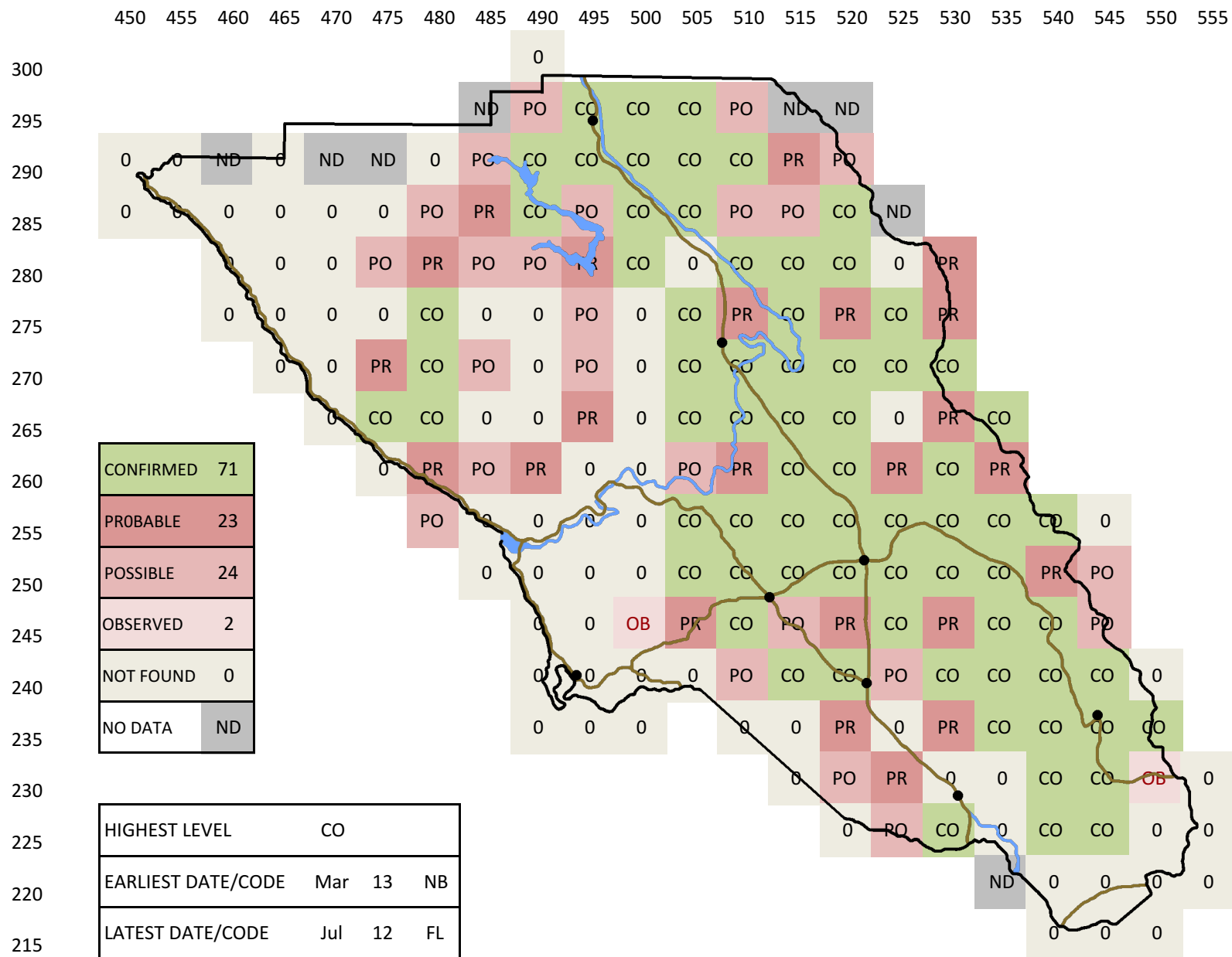


Atlas #2: 2011-2016

RED-BREASTED NUTHATCH

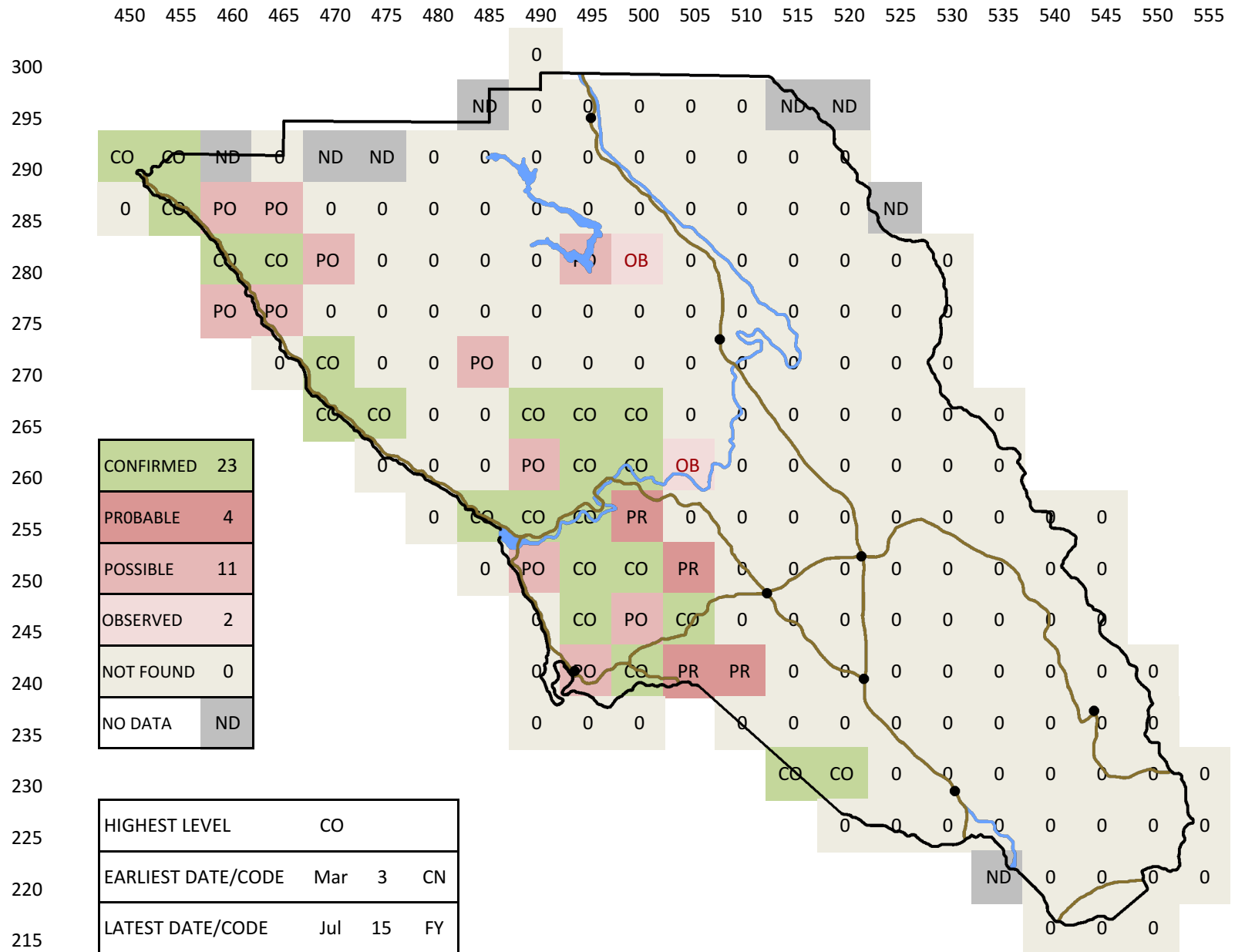


WHITE-BREASTED NUTHATCH



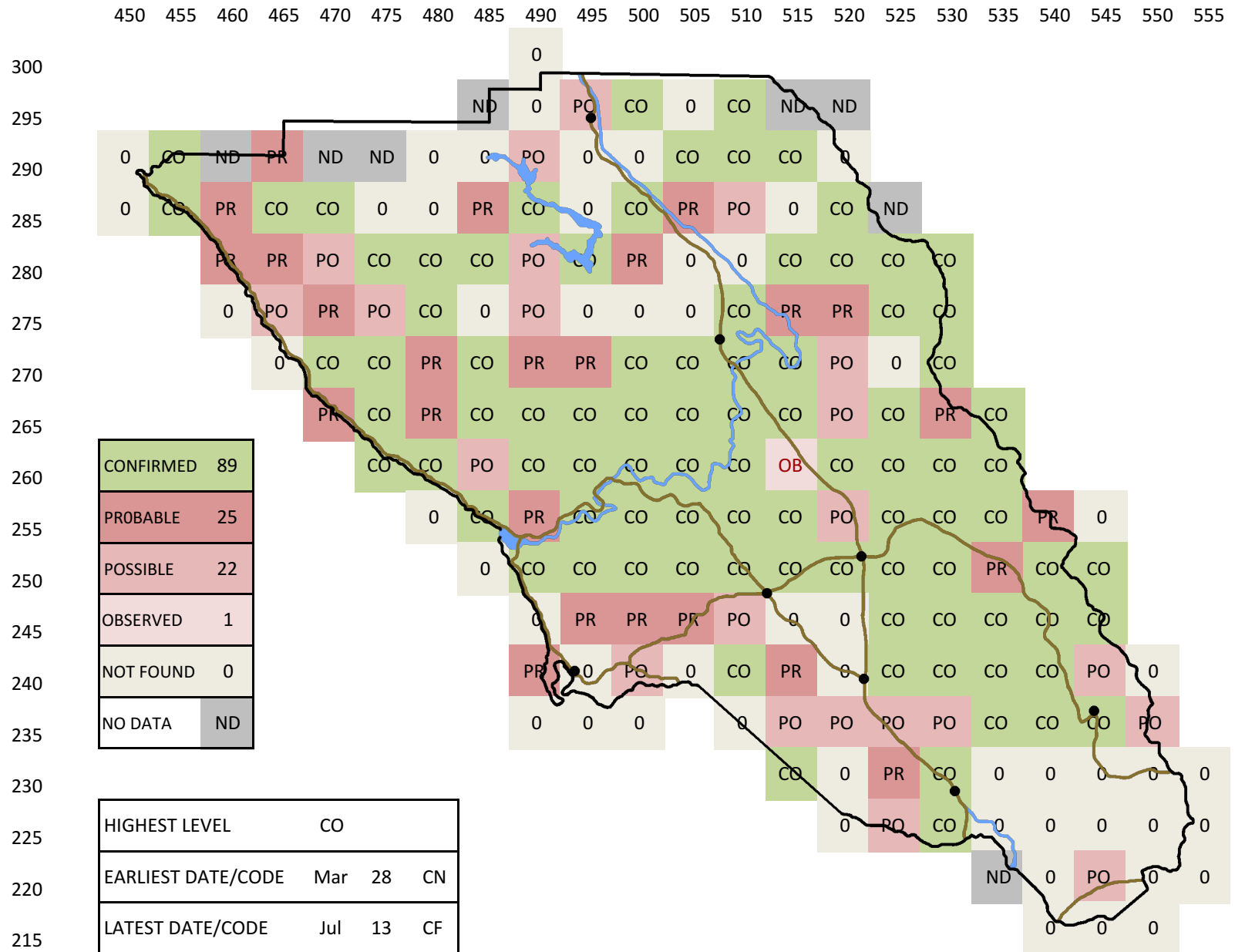
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PYGMY NUTHATCH



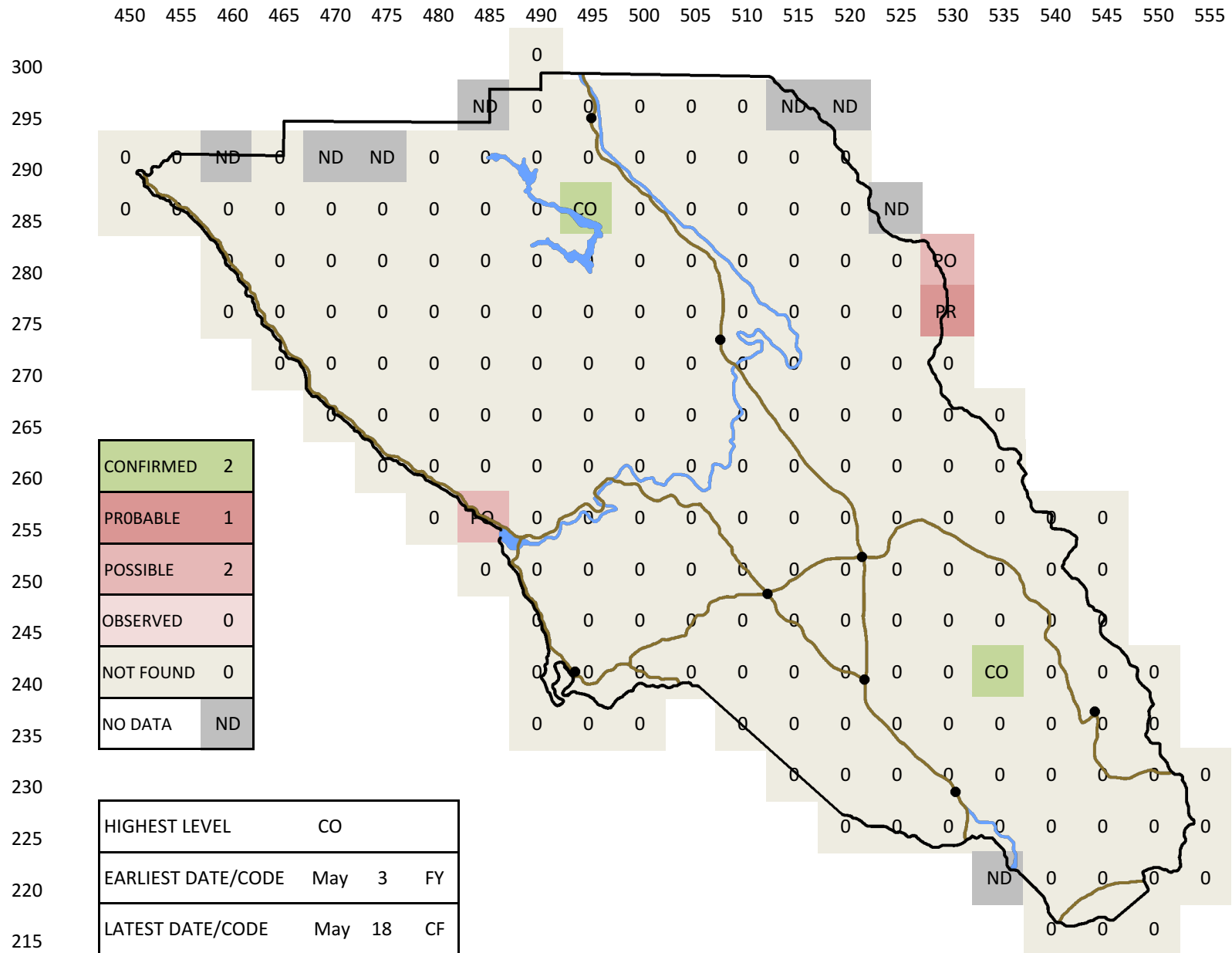
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BROWN CREEPER



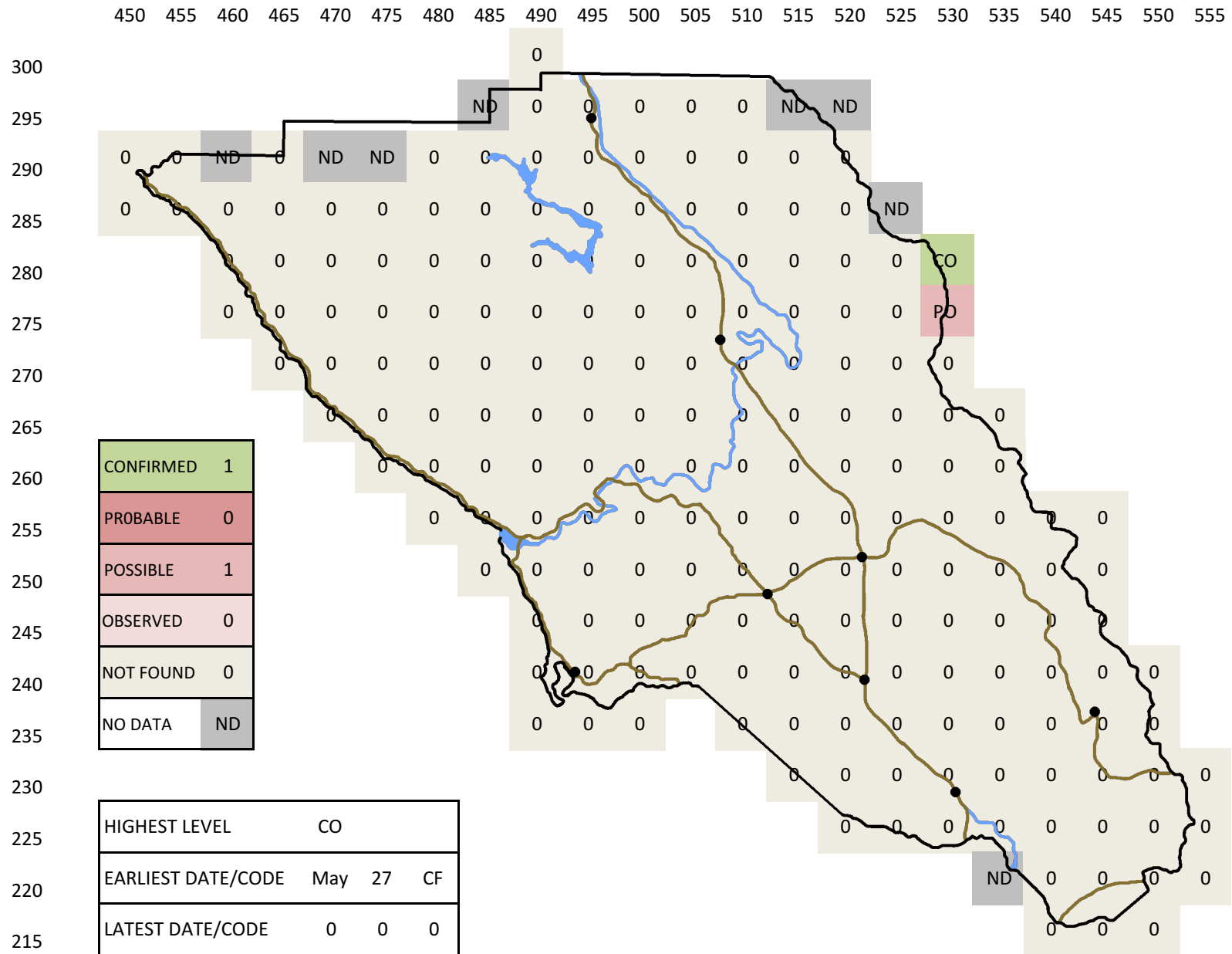
Atlas #2: 2011-2016

ROCK WREN



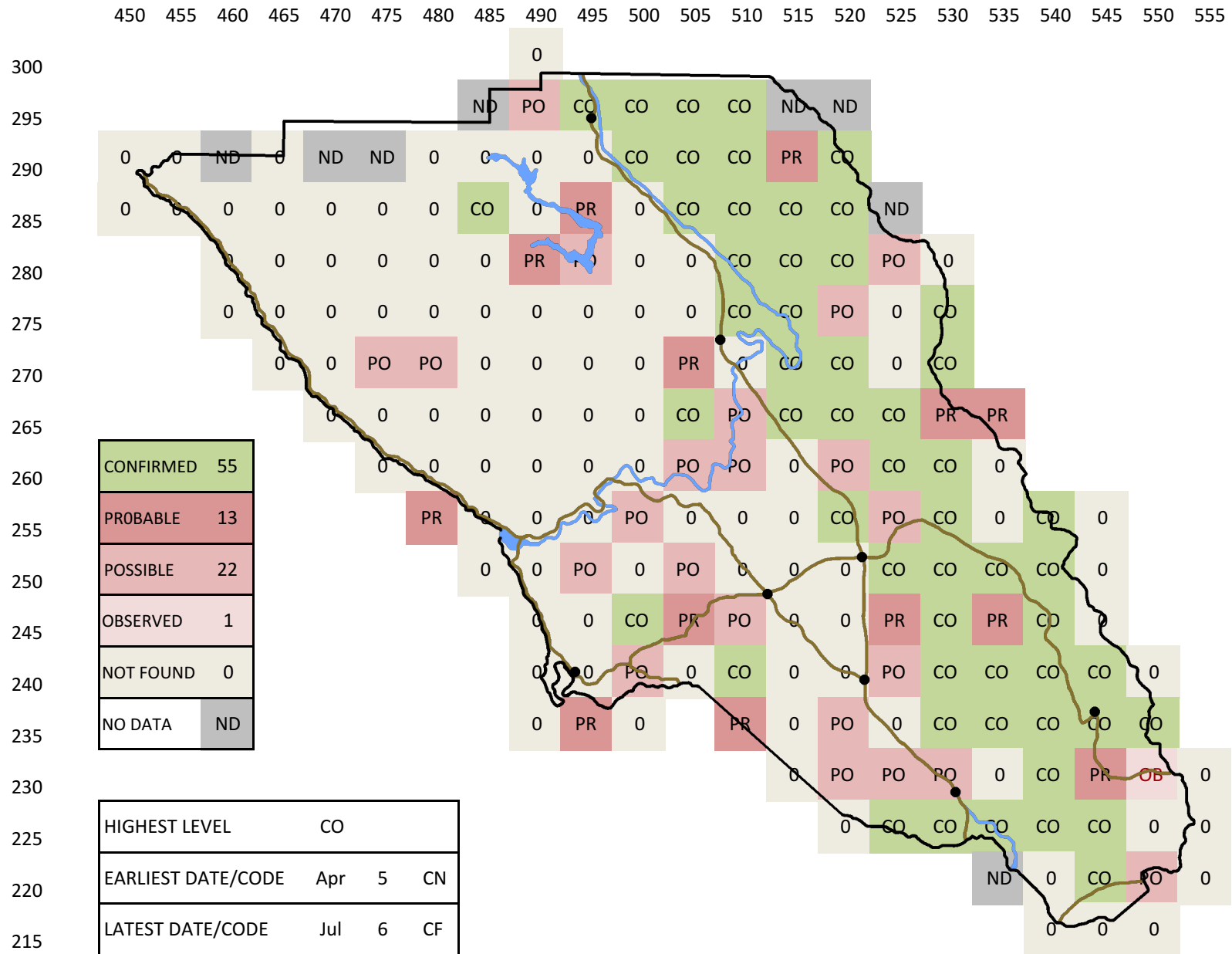
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CANYON WREN



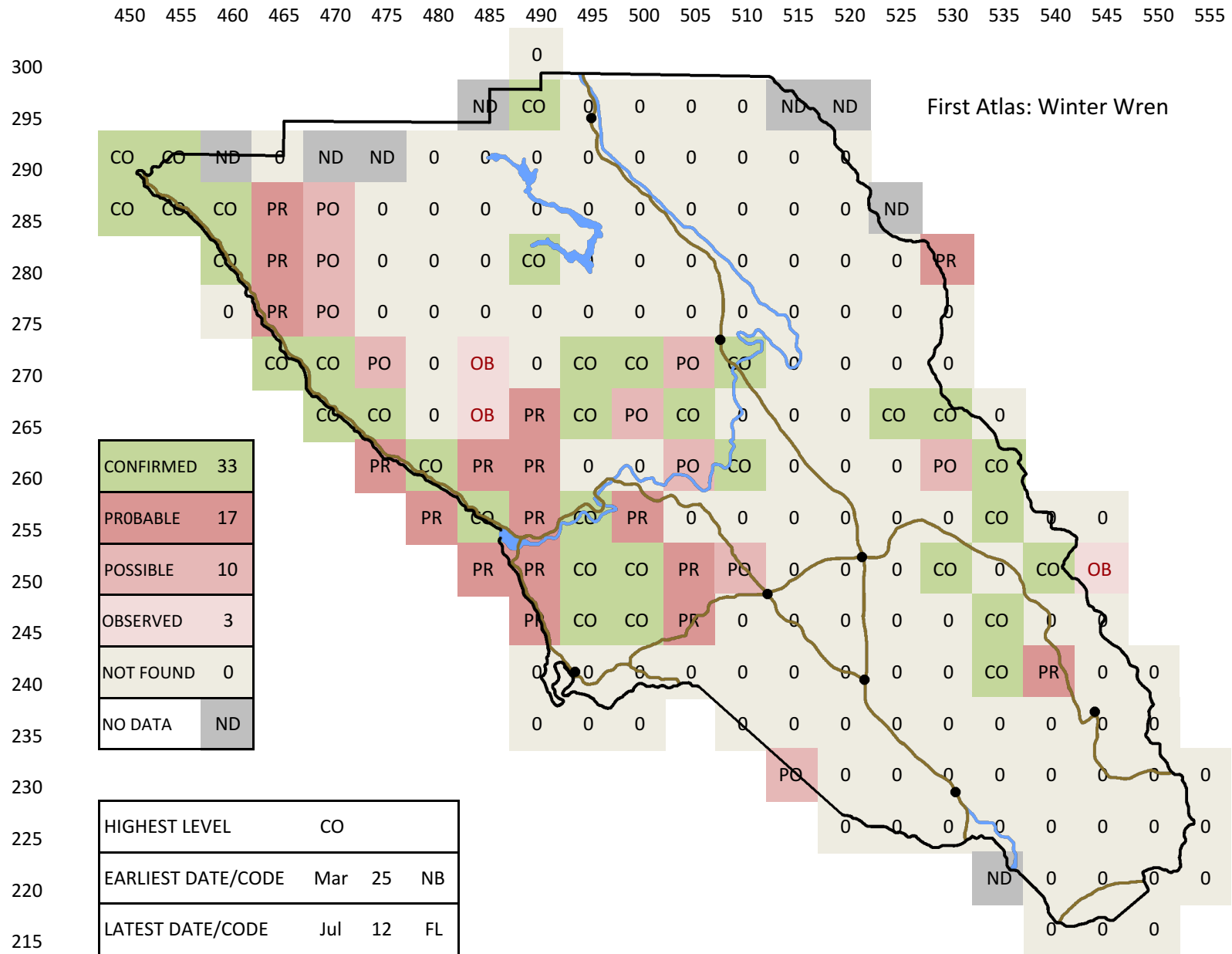
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HOUSE WREN



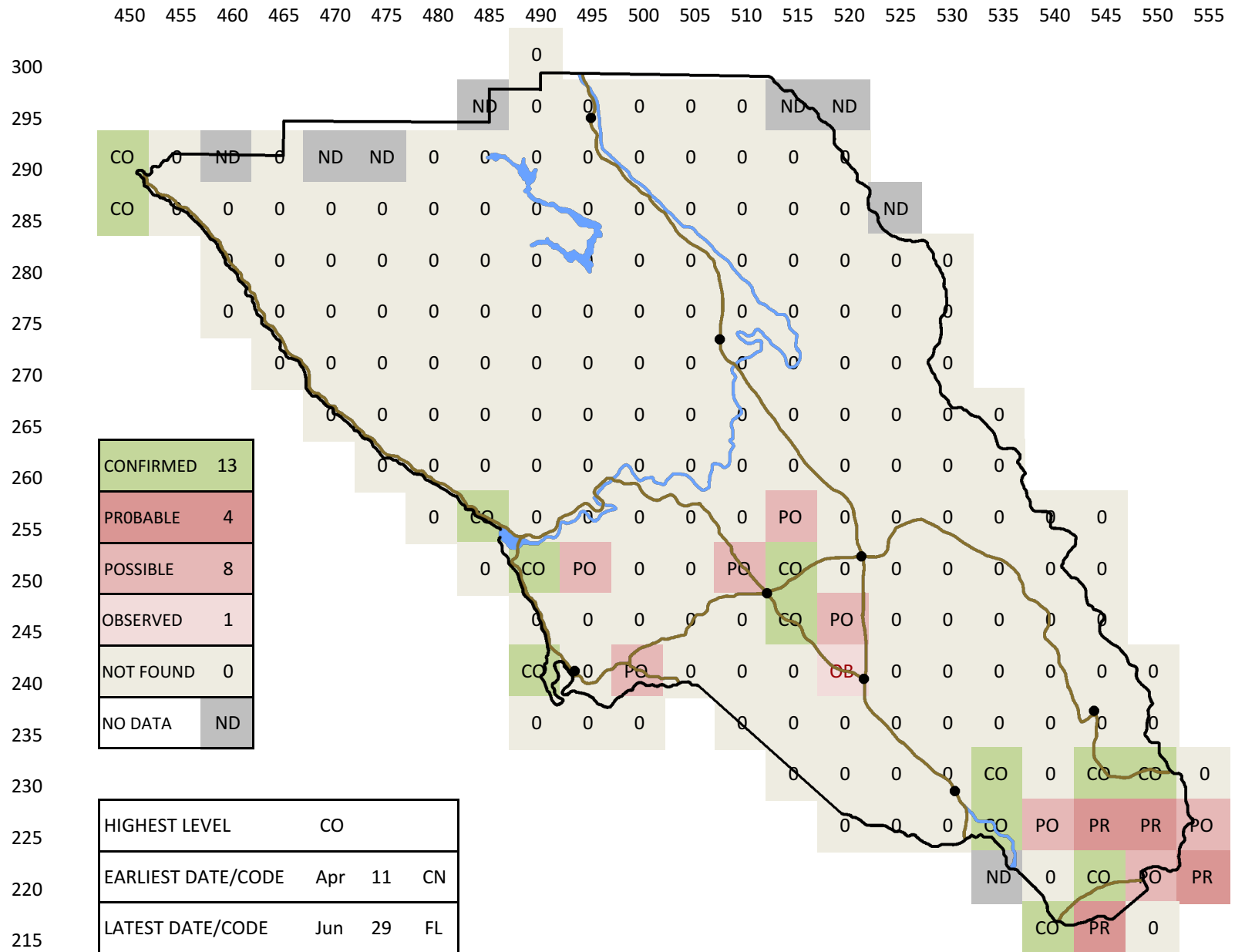
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PACIFIC WREN



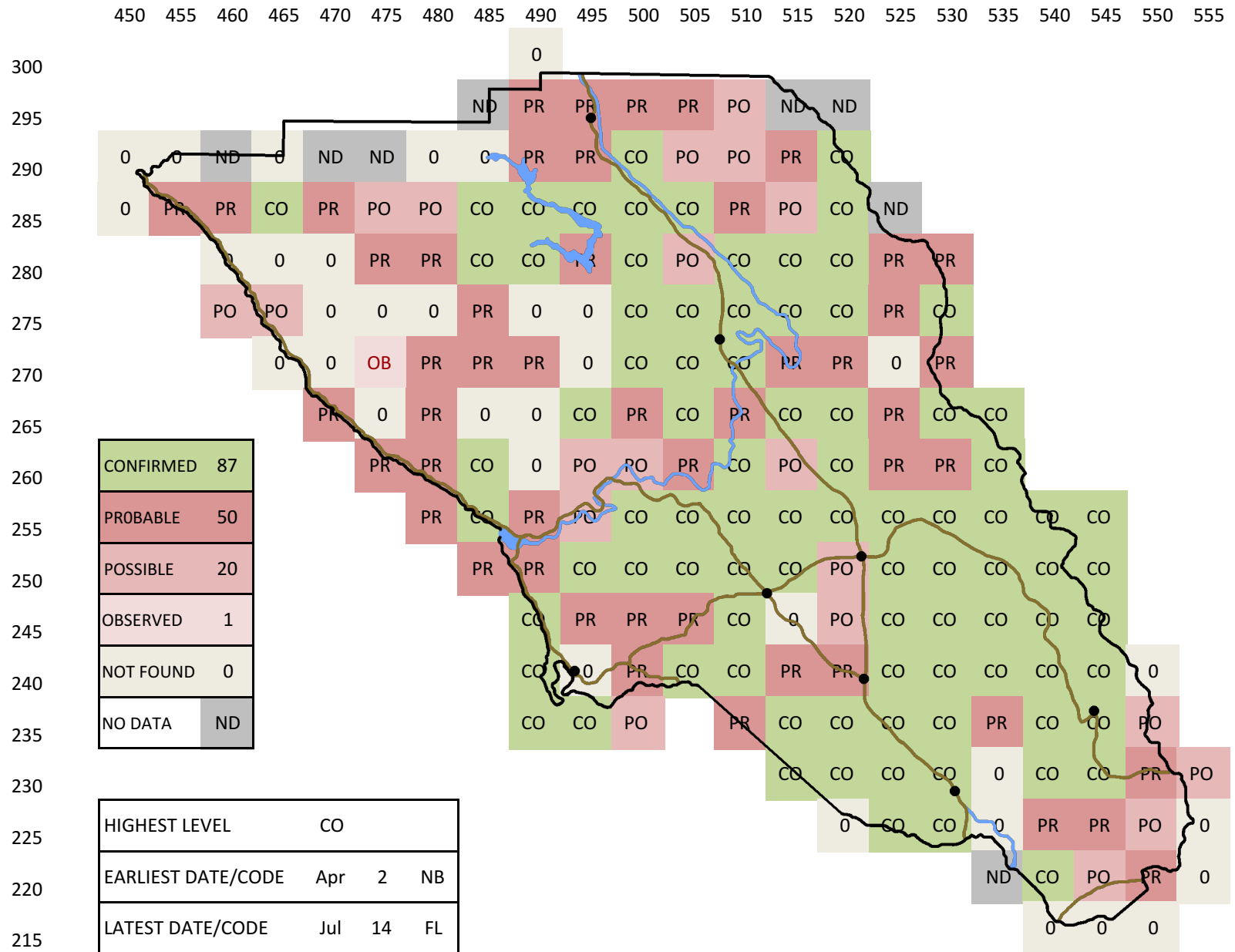
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MARSH WREN

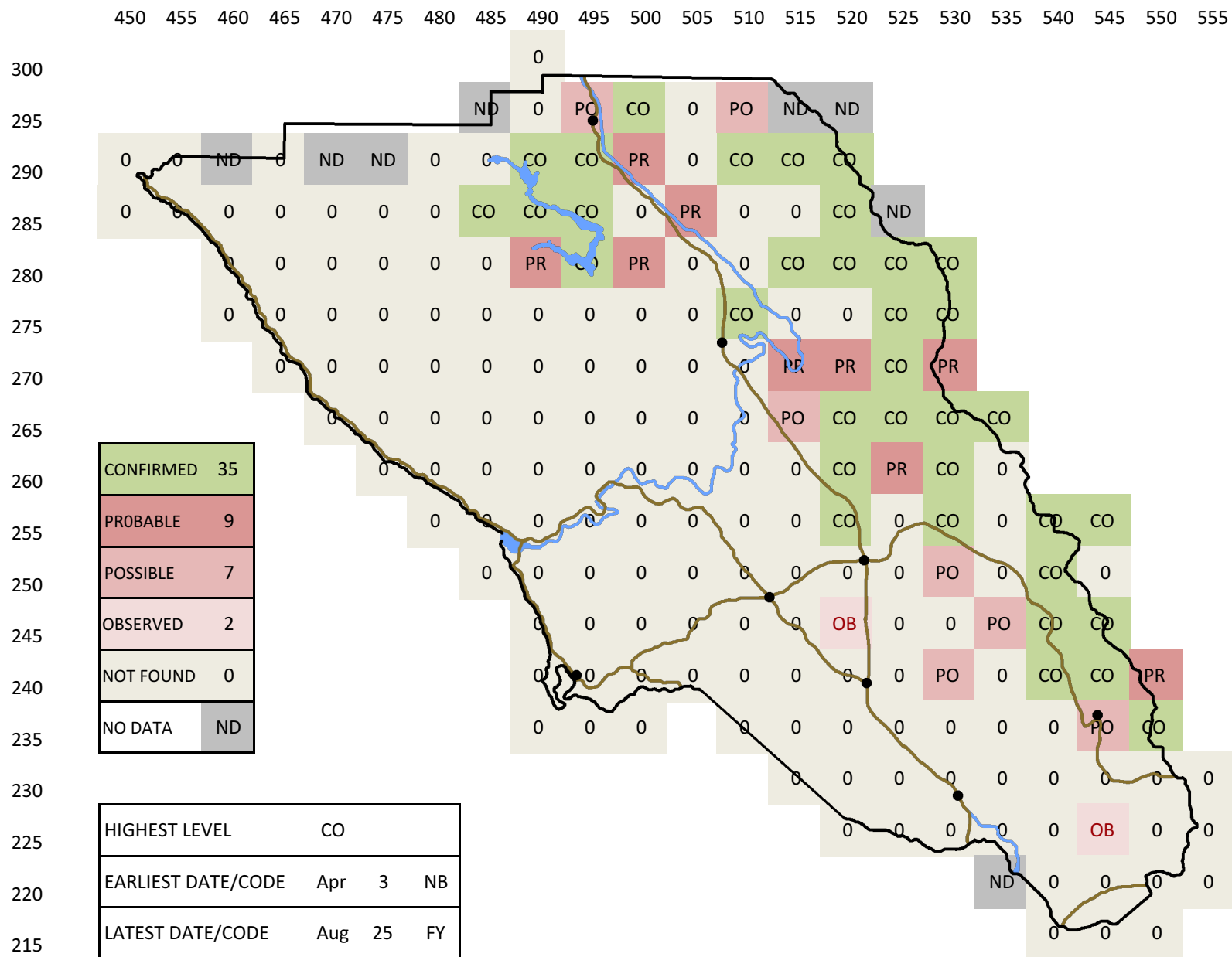


Atlas #2: 2011-2016

BEWICK'S WREN

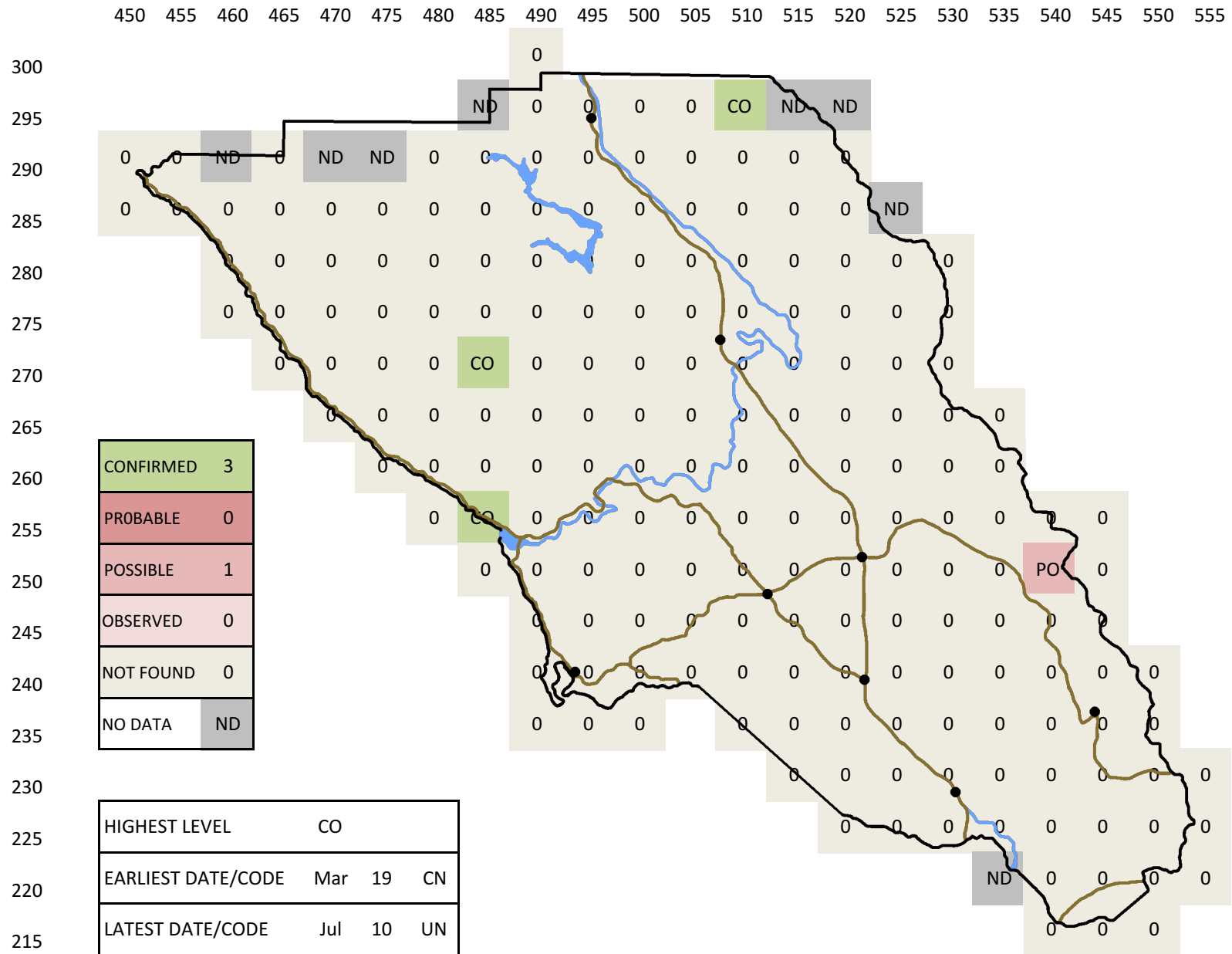


BLUE-GRAY GNATCATCHER



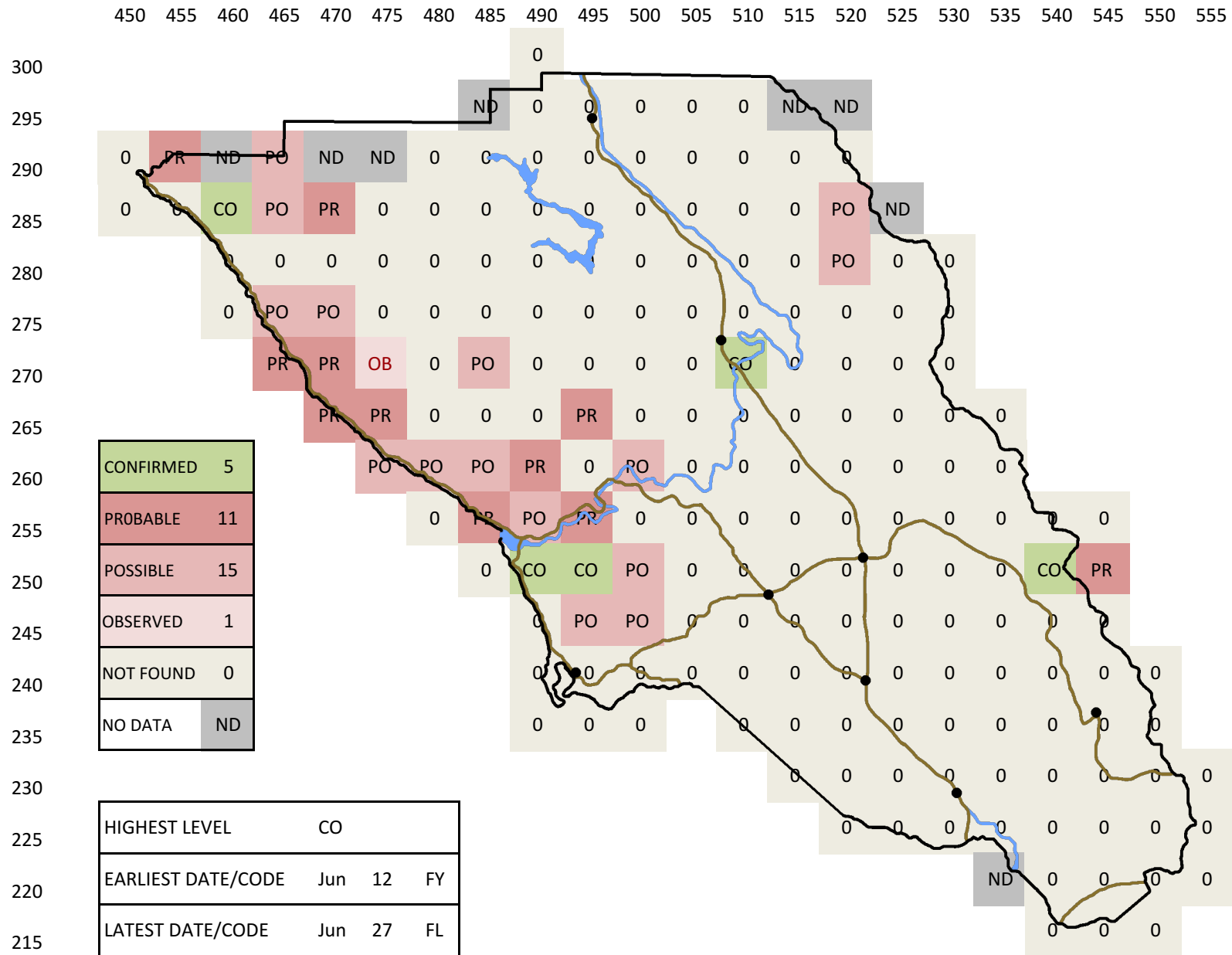
Atlas #2: 2011-2016

AMERICAN DIPPER



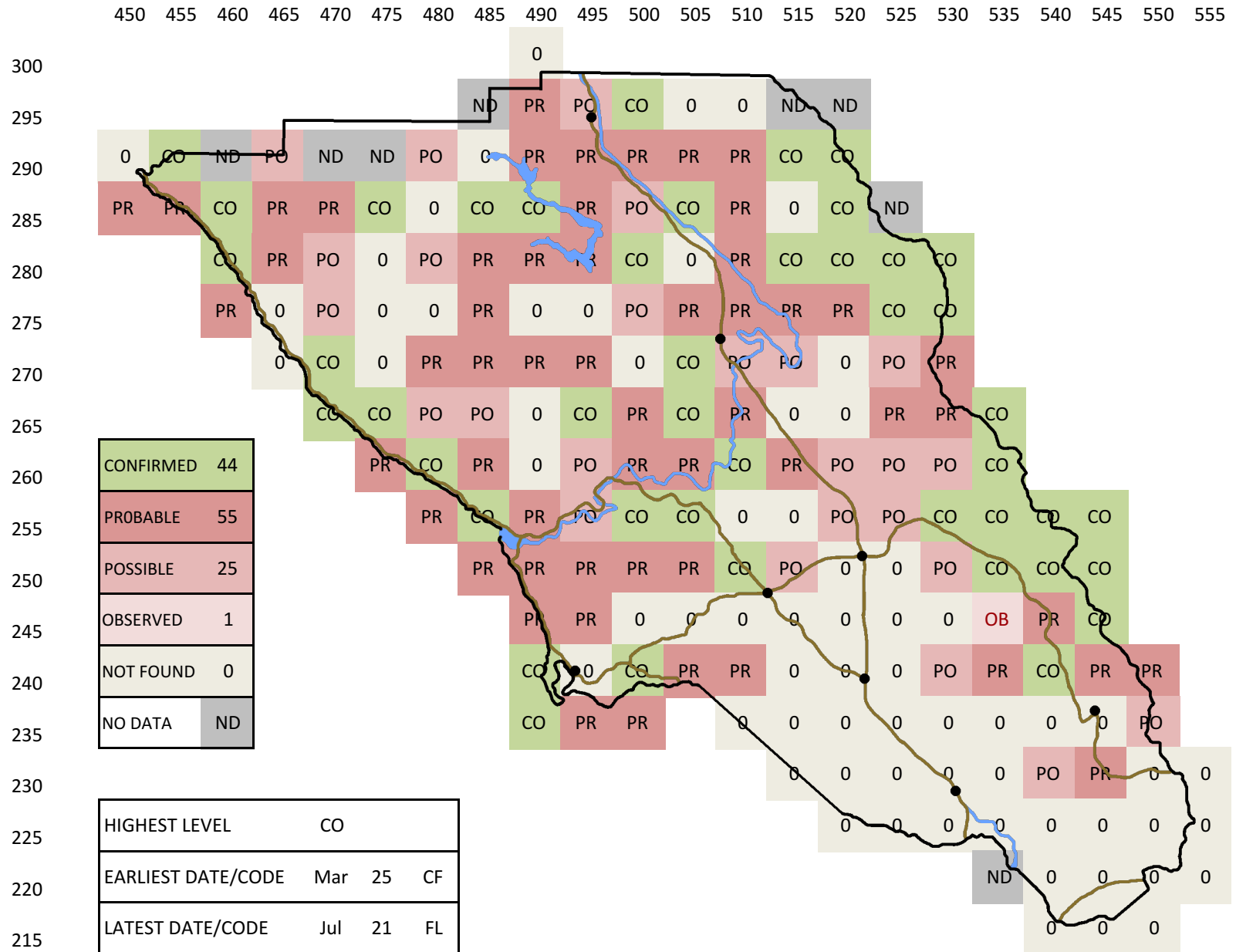
Atlas #2: 2011-2016

GOLDEN-CROWNED KINGLET



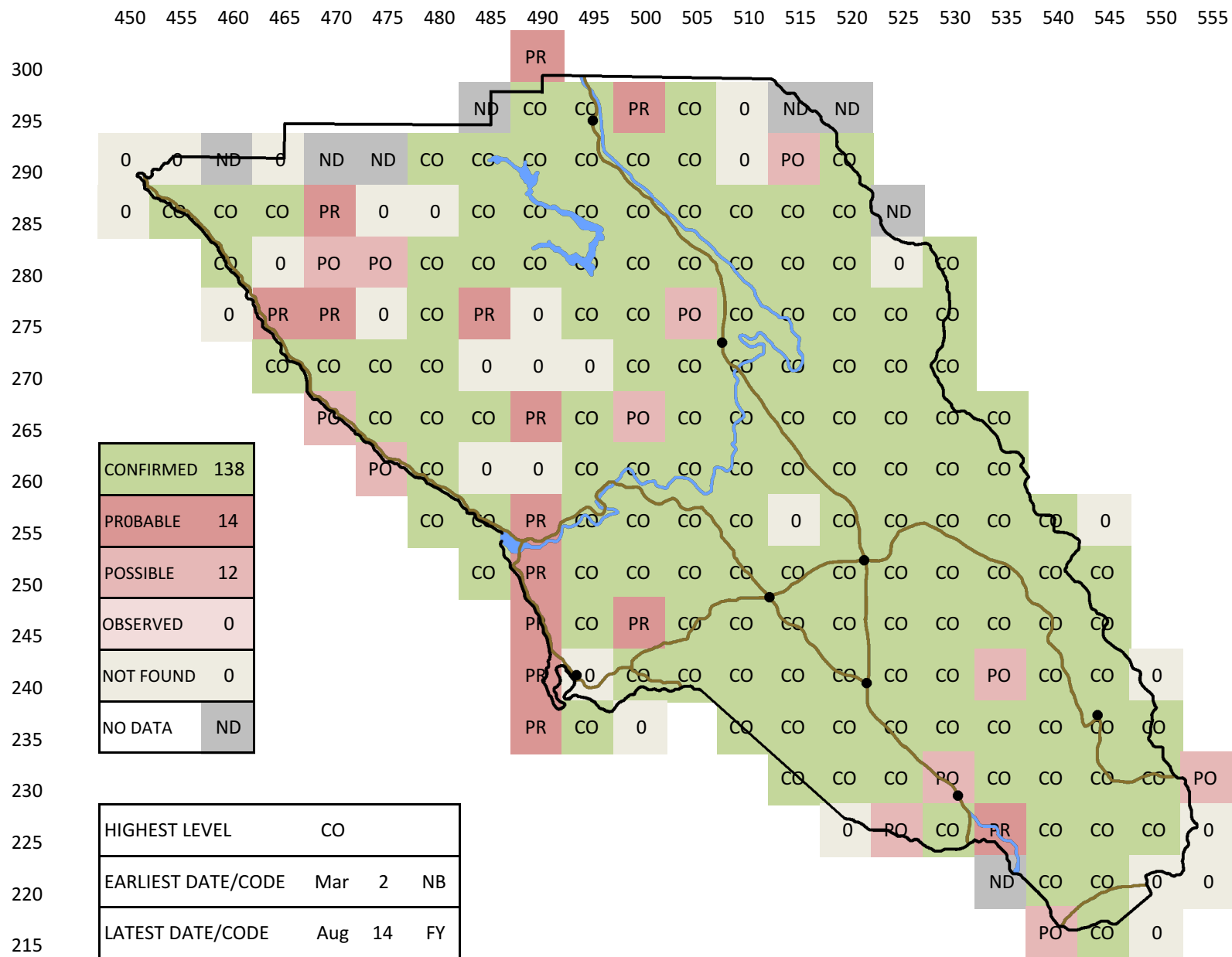
Atlas #2: 2011-2016

WRENTIT



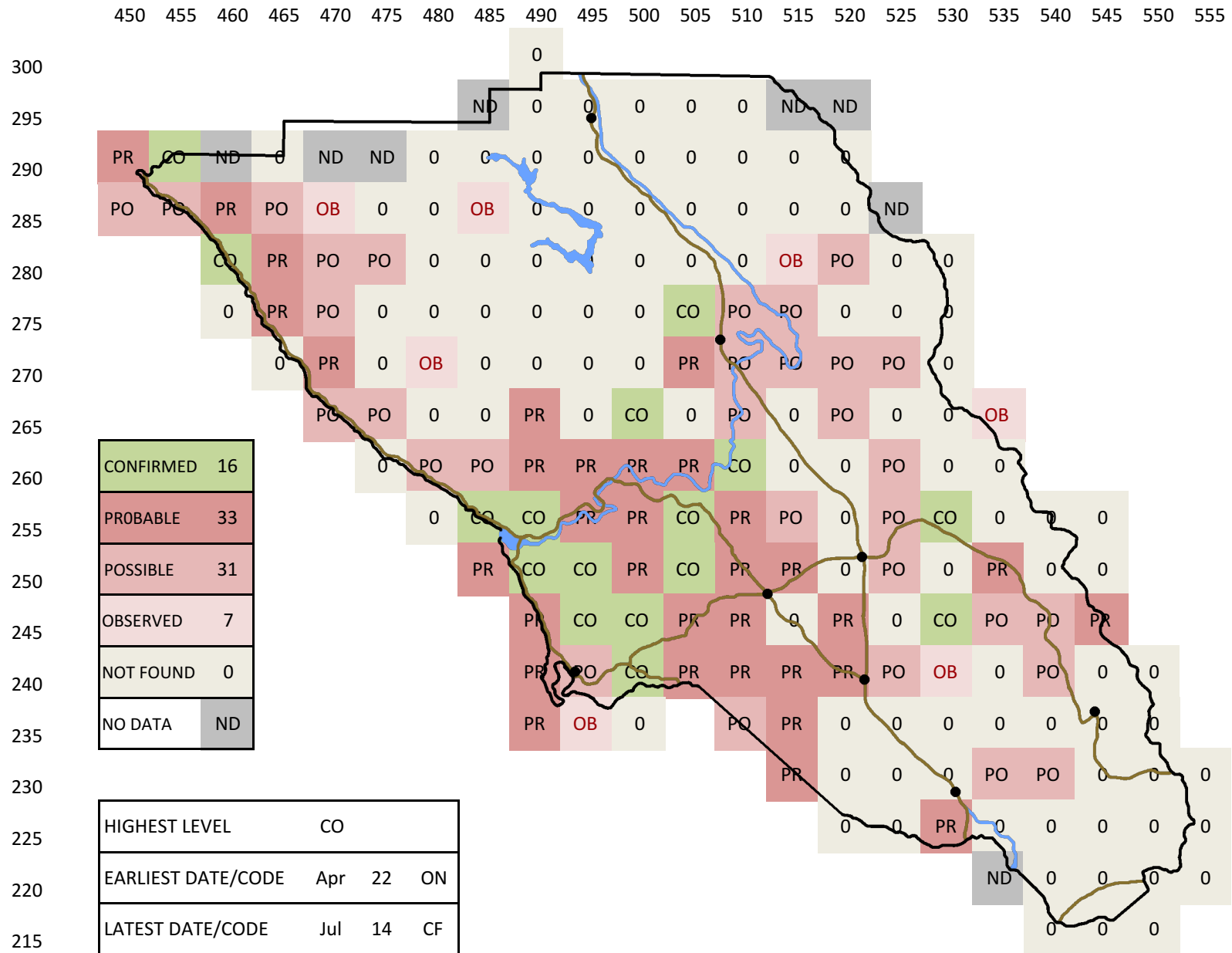
Atlas #2: 2011-2016

WESTERN BLUEBIRD



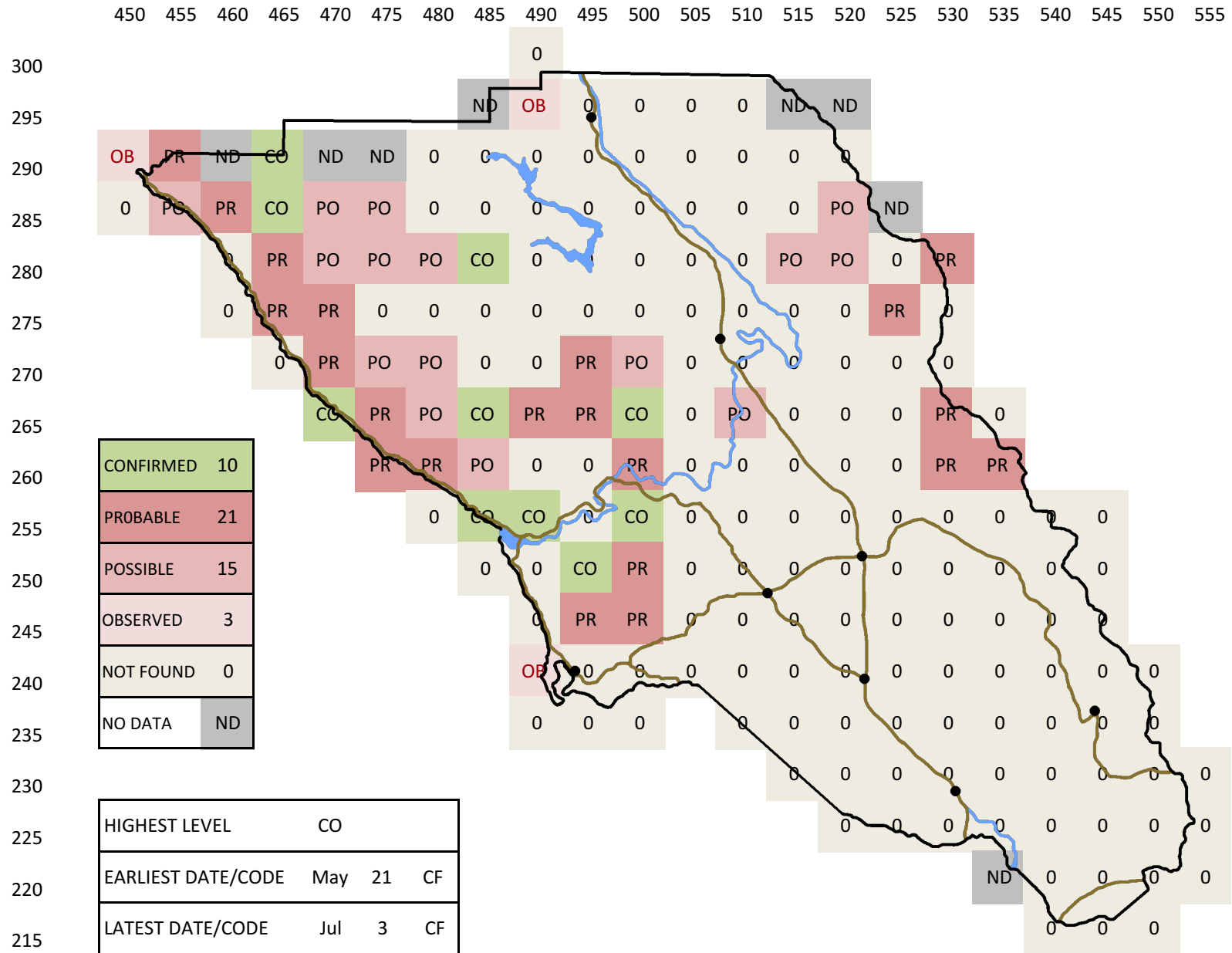
Atlas #2: 2011-2016

SWAINSON'S THRUSH



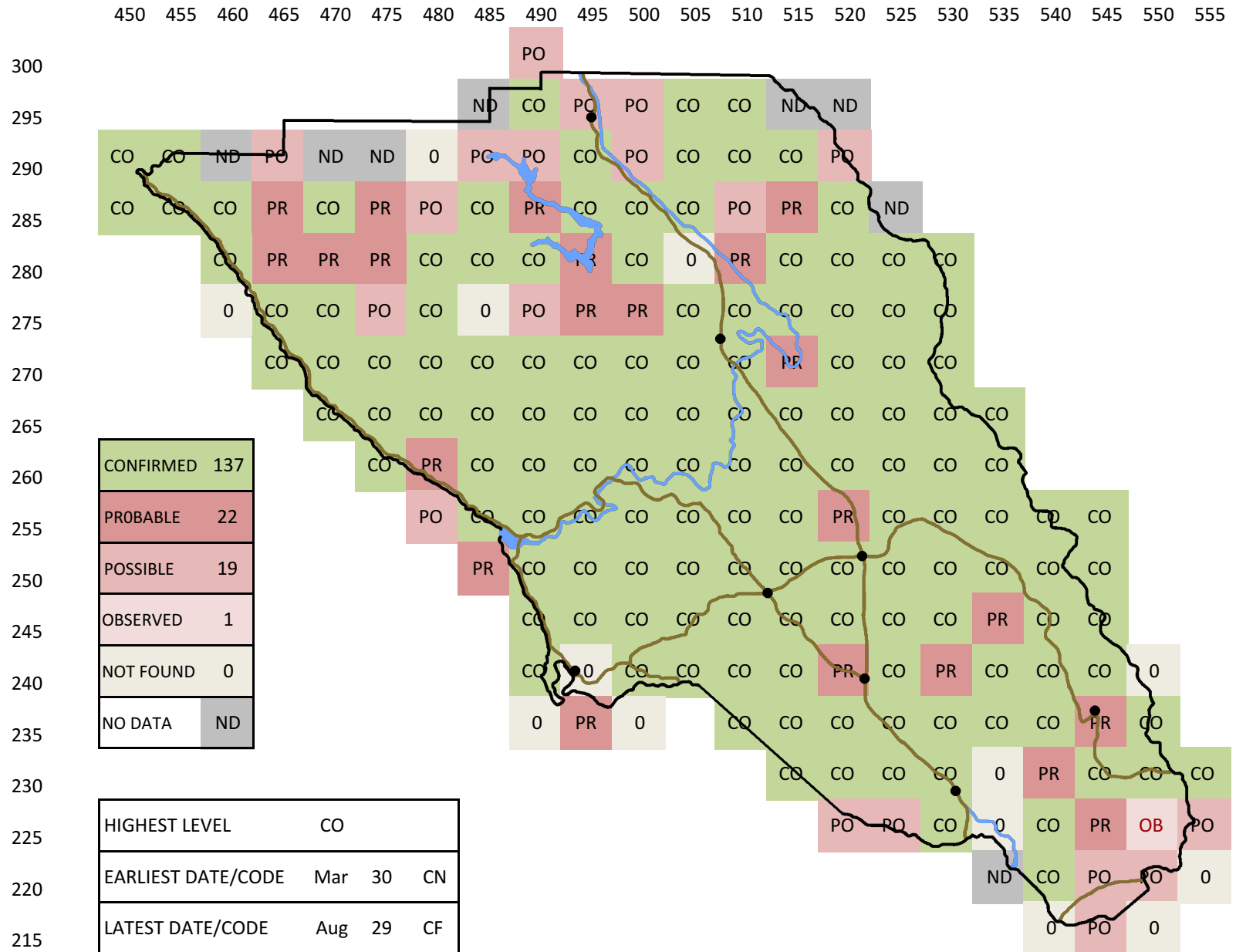
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HERMIT THRUSH

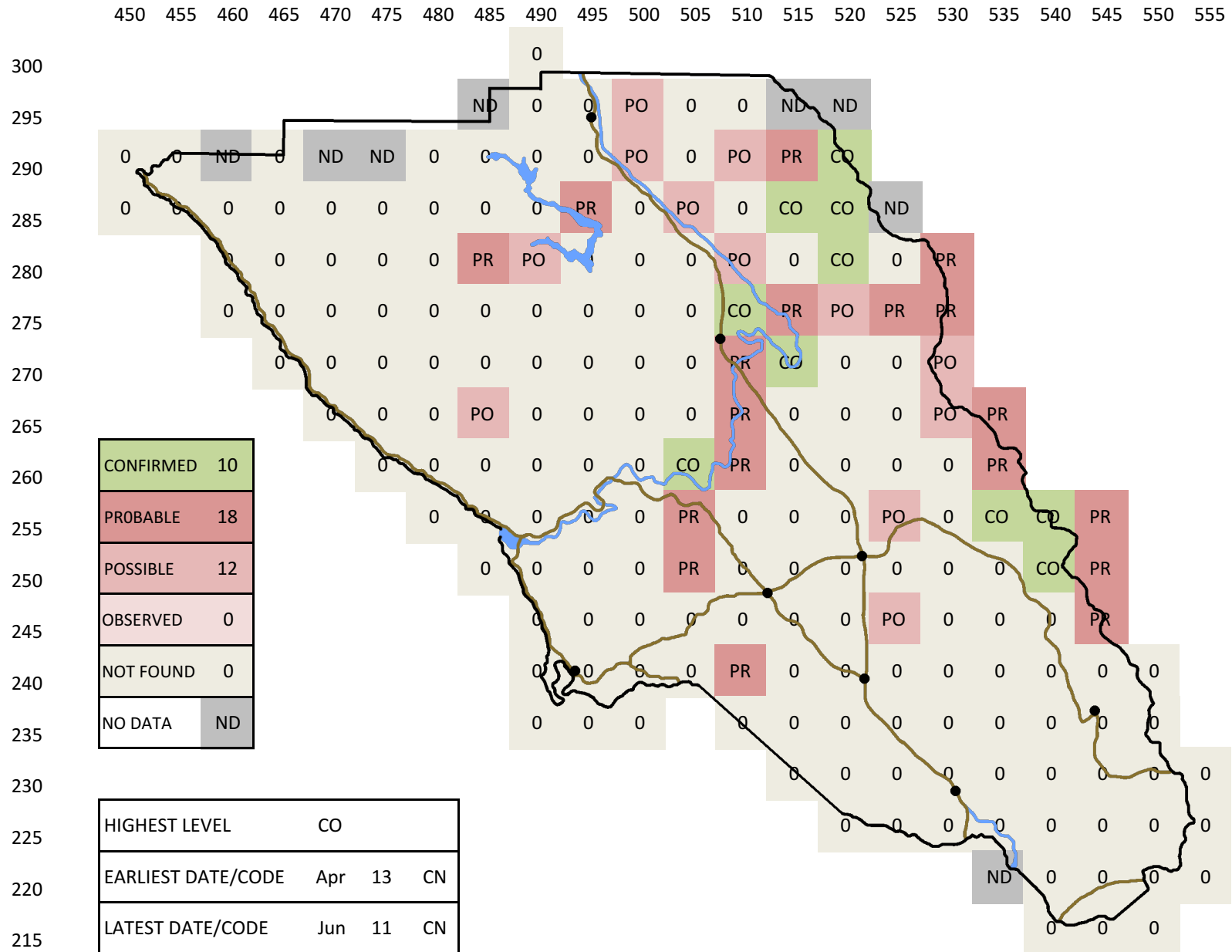


Atlas #2: 2011-2016

AMERICAN ROBIN

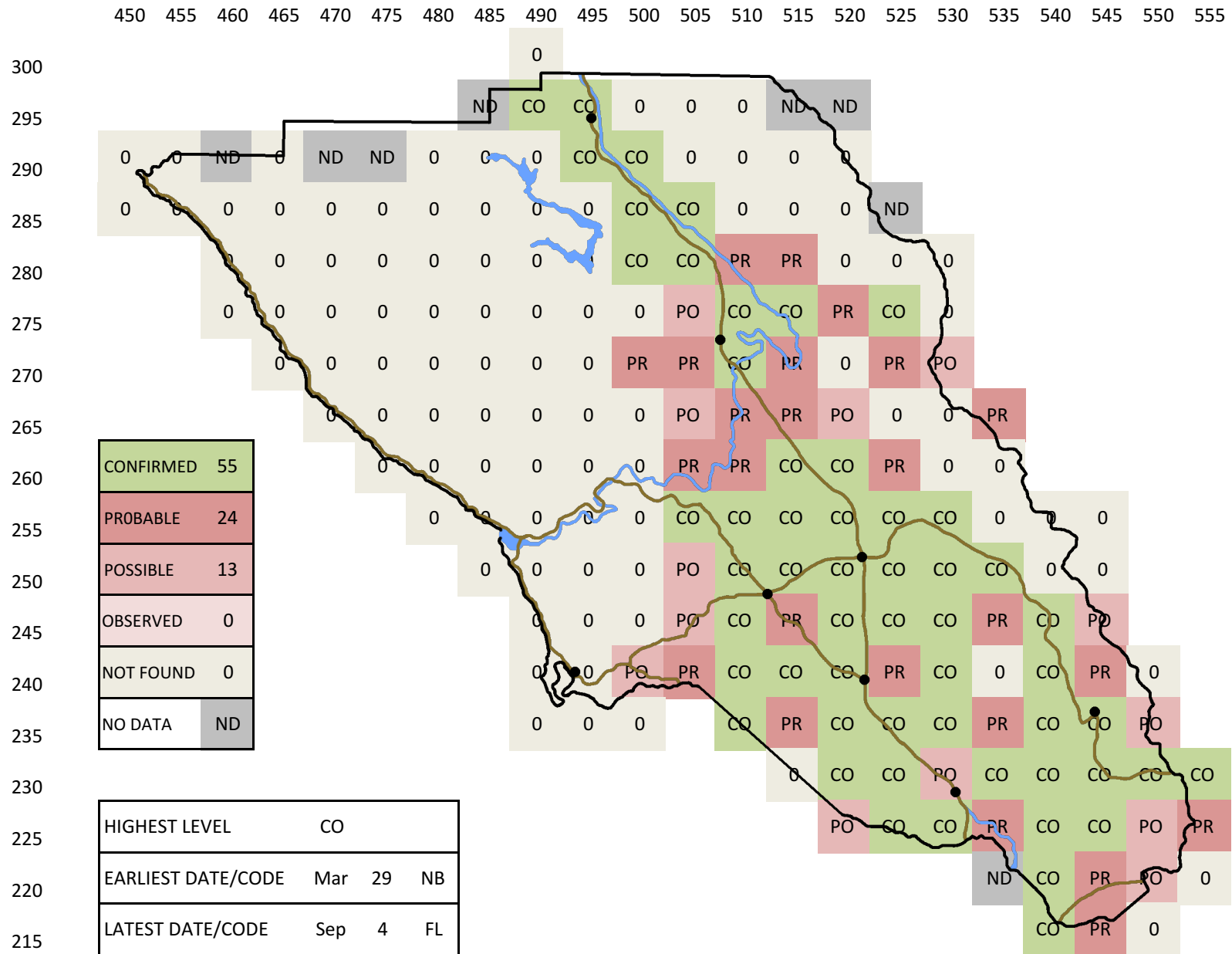


CALIFORNIA THRASHER



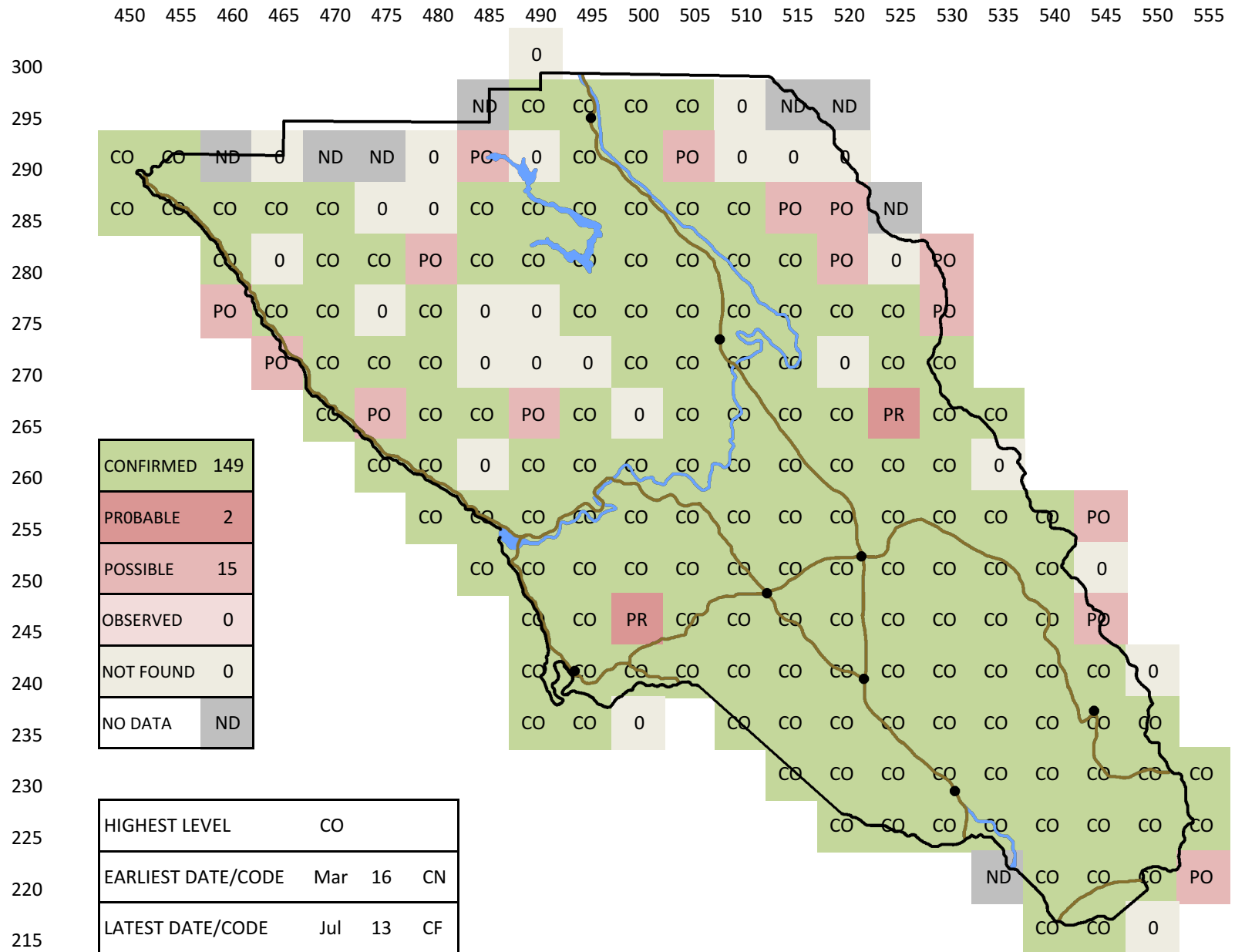
Atlas #2: 2011-2016

NORTHERN MOCKINGBIRD



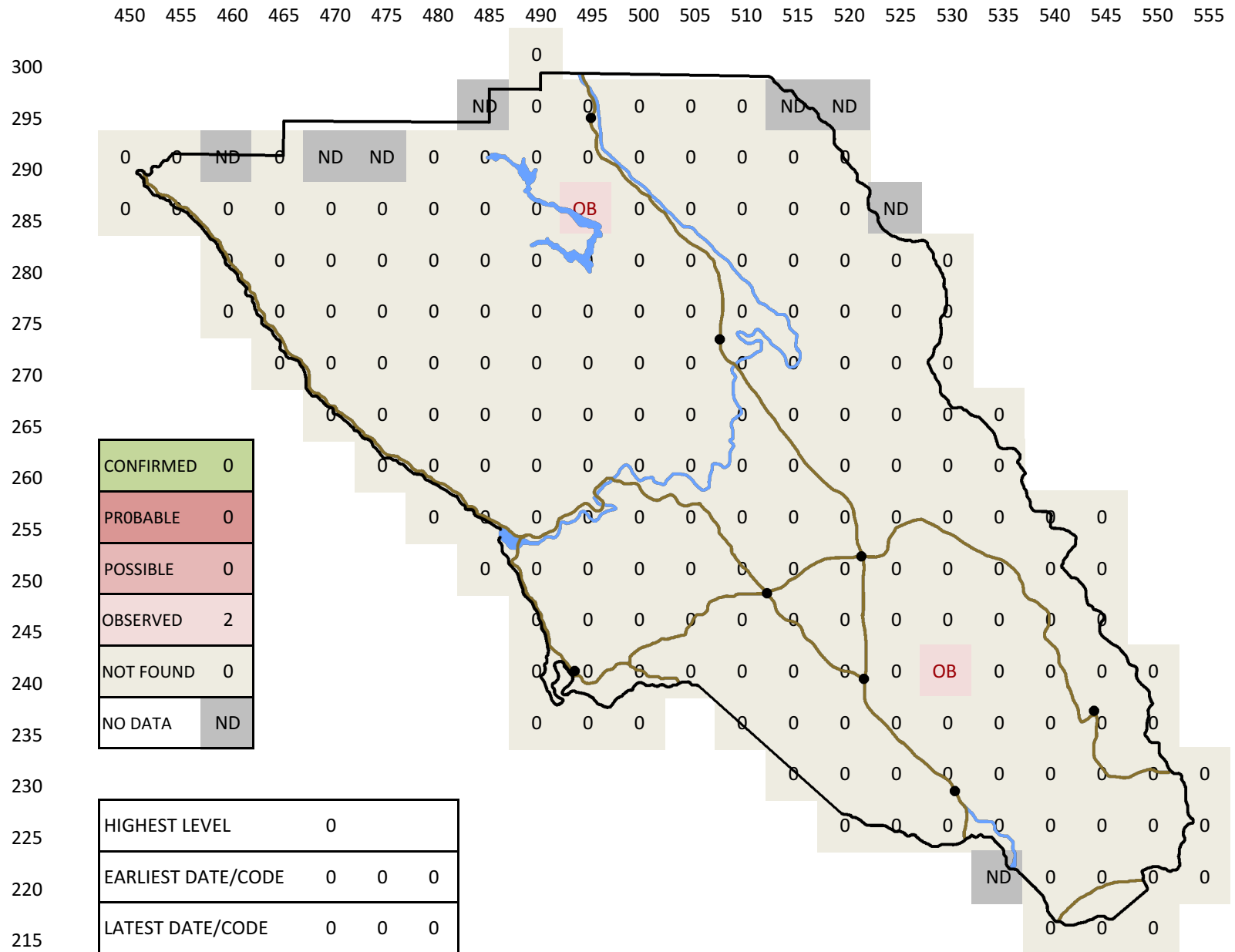
Atlas #2: 2011-2016

EUROPEAN STARLING



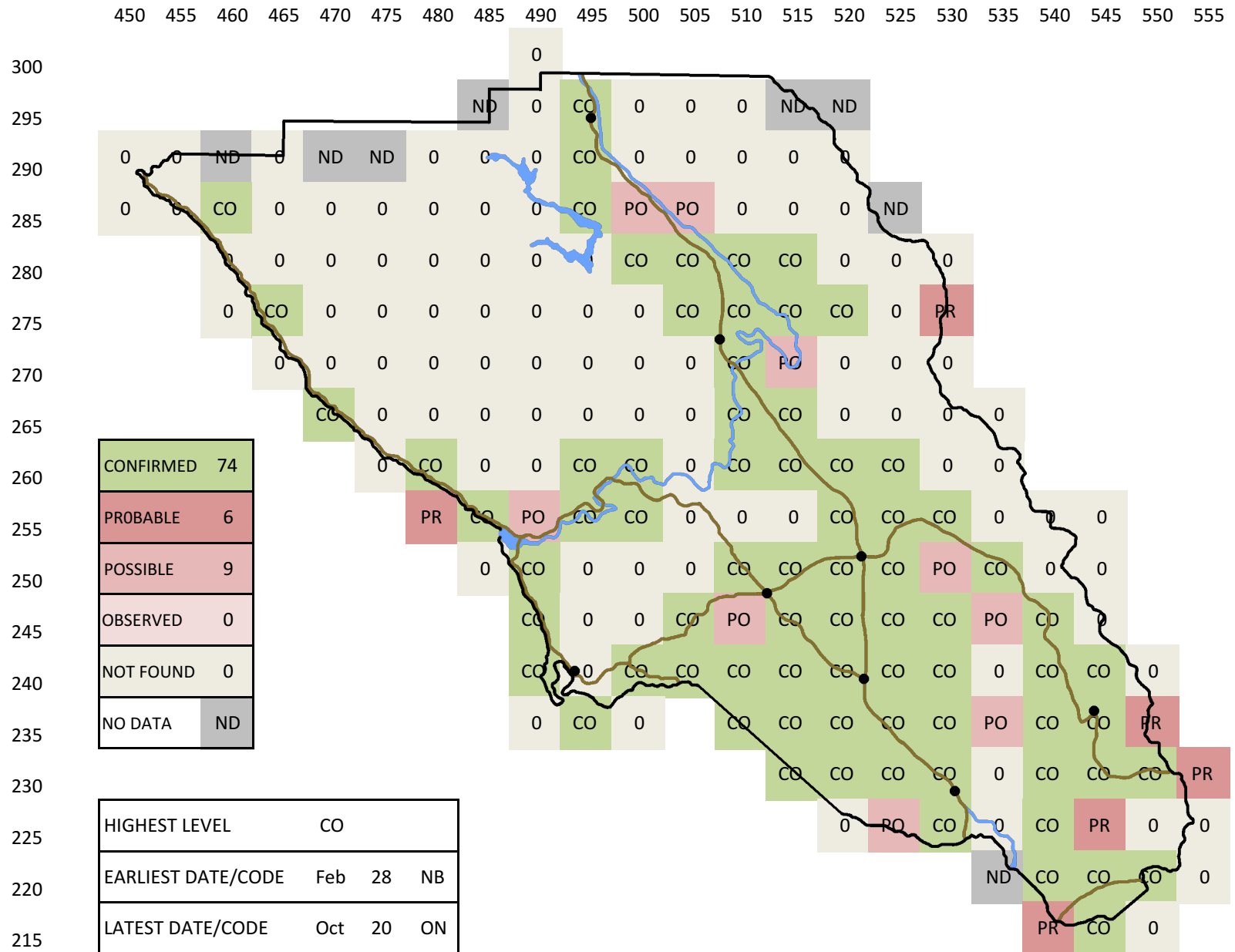
Atlas #2: 2011-2016

CEDAR WAXWING



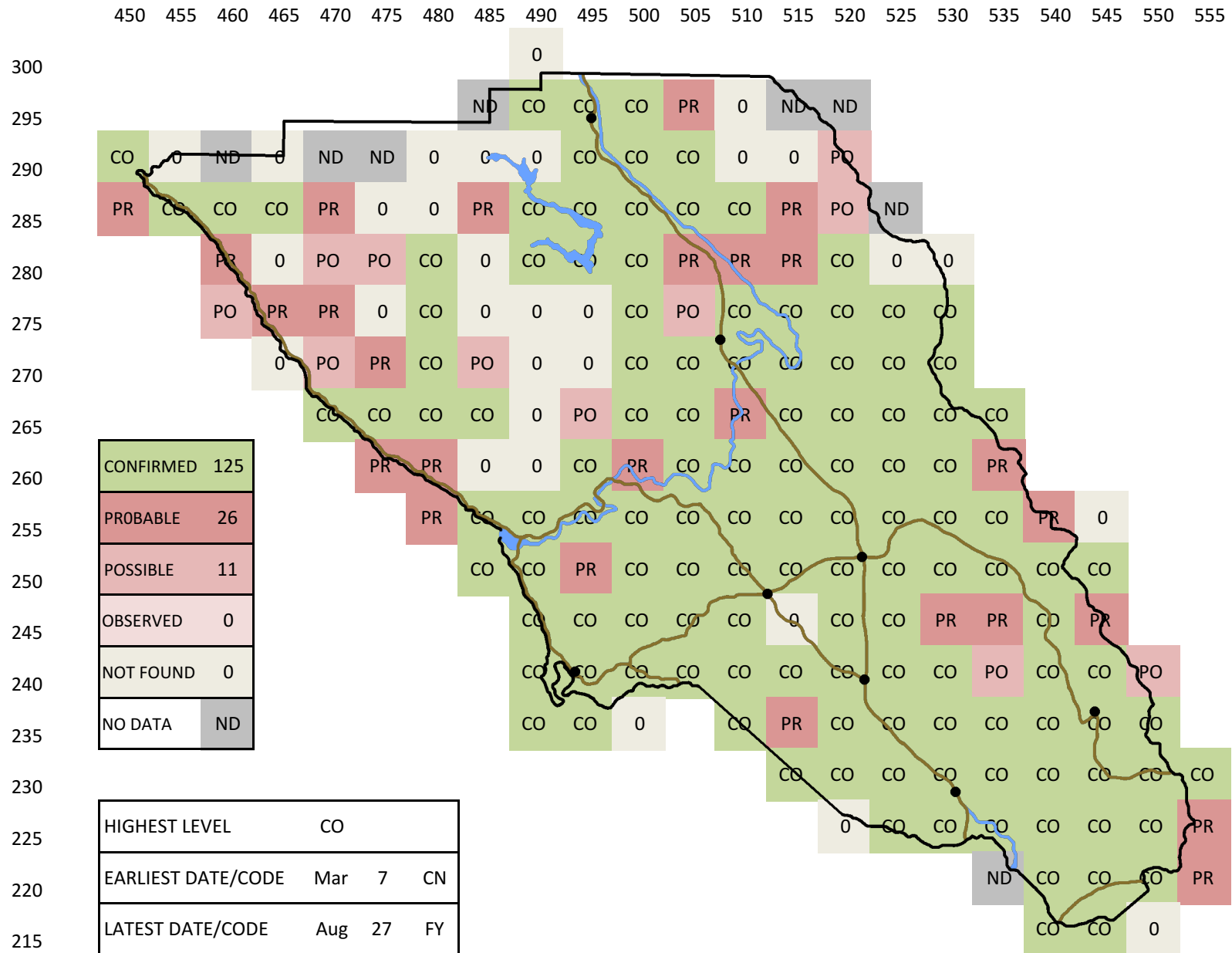
Atlas #2: 2011-2016

HOUSE SPARROW



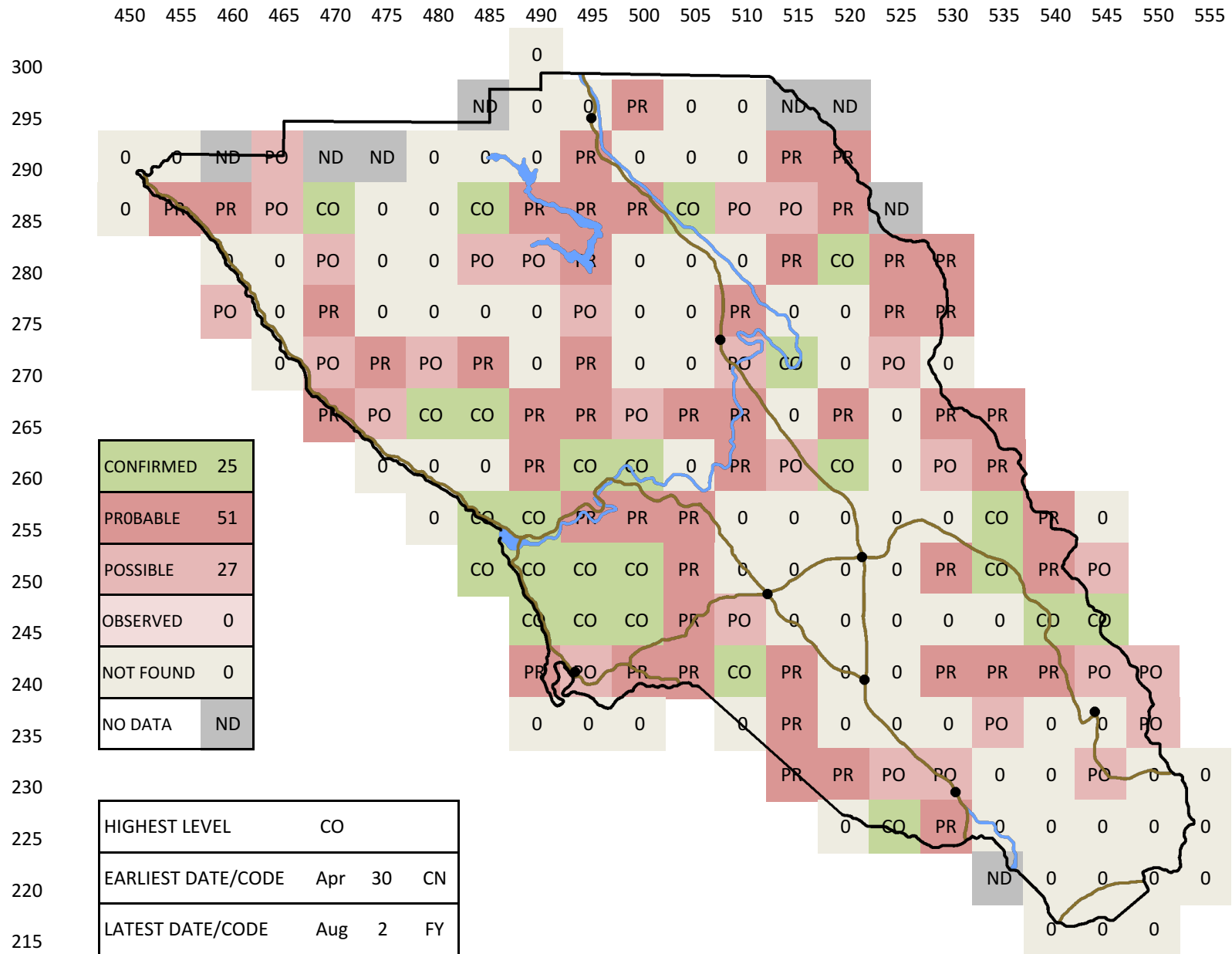
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HOUSE FINCH



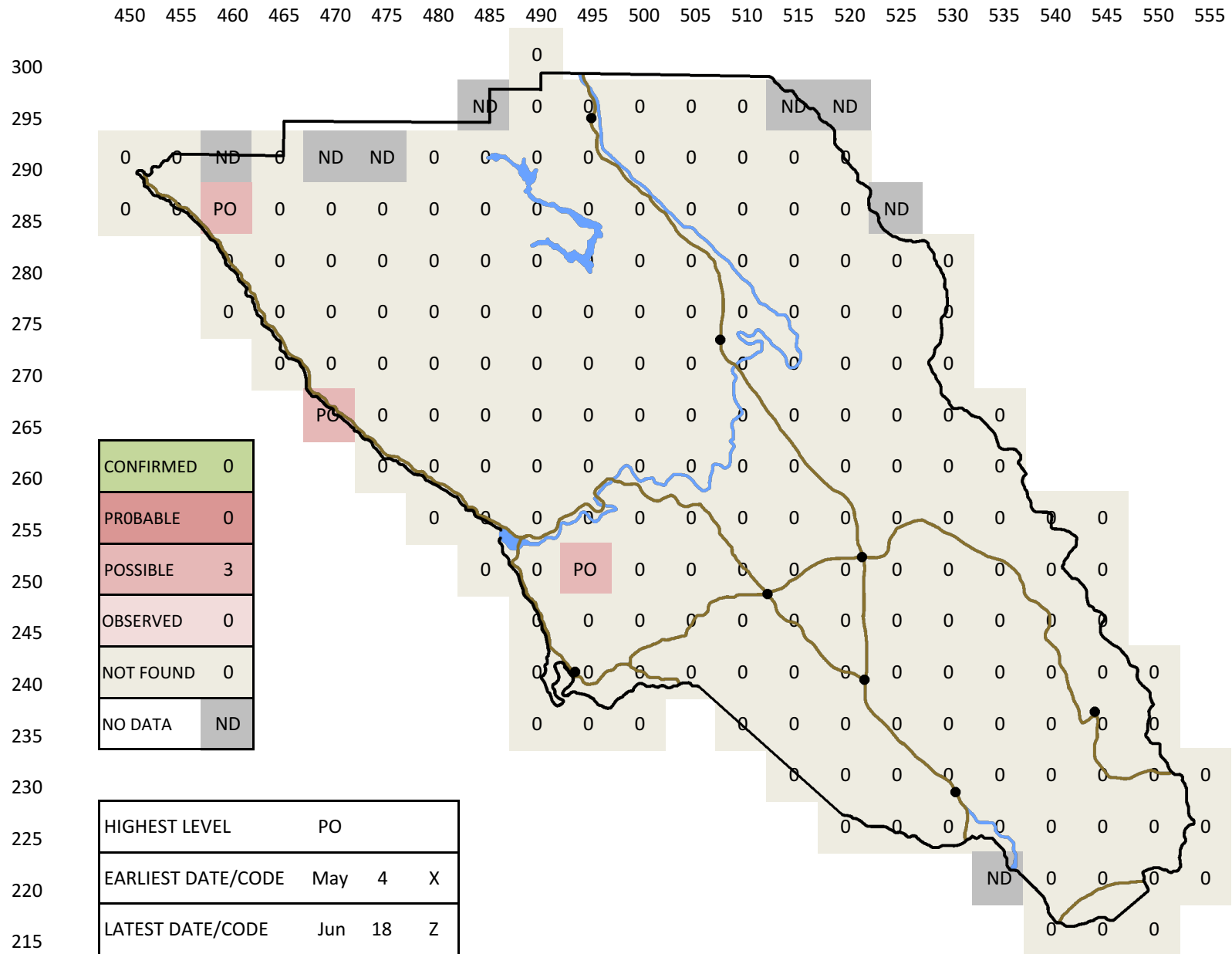
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PURPLE FINCH



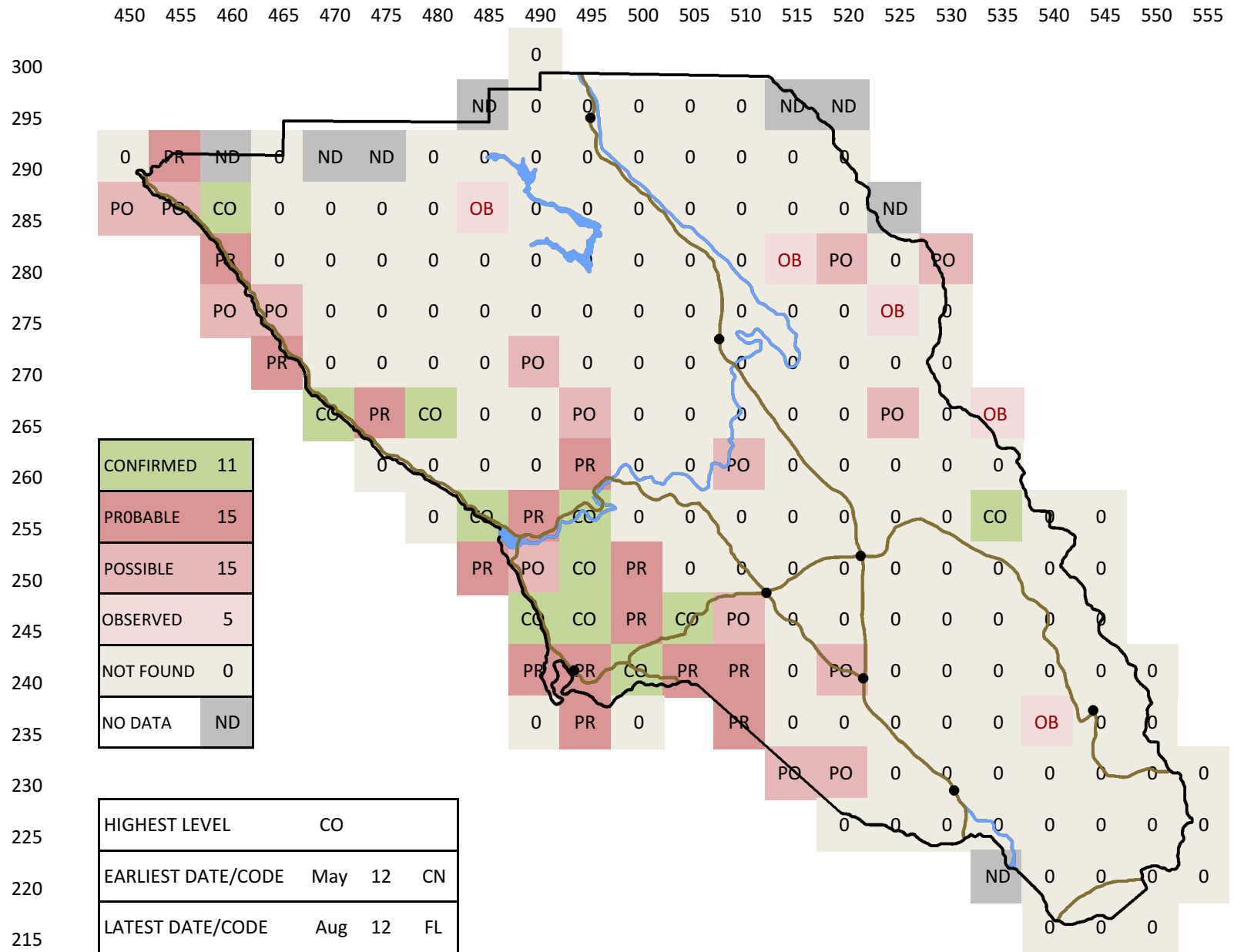
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RED CROSSBILL



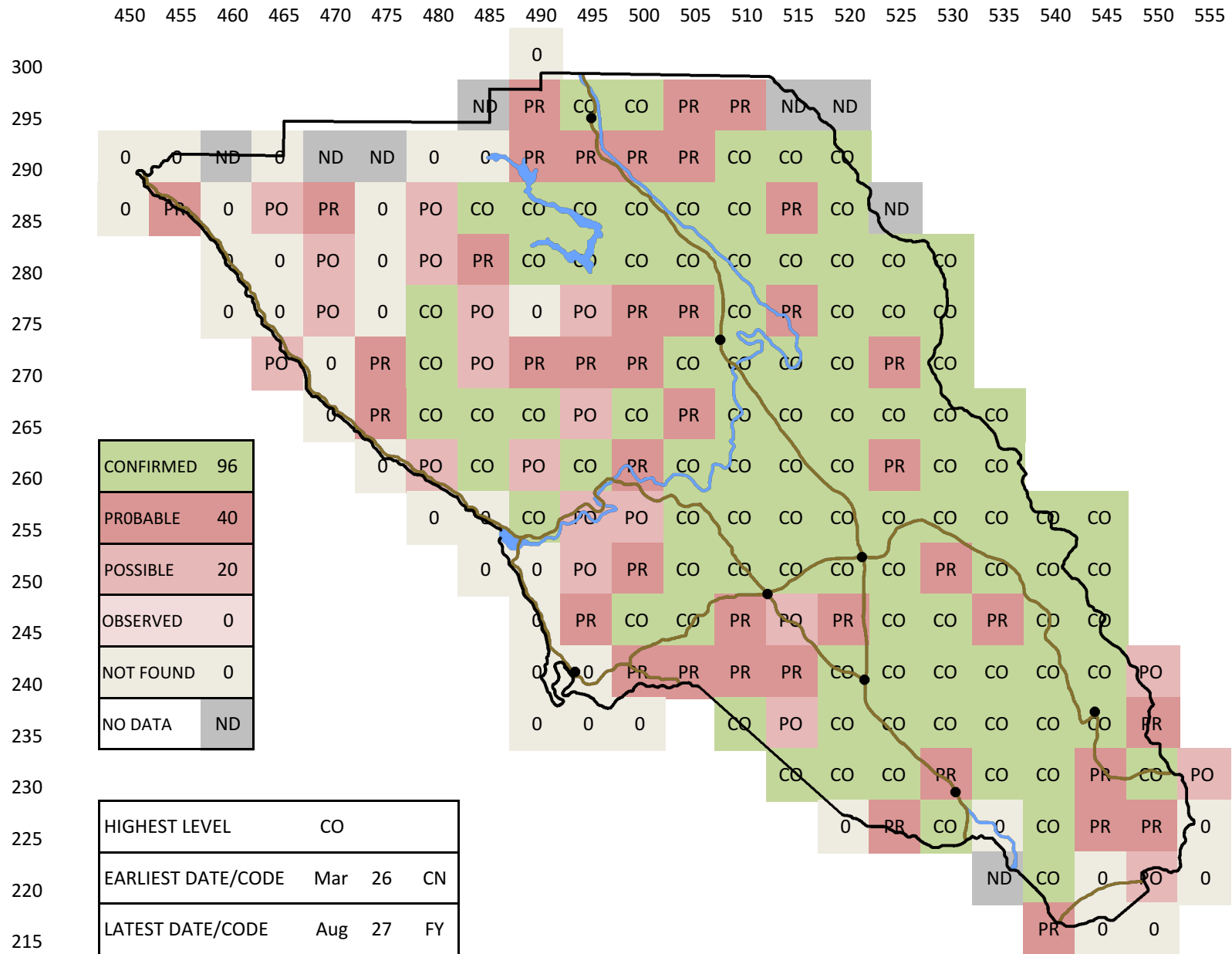
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PINE SISKIN

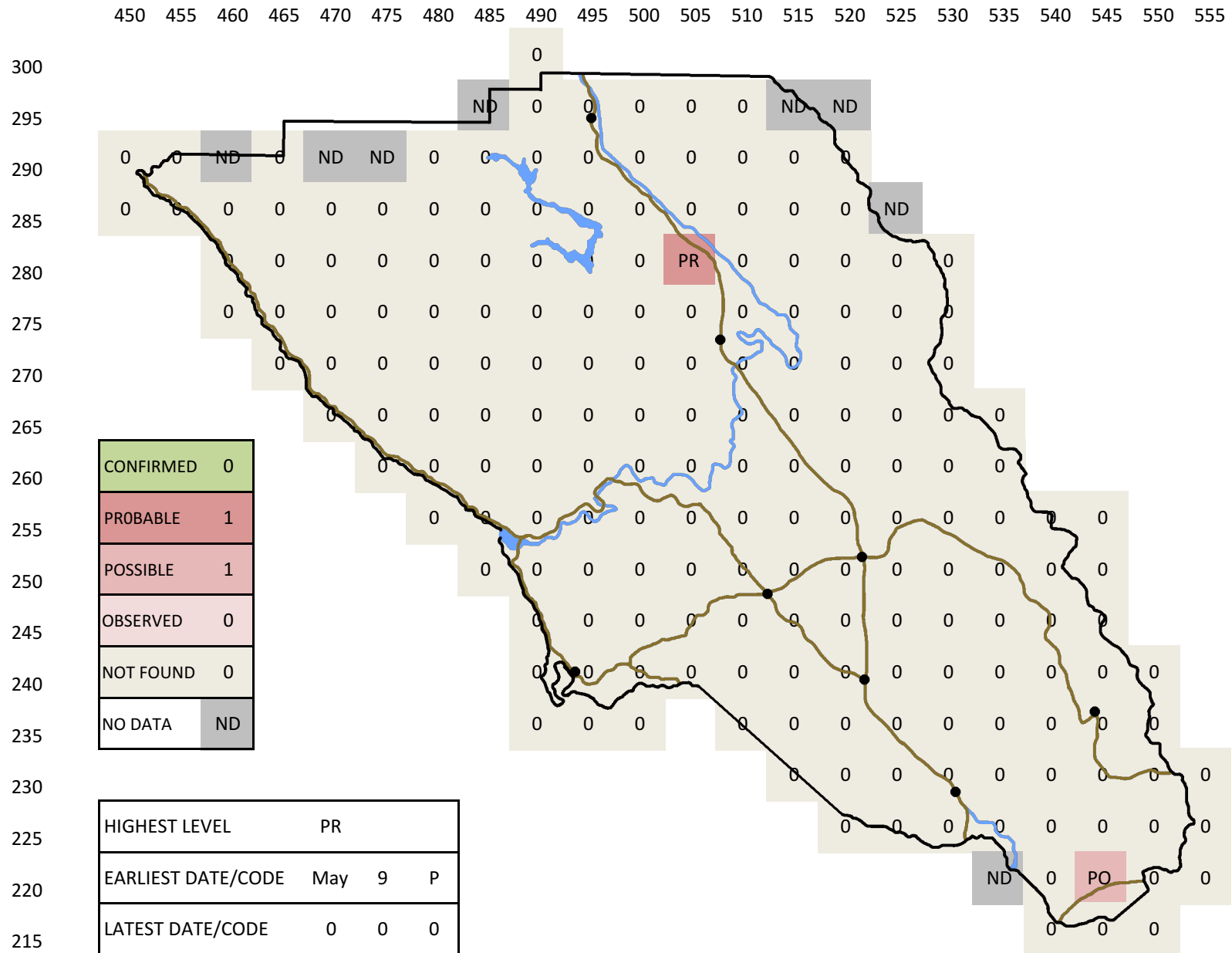


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LESSER GOLDFINCH

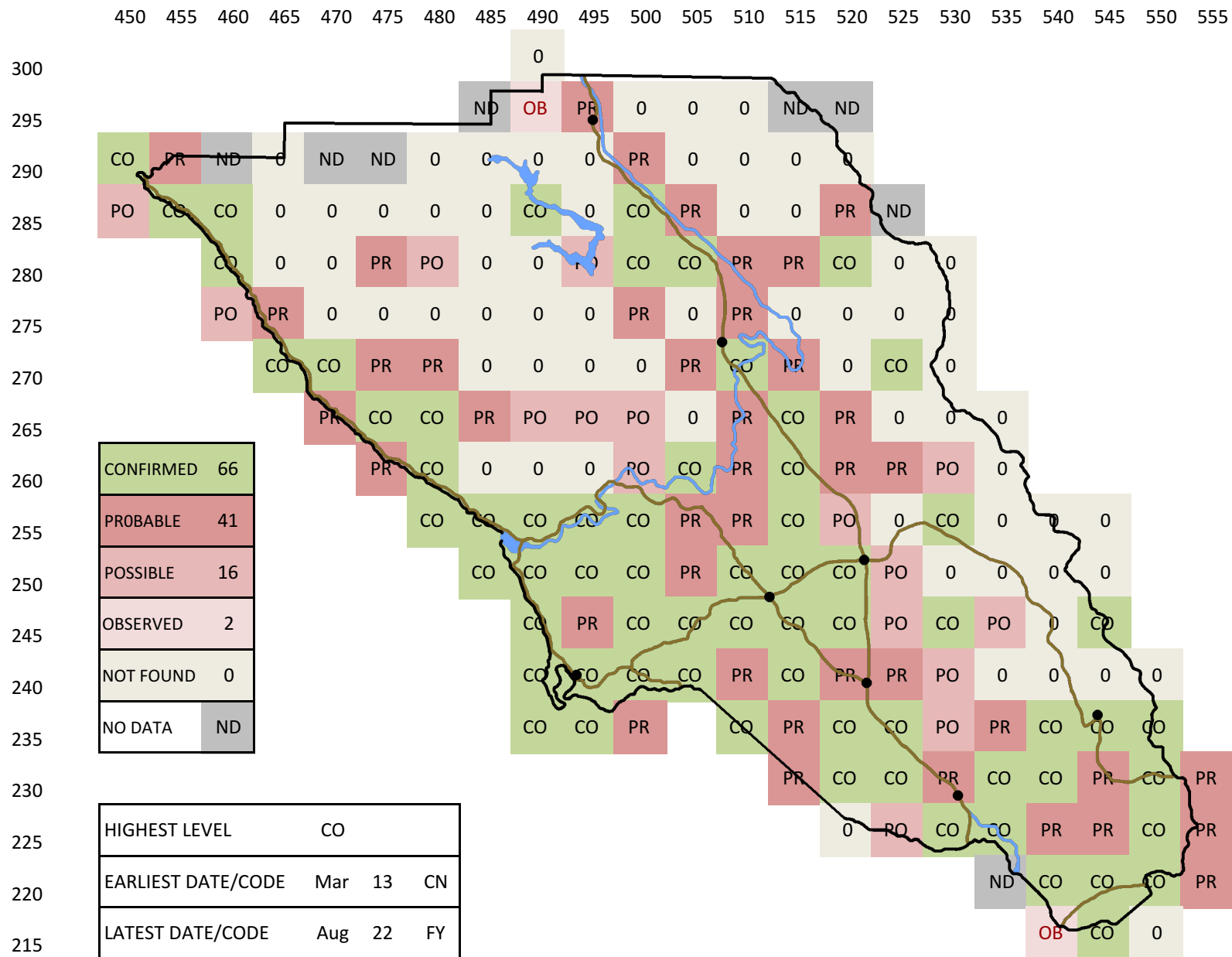


LAWRENCE'S GOLDFINCH



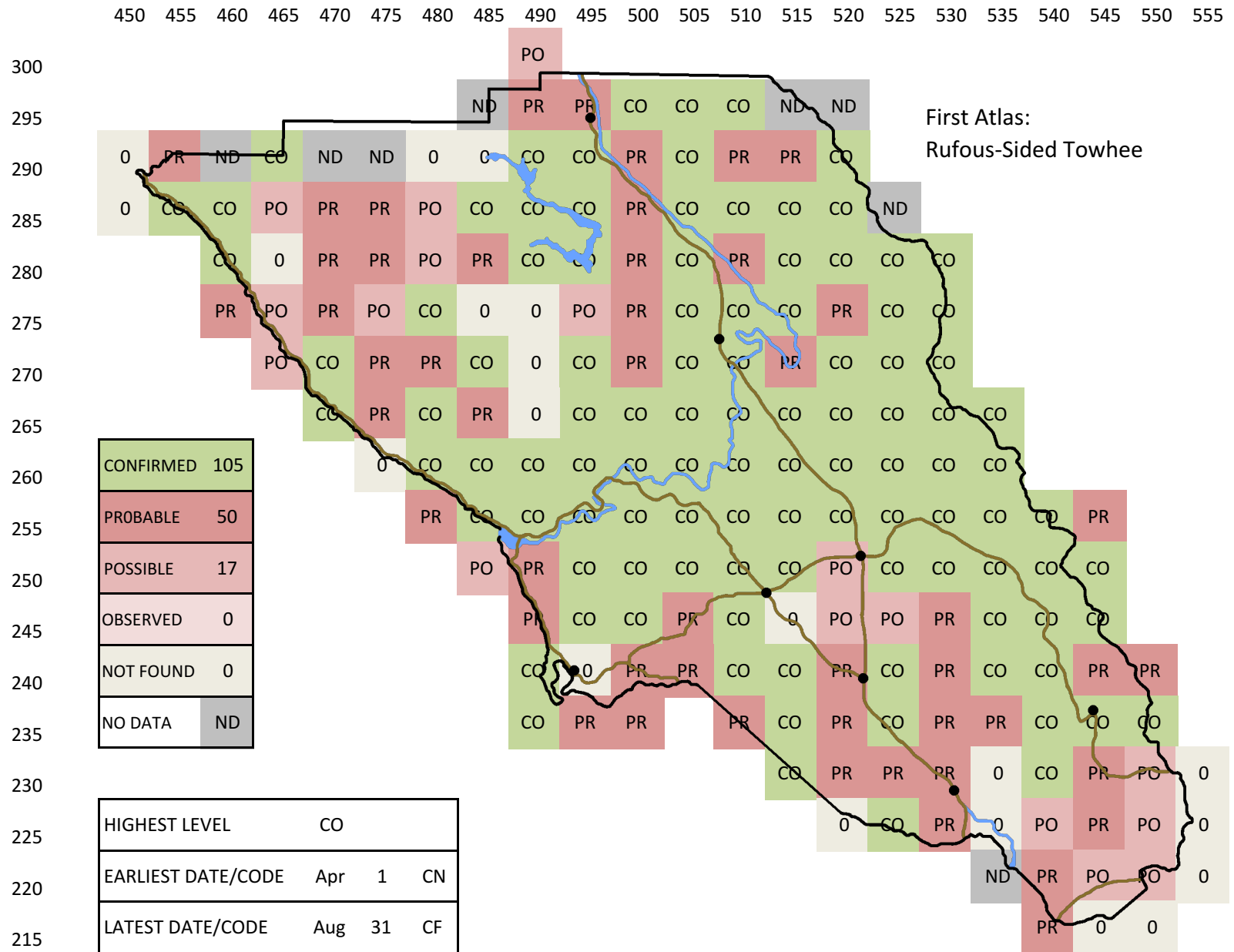
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AMERICAN GOLDFINCH



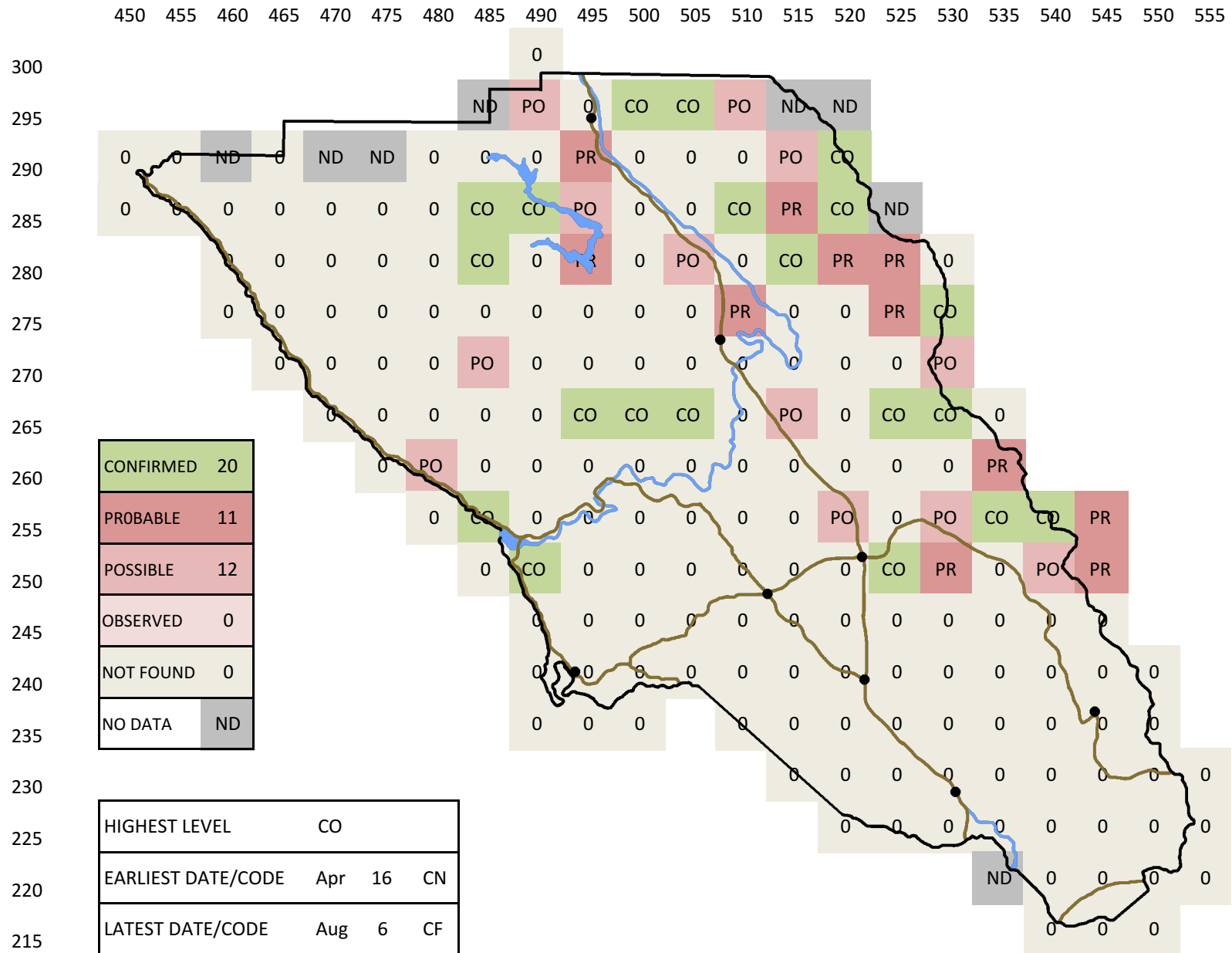
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SPOTTED TOWHEE

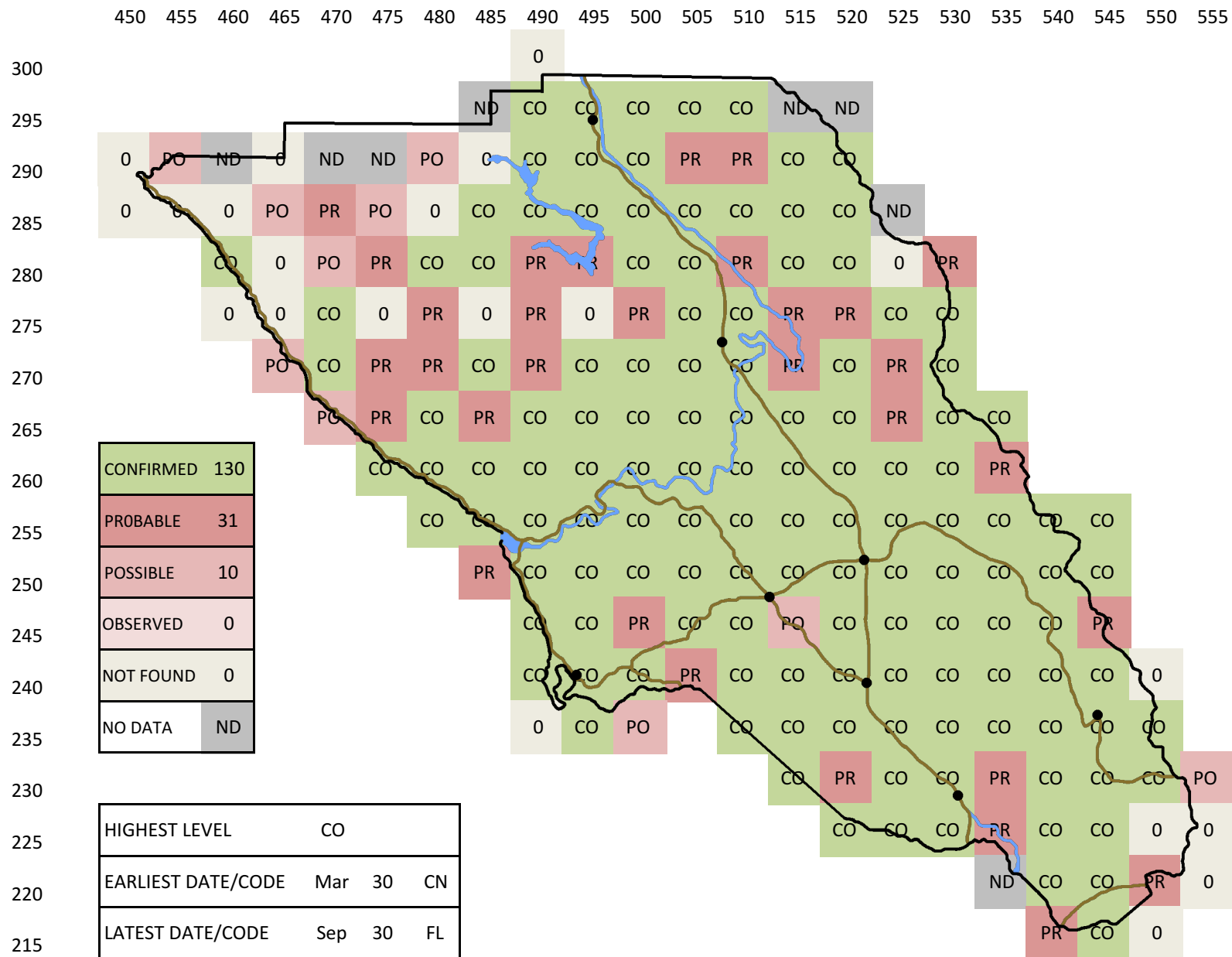


Atlas #2: 2011-2016

RUFOUS-CROWNED SPARROW

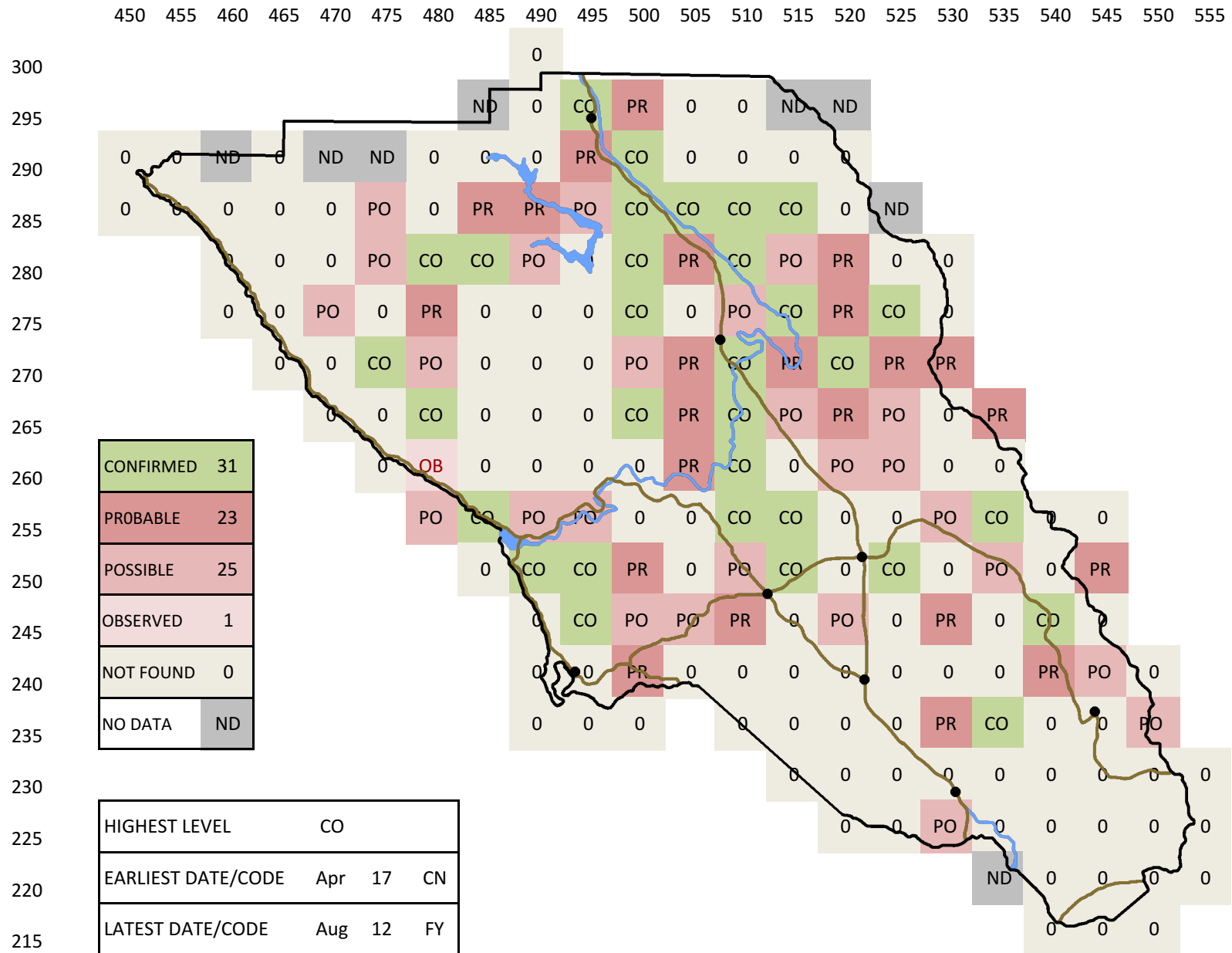


CALIFORNIA TOWHEE



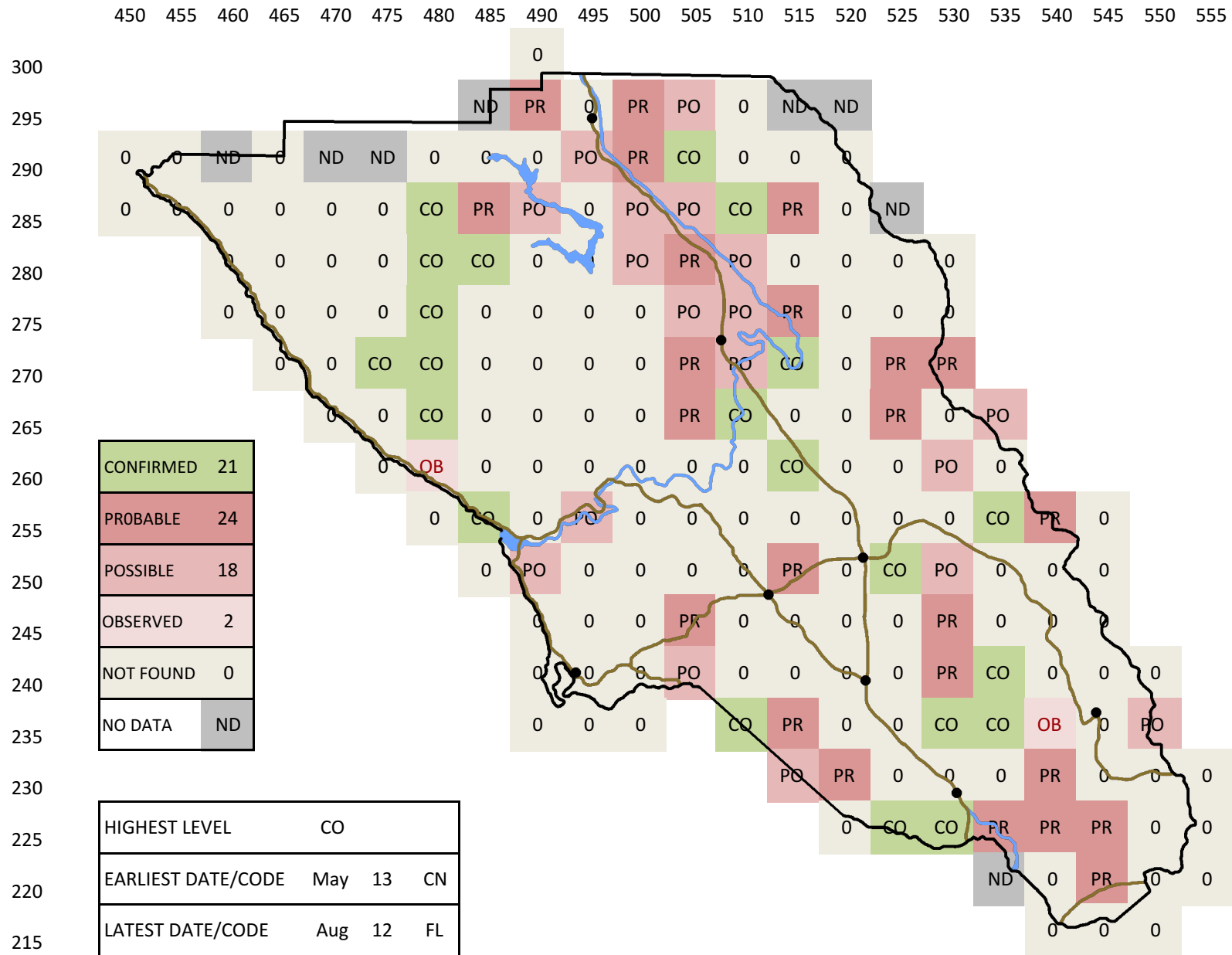
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CHIPPING SPARROW



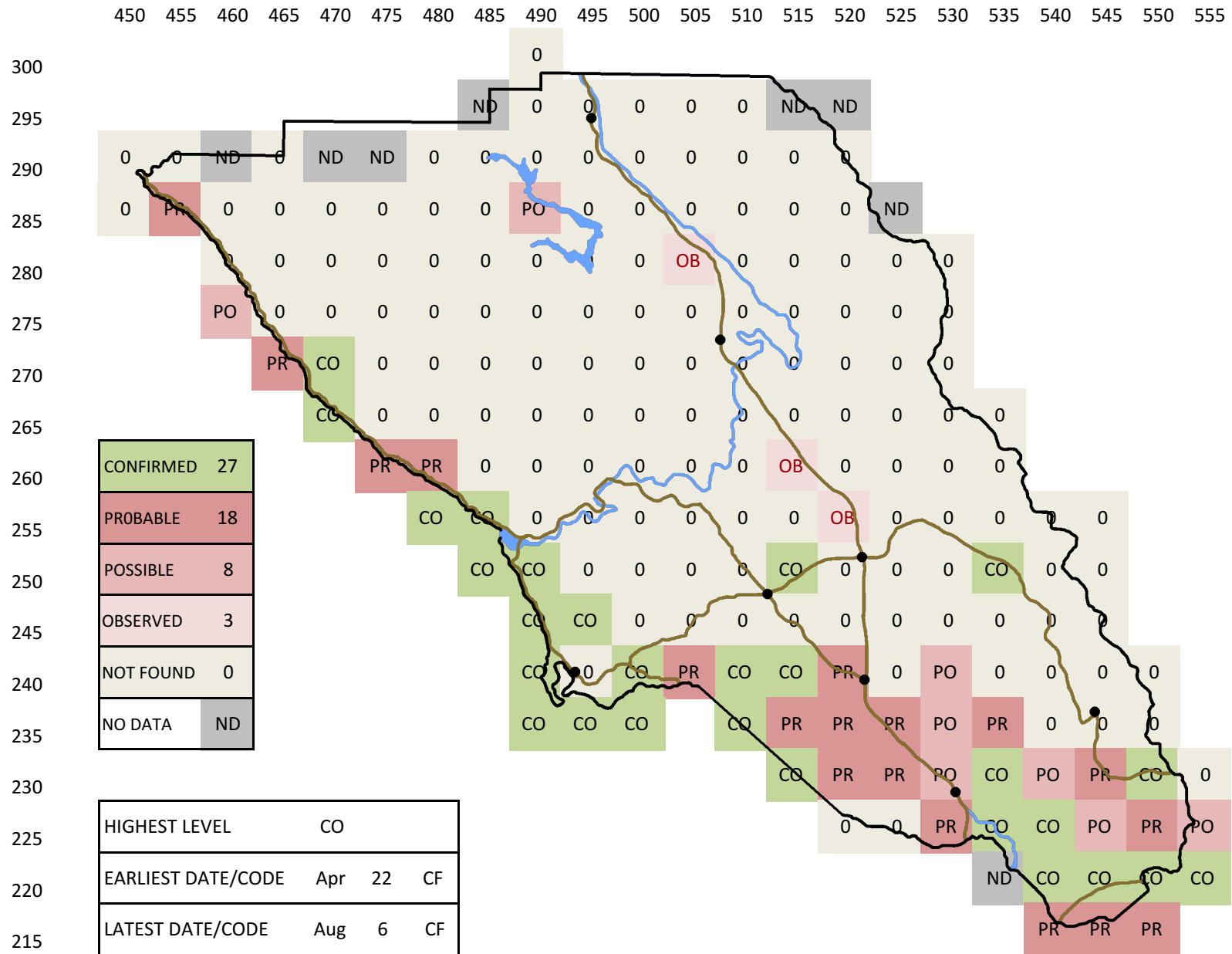
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LARK SPARROW



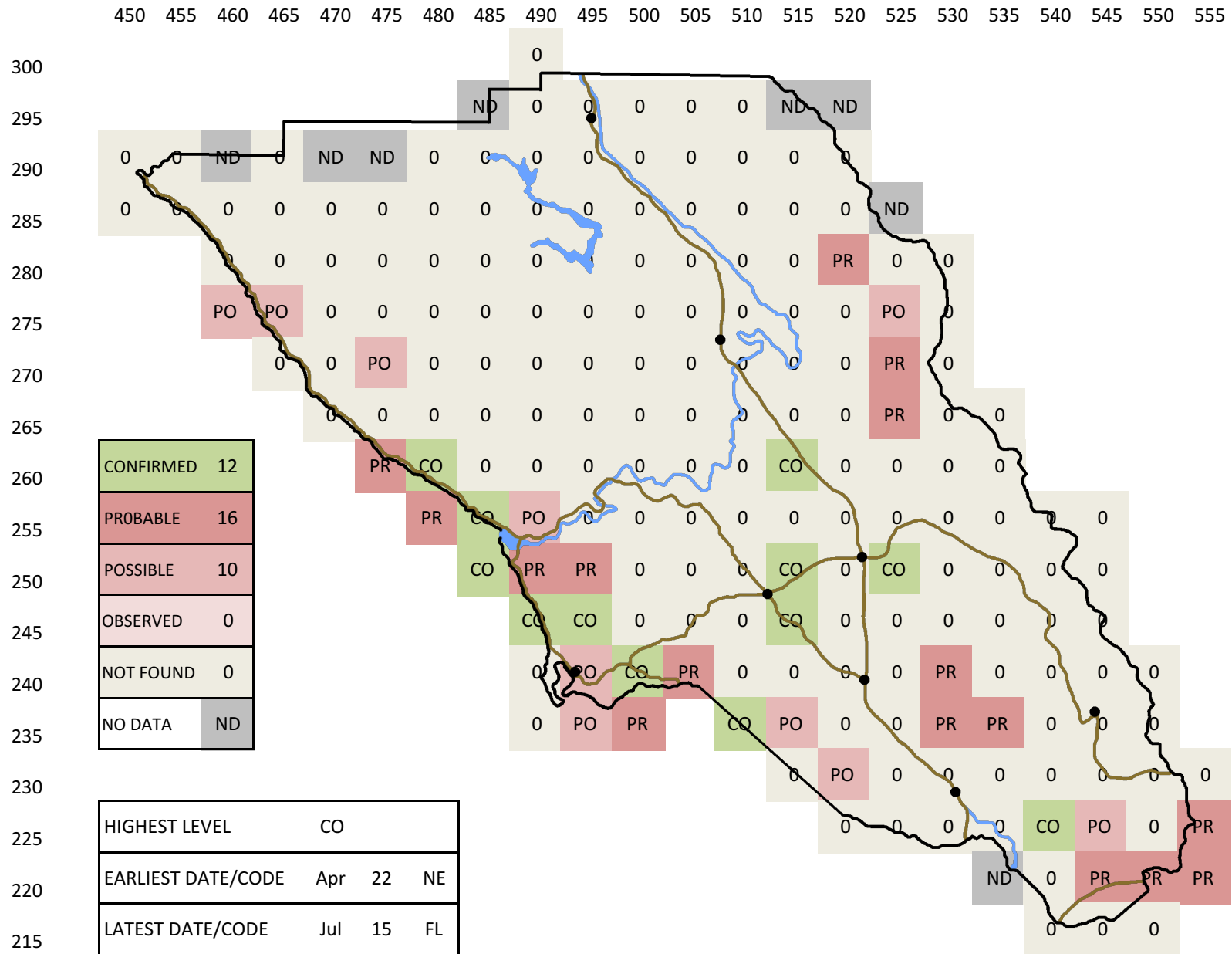
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SAVANNAH SPARROW



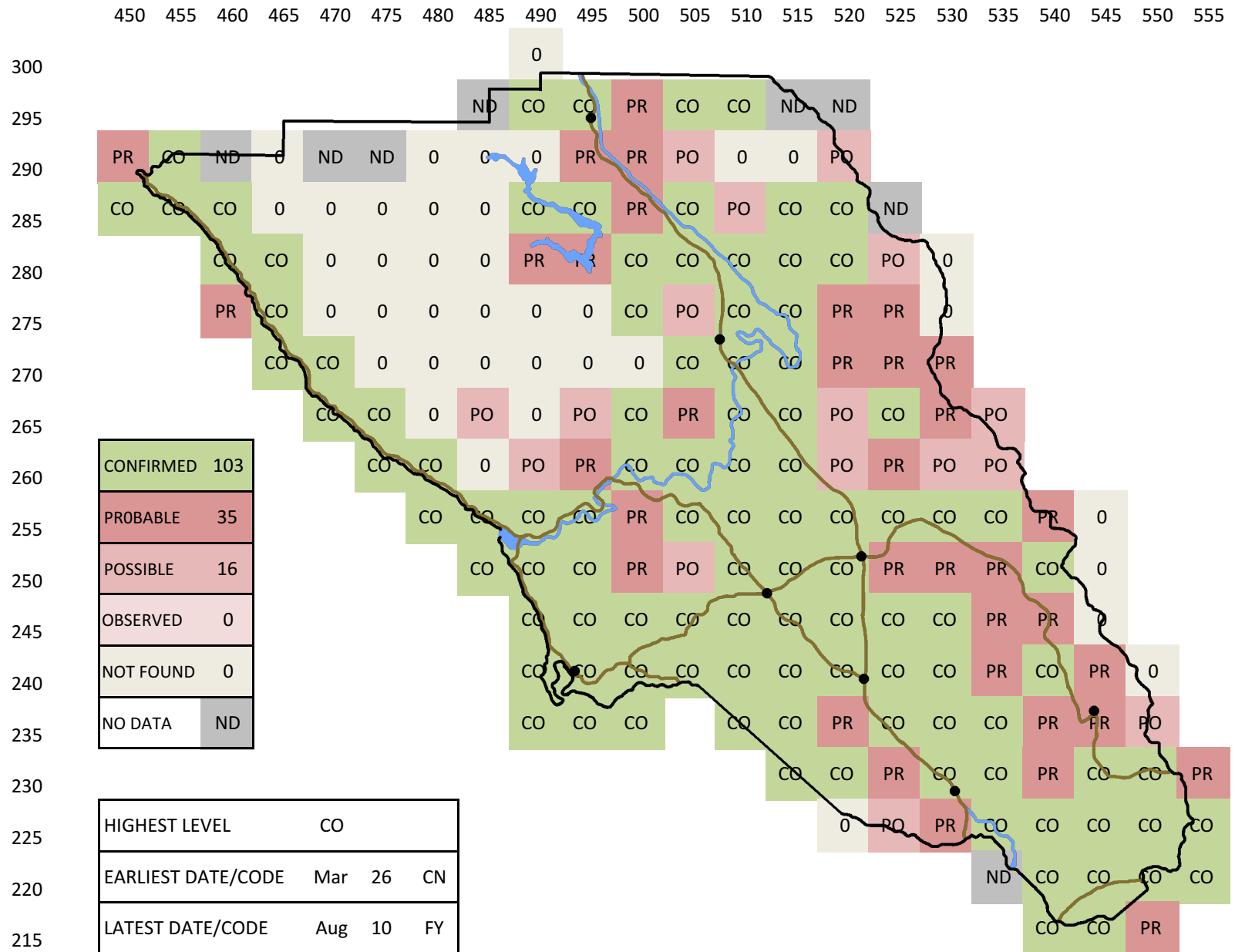
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GRASSHOPPER SPARROW



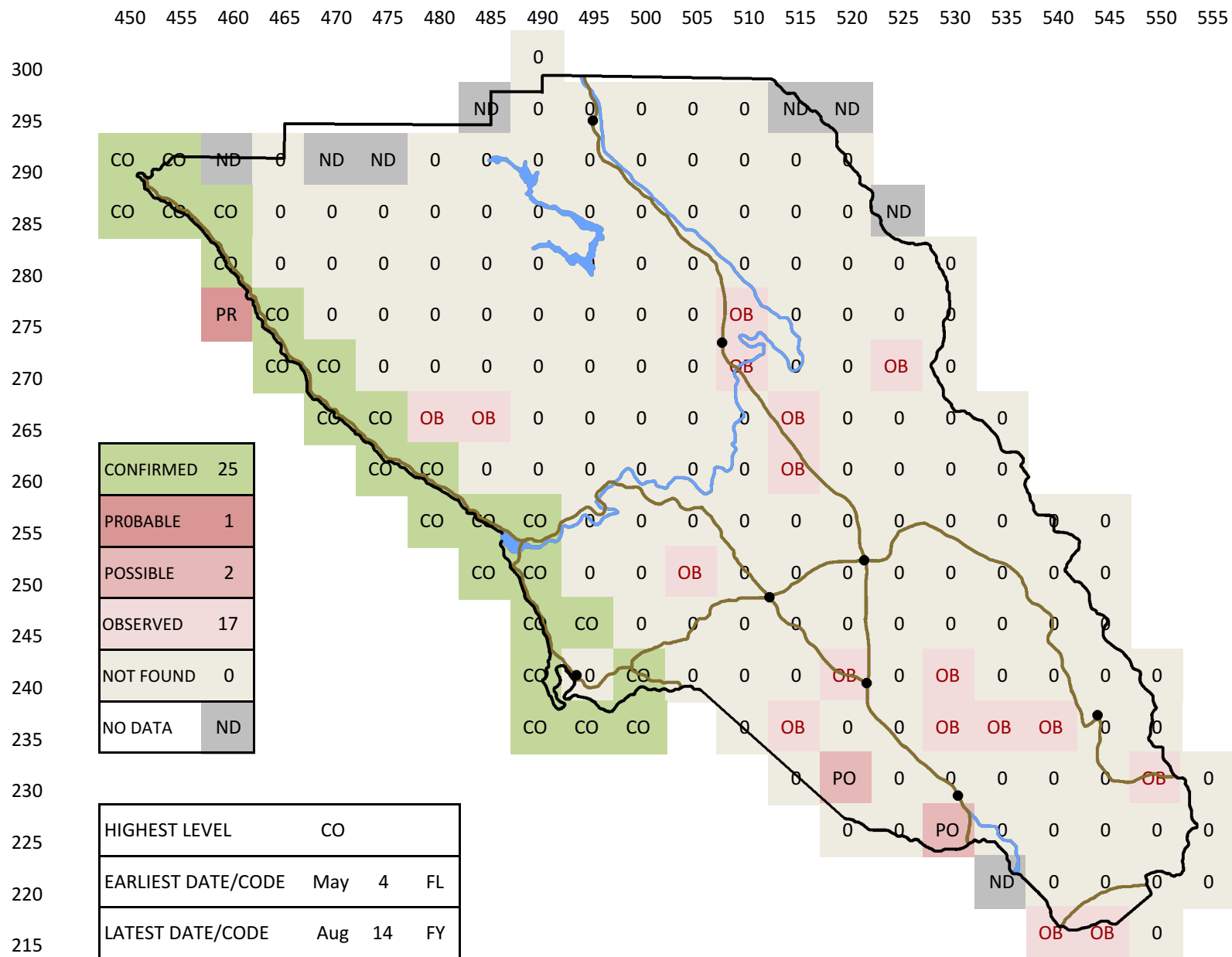
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SONG SPARROW



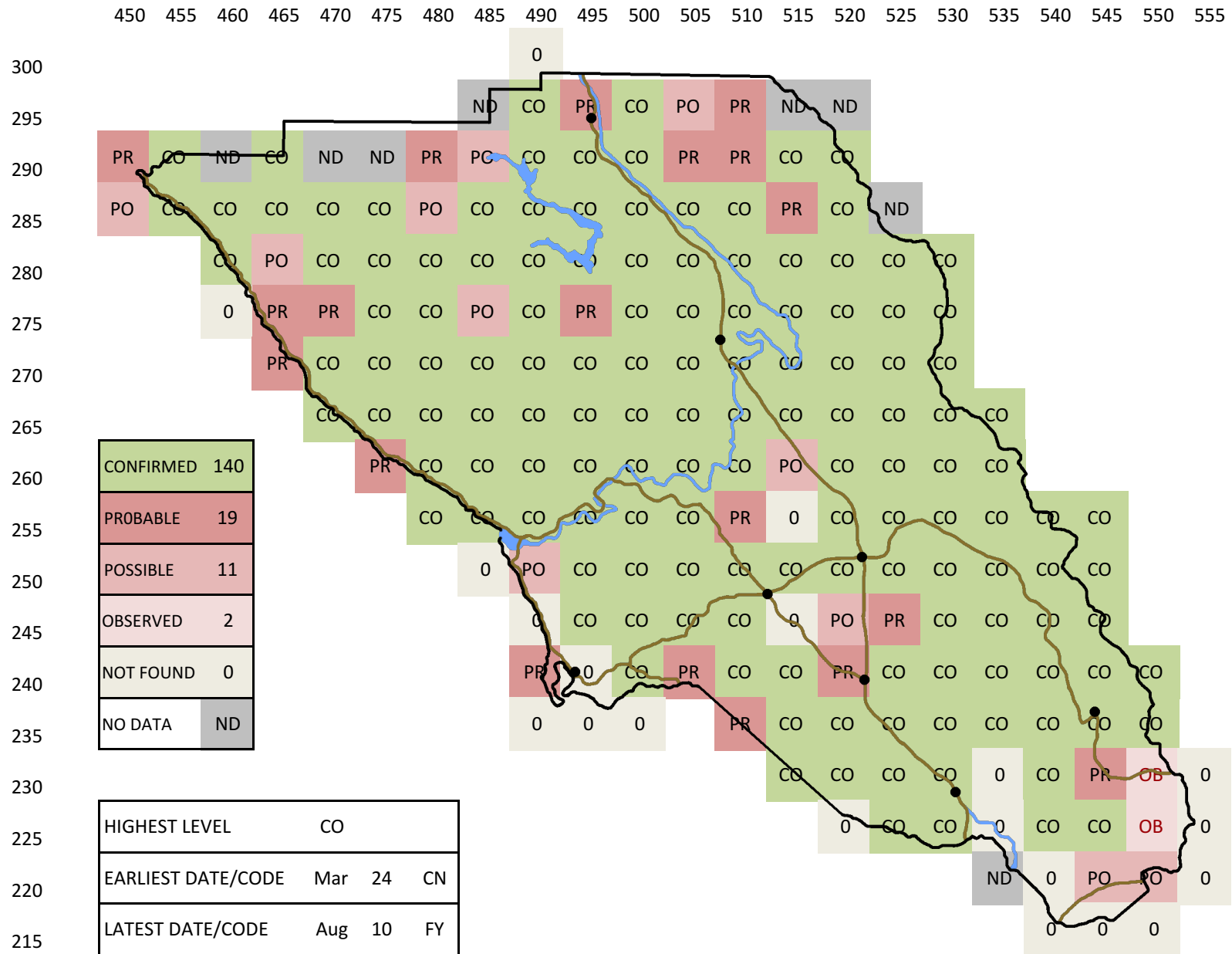
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WHITE-CROWNED SPARROW



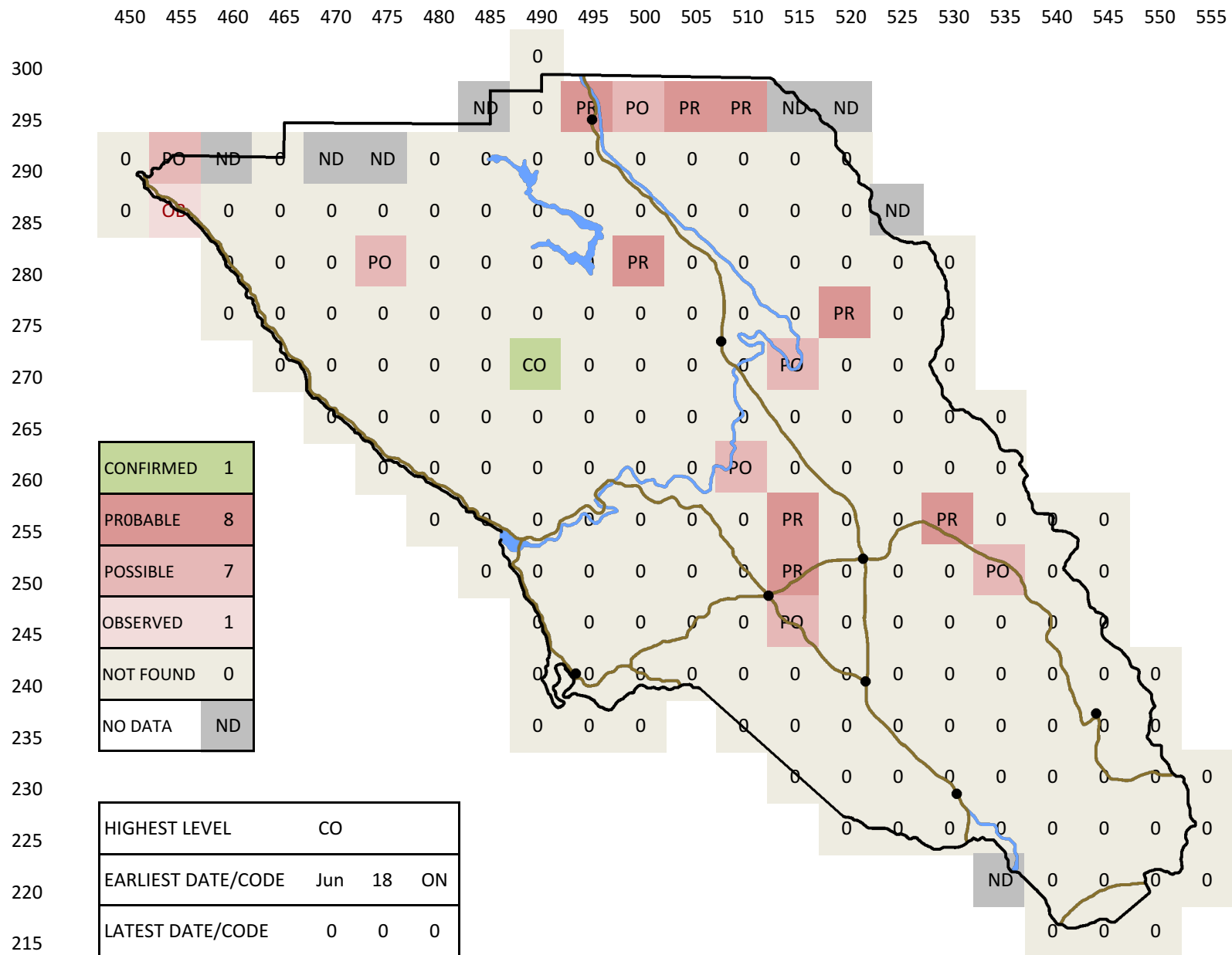
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DARK-EYED JUNCO



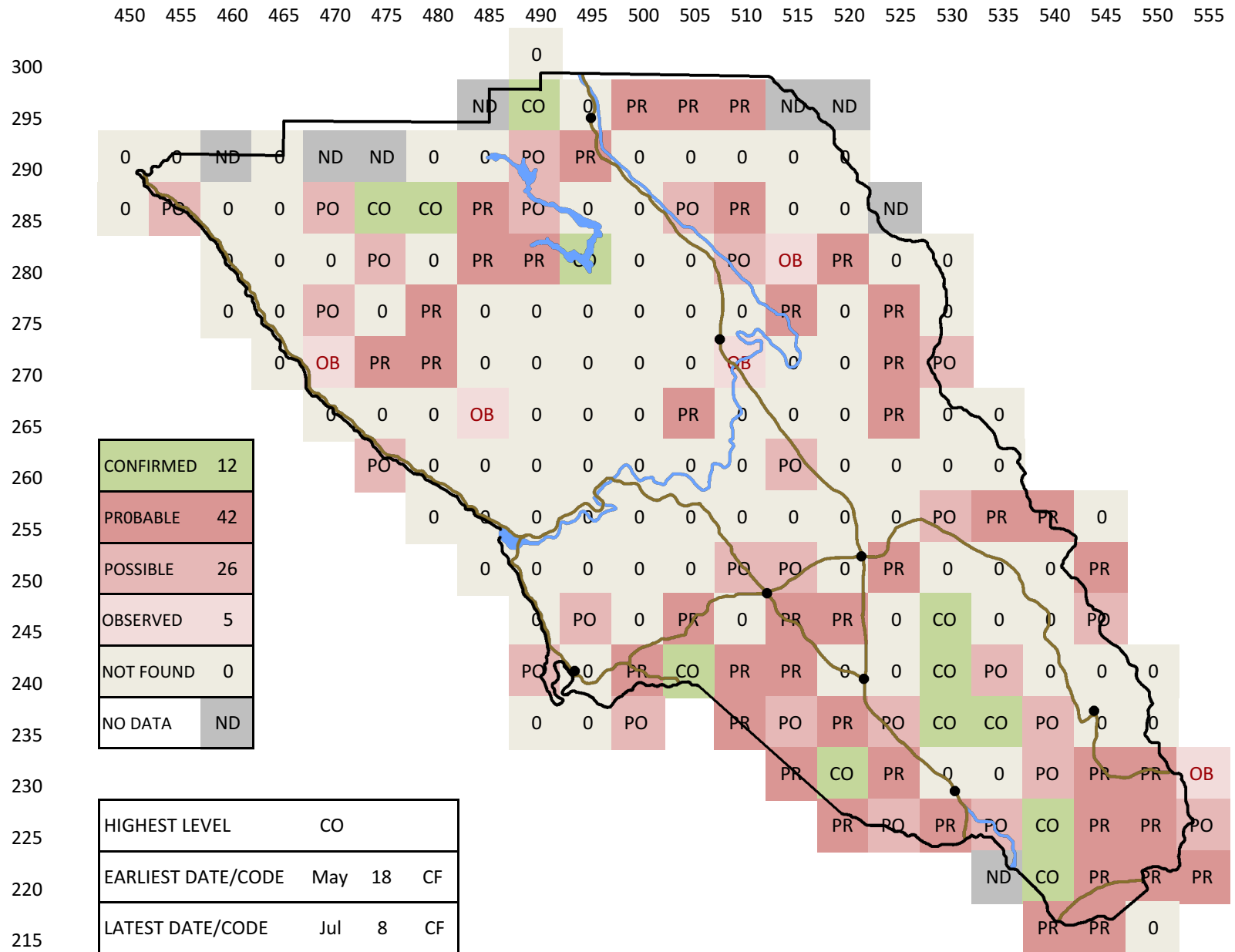
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YELLOW-BREASTED CHAT

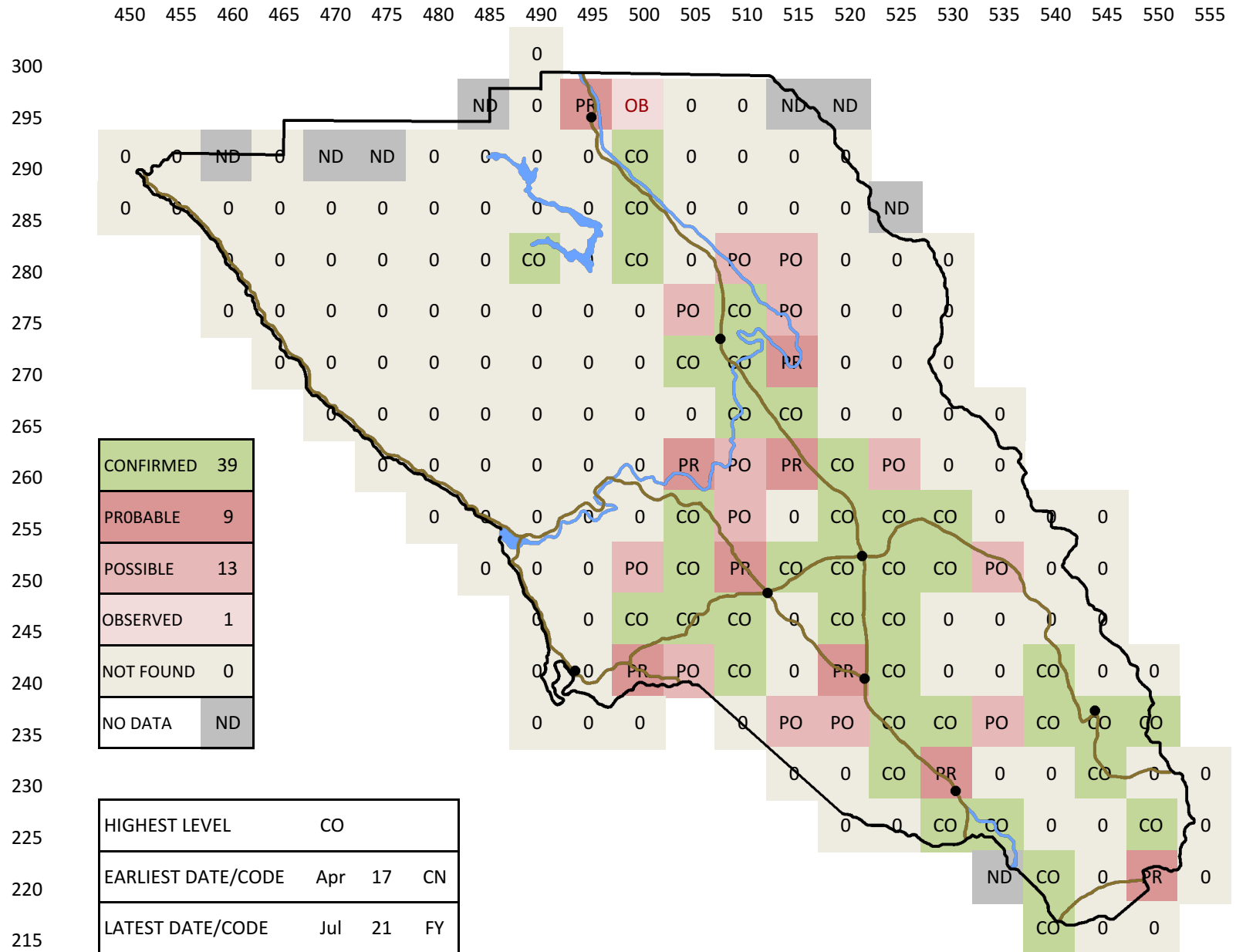


Atlas #2: 2011-2016

WESTERN MEADOWLARK

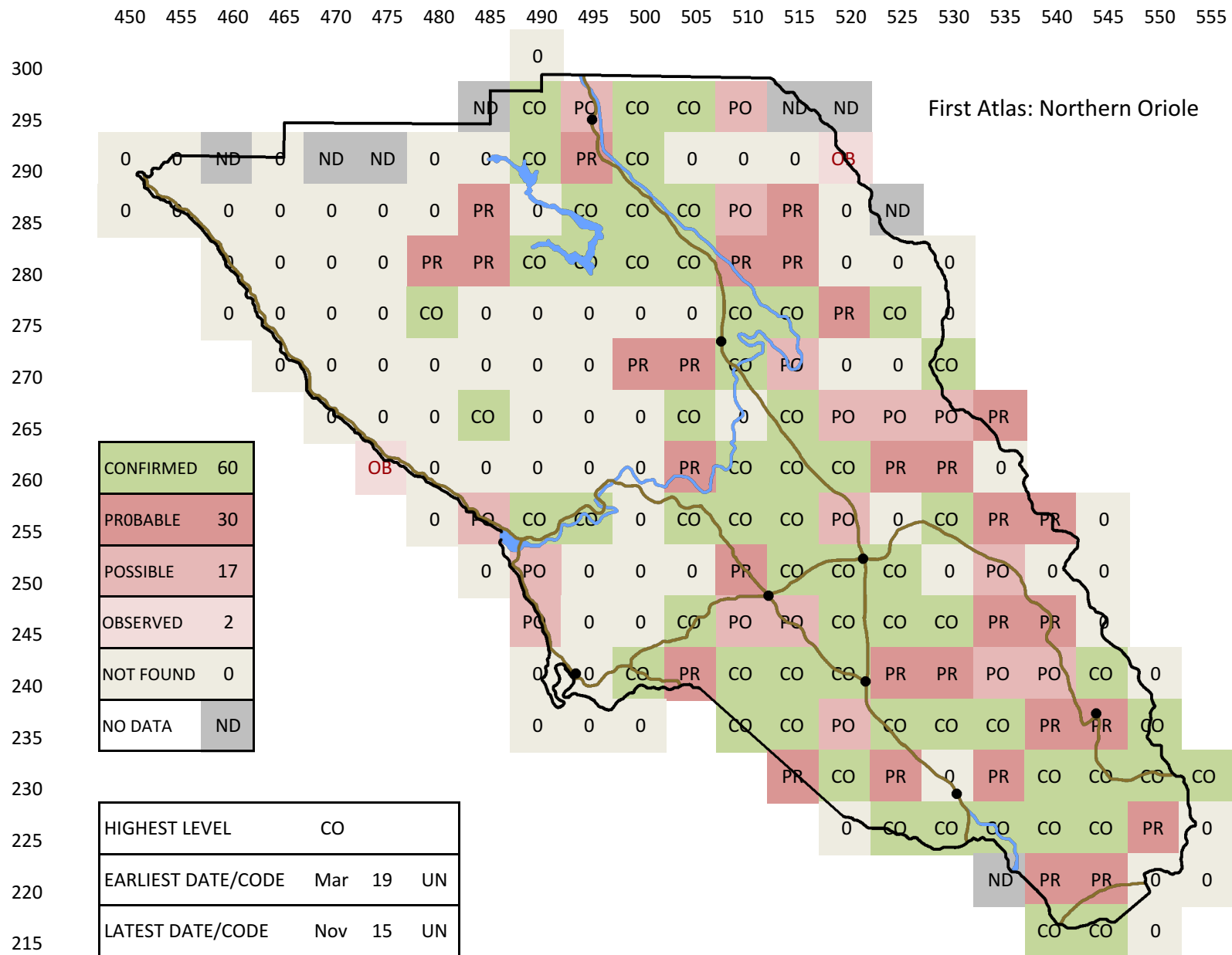


HOODED ORIOLE



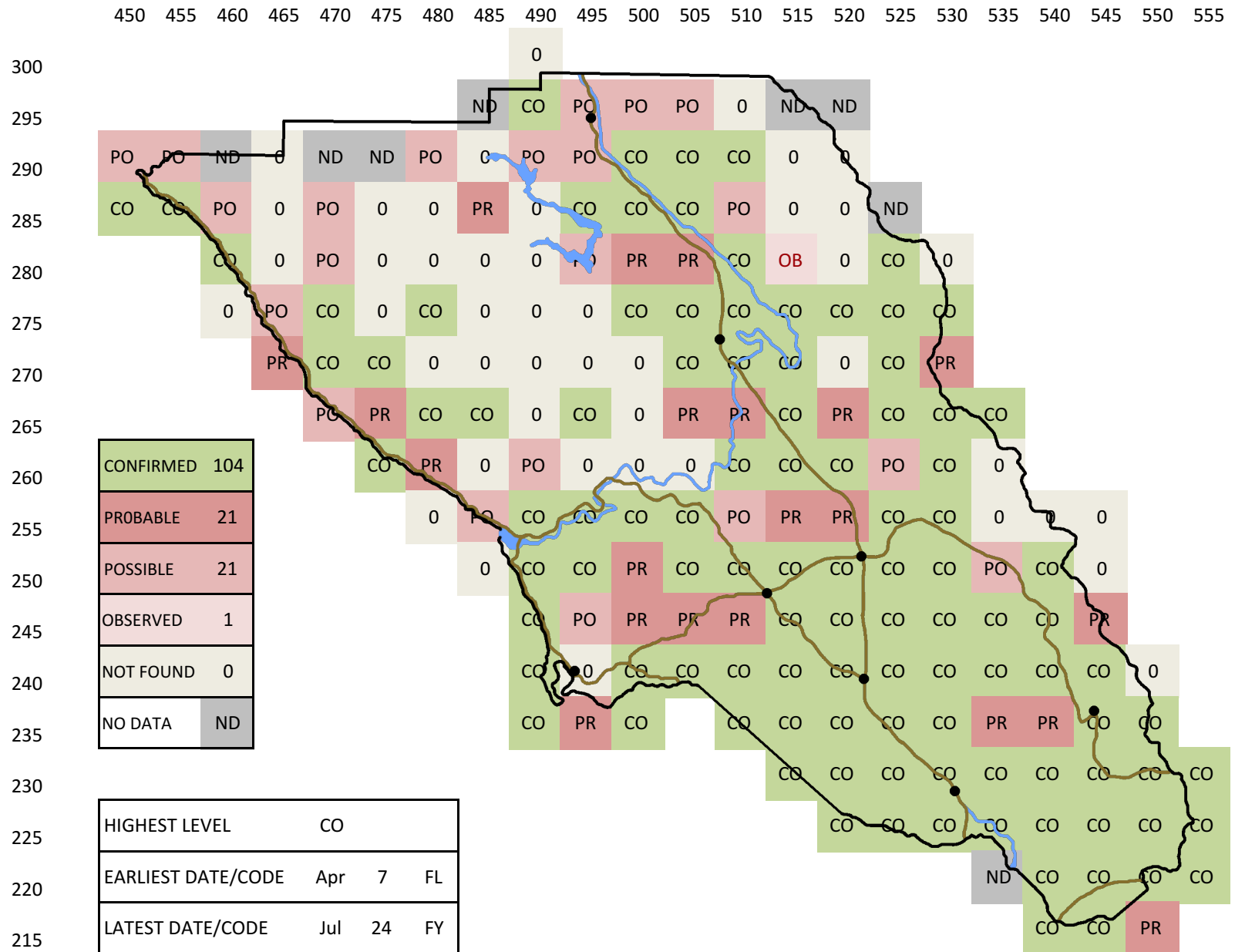
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BULLOCK'S ORIOLE



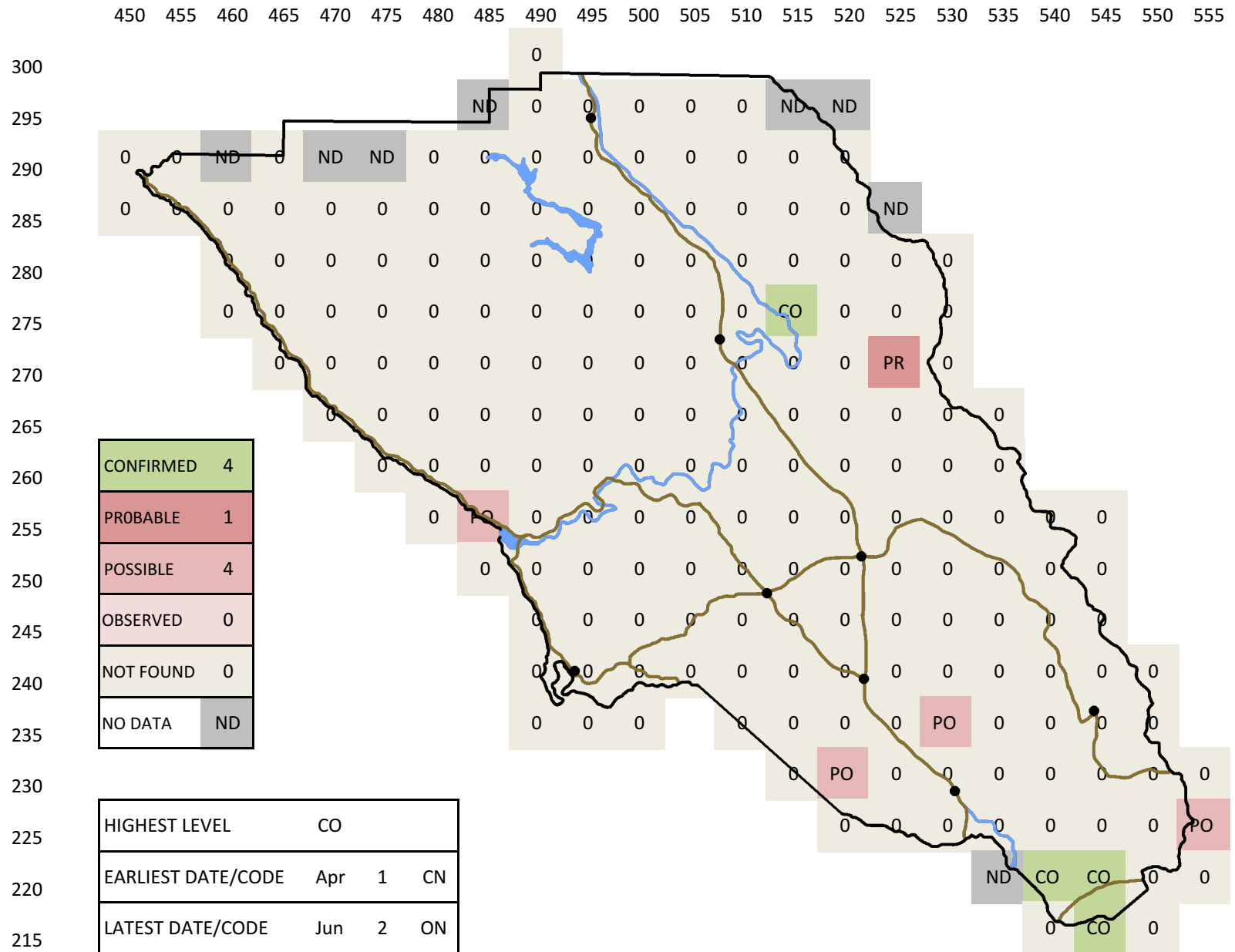
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RED-WINGED BLACKBIRD



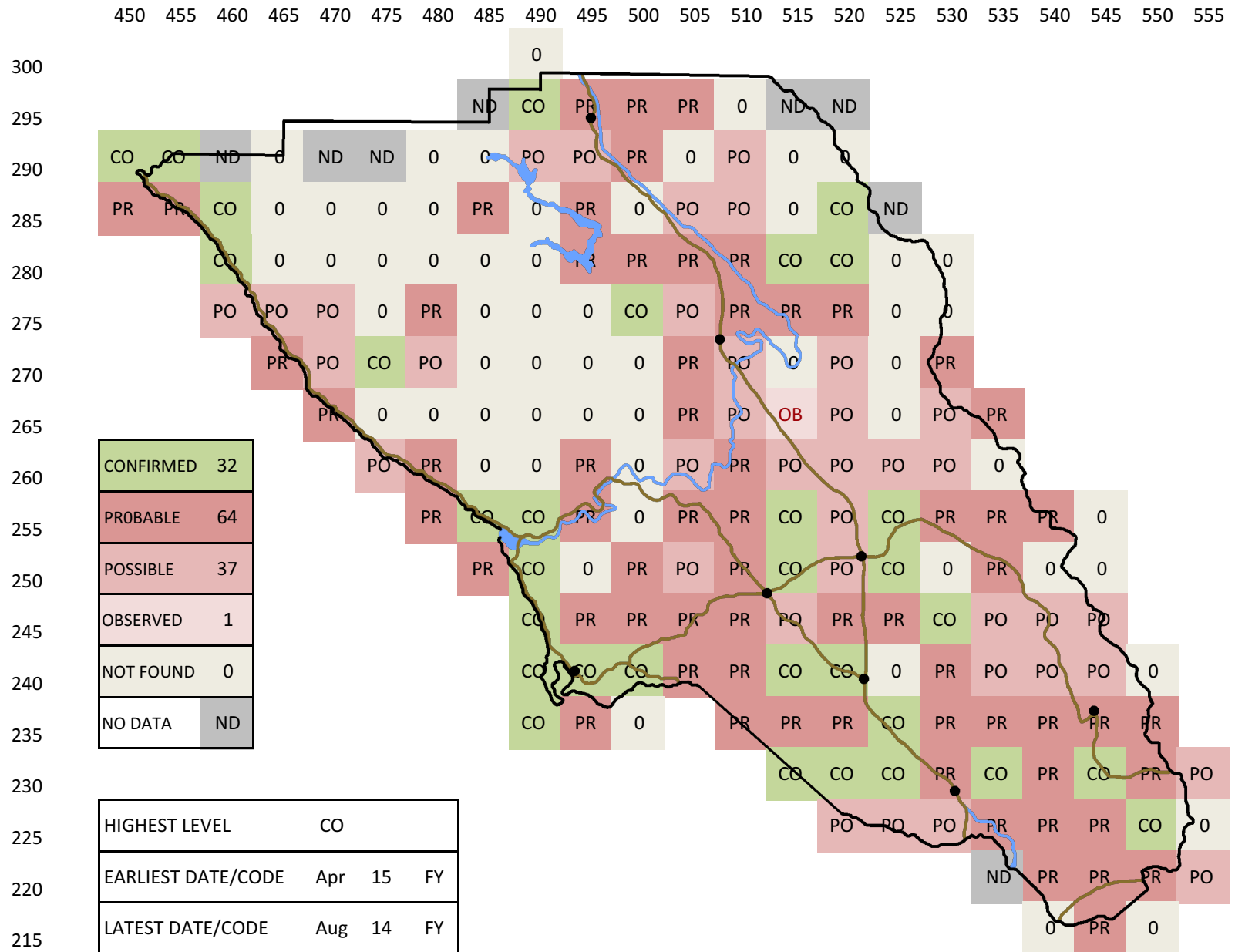
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TRICOLORED BLACKBIRD



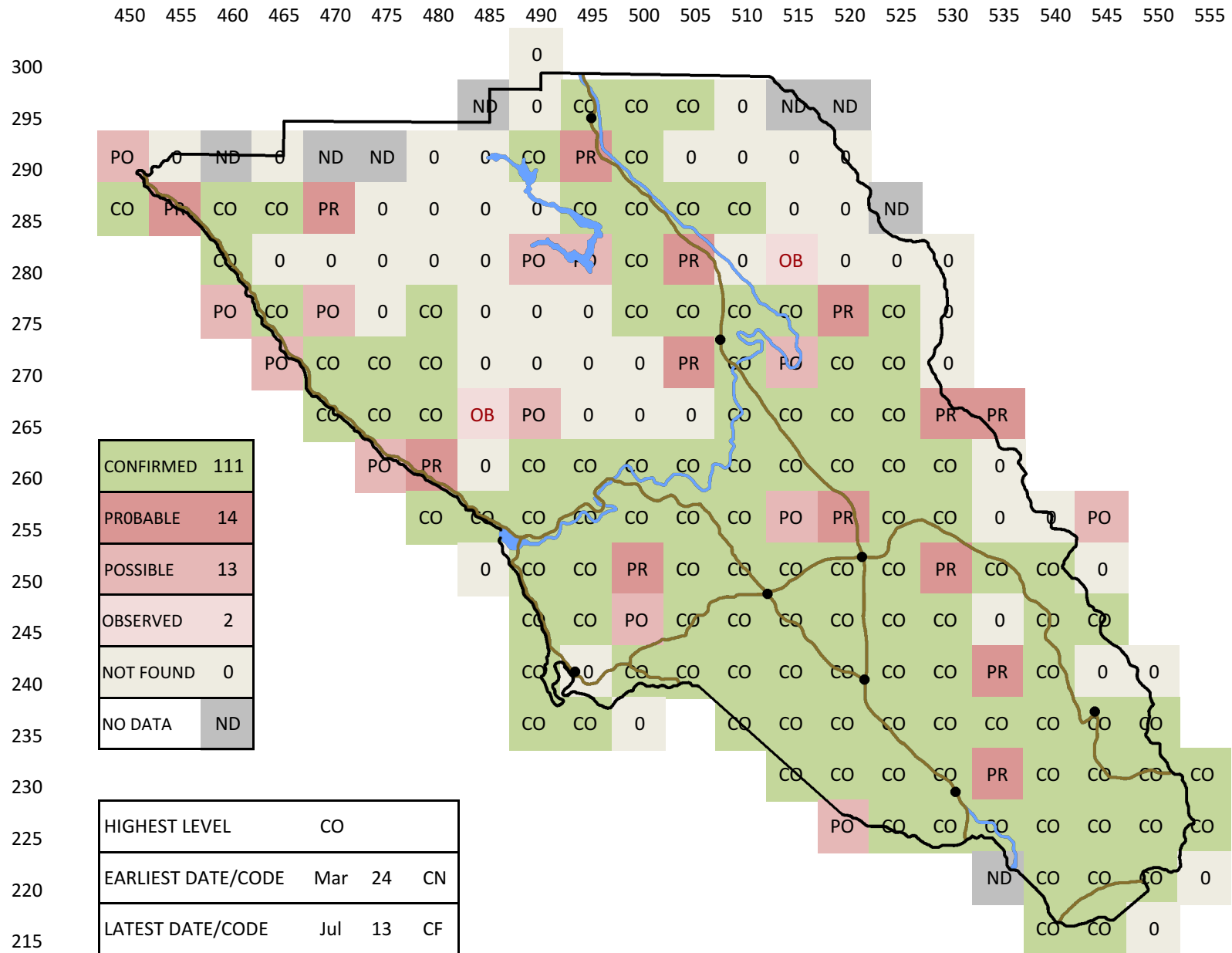
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BROWN-HEADED COWBIRD

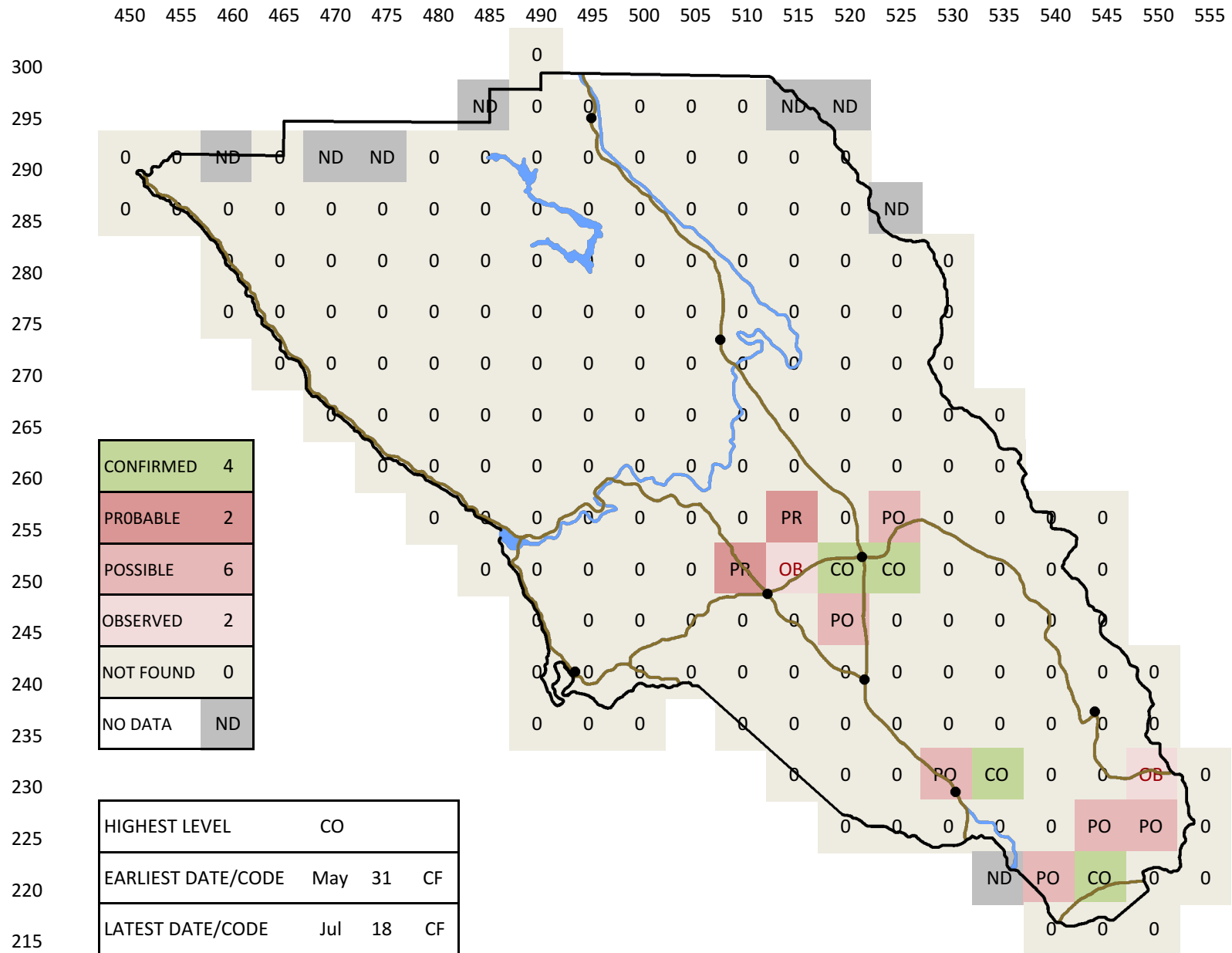


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BREWER'S BLACKBIRD

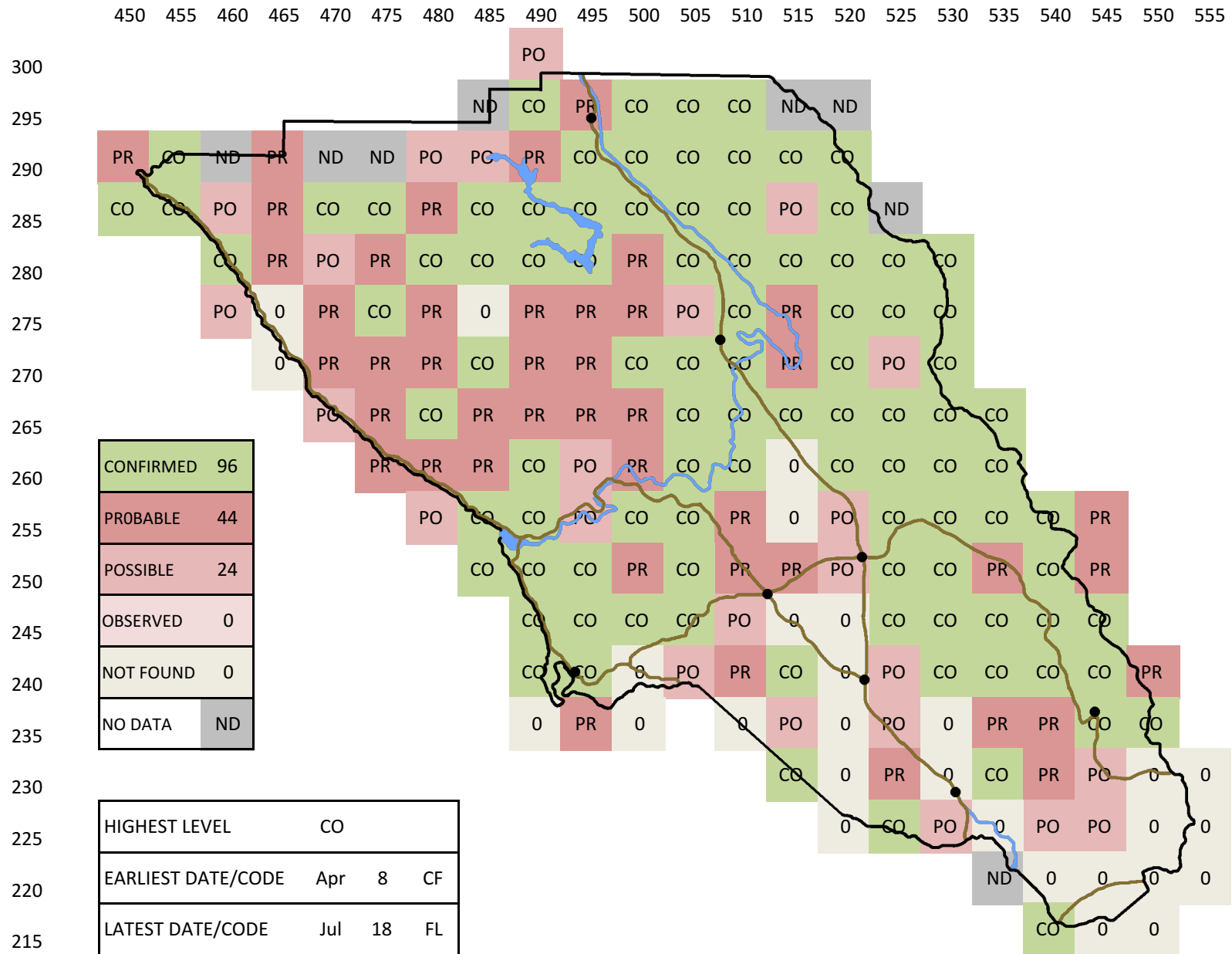


GREAT-TAILED GRACKLE



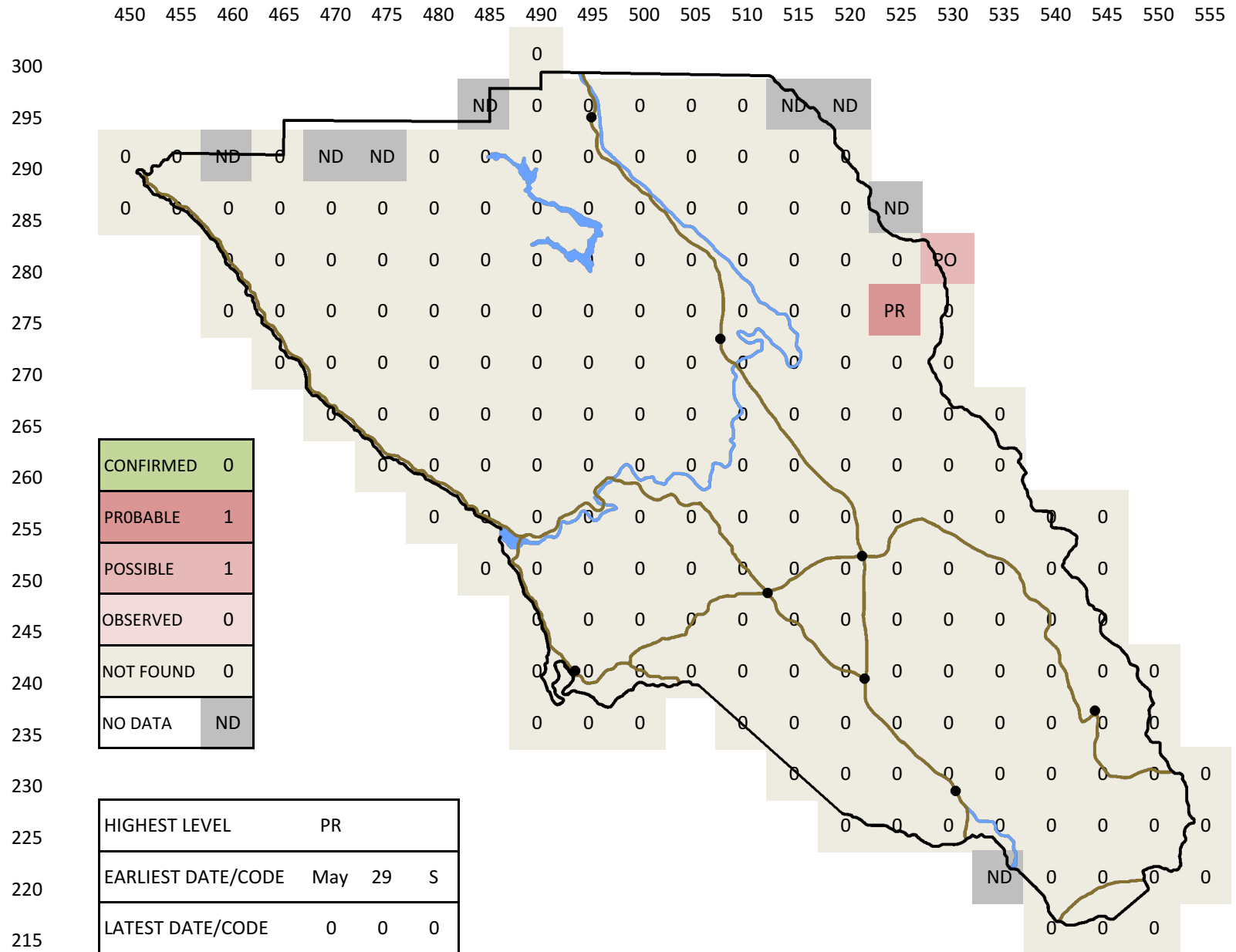
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ORANGE-CROWNED WARBLER



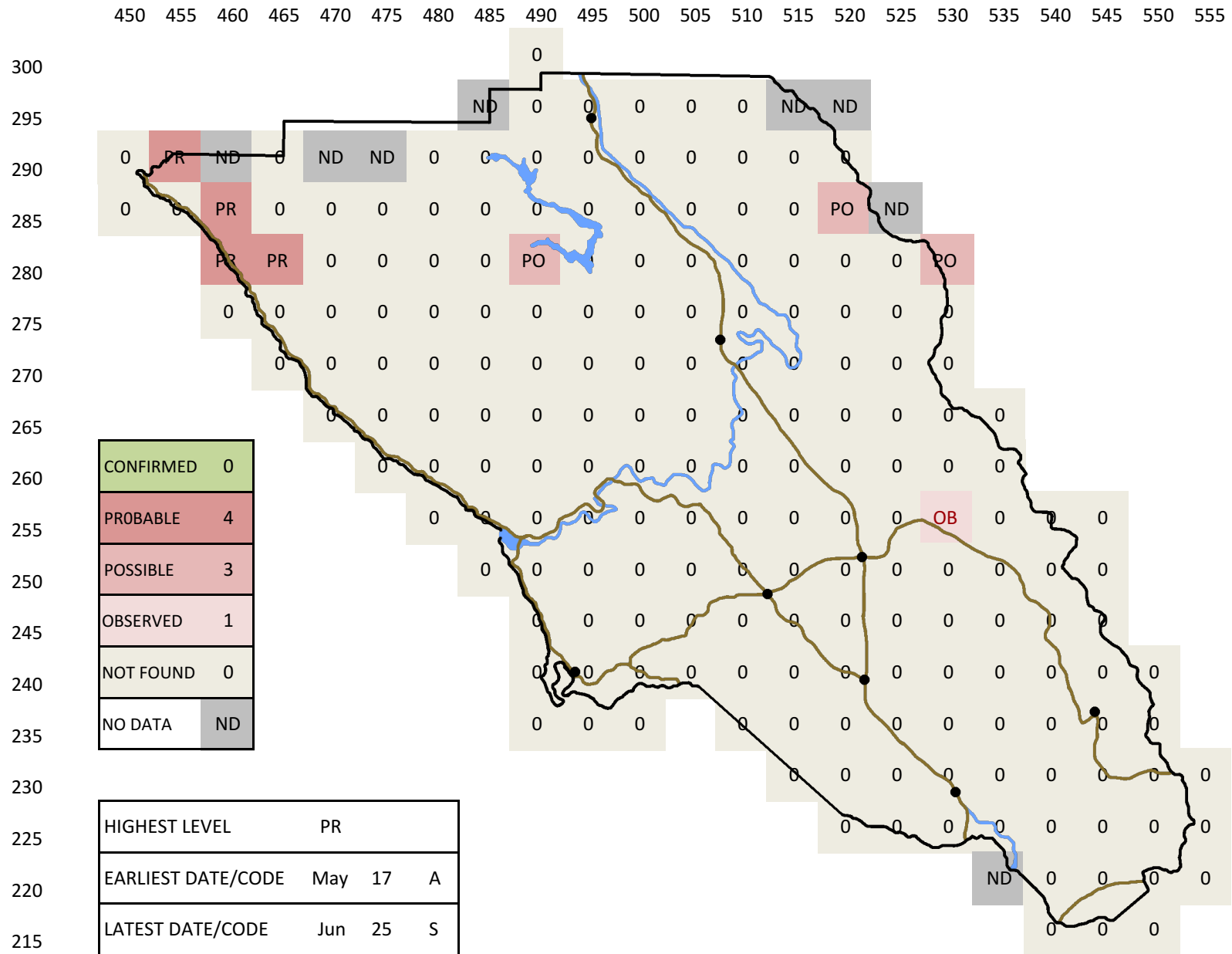
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NASHVILLE WARBLER



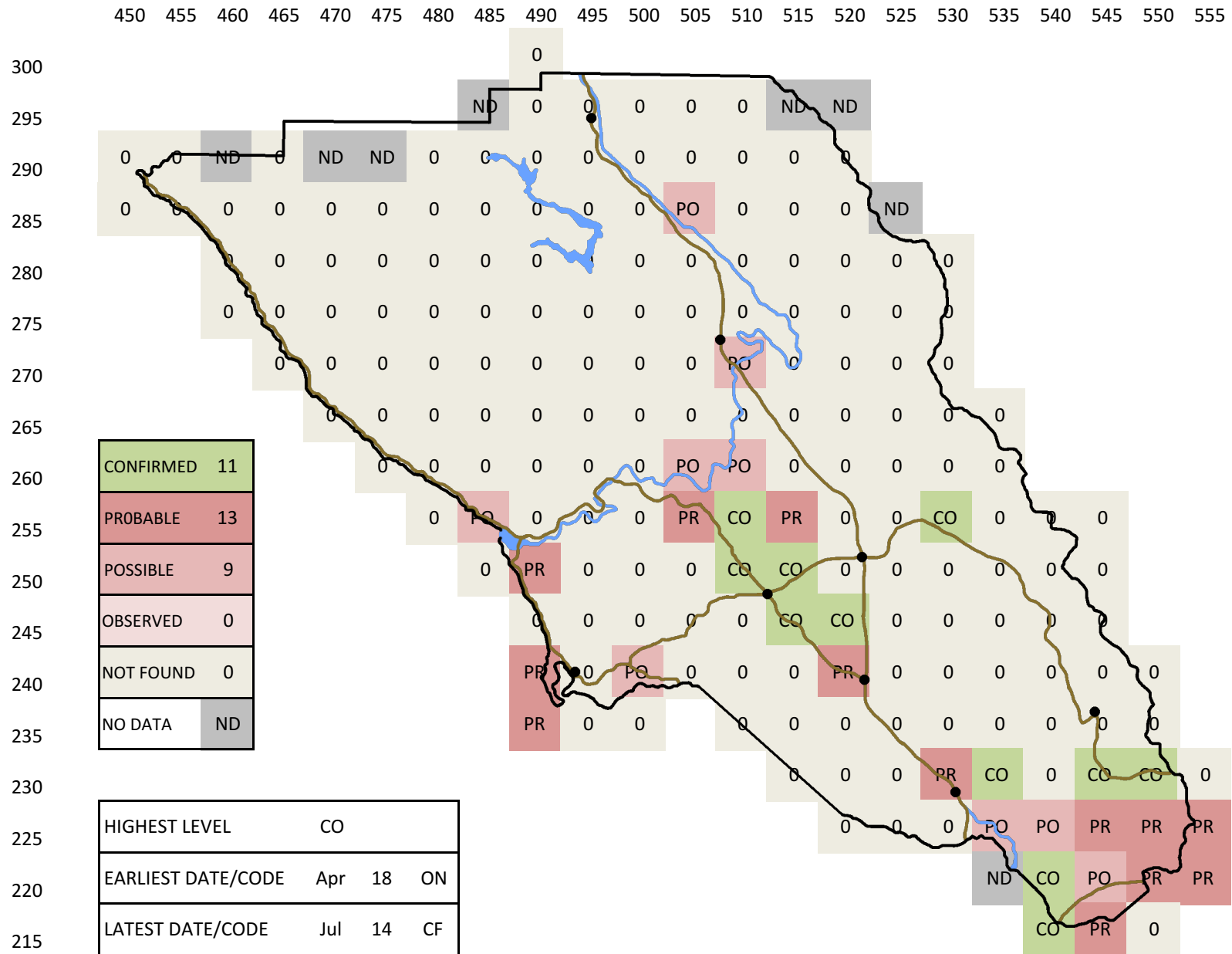
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MACGILLIVRAY'S WARBLER



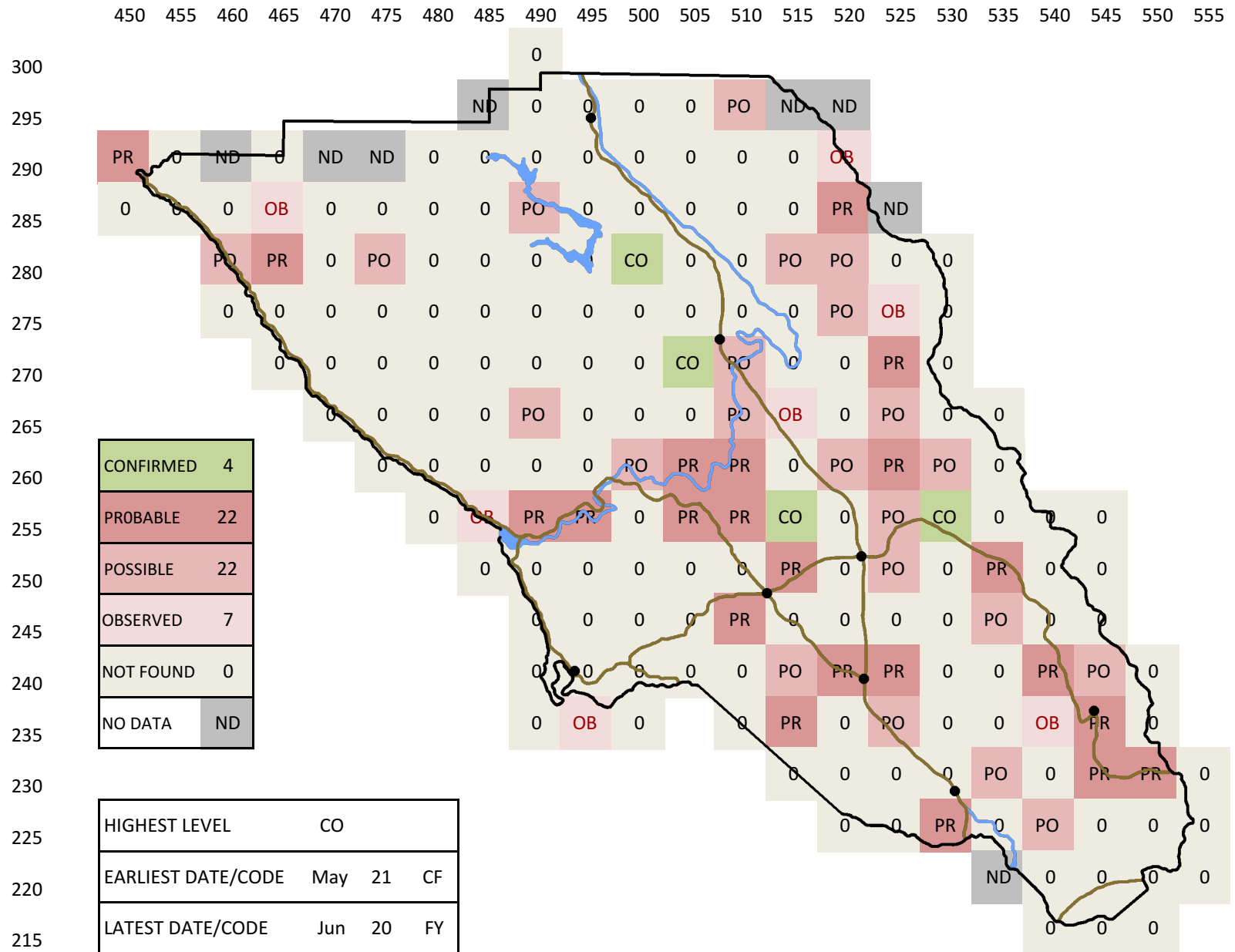
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COMMON YELLOWTHROAT



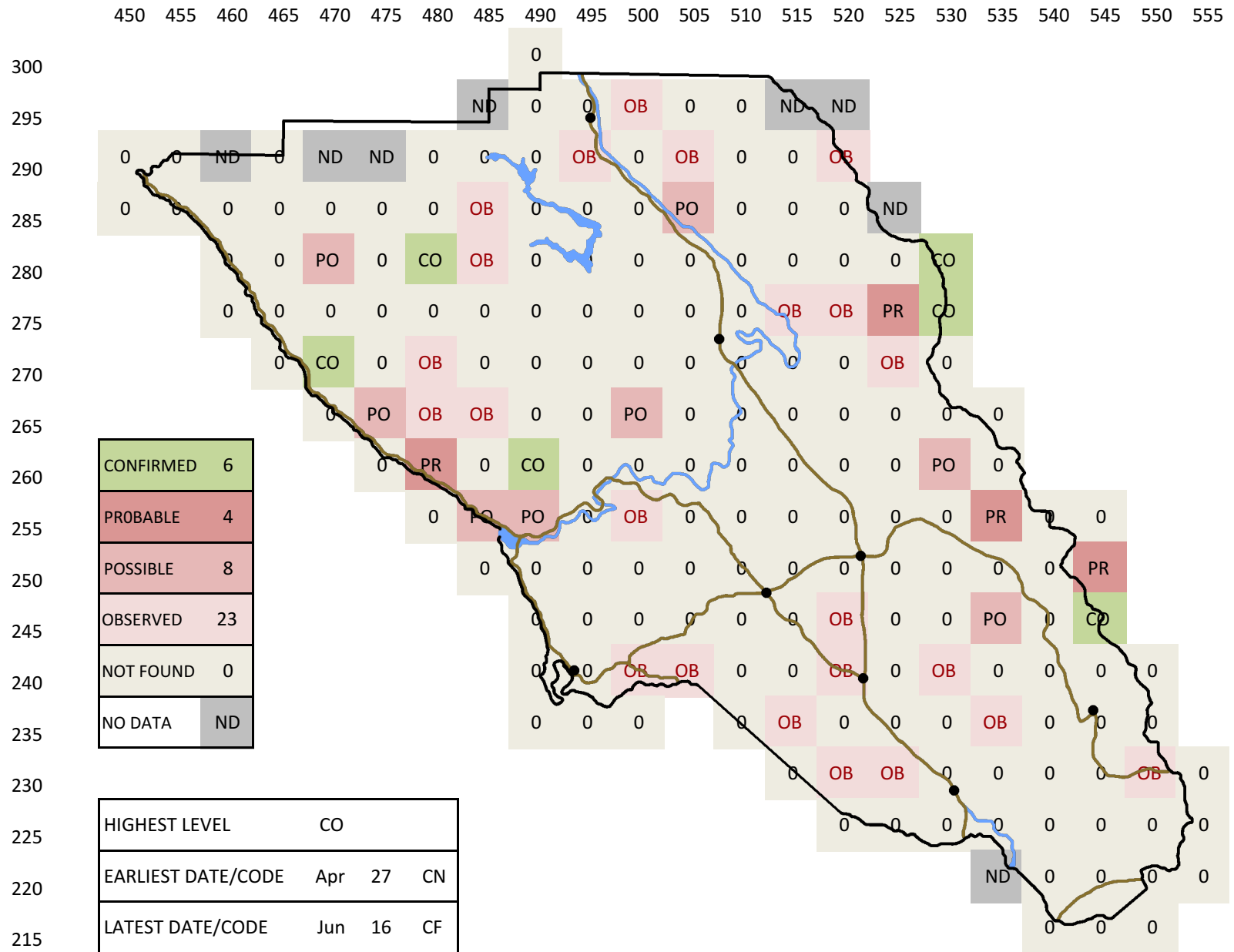
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YELLOW WARBLER



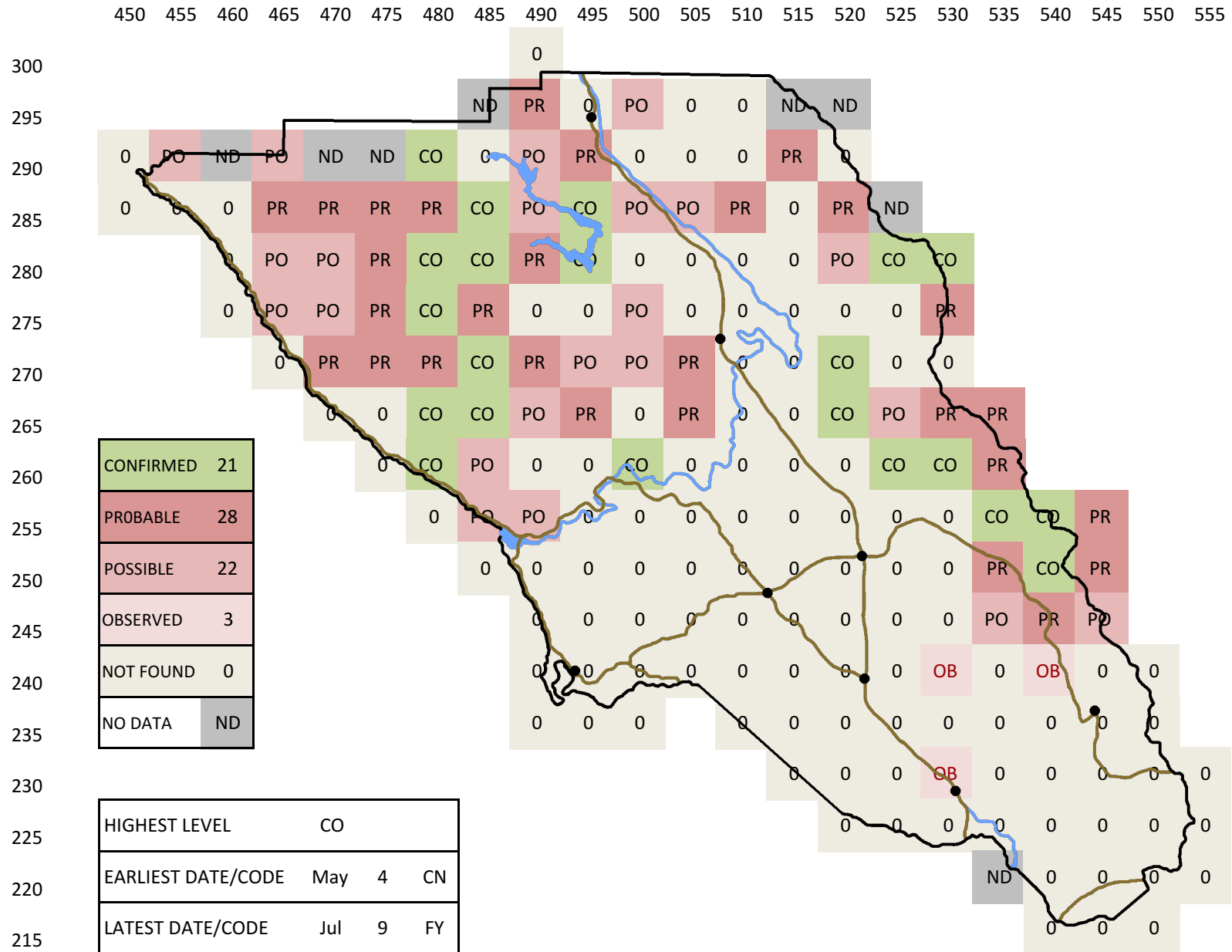
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YELLOW-RUMPED WARBLER



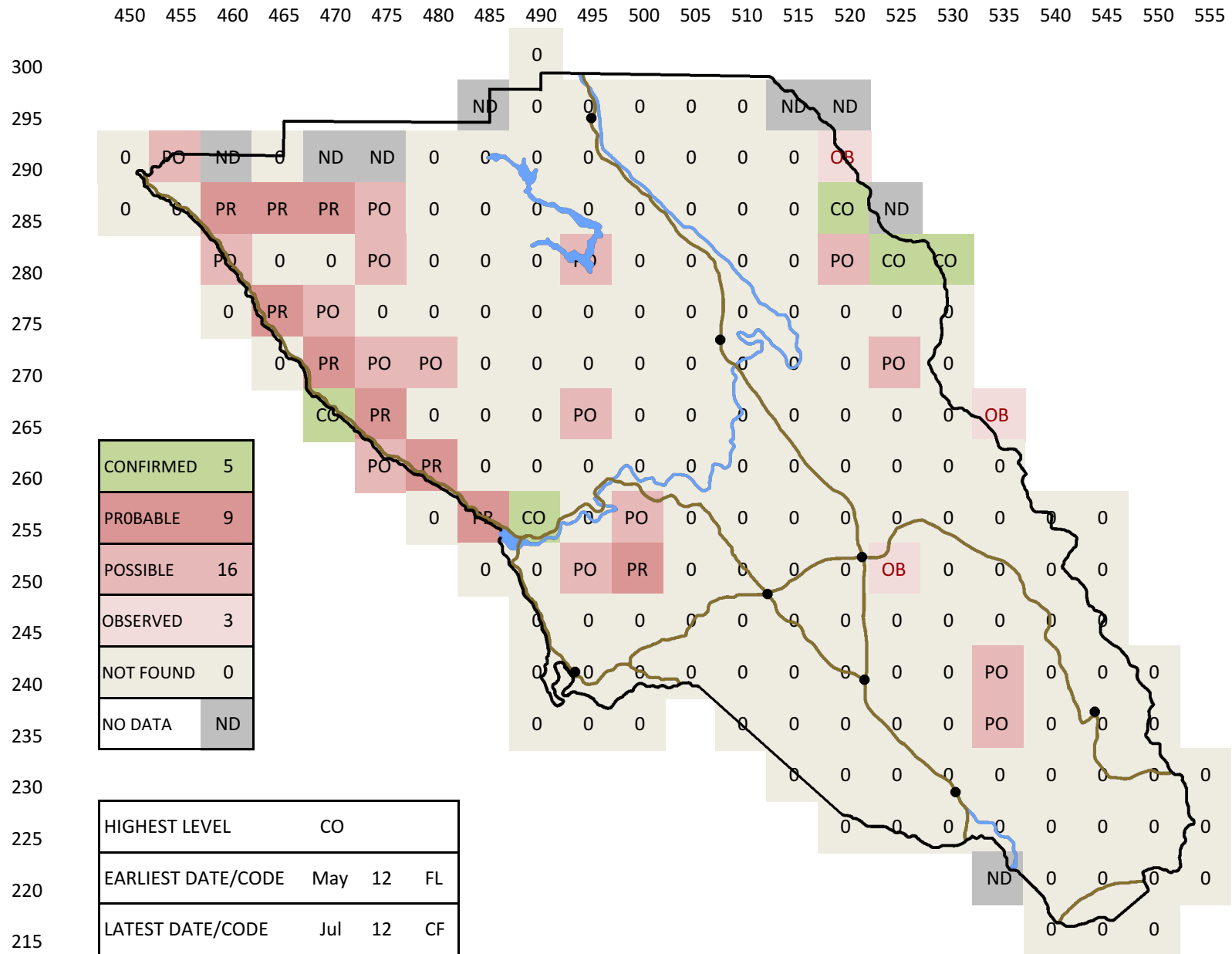
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BLACK-THROATED GRAY WARBLER



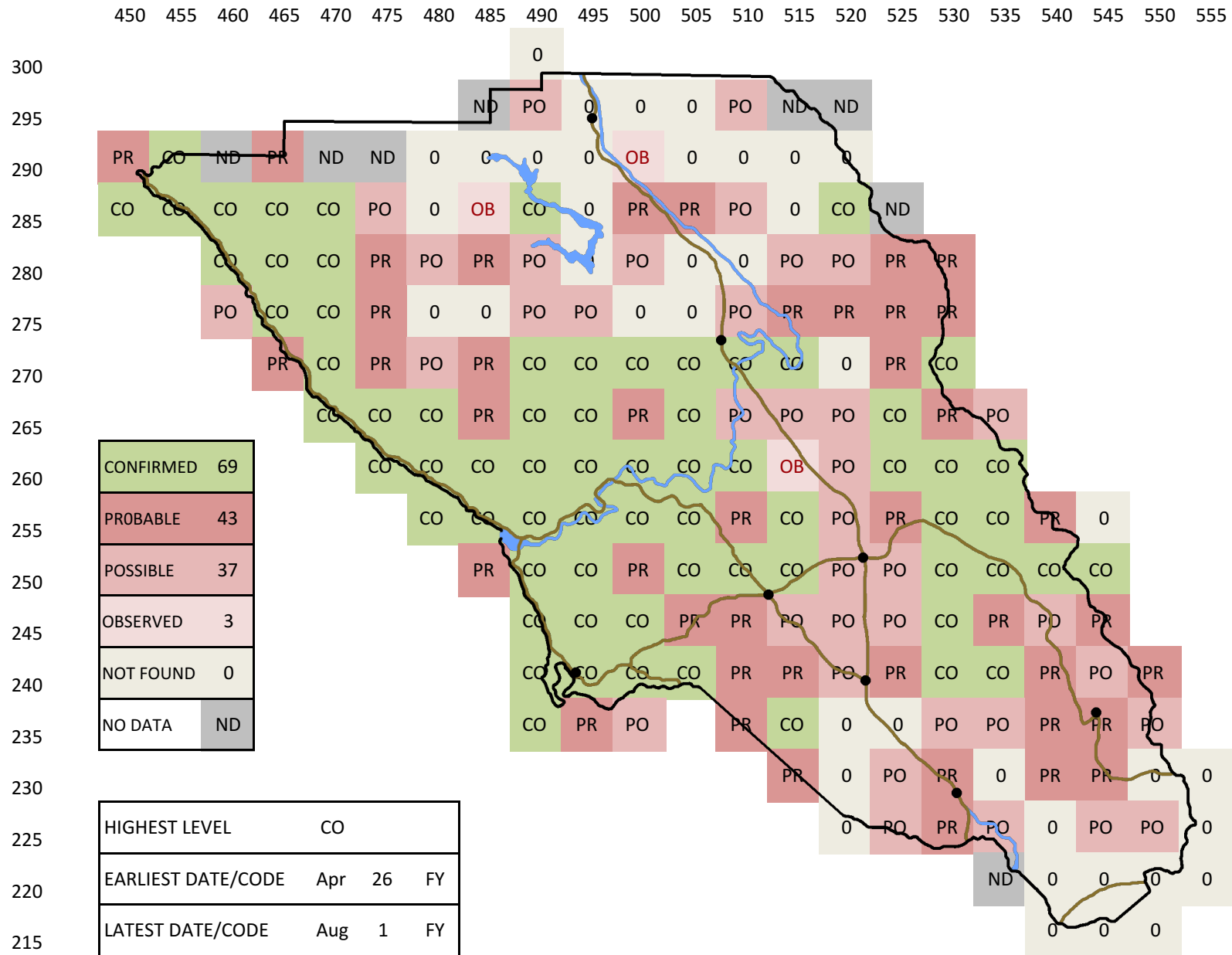
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HERMIT WARBLER



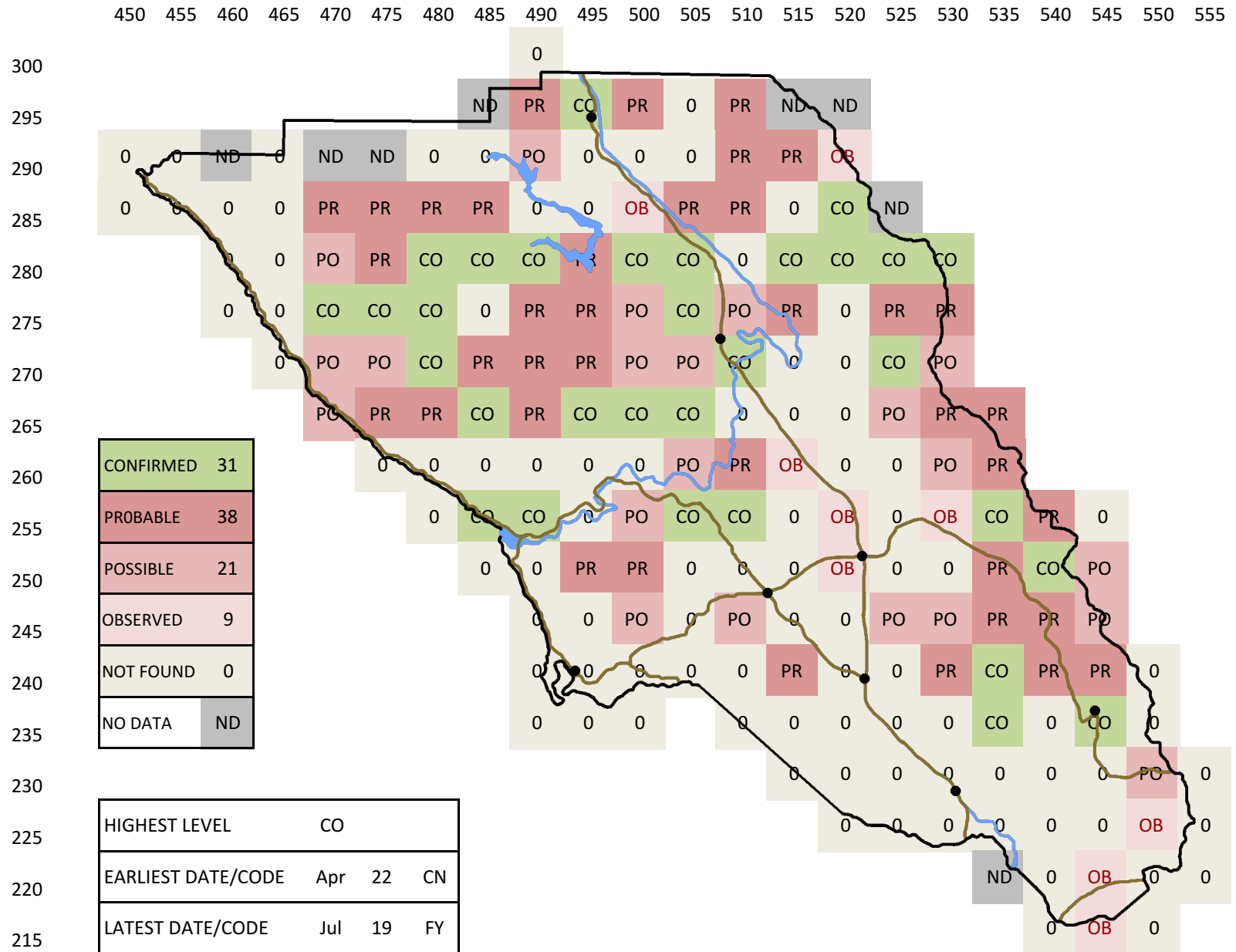
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WILSON'S WARBLER



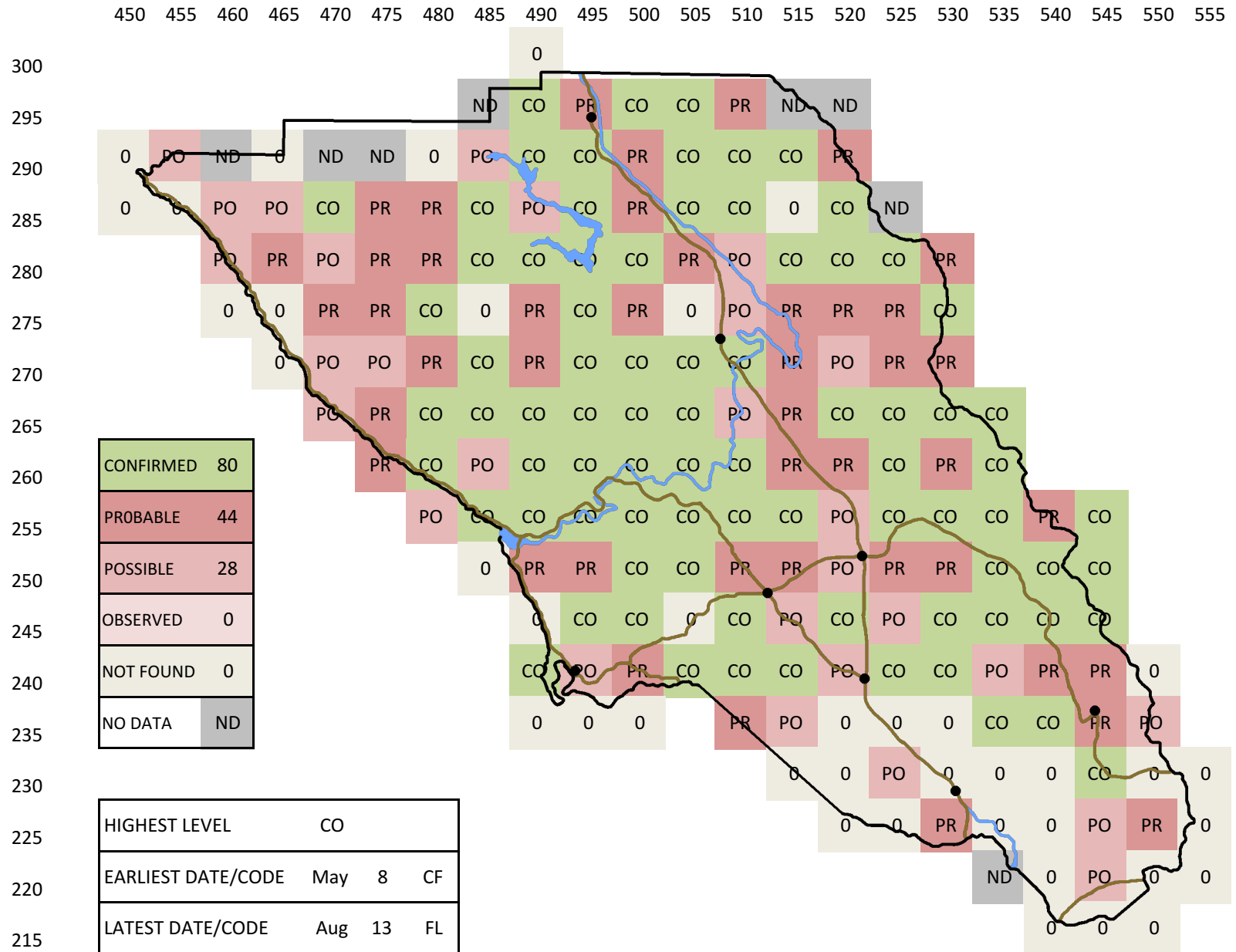
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WESTERN Tanager



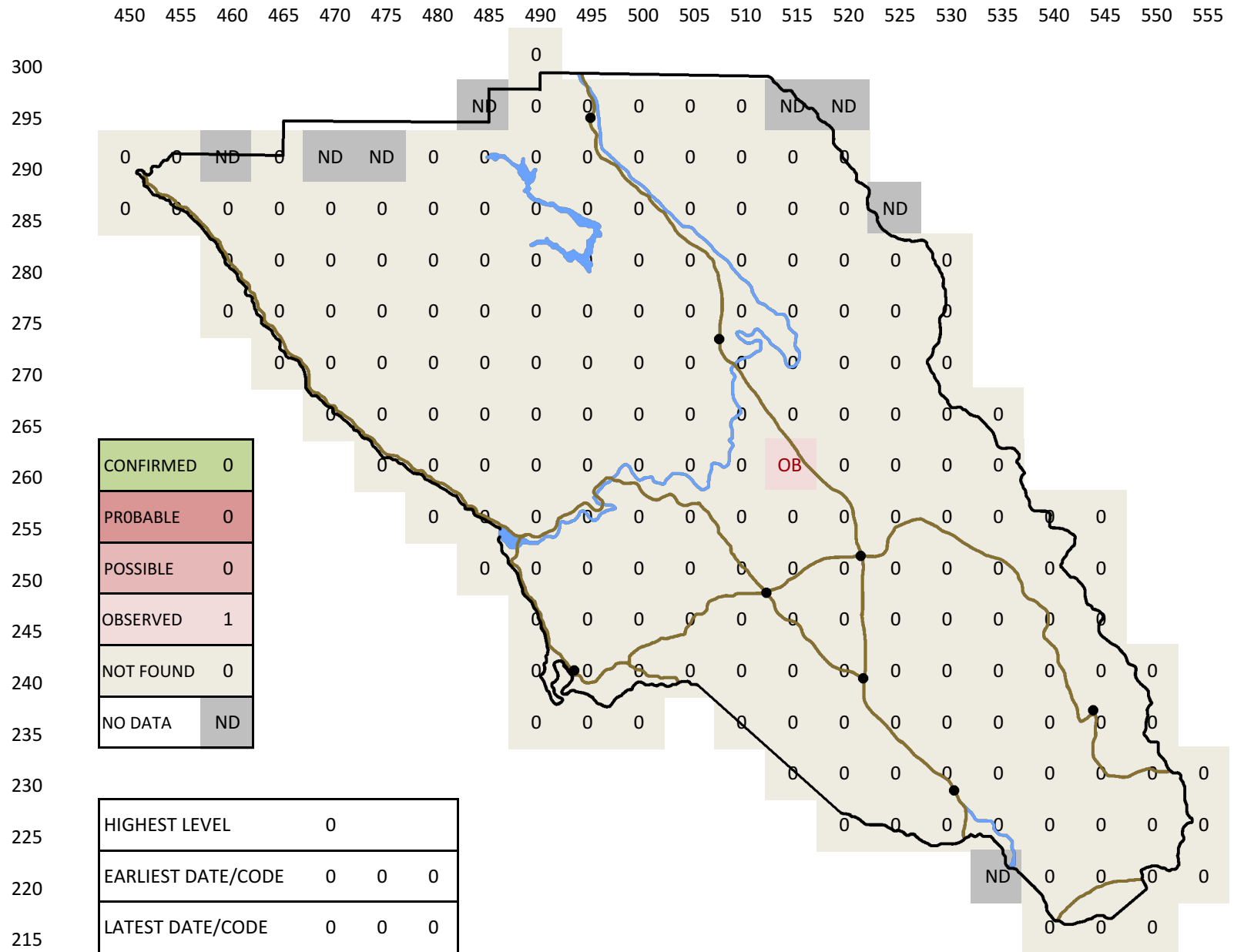
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BLACK-HEADED GROSBEAK



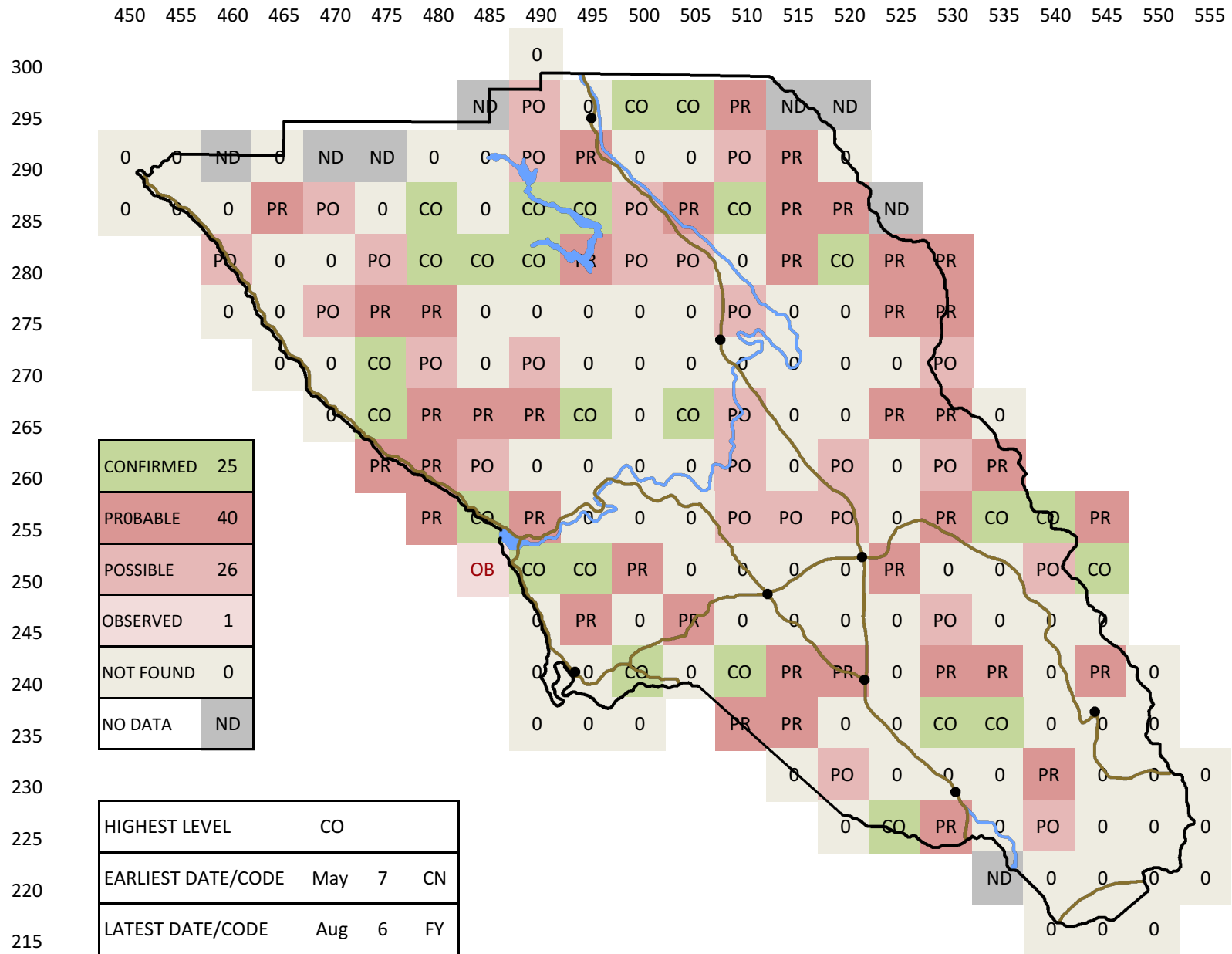
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BLUE GROSBEAK



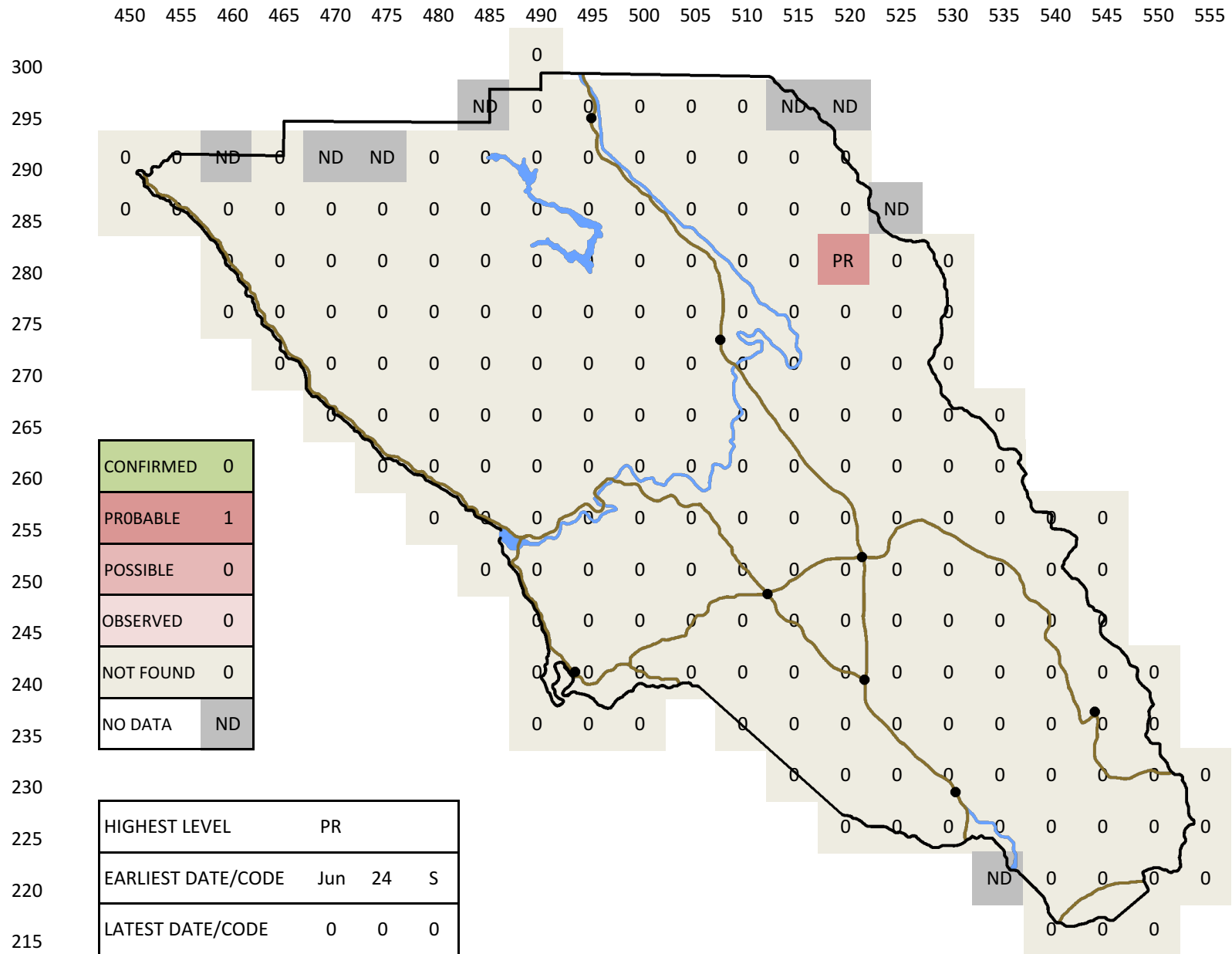
Atlas #2: 2011-2016

LAZULI BUNTING



Atlas #2: 2011-2016

INDIGO BUNTING



Auklet, Rhinoceros	56	Falcon, Peregrine	99	Heron, Green	68
Avocet, American	47	Finch, House	149	Hummingbird, Allen's	39
Bittern, American	63	Finch, Purple	150	Hummingbird, Anna's	38
Blackbird, Brewer's	175	Flicker, Northern	96	Jay, California Scrub-	113
Blackbird, Red-winged	172	Flycatcher, Ash-throated	100	Jay, Canada	110
Blackbird, Tricolored	173	Flycatcher, Dusky	104	Jay, Gray: see Jay, Canada	111
Bluebird, Western	140	Flycatcher, Olive-sided	102	Jay, Steller's	112
Bunting, Indigo	190	Flycatcher, Pacific-slope	105	Junco, Dark-eyed	167
Bunting, Lazuli	189	Gadwall	16	Kestrel, American	98
Bushtit	125	Gallinule, Common	44	Killdeer	50
Chat, Yellow-breasted	168	Gnatcatcher, Blue-gray	136	Kingbird, Western	101
Chickadee, Chestnut-backed	123	Goldfinch, American	155	Kingfisher, Belted	90
Coot, American	45	Goldfinch, Lawrence's	154	Kinglet, Golden-crowned	138
Cormorant, Brandt's	60	Goldfinch, Lesser	153	Kite, White-tailed	72
Cormorant, Double-crested	61	Goose, Canada	9	Lark, Horned	116
Cormorant, Pelagic	62	Grackle, Great-tailed	176	Mallard	17
Cowbird, Brown-headed	174	Grebe, Eared	29	Martin, Purple	117
Creeper, Brown	129	Grebe, Pied-billed	28	Meadowlark, Western	169
Crossbill, Red	151	Grosbeak, Black-headed	187	Merganser, Common	21
Crow, American	114	Grosbeak, Blue	188	Merganser, Hooded	20
Dipper, American	137	Grouse, Sooty	26	Mockingbird, Northern	145
Dove, Eurasian Collared-	32	Guillemot, Pigeon	54	Murre, Common	53
Dove, Mourning	33	Gull, Western	57	Murrelet, Marbled	55
Duck, Mandarin	12	Harrier, Northern	74	Night-Heron, Black-crowned	69
Duck, Ruddy	22	Hawk, Common Black	78	Nighthawk, Common	34
Duck, Wood	11	Hawk, Cooper's	76	Nuthatch, Pygmy	128
Eagle, Bald	77	Hawk, Red-shouldered	79	Nuthatch, Red-breasted	126
Eagle, Golden	73	Hawk, Red-tailed	81	Nuthatch, White-breasted	127
Egret, Cattle	67	Hawk, Sharp-shinned	75	Oriole, Bullock's	171
Egret, Great	65	Hawk, Swainson's	80	Oriole, Hooded	170
Egret, Snowy	66	Heron, Great Blue	64	Osprey	71

Owl, Barn	82	Siskin, Pine	152	Titmouse, Oak	124
Owl, Barred	88	Sora	43	Towhee, California	158
Owl, Burrowing	86	Sparrow, Bell's	162	Towhee, Spotted	156
Owl, Great Horned	84	Sparrow, Black-chinned	160	Turkey, Wild	27
Owl, Northern Pygmy-	84	Sparrow, Chipping	159	Vireo, Cassin's	109
Owl, Northern Saw-Whet	89	Sparrow, Grasshopper	164	Vireo, Hutton's	108
Owl, Spotted	87	Sparrow, House	148	Vireo, Warbling	110
Owl, Western Screech-	82	Sparrow, Lark	161	Vulture, Turkey	70
Oystercatcher, Black	48	Sparrow, Rufous-crowned	157	Warbler, Black-throated Gray	183
Phalarope, Wilson's	52	Sparrow, Savannah	163	Warbler, Hermit	184
Pheasant, Ring-necked	25	Sparrow, Song	165	Warbler, MacGillivray's	179
Phoebe, Black	106	Sparrow, White-crowned	166	Warbler, Nashville	178
Pigeon, Band-tailed	31	Starling, European	146	Warbler, Orange-crowned	177
Pigeon, Rock	30	Stilt, Black-necked	46	Warbler, Wilson's	185
Pintail, Northern	18	Storm-Petrel, Leach's	59	Warbler, Yellow	181
Plover, Snowy	49	Swallow, Barn	122	Warbler, Yellow-rumped	182
Poorwill, Common	35	Swallow, Cliff	121	Waxwing, Cedar	147
Pygmy-Owl, Northern	85	Swallow, N. Rough-winged	120	Wood-Pewee, Western	103
Quail, California	24	Swallow, Tree	118	Woodpecker, Acorn	91
Quail, Mountain	23	Swallow, Violet-green	119	Woodpecker, Downy	93
Rail, Black	40	Swan, Mute	10	Woodpecker, Hairy	95
Rail, Ridgway's	41	Swift, Vaux's	36	Woodpecker, Nuttall's	94
Rail, Virginia	42	Swift, White-throated	37	Woodpecker, Pileated	97
Raven, Common	115	Tanager, Western	186	Wren, Bewick's	135
Robin, American	143	Teal, Blue-winged	13	Wren, Canyon	131
Sandpiper, Spotted	51	Teal, Cinnamon	14	Wren, House	132
Sapsucker, Red-breasted	92	Teal, Green-winged	19	Wren, Marsh	134
Screech-Owl, Western	83	Tern, Forster's	58	Wren, Pacific	133
Scrub-Jay, California	112	Thrasher, California	144	Wren, Rock	130
Shoveler, Northern	15	Thrush, Hermit	142	Wrentit	139
Shrike, Loggerhead	107	Thrush, Swainson's	141	Yellowthroat, Common	180