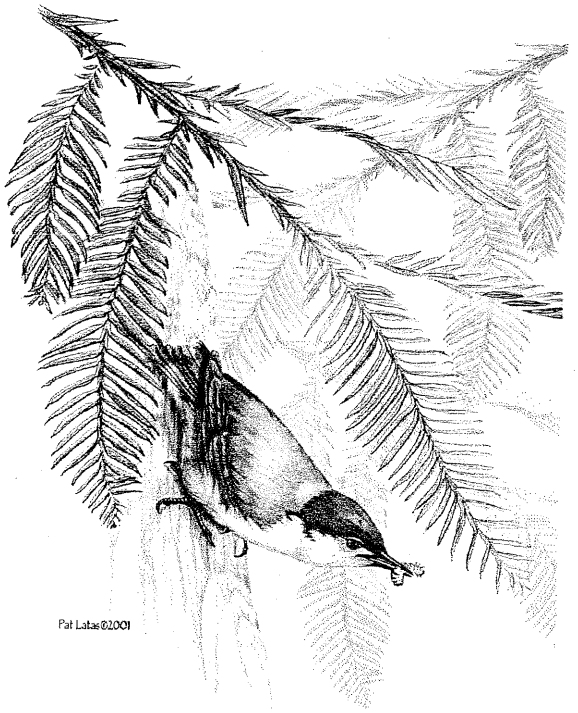
San Mateo County Breeding Bird Atlas



Published by the Sequoia Audubon Society
May 2001

San Mateo County Breeding Bird Atlas

Core Atlas Volunteer Team:
Peter Metropulos*, David Suddjian*, Rick Johnson, Dan Keller, Tristan McKee, Carol Miller, Robin Smith, Judy Spitler, Ronald Thorn, and Francis Toldi.
–Individuals contributing at least 450 observations over multiple years;
* indicates over 2000 observations.

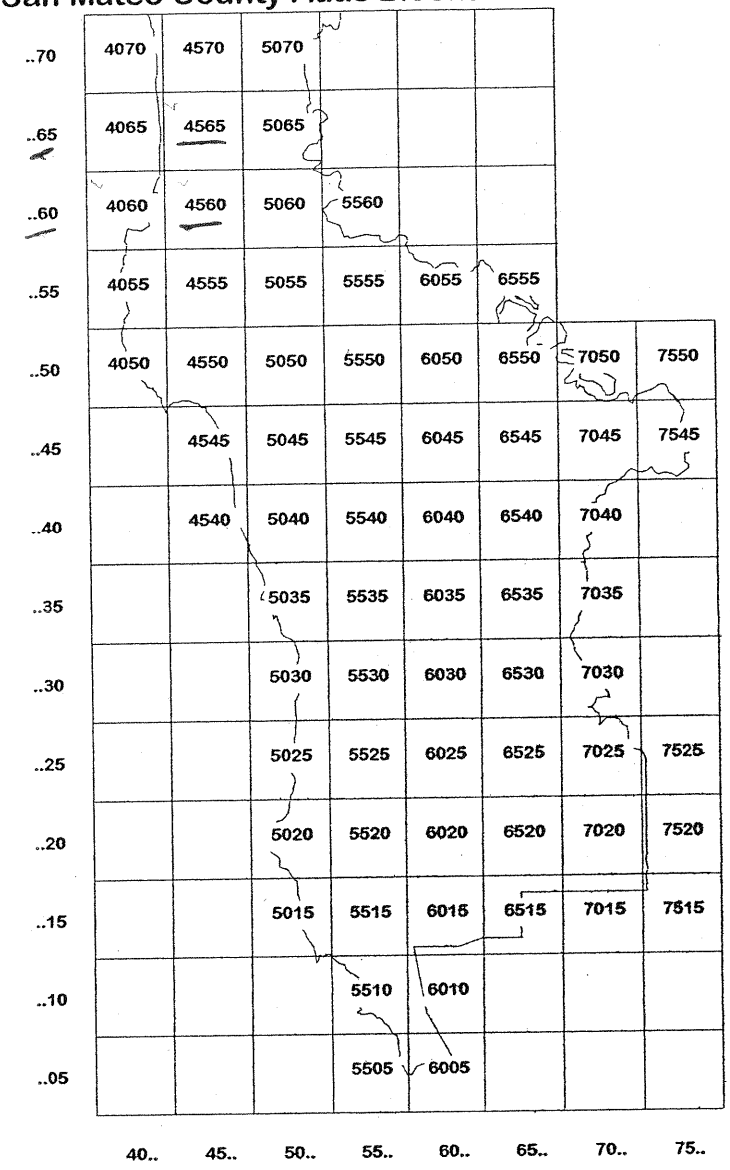
Special recognition:
Peter Metropulos did extensive field work and was instrumental in meeting our coverage goals across the County. He provided ornithological direction and review for the project. Francis Toldi did field work and helped prepare the publication. David Suddjian provided source materials to develop the Atlas procedures, forms and training materials. He also provided extensive field coverage in southern and edge blocks. Steve Schaeffer and Janet Duerr prepared the Atlas block maps used by the volunteers. Rick Johnson was the project coordinator and also did field work, data compilation, and preparation of the publication

Others who contributed observations to the San Mateo County Atlas project:
Dennis Beall, Jane Becker-Haven, Herb Brandt, Nick Coiro, Al DeMartini, Frank Gardner, Merry Haveman, Gloria Heller, Shirley Higuera, Alan Hopkins, Jasper Ridge Docents, Richard Jeffers, Don Keller, Pat Latas, Michael Mammoser, John Mac McCormick, Janet Murphy, Amelia Orton-Palmer, Pat Pauch, Steve Rottenborn, Barry Sauppe, Eileen Sauppe, Dan Singer, and Maria Straatmann.

Printing and mailing funded by San Mateo County Parks and Recreation Commission

© 2001 Sequoia Audubon Society

San Mateo County Atlas Blocks



The Atlas Blocks

The San Mateo County Breeding Bird Atlas Project used 5 x 5 kilometer sections defined by the Universal Transverse Mercator (UTM) grid system. UTM marks show on topographic maps for the County. Each of these sections, called Atlas Blocks, is 25 square kilometers.

Each section was given a unique code number composed of a pair of numbers derived from the grid ticks at the border of the topographic maps. The blocks are labeled by the coordinates defining their southwest corner. The vertical axis coordinate (the "easting") is listed first, followed by the horizontal axis coordinate (the "northing"). For example, Block 6045, the Edgewood Park block, has its southwest corner at easting 60 and northing 45.

The map on this page provides a quick reference to the locations for the block codes.

Key to locations

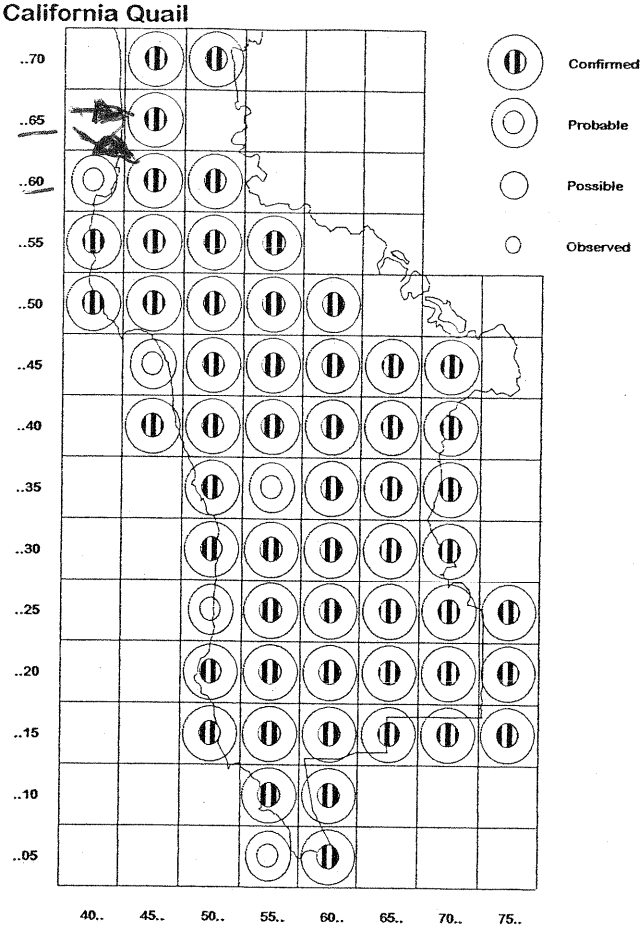
Block	Block Locations
4050	Moss Beach, Point Montara, Pillar Point
4055	Montara North through Devils Slide
4060	Pt. San Pedro, Linda Mar, and Mori Point
4065	Mussel Rock
4070	Ft Funston, west Lake Merced, Thornton Beach
4540	Miramontes Point
4545	Miramar and Half Moon Bay beaches
4550	El Granada, Princeton, Denniston Creek
4555	San Pedro Valley Park and Montara Peaks
4560	Sweeney Ridge, and north San Andreas Lake
4565	Buri Buri, Milagra Ridge, Colma
4570	Westlake, south Lake Merced, west San Bruno Mountain
5015	Pigeon Point to Lake Lucerne
5020	Pescadero Marsh
5025	Pomponio Beach and Creek
5030	San Gregorio and Tunitas Beaches
5035	Verde Road, Martin's Beach, Eel Rock
5040	Higgins Canyon, part of Purisima Creek, & an old railroad grade
5045	Pilarcitos Creek and east Half Moon Bay
5050	Ox Hill, part of Cahill Ridge, Stone Dam
5055	Pilarcitos Lake, Sawyer Camp, Watershed
5060	San Bruno, Millbrae, San Andreas Lake
5065	Oyster Point and South San Francisco
5070	Brisbane, east San Bruno Mountain, McLaren Park
5505	Año Nuevo Island and Point
5510	Franklin Point and lower Gazos Creek
5515	Cloverdale Road, Gazos Creek, Butano State Park
5520	Pescadero Creek and High School
5525	Pomponio Creek
5530	San Gregorio Creek, lower Bear Gulch
5535	Tunitas Creek and Star Hill Road
5540	Purisima Creek Redwoods Open Space
5545	Mills Creek and South West Watershed
5550	Lower Crystal Springs to Cahill Ridge
5555	Burlingame and Hillsborough
5560	Burlingame Shore to Coyote Point
6005	Año Nuevo Bay and Creek to Wadell Creek
6010	Cascade Creek, west Big Basin, Chalk Mountain.
6015	east Butano State Park and Gazos Creek
6020	Butano Creek and Ridge, Dearborn Park
6025	Memorial Park, Jones Gulch, to La Honda
6030	La Honda and lower Harrington Creek
6035	Bear Gulch and upper Harrington Creek
6040	Huddart Park and Woodside
6045	Edgewood Park, Filoli, Pulgas Open Space
6050	Belmont
6055	San Mateo, Seal Slough, west Foster City
6515	North Big Basin
6520	Portola State Park and Pescadero Creek
6525	Alpine Road, Mindego Hill, Russian Ridge
6530	Williams Ranch and Langley Hill
6535	Portola Valley, Windy Hill, Jasper Ridge
6540	Woodside to Jasper Ridge
6545	Redwood City
6550	inner Bair Islands, Sloughs and Redwood City Port
6555	north Redwood Shores to San Mateo Bridge
7015	northeast Big Basin and China Grade
7020	Slate Creek, Ward Road, east Portola State Park
7025	Skyline and Long Ridge Open Space
7030	Los Trancos, Russian Ridge, Foothill Park
7035	Portola Valley, Foothill and Arastradero
7040	West Menlo Park and Stanford
7045	Atherton, Flood Park, Bayfront Park
7050	Greco Island and outer Bair Island
7515	Upper San Lorenzo Watershed
7520	Castle Rock State Park
7525	Hickory Ridge and Stevens Creek
7545	East Palo Alto and Baylands
7550	Ravenswood Point

Block summary for:											
4060	Pt. San Pedro, Linda Mar, and Mori Point										
4065	Mussel Rock										
4070	Ft Funston, west Lake Merced, Thornton Beach										
4560	Sweeney Ridge, and north San Andreas Lake										
4565	Buri Buri, Milagra Ridge, Colma										
4570	Westlake, south Lake Merced, west San Bruno Mountain										
5060	San Bruno, Millbrae, San Andreas Lake										
5065	Oyster Point and South San Francisco										
5070	Brisbane, east San Bruno Mountain, McLaren Park										
5560	Burlingame Shore to Coyote Point										
Block:	4060	4065	4070	4560	4565	4570	5060	5065	5070	5560	
Pied-billed grebe	CO		CO	CO		CO	CO				
Brandt's Cormorant	PO										
Pelagic Cormorant	CO	PO									
Great Blue Heron						PO					
Great Egret										CO	
Snowy Egret										CO	
Green Heron	PO		PR			PR	PO	PO		CO	
Black-crowned Night-Heron										CO	
Turkey Vulture	PO			PO	PO		PO				
Canada Goose								CO			
Mallard	CO		CO	CO	CO	CO	CO	CO	CO	CO	
Cinnamon Teal							PO				
Ruddy Duck	CO		PO			CO					
White-tailed Kite				PO		PO			PO		
Northern Harrier						CO	PO	CO			
Sharp-shinned Hawk				PR							
Cooper's Hawk				PO			CO				
Red-shouldered Hawk	CO		CO	CO	CO	PR	CO		CO	PO	
Red-tailed Hawk	PR	PO	CO	CO	CO	CO	CO	CO	CO	CO	
Golden Eagle							PO				
American Kestrel	CO	PO	PO	PR	CO	CO	PR	CO	CO	PO	
Peregrine Falcon	CO										
California Quail	PR			CO	CO	CO	CO		CO		
Clapper Rail								CO			
Virginia Rail	PO										
Sora							PO				
American Coot	CO		CO	CO	PO	CO	CO		CO		
Killdeer	CO	CO			PR	PR	CO	CO	CO	CO	
Black Oystercatcher	CO	CO									
Black-necked Stilt							PR	PR		PO	
Spotted Sandpiper				PO							
Western Gull	CO	PO						CO	PO		
Forster's Tern								CO	PR	CO	
Pigeon Guillemot	CO	CO									
Rhinoceros Auklet	PO										
Rock Dove	CO	CO	CO	CO	CO	CO	CO	PR	CO	CO	
Band-tailed Pigeon				CO	PO	PR	PO		PO		
Mourning Dove	CO	PR	CO	CO	CO	CO	CO	CO	CO	CO	
Barn Owl										PO	

Block:	4060	4065	4070	4560	4565	4570	5060	5065	5070	5560	
Great Horned Owl				CO	CO	PR	CO	CO	CO	CO	
Vaux's Swift							PO				
White-throated Swift	PR	PR		PO		CO	CO	PO	PO		
Anna's Hummingbird	CO	PR	CO	CO	CO	CO	CO	CO	CO	CO	
Allen's Hummingbird	CO	PR	CO	CO	CO	CO	CO	PR	CO	CO	
Belted Kingfisher	PO					PO	PO		PO		
Nuttall's Woodpecker							PO				
Downy Woodpecker			CO	CO	PR	CO	CO	PO	CO		
Hairy Woodpecker	PR			CO			CO				
Northern Flicker	CO			CO	PR	CO	PO	PO	CO		
Olive-sided Flycatcher	CO		PR	PR	CO	CO	PO	PO	CO		
Western Wood-Pewee				PR		PO	PO				
Pacific-slope Flycatcher	PR			PO	PO	PR	PR	PO	PO		
Black Phoebe	CO	CO	CO	CO	CO	CO	CO	PO	CO	CO	
Ash-throated Flycatcher				PR			PO				
Loggerhead Shrike									CO		
Hutton's Vireo	CO			CO	PO	PR	CO		PO		
Warbling Vireo				PR		PR	PO		PO		
Steller's Jay	CO			CO	CO	PO	CO		PO		
Western Scrub-Jay	CO	CO	CO	CO	CO	CO	CO	CO	CO		
American Crow	PO				PR		CO	PO	CO	PR	
Common Raven	CO	PR	CO	CO	PR	CO	PR	PR	CO	PO	
Horned Lark								PO	CO		
Purple Martin				PO							
Tree Swallow	PR		CO		PR	CO		PO	PO		
Violet-green Swallow	PR			PO	PR	PO	PR		PR		
Northern Rough-winged Swallow	PO	PR		PR	PO		CO				
Bank Swallow	PR										
Cliff Swallow	CO		PR	PO	CO	CO	CO	PO	CO	CO	
Barn Swallow	CO	CO	CO	CO	CO	CO	CO	PR	CO	CO	
Chestnut-backed Chickadee	CO		CO	CO	CO	CO	CO	CO	CO	CO	
Oak Titmouse							CO				
Bushtit	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	
Red-breasted Nuthatch	PO		PO		CO	CO		PO			
Pygmy Nuthatch	CO		CO	CO	CO	CO	CO	CO	CO	CO	
Brown Creeper	PO		CO	PO	CO	CO	CO		PO		
Rock Wren								PO			
Bewick's Wren	CO	CO	CO	CO	CO	CO	CO	PR	CO		
House Wren								CO	PO		
Winter Wren	CO			PR		CO	PO		PR		
Marsh Wren	CO		CO			CO					
Swainson's Thrush	CO	PR	PO	CO	PO	CO		PO	PR		
American Robin	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	
Wrentit	CO	CO		CO	CO	CO	PR	PR	CO		
Northern Mockingbird	CO	PO		PR	CO	CO	CO	CO	CO	CO	
California Thrasher	PO			CO					PO		
European Starling	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	
Orange-crowned Warbler	CO	CO		CO	CO	CO	CO	PO	CO		
Yellow Warbler	PO			PR					PR		
Common Yellowthroat	CO		PR	CO		CO	PO				

Block:	4060	4065	4070	4560	4565	4570	5060	5065	5070	5560	
Wilson's Warbler	CO	CO	CO	CO	CO	CO	PR		PR		
Spotted Towhee	CO			CO	CO	CO	CO	CO	PR		
California Towhee	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	
Black-chinned Sparrow				PR							
Savannah Sparrow	PO			CO	CO	CO	CO	PO	PR		
Grasshopper Sparrow	PR			CO	CO			CO			
Song Sparrow	CO	CO	CO	CO	CO	CO	CO	CO	CO	PO	
White-crowned Sparrow	CO	CO	CO	CO	CO	CO		CO	CO		
Dark-eyed Junco	CO		CO	CO	CO	CO	CO	CO	CO	PR	
Black-headed Grosbeak				CO			PR		PO		
Lazuli Bunting						PR		CO	CO		
Red-winged Blackbird	CO	CO	PR	CO	CO	CO	CO	CO	CO	CO	
Western Meadowlark				PO	PO			PO	PO	CO	
Brewer's Blackbird	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	
Brown-headed Cowbird	PR	CO	CO	PR	PR	CO	CO	PR	CO	PR	
Hooded Oriole	CO			CO		PO	CO	CO	CO		
Bullock's Oriole				CO	PO	CO	PR	CO	CO	PR	
Purple Finch	CO	PR	PR	CO	CO	CO	CO		CO		
House Finch	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	
Red Crossbill			CO		PO	PR					
Pine Siskin	PO		CO	PR	CO	CO			CO		
Lesser Goldfinch	CO			CO	CO	CO	CO	PO	CO		
American Goldfinch	CO	CO	CO	CO	CO	CO	CO	PR	CO	PR	
House Sparrow	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	
Total confirms	52	23	35	50	43	54	48	33	48	28	
Total probables	10	8	6	13	8	10	9	9	8	5	
Total possibles	14	5	4	11	10	7	17	18	15	6	
Total	76	36	45	74	61	71	74	60	71	39	
Block:	4060	4065	4070	4560	4565	4570	5060	5065	5070	5560	

California Quail



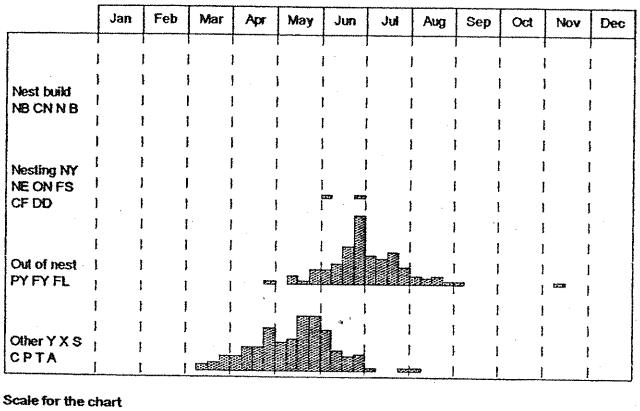
Atlas results:

250	Total observations of all kinds
54	Confirmed Blocks
5	Probable Blocks
0	Possible Blocks
0	Blocks with Observed only
59	Total blocks with O/PO/PR or CO

Percentages of Blocks with:

78.3%	Confirms
7.2%	Probable
0.0%	Possible
85.5%	Total with PO/PR or CO

Nesting Chronology

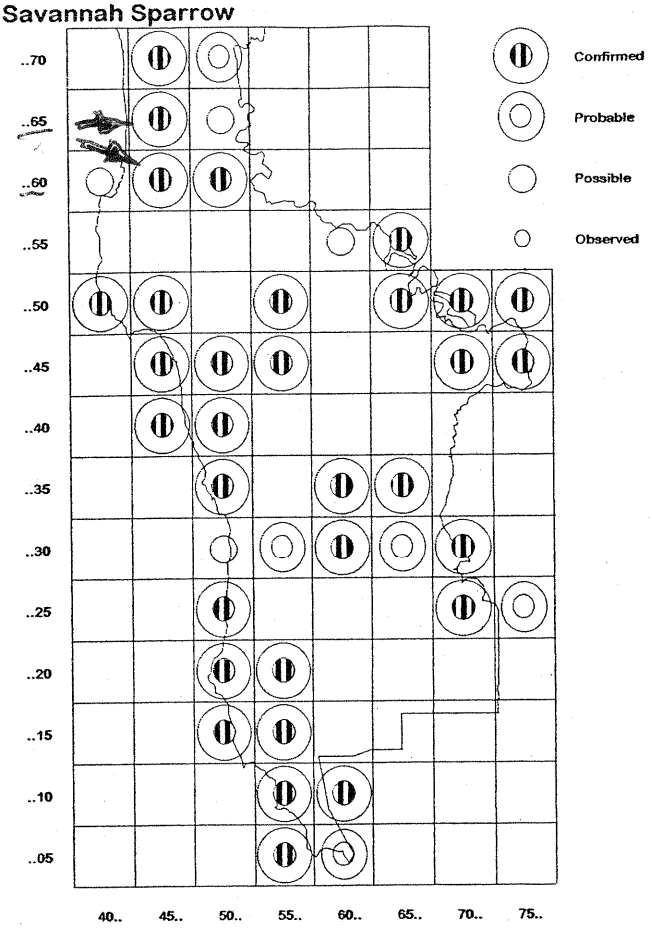


Scale for the chart

Observations sorted by day of year

Date	Cd	Block	Elev
MAR 9 92	Y	5070	
MAR 12 95	Y	6530	
MAR 16 91	Y	6045	
MAR 17 95	Y	6535	
MAR 21 92	Y	7045	
MAR 24 93	Y	7045	50
MAR 26 96	Y	5520	
MAR 29 92	X	5070	
MAR 29 94	P	4055	
MAR 31 92	Y	6045	
APR 1 95	X	6540	
APR 1 91	P	4555	
APR 3 90	Y	7015	
APR 5 92	S	5070	275
APR 6 91	P	6045	
APR 8 89	P	7045	
APR 10 91	Y	5070	
APR 10 91	Y	5070	
APR 11 94	P	6020	
APR 12 92	P	4550	
APR 12 97	P	6530	
APR 13 93	P	4060	
APR 13 91	T	4570	
APR 14 96	X	6540	
APR 15 95	Y	5050	
APR 15 91	P	5510	
APR 17 94	P	6530	
APR 18 93	P	5540	
APR 18 88	P	7030	
APR 20 92	P	6005	
APR 20 94	P	6025	
APR 22 95	P	5025	
APR 23 94	Y	7020	
APR 23 94	P	5525	
APR 23 95	P	7015	
APR 26 95	Y	6535	
APR 26 91	P	6020	
APR 27 91	P	6040	
APR 27 91	S	5070	
APR 27 92	T	5070	400
APR 27 90	PY	7045	48
APR 28 91	O	4565	
APR 28 91	P	6520	400
APR 28 96	P	6535	
APR 28 91	P	7515	
APR 28 91	P	7520	
APR 29 91	P	5515	200
APR 30 93	P	6020	
MAY 1 88	Y	7045	
MAY 1 94	P	5060	300
MAY 2 93	P	5040	
MAY 2 95	P	5535	
MAY 3 97	Y	6540	150
MAY 3 92	X	5540	
MAY 3 95	P	5035	
MAY 4 90	P	7015	
MAY 6 95	P	6540	
MAY 6 89	P	7025	
MAY 7 95	Y	6540	
MAY 7 95	P	6535	
MAY 7 91	PY	7045	55
MAY 8 95	P	4540	
MAY 8 88	FL	7025	
MAY 9 96	P	6020	
MAY 9 95	P	6515	
MAY 9 95	P	7020	
MAY 9 97	PY	6040	600
MAY 11 91	P	4050	
MAY 12 95	P	6520	
MAY 12 96	P	6540	
MAY 13 91	P	4560	
MAY 13 90	P	7025	
MAY 13 94	UN	6540	
MAY 14 92	X	4055	
MAY 14 96	P	6515	
MAY 14 95	S	6540	
MAY 14 94	A	5060	300
MAY 14 92	PY	4050	150
MAY 15 93	P	5020	
MAY 15 95	P	6050	400
MAY 17 95	X	5060	
MAY 17 90	P	6010	
MAY 17 95	P	6020	
MAY 17 95	P	6025	
MAY 17 92	P	6035	
MAY 18 97	P	4545	
MAY 18 95	P	5015	
MAY 18 93	P	5055	
MAY 18 93	P	7525	
MAY 19 96	P	6530	
MAY 21 94	P	4060	
MAY 21 89	P	6015	
MAY 21 94	P	6535	
MAY 22 96	Y	6025	
MAY 22 94	P	6525	
MAY 22 90	P	7030	
MAY 22 89	PY	6005	40
MAY 22 88	PY	7035	
MAY 22 88	PY	7040	
MAY 25 91	A	7525	
MAY 26 97	P	5050	
MAY 26 97	P	5055	
MAY 26 95	P	5555	
MAY 26 96	P	6035	
MAY 27 89	A	7030	
MAY 28 95	P	6530	
MAY 28 88	P	7520	
MAY 28 94	PY	6540	
MAY 29 95	Y	7020	
MAY 29 96	P	5520	140
MAY 30 94	P	5050	
MAY 30 96	P	6040	
MAY 30 92	A	5540	
MAY 31 93	X	6545	40
MAY 31 90	P	6515	
MAY 31 97	A	4570	700
MAY 31 88	FL	7030	
JUN 1 87	X	7025	
JUN 1 91	P	4570	
JUN 1 96	P	5045	120
JUN 1 96	P	5525	
JUN 2 96	Y	6535	
JUN 3 97	P	5555	80
JUN 3 91	P	6015	
JUN 3 89	PY	7520	3000
JUN 4 93	NE	7035	
JUN 5 96	Y	6535	700
JUN 5 94	X	5535	
JUN 5 93	P	5035	
JUN 5 93	P	5535	
JUN 5 94	P	5535	
JUN 5 92	PY	4550	100
JUN 5 90	PY	6010	300
JUN 6 90	Y	6005	
JUN 6 95	P	5525	
JUN 6 95	FL	4540	100
JUN 6 92	FL	5020	100
JUN 7 97	P	5055	
JUN 7 97	P	5550	
JUN 9 96	P	5545	
JUN 9 96	P	5550	400
JUN 9 95	P	7020	
JUN 9 96	PY	5550	700
JUN 9 88	PY	6005	40
JUN 10 95	P	6030	600
JUN 10 93	PY	6020	585
JUN 10 96	FY	5540	400
JUN 11 97	P	5505	
JUN 11 94	PY	6020	120
JUN 12 97	PY	4055	200
JUN 12 91	PY	4555	150
JUN 14 97	PY	5060	460
JUN 14 92	FL	6045	280
JUN 17 95	S	5545	
JUN 17 90	PY	7045	30
JUN 18 96	P	5030	200
JUN 18 96	P	5530	180
JUN 18 91	PY	7515	
JUN 19 95	X	5060	
JUN 19 97	PY	4565	600
JUN 19 96	PY	6020	750
JUN 19 97	FL	6035	1600
JUN 20 96	P	7025	2200
JUN 20 92	PY	6535	350
JUN 21 91	PY	5515	200
JUN 21 95	PY	6020	600
JUN 21 96	PY	6025	400
JUN 21 91	PY	7520	
JUN 21 94	FL	5545	
JUN 22 91	A	6045	
JUN 22 88	A	7025	
JUN 22 96	PY	5030	30
JUN 22 94	PY	6025	600
JUN 22 94	PY	6025	600
JUN 22 94	PY	6025	600
JUN 22 95	PY	6520	1950
JUN 23 91	P	5055	350
JUN 23 91	PY	6045	630
JUN 23 91	PY	6045	260
JUN 23 96	FL	6535	360
JUN 24 91	PY	6020	250
JUN 24 89	PY	7520	
JUN 25 95	P	5050	
JUN 25 91	PY	5510	150
JUN 25 90	PY	6515	900
JUN 25 97	PY	7030	1680
JUN 25 94	FL	6530	1400
JUN 25 90	FL	7045	
JUN 26 94	PY	6525	1000
JUN 26 91	FL	6040	
JUN 27 89	PY	6005	30
JUN 27 91	PY	6520	400
JUN 27 93	FL	5040	100
JUN 28 97	PY	5545	400
JUN 28 96	FL	6040	600
JUN 29 92	PY	6045	320
JUN 29 95	PY	7015	2160
JUN 30 96	P	4565	400
JUN 30 96	A	6035	2200
JUN 30 91	NY	5070	600
JUL 1 90	PY	7035	500
JUL 1 90	PY	7035	720
JUL 2 91	PY	4555	
JUL 2 97	PY	6050	400
JUL 2 91	FL	5070	450
JUL 3 95	A	5530	
JUL 4 87	PY	7525	
JUL 5 95	PY	5015	80
JUL 5 93	PY	7035	
JUL 5 97	FL	5055	800
JUL 6 91	PY	4570	500
JUL 8 95	PY	5520	50
JUL 8 92	FL	4570	650
JUL 9 90	PY	6015	800
JUL 9 95	PY	7020	1040
JUL 9 92	PY	7045	50
JUL 10 92	PY	6015	825
JUL 11 97	PY	5515	300
JUL 11 93	PY	5540	1680
JUL 13 97	FL	5035	300
JUL 14 92	PY	5055	800
JUL 14 96	PY	5525	320
JUL 15 97	PY	6030	700
JUL 15 95	PY	6515	2150
JUL 17 91	PY	6015	1240
JUL 17 91	FL	4560	200
JUL 19 90	PY	6015	
JUL 19 97	PY	6035	1200
JUL 21 93	PY	7525	2320
JUL 21 91	FL	4560	
JUL 21 96	FL	5545	
JUL 22 95	FL	7020	2040
JUL 23 97	PY	5045	
JUL 23 95	PY	6535	700
JUL 24 94	PY	5050	1050
JUL 25 92	PY	6540	
JUL 27 97	Y	6535	
JUL 28 95	FL	5555	300
AUG 1 87	Y	7030	
AUG 1 92	FL	5020	25
AUG 4 95	FL	5530	200
AUG 4 96	FL	7030	2000
AUG 7 92	FL	5020	25
AUG 8 93	FL	5035	220
AUG 16 90	PY	6515	1600
AUG 16 90	PY	7015	2150
AUG 16 96	PY	7035	700
AUG 26 95	FL	6545	
SEP 5 96	FL	5020	40
NOV 10 91	FL	5020	

Savannah Sparrow



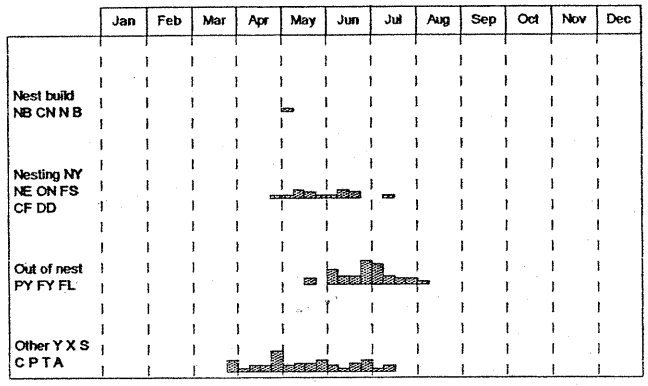
Atlas results:

93	Total observations of all kinds
32	Confirmed Blocks
5	Probable Blocks
4	Possible Blocks
0	Blocks with Observed only
41	Total blocks with O/PO/PR or CO

Percentages of Blocks with:

46.4%	Confirms
7.2%	Probable
5.8%	Possible
59.4%	Total with PO/PR or CO

Nesting Chronology

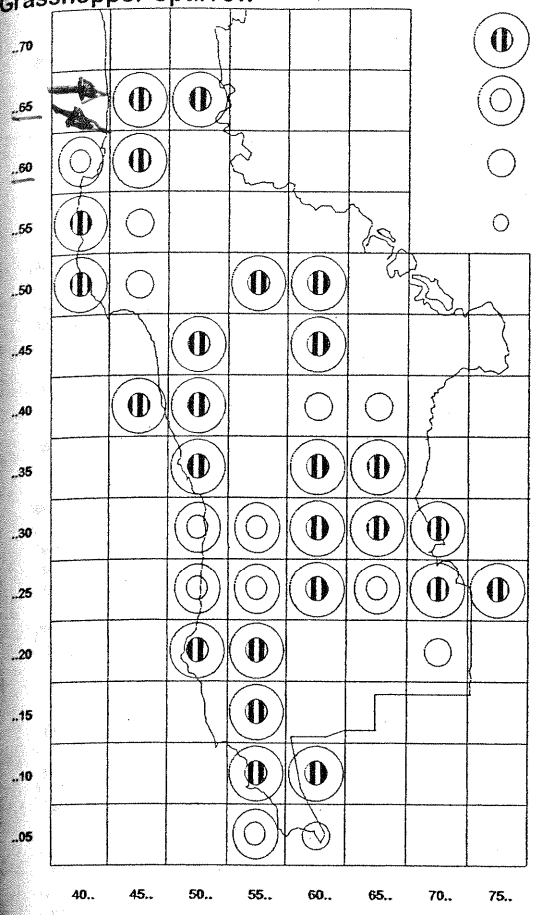


Scale for the chart

Observations sorted by day of year

Date	Cd	Block	Elev
MAR 28 94	P	6550	
MAR 28 94	P	7050	
MAR 29 93	Y	6055	8
MAR 31 93	X	6555	
APR 6 96	P	7550	
APR 10 93	X	4050	
APR 10 93	P	4050	
APR 17 94	X	6535	
APR 19 93	X	4545	
APR 22 93	Y	4060	
APR 25 94	C	7550	8
APR 25 94	A	7550	8
APR 25 93	CF	5015	
APR 27 91	P	5070	350
APR 28 91	Y	5065	
APR 29 91	X	5515	
APR 30 91	P	5510	
MAY 1 92	CF	7030	2500
MAY 2 96	P	7550	10
MAY 2 92	N	6005	
MAY 4 97	X	4570	900
MAY 7 95	Y	6550	
MAY 9 94	CF	7050	6
MAY 10 91	S	5515	
MAY 11 96	S	7550	
MAY 11 91	CF	4570	500
MAY 13 90	CF	7030	2540
MAY 15 93	P	5020	
MAY 15 97	FY	4560	1200
MAY 16 95	T	7550	
MAY 17 90	CF	6010	300
MAY 18 95	A	5015	
MAY 18 91	FL	7045	
MAY 21 97	CF	5045	
MAY 26 91	X	4050	
MAY 28 94	X	6530	
MAY 28 95	X	6530	
MAY 30 95	CF	7045	25
MAY 31 96	S	5520	120
JUN 1 89	A	7030	
JUN 1 91	CF	7045	15
JUN 3 95	X	7550	
JUN 3 90	FY	4050	11
JUN 4 94	FY	6555	7
JUN 5 93	FL	7545	3
JUN 5 93	FL	7545	3
JUN 6 92	FY	7545	5
JUN 7 97	FL	7545	
JUN 9 90	X	7045	
JUN 10 89	NY	7545	
JUN 11 97	CF	5505	40
JUN 12 94	FY	5515	280
JUN 12 94	FY	5520	200
JUN 12 93	NE	4050	50
JUN 14 97	X	5550	
JUN 16 91	CF	7025	2320
JUN 17 95	FL	5060	10
JUN 18 96	X	5030	200
JUN 18 96	P	5530	200
JUN 21 97	FY	4545	
JUN 21 96	FY	5020	30
JUN 21 91	NY	5515	275
JUN 22 96	X	6530	
JUN 22 97	FL	6035	2100
JUN 24 96	X	5545	870
JUN 25 97	Y	4560	900
JUN 25 94	S	6530	
JUN 25 91	FY	5510	200
JUN 27 96	FY	5515	240
JUN 28 95	FL	5015	160
JUN 28 93	FY	4540	50
JUN 29 95	FL	6555	
JUN 30 96	FL	4565	500
JUN 30 95	FL	7550	
JUL 1 96	FL	5515	300
JUL 2 94	FL	6550	7
JUL 4 93	FL	6555	
JUL 4 96	FY	4550	100
JUL 5 97	FL	5545	300
JUL 5 95	FL	7550	
JUL 5 92	FY	7545	
JUL 6 91	P	7525	
JUL 7 96	CF	5550	1000
JUL 7 96	FY	5035	100
JUL 9 97	FY	5040	
JUL 11 88	Y	7030	
JUL 11 93	FL	5505	
JUL 13 90	Y	7045	
JUL 15 97	FL	6030	1300
JUL 20 96	FL	6535	1800
JUL 22 94	FL	7550	8
JUL 29 95	FL	5025	100
AUG 1 93	FL	6555	

Grasshopper Sparrow



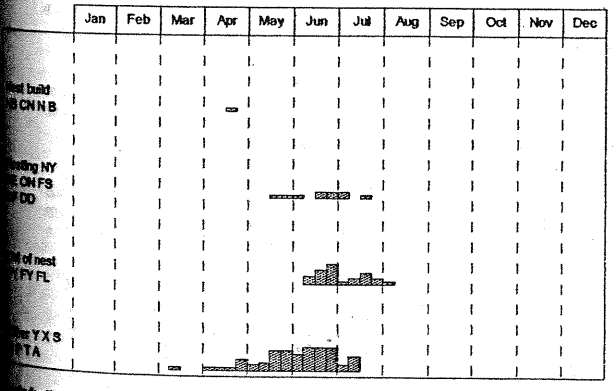
Atlas results:

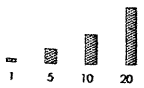
100	Total observations of all kinds
25	Confirmed Blocks
7	Probable Blocks
6	Possible Blocks
0	Blocks with Observed only
38	Total blocks with O/PO/PR or CO

Percentages of Blocks with:

36.2%	Confirms
10.1%	Probable
8.7%	Possible
55.1%	Total with PO/PR or CO

Nesting Chronology

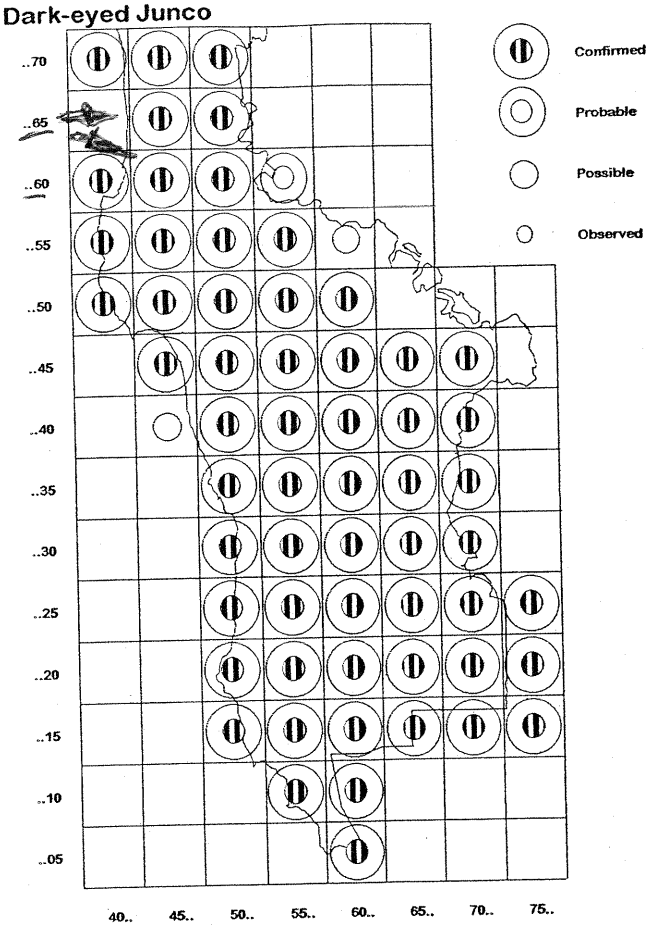




Observations sorted by day of year

Date	Cd	Block	Elev
MAR 12 95	Y	6530	
APR 1 89	X	7030	
APR 12 97	X	6530	
APR 14 89	NB	5515	
APR 17 94	P	6530	
APR 25 91	X	5550	500
APR 27 88	X	6045	
APR 29 91	X	5515	
APR 30 91	X	5510	
MAY 2 92	C	6045	
MAY 5 91	X	6045	
MAY 10 91	S	5515	
MAY 13 89	T	7030	1640
MAY 13 90	T	7030	
MAY 15 97	X	4560	
MAY 17 90	NE	6010	240
MAY 18 96	S	4050	
MAY 18 97	S	6530	1800
MAY 19 96	X	6530	
MAY 20 89	X	7025	
MAY 21 97	Y	4555	
MAY 21 97	X	5045	
MAY 22 94	X	6525	1400
MAY 22 97	S	4560	
MAY 24 92	Y	4550	
MAY 25 91	P	6045	
MAY 27 96	S	6530	
MAY 27 89	S	7030	
MAY 28 95	S	6530	
MAY 29 91	NY	5515	300
JUN 1 96	X	5525	
JUN 1 96	S	5035	400
JUN 2 90	S	4050	120
JUN 2 90	S	5040	100
JUN 4 88	X	7030	
JUN 5 96	X	7030	
JUN 5 94	CF	5515	280
JUN 7 97	X	5550	
JUN 7 92	P	6035	
JUN 8 97	P	5035	
JUN 9 96	X	5035	
JUN 10 97	FY	4055	
JUN 10 97	FY	5045	
JUN 11 95	X	5025	
JUN 11 87	X	6010	
JUN 11 97	P	5505	40
JUN 12 97	FY	5035	400
JUN 13 87	X	5505	
JUN 14 97	Y	6540	350
JUN 14 97	P	5550	
JUN 14 90	P	7030	
JUN 14 92	S	6045	
JUN 15 97	CF	4560	900
JUN 16 87	X	6005	
JUN 18 96	P	5030	200
JUN 18 96	P	5530	200
JUN 18 97	FL	4055	100
JUN 18 97	FL	6025	800
JUN 18 97	FL	7025	1600
JUN 18 95	ON	6035	1600
JUN 19 97	FL	4565	600
JUN 21 91	S	5550	500
JUN 21 96	FY	5020	200
JUN 22 96	X	6045	
JUN 23 96	P	6525	2000
JUN 23 96	S	6535	
JUN 24 96	FL	6535	1600
JUN 25 97	X	4060	
JUN 25 97	FL	4560	900
JUN 25 97	CF	4560	900
JUN 25 91	NY	5510	250
JUN 26 94	X	7020	
JUN 27 96	FL	6050	450
JUN 27 96	FY	5515	240
JUN 28 92	X	5035	160
JUN 28 95	X	6535	
JUN 28 97	FL	5550	1050
JUN 30 96	X	4565	500
JUN 30 96	FL	6035	1400
JUN 30 93	FY	4050	40
JUL 1 96	FL	5515	300
JUL 1 96	CF	5520	250
JUL 3 96	S	5530	
JUL 3 92	NY	7525	
JUL 5 97	S	4060	
JUL 7 96	P	5550	
JUL 8 97	Y	6040	2000
JUL 8 96	S	5525	260
JUL 9 95	S	5025	
JUL 9 97	FY	4540	
JUL 9 97	FY	5040	
JUL 11 88	A	7030	
JUL 14 96	FL	5065	1000
JUL 15 97	FL	6030	1300
JUL 17 94	FL	6530	1800
JUL 19 97	CF	6035	1500
JUL 20 96	FL	6535	1800
JUL 22 97	FL	5035	600
JUL 27 96	FL	6045	680
AUG 4 96	FY	7030	2000

Dark-eyed Junco



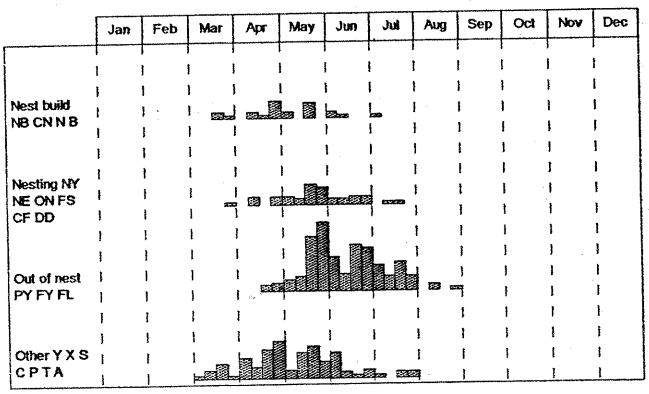
Atlas results:

291	Total observations of all kinds
59	Confirmed Blocks
1	Probable Blocks
2	Possible Blocks
0	Blocks with Observed only
62	Total blocks with O/PO/PR or CO

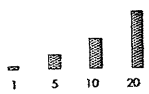
Percentages of Blocks with:

85.5%	Confirms
1.4%	Probable
2.9%	Possible
89.9%	Total with PO/PR or CO

Nesting Chronology



Scale for the chart



Observations sorted by day of year

Date	Cd	Block	Elev
MAR 4 94	P	6025	
MAR 9 92	Y	5070	
MAR 12 97	Y	6055	
MAR 12 95	X	6530	
MAR 14 93	Y	5045	
MAR 14 93	P	5040	
MAR 15 92	X	4070	
MAR 16 96	NB	7045	50
MAR 17 95	Y	6535	
MAR 18 91	P	4555	
MAR 21 92	CN	6045	320
MAR 28 90	CN	7040	
MAR 28 95	NE	7045	40
MAR 29 92	X	5070	
APR 1 95	X	6540	
APR 3 92	S	4070	
APR 5 92	X	5540	
APR 6 91	X	6045	
APR 6 93	P	4060	
APR 6 96	P	6020	
APR 6 91	P	6045	
APR 8 95	NE	6535	
APR 9 95	NE	6535	600
APR 10 91	CN	7040	80
APR 11 94	P	6020	
APR 11 90	P	6515	
APR 11 90	P	7015	
APR 11 94	CN	4055	400
APR 12 97	X	6530	
APR 12 92	CF	4070	220
APR 14 96	X	6540	
APR 14 94	P	6525	
APR 14 96	P	7030	2000
APR 15 92	Y	6045	
APR 15 95	P	5050	
APR 15 91	P	5510	
APR 16 91	X	4565	
APR 17 94	CN	6530	1200
APR 18 93	Y	5540	
APR 19 96	FL	5055	300
APR 19 97	FY	5515	450
APR 21 93	X	6020	
APR 21 91	T	6530	
APR 22 95	Y	5025	
APR 22 96	NE	6020	950
APR 23 95	CN	7015	1200
APR 24 88	FL	7035	
APR 25 93	NB	6540	
APR 26 91	P	6020	
APR 26 95	CN	6020	640
APR 26 95	NB	6015	1500
APR 27 91	X	6040	
APR 27 91	P	5070	
APR 27 93	P	6020	
APR 27 96	CF	6540	300
APR 28 91	X	5065	
APR 28 91	P	6520	
APR 28 96	P	6535	
APR 28 91	A	7515	
APR 28 91	CN	7520	2700
APR 29 93	P	5045	
APR 29 91	P	5515	
APR 29 94	CN	6530	
APR 29 92	FY	4560	100
APR 29 95	FY	5055	200
APR 30 94	P	7020	
APR 30 88	S	7030	
APR 30 91	NY	5510	100
MAY 1 94	P	5060	
MAY 1 96	FY	5550	100
MAY 1 95	FY	7045	40
MAY 2 93	X	4540	
MAY 2 95	CN	5535	1000
MAY 2 92	FL	6045	
MAY 3 95	P	5035	
MAY 3 96	CF	6030	750
MAY 3 89	CF	7520	3000
MAY 4 91	CN	6045	520
MAY 4 97	FL	4570	600
MAY 5 96	CF	6035	2100
MAY 7 95	X	6540	
MAY 7 87	P	7520	
MAY 9 95	P	6515	
MAY 9 92	P	6545	120
MAY 9 95	P	7020	
MAY 9 97	FL	6040	700
MAY 9 92	FY	5070	625
MAY 9 88	FY	7030	
MAY 9 94	NY	6020	825
MAY 11 91	P	4050	
MAY 12 95	P	5025	
MAY 12 95	P	6520	
MAY 12 90	FY	7035	480
MAY 13 92	A	6045	
MAY 13 89	CF	7025	
MAY 13 91	FY	6040	
MAY 14 92	Y	4550	
MAY 14 92	X	4050	
MAY 14 96	P	6515	
MAY 14 94	CN	5060	200
MAY 14 95	CN	6540	260
MAY 14 91	NB	6020	600
MAY 14 94	FL	5060	200
MAY 14 89	FL	6015	825
MAY 14 90	CF	7015	2240
MAY 14 96	FY	6535	365
MAY 14 96	NY	6015	1400
MAY 15 92	NB	7040	80
MAY 15 95	FL	6050	400
MAY 15 90	FL	6515	1800
MAY 15 94	FL	7020	2300
MAY 15 94	CF	7020	1960
MAY 15 96	FY	6515	2000
MAY 16 93	X	5540	
MAY 16 92	CN	6045	350
MAY 16 94	CF	6025	600
MAY 16 94	FY	6025	200
MAY 16 94	FY	6025	250
MAY 17 95	P	6025	
MAY 17 92	A	7045	59
MAY 17 92	FL	6045	
MAY 17 92	FY	5070	400
MAY 17 92	FY	6035	
MAY 17 90	NY	6010	560
MAY 18 97	P	6530	
MAY 18 92	FL	7030	760
MAY 18 93	FY	5055	450
MAY 18 91	FY	5070	425
MAY 18 96	FY	6535	380
MAY 18 93	NY	7525	
MAY 19 96	X	6530	
MAY 19 92	FL	4570	650
MAY 20 91	X	5070	550
MAY 20 89	FY	7520	3000
MAY 21 97	Y	6540	
MAY 21 94	P	6535	
MAY 21 95	FY	5030	60
MAY 21 92	NE	7040	80
MAY 22 89	FL	6005	60
MAY 22 96	FL	6025	220
MAY 22 94	FL	6525	1000
MAY 22 93	FY	6545	200
MAY 23 94	FL	6540	
MAY 23 87	FL	7525	
MAY 23 91	ON	7030	760
MAY 23 96	FY	6020	800
MAY 23 89	FY	7030	
MAY 24 95	FL	6540	
MAY 24 95	CF	6540	
MAY 24 93	FY	6020	600
MAY 25 95	FL	5065	300
MAY 25 88	FY	7025	
MAY 26 91	X	4560	
MAY 26 97	FL	5050	
MAY 26 97	FL	5055	
MAY 26 96	FL	6035	2150
MAY 26 93	FY	4060	25
MAY 27 93	CF	4545	80
MAY 28 96	X	5520	
MAY 28 88	X	7520	
MAY 28 95	P	5560	
MAY 28 95	S	6530	
MAY 28 94	FL	6530	
MAY 28 91	CF	7035	
MAY 28 91	FY	6520	350
MAY 28 89	FY	7520	
MAY 29 95	X	7020	
MAY 29 91	FL	5515	600
MAY 29 94	CF	7020	2280
MAY 29 88	FY	6005	10
MAY 30 94	CF	5050	1100
MAY 31 97	FL	6530	1500
MAY 31 92	FY	4550	200
MAY 31 96	FY	6025	220
JUN 1 88	T	7025	
JUN 1 91	CN	7035	
JUN 1 97	FL	6525	650
JUN 1 97	CF	6525	650
JUN 1 96	FY	5020	40
JUN 1 96	FY	5030	40
JUN 1 87	FY	7025	
JUN 2 96	Y	6535	
JUN 2 88	FL	7040	
JUN 2 92	NY	7040	80
JUN 3 91	P	6015	
JUN 3 89	FY	7520	
JUN 4 91	P	4560	
JUN 4 95	FL	5050	
JUN 5 96	Y	6535	500
JUN 5 93	P	5035	
JUN 5 93	P	5535	
JUN 5 94	P	5535	
JUN 5 93	NB	7030	1780
JUN 5 93	FL	7030	1860
JUN 6 95	Y	5525	
JUN 6 92	FL	7035	510
JUN 6 91	FY	4565	350
JUN 6 91	FY	5055	320
JUN 6 92	FY	6015	1725
JUN 7 92	P	6535	
JUN 7 97	FL	5550	500
JUN 7 97	FL	7025	2200
JUN 7 97	CF	7025	2200
JUN 9 96	X	5550	
JUN 9 96	FL	5545	320
JUN 9 96	FL	5550	400
JUN 10 95	CF	6030	600
JUN 11 91	FY	4555	200
JUN 12 91	CN	7015	1500
JUN 13 90	FY	7025	
JUN 14 97	FL	4560	
JUN 14 90	FL	7030	
JUN 14 97	CF	5060	475
JUN 15 95	FY	5555	100
JUN 15 89	FY	7520	
JUN 16 93	FL	7525	
JUN 16 87	FY	7520	
JUN 17 95	A	6540	
JUN 17 95	FY	5545	
JUN 18 96	FL	5030	120
JUN 18 96	FL	5530	160
JUN 18 95	FL	7020	1120
JUN 18 91	FL	7515	
JUN 19 95	FL	5060	475
JUN 19 96	FY	5015	80
JUN 19 92	FY	7035	
JUN 20 91	CF	7525	
JUN 20 96	FY	7025	2200
JUN 21 93	CF	5045	100
JUN 21 94	FY	5545	
JUN 22 96	FL	6005	
JUN 22 91	FL	6015	1200
JUN 22 97	FL	7525	2240
JUN 22 95	CF	6515	2300
JUN 22 96	FY	5520	300
JUN 22 95	NE	6540	
JUN 25 96	Y	4050	
JUN 25 97	FL	7025	2180
JUN 25 91	FL	7040	80
JUN 25 94	CF	6530	
JUN 27 93	FY	5040	100
JUN 27 96	FY	6020	640
JUN 28 97	FL	5545	400
JUN 28 91	FL	6545	200
JUN 28 92	FY	7030	1880
JUN 29 90	FL	6005	100
JUN 29 96	FL	6020	240
JUN 29 92	FL	6045	360
JUN 29 95	FL	7020	600
JUN 30 95	Y	5520	350
JUN 30 96	S	6530	
JUL 2 97	FL	4070	60
JUL 2 92	FL	6010	500
JUL 3 95	X	5530	
JUL 3 95	CN	6040	
JUL 3 95	FL	5060	
JUL 4 95	FL	7020	1960
JUL 5 94	FL	6020	600
JUL 5 97	FL	7030	2090
JUL 5 93	FL	7035	
JUL 6 97	FL	7525	2220
JUL 6 91	FY	4570	500
JUL 7 96	FL	5550	500
JUL 7 96	CF	4050	100
JUL 9 97	FY	5525	
JUL 10 95	FY	5055	400
JUL 11 93	FL	5540	1650
JUL 11 96	FY	5555	
JUL 14 96	X	5020	50
JUL 14 96	P	5070	300
JUL 14 92	FL	5055	780
JUL 14 95	FL	6520	1350
JUL 16 95	FL	5025	220