

SPECIES	Location					
	A	B	C	D	E	F
American Robin	6	4	21	3	8	1
Violet-green Swallow					1	40
Spotted Towhee						20
White-throated Swift						20
Warbling Vireo	6	1	1			
Yellow Warbler	5	5	12	7	5	2
Song Sparrow	3	3	5	3	2	
Brewer's Blackbird						
Broad-tailed Hummingbird						
Brown-headed Cowbird	8	10	7	4		
Common Merganser	1	8	2	1		
Cordilleran Flycatcher						1
House Wren	6	7	14	1	1	
Western Wood-Pewee		1	3		1	
Western Tanager			1			
Virginia's Warbler						
Cliff Swallow	55	5	15	25	4	5
Barn Swallow	1	1	1	2	1	
Cedar Waxwing		1	2			
Lazuli Bunting			1			
Common Grackle	13	5	10	6	1	
Mallard	11	9	12	10		5
Mourning Dove	12	7	16	4	9	
Black-capped Chickadee	5		11		4	
Lesser Goldfinch						
Bullock's Oriole	12	3	10	3	2	1
Black-billed Magpie		2	3		6	
American Dipper						
Red-winged Blackbird	11	15	17	15	15	
Western Meadowlark	6	2	5	3	3	
American Goldfinch	6	5	12	4		
Spotted Sandpiper	2	5	4			
Downy Woodpecker	1	2	3	1		
Black-headed Grosbeak						
Plumbeous Vireo						
Stellar's Jay						
European Starling	19	8	26	2	100	10
Golden Eagle						3
Belted Kingfisher	2		1	2		2
Eastern Kingbird	4	6	7	2		
American Kestrel			1	1		
Canyon Wren						
Dusky Flycatcher						
Green-tailed Towhee						
Flammulated Owl						
Pine Siskin						
Canada Goose	53	30	27	10	55	35
Rock Dove	9	3	4	3		20
Bank Swallow	2	10	3			20

Double-crested Cormorant	6	42	14	1		2
Red-shafted Flicker	3	1	5	1	3	1
American Crow		1			1	1
Ring-billed Gull		10				1
Western Grebe	3	2	1	3	12	
Great Blue Heron	4	2	10	6	2	
House Finch			7	1	2	
Blue Jay	1		3	3	2	
House Sparrow	1		8		1	
Warbler spp					1	
Empidonax flycatcher spp.					1	
Yellow-headed Blackbird			40			
American White Pelican		4	12	1		
Killdeer	2	6	8	5		
Black-crowned Night Heron		2	6	2		
Common Yellowthroat	2	1	5	6		
Blue-winged Teal		2	4			
Great-tailed Grackle			4			
Snowy Egret	2	3	3			
Blue Grosbeak	2		3			
Northern Rough-winged Swallow			1	4		
Orchard Oriole	1		1	1		
Black-billed Cuckoo			1			
Grosbeak spp,			1			
Swainson's Thrush			1			
American Avocet		1		2		
Green Heron				1		
California Gull	4	38				
Cinnamon Teal	2	7				
Caspian Tern	1	4				
Gadwall		3				
Forster's Tern		2				
Green-winged Teal		2				
LazulixIndigo Bunting		1				
Clark's Grebe	3	1				
Wilson's Phalarope		1				
Western Kingbird	2					
	298	294	395	149	243	170

CATEGORY

HRS FOOT	1.7	1.5	3.9	2.25	2.5	1
HRS CAR	0	0	0.1	0.25	0	0
MILES FOOT	1	0.4	2.2	3	2.25	0.4
MILES CAR	0	0	0.8	0.25	0	0
Estimated Area (HA)	69.4	78	126.7	67.9	52.1	43.1
DATE	6/9/2001	6/9/2001	6/10/2001	6/10/2001	6/9/2001	6/9/2001

START TIME	520	700	520	545	630	830
END TIME	700	835	915	815	900	930
WEATHER	Calm, clear	Calm, partly	Calm, clear,	Calm, clear,	Calm, clear,	Calm, partly
OBSERVERS	N. Komar	N. Komar	N. Komar	J. Lafleur	P. Friedmar	A. Cringan
	C. Seemuel	C. Seemuel	L. Hull		D. DuBois	J. Cringan
	L. Hull	L. Hull				
	N. Panella	N. Panella				
LOCATIONS	LOCATIONS					
A	Arapahoe Bend Natural Area				2001=52.8 ha	
B	Strauss Cabin Lakes					
C	Environmental Learning Center, including Cottonwood Hollow, Prospect Po					
D	Riverbend Ponds Natural Area					
E	Lee Martinez Park/Legacy Park (includes Poudre River trail to Taft Hill trail					
F	Watson Lake					
G	Poudre River Canyon from Ted's Place to Stove Prairie Rd.					

G	TOTAL	BREEDING CODES	POSSIBLE	PROBABLE	CONFIRMED	
35	78	C,E, I, H			1	G. Territorial behavior
29	70					B Fledglings
20	20	I	1			
18	38					F Carrying fe
17	25	I	1			
15	51	I	1			
10	26	I	1			
10	10					
9	9	G		1		
8	37	H,I,J		1		
8	20					
7	8	D,I			1	
7	36	D,G,I			1	B. fledglings
7	12	I	1			
7	8	I	1			
7	7	I	1			
6	115	D			1	H. Courtship behavior
6	12					
6	9					
6	7	I	1			
5	40	B			1	C. Sitting on nest
4	51	B			1	E. Flying with or carryir
4	52	C,H,I			1	F. Flying with fecal sac
4	24	I	1			
4	4					
3	34	C,D,H,I			1	A. nestlings
3	14	G		1		
3	3	C,E			1	I
2	75	E,G,I			1	
2	21	D,I			1	
2	29	I	1			
2	13	I	1			
2	9					
2	2	I	1			
2	2	I	1			
2	2					
1	166	A, B, D, E, I			1	I. Singing adult
1	4	B,D			1	G,H,J
1	8					
1	20	D,G			1	Breeding-Attempted ne
1	3					
1	1	I	1			
1	1	I	1			
1	1	I	1			
1	1					CODE DEFINITIO
1	1					
1	1					
	210	B			1	J. Copulation
	39					E Carrying fo
	35					G Territorial b

65					C	Sitting on n
14	I	1				
3						
11						
21					J	Copulation
24					H	Courtship
10	I	1				
9	D			1	A,B,C,D,E,F	
10	A,D			1	Confirmed-	
1						
1						
40	B,E,I			1	D. Building or Visiting I	
17						
21					I	Singing adt
10						
14	I	1				
6						
4	D,E			1		
8						
5	I	1				
5	D			1	Probable-	
3	I	1				
1						
1						
1						
3	C			1	Possible-	
1						
42					D	Building or
9	H			1		
5						
3						
2						
2						
1	I	1			A	Nestlings
4						
1						
2						
294	1843	22	4	21		

	TOTAL	OWLING
3	15.85	0.2
0.5	0.85	0.05
0.2	9.45	0
17.8	18.85	0.8
319	756.2	

6/11/2001

500

830

Calm, Partly Cloudy, 55F

N. Komar

R. Vernon

nds

ELC=87.1

PP=39.6

head)

CC=36.4

Bignall=50.9

Shields Pond=98.9

(other than singing)

cal sac

ng food
,

esting

IN

od
behavior (other than singing)

iest

Nest

ult

Visiting Nest

Table 3

Common Name	Location					
	AB	SC	ELC	RP	LM	WL
Canada Goose	53	30	27	10	55	35
European Starling	19	8	26	2	100	10
Cliff Swallow	55	5	15	25	4	5
American Robin	6	4	21	3	8	1
Red-winged Blackbird	11	15	17	15	15	
Mourning Dove	12	7	16	4	9	
Mallard	11	9	12	10		5
Common Grackle	13	5	10	6	1	
Yellow-headed Blackbird			40			
House Wren	6	7	14	1	1	
Bullock's Oriole	12	3	10	3	2	1
Western Meadowlark	6	2	5	3	3	
Eastern Kingbird	4	6	7	2		
House Sparrow	1		8		1	
Blue Jay	1		3	3	2	
Cordilleran Flycatcher						1
Northern Rough-winged Swallow			1	4		
Golden Eagle						3
Great-tailed Grackle			4			
American Avocet		1		2		
American Dipper						

Table 4. Possible and probable breeding birds

Common Name	Location					
	AB	SC	ELC	RP	LM	WL
Yellow Warbler	5	5	12	7	5	2
Brown-headed Cowbird	8	10	7	4		
American Goldfinch	6	5	12	4		
Song Sparrow	3	3	5	3	2	
Warbling Vireo	6	1	1			
Black-capped Chickadee	5		11		4	
Spotted Towhee						
Black-billed Magpie		2	3		6	
Common Yellowthroat	2	1	5	6		

Red-shafted Flicker	3	1	5	1	3	1
Spotted Sandpiper	2	5	4			
Western Wood-Pewee		1	3		1	
House Finch			7	1	2	
Broad-tailed Hummingbird						
Cinnamon Teal	2	7				
Western Tanager			1			
Lazuli Bunting			1			
Virginia's Warbler						
Blue Grosbeak	2		3			
Orchard Oriole	1		1	1		
Black-headed Grosbeak						
Plumbeous Vireo						
Canyon Wren						
Dusky Flycatcher						
Green-tailed Towhee						
LazulixIndigo Bunting		1				

Table 5.

Common Name	Location					
	AB	SC	ELC	RP	LM	WL
Violet-green Swallow					1	40
Double-crested Cormorant	6	42	14	1		2
California Gull	4	38				
Rock Dove	9	3	4	3		20
White-throated Swift						20
Bank Swallow	2	10	3			20
Great Blue Heron	4	2	10	6	2	
Killdeer	2	6	8	5		
Western Grebe	3	2	1	3	12	
Common Merganser	1	8	2	1		
American White Pelican		4	12	1		
Barn Swallow	1	1	1	2	1	
Ring-billed Gull		10				1
Black-crowned Night Heron		2	6	2		
Brewer's Blackbird						
Cedar Waxwing		1	2			
Downy Woodpecker	1	2	3	1		
Belted Kingfisher	2		1	2		2
Snowy Egret	2	3	3			
Blue-winged Teal		2	4			
Caspian Tern	1	4				
Clark's Grebe	3	1				
Lesser Goldfinch						
American Crow		1			1	1
American Kestrel			1	1		
Gadwall		3				
Forster's Tern		2				
Green-winged Teal		2				

Stellar's Jay				
Western Kingbird	2			
Black-billed Cuckoo		1		
Flammulated Owl				
Green Heron			1	
Grosbeak spp.		1		
Pine Siskin				
Swainson's Thrush		1		
Wilson's Phalarope		1		
Warbler spp.				1
Empidonax flycatcher spp.				1

Table 2 Date and hours of bird survey for e

Code	Site
AB	Arapahoe Bend Natural Area
SC	Strauss Cabin Lakes
ELC	Environmental Learning Center
RP	Riverbend Ponds Natural Area
LM	Lee Martinez Park/Legacy Park
WL	Watson Lake
PC	Poudre Canyon

PC	TOTAL	Breeding Codes
	210	B
1	166	A,B,D,E,I
6	115	D
35	78	C,E,I,H
2	75	E,G,I
4	52	C,H,I
4	51	B
5	40	B
	40	B,E,I
7	36	D,G,I
3	34	C,D,H,I
2	21	D,I
1	20	D,G
	10	A,D
	9	D
7	8	D,I
	5	D
1	4	B,D
	4	D,E
	3	C
3	3	C,E

PC	TOTAL	Breeding Codes
15	51	I
8	37	H,I,J
2	29	I
10	26	I
17	25	I
4	24	I
20	20	I
3	14	G
	14	I

	14	
2	13	
7	12	
	10	
9	9	G
	9	H
7	8	
6	7	
7	7	
	5	
	3	
2	2	
2	2	
1	1	
1	1	
1	1	
	1	

PC	TOTAL
29	70
	65
	42
	39
18	38
	35
	24
	21
	21
8	20
	17
6	12
	11
	10
10	10
6	9
2	9
1	8
	8
	6
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4	4
	3
1	3
	3
	2
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each location

Area	No. species	Total birds	Date of survey	Period of survey
69.4	41	298	9-Jun	0520-00700
78.0	48	294	9-Jun	0700-0835
126.7	52	395	10-Jun	0520-0915
67.9	36	149	10-Jun	0545-0815
52.1	26	243	9-Jun	0630-0900
43.1	18	170	9-Jun	0830-0900
319.0	46	294	11-Jun	0500-0830

TOTAL

375
374
207
186
152
149
133
120
106
96
77
66
63
60
53
50
44
19
19
13
13
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75
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52
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21
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51
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SPECIES	North Shields E2	Natu Riverbend Codes D	Ponds Codes I	Poudre River Trail Codes	PiProspect Ponds C2	Natura Codes
Cliff Swallow			110 D			49 G, C, D
Red-winged Blackbird			251 I, E			47 I, G, E, D
American Robin			19 I, E			38 I, H, E, D, /
Rock Dove			12			151 D
Canada Goose			36 B			36 B
Common Grackle			11			69 E, G
European Starling			6			51 I, D, B
Mourning Dove			22			31 G, A
Mallard			22			63 H, B
Yellow Warbler			9 I, E			22 I, H, E, D, /
Bullock's Oriole			12 I			20 I, D
House Finch			3			34 I, G
Great Blue Heron			9			13 D
House Wren			4 I			15 I
Eastern Kingbird			5 I			19 G, D
Black-capped Chickadee			8 B			3 I
Barn Swallow			15			10 D
Common Merganser						12 B
Blue Jay			5			
Downy Woodpecker			1			5 I, D
Yellow-headed Blackbird						13 I, C, F, A
Cedar Waxwing						
House Sparrow			6 E, D			2 D
Red-tailed Hawk						7 D
Hammond's Flycatcher						
McGillivray's Warbler						1 I, D
Osprey						2 D
American Dipper						
American Redstart						2 I, D
Mountain Bluebird						
American Goldfinch			10			27 I, G
Brown-headed Cowbird			17 I, G			18 I, G
Warbling Vireo			5 I			8 I
Broad-tailed Hummingbird						
Belted Kingfisher			4			6
American Kestrel						4
Orchard Oriole						2
Western Kingbird						1
Common Snipe			1			1 G
Lewis' Woodpecker						
Bank Swallow						2
Song Sparrow			6 I			10 I
Western Meadowlark			8 I			13 I
Violet-green Swallow						
Killdeer			3			24
White-throated Swift						
Red-shafted Flicker			4			6
Western Pewee						7 I
Black-crowned Night Heron			2			12

Northern Rough-winged Swallow	2	6
Black-billed Magpie		8
Double-crested Cormorant	9	4
American White Pelican	10	12
Spotted Towhee		
Spotted Sandpiper	5	5
Cordilleran Flycatcher		
Common Yellowthroat	6 I	6 I
Lazuli Bunting		
American Crow	1	
Wood Duck		9
Western Tanager		
Lesser Goldfinch		
Yellow-breasted Chat		
Stellar's Jay		
Black-headed Grosbeak	2 I	
Virginia's Warbler		
Marsh Wren		5 I
Green Heron		4
Blue Grosbeak	1 I	
Plumbeous Vireo	1 I	
Turkey Vulture		2
Green-tailed Towhee		
Blue-winged Teal	1	1
Cinnamon Teal		2
Common Raven		
Sharp-shinned Hawk		1
Pheasant		2
Great Horned Owl		
Virginia Rail	1	
Canyon Wren		
Gadwall		1
Golden Eagle		
American Coot		
Swainson's Hawk		
Hairy Woodpecker		
Gull species		
Gray Catbird		
LazulixIndigo Bunting		1 I
Northern Harrier		1
American Avocet		
Brewer's Blackbird		
Yellow-throated Vireo		
Passerina Bunting spp		
Mountain Chickadee		
Dusky Flycatcher		
Great-tailed Grackle		
Kentucky Warbler		
Wilson's Warbler		
Red-eyed Vireo		
Rock Wren		

Northern Flicker (form undifferentiated)
 Pine Siskin
 Ring-billed Gull
 Western Grebe
 Northern Pintail
 Duck spp.
 California Gull
 Wilson's Phalarope
 Pied-billed Grebe
 Red-breasted Nuthatch
 Caspian Tern
 Green-winged Teal
 Redhead
 Brewer's Sparrow
 GadwallxMallard hybrid
 Townsend's Solitaire
 "Traill's" Flycatcher
 Chimney Swift
 Black-billed Cuckoo
 Clark's Grebe
 Empidonax flycatcher spp.
 Flammulated Owl
 Forster's Tern
 Grosbeak sp,
 Snowy Egret
 Swainson's Thrush
 Warbler spp
 Common Nighthawk
 Eurasian Collared Dove
 Chipping Sparrow
 Blue-Gray Gnatcatcher
 Lark Sparrow
 Yellow-Rumped Warbler
 Brewer's Blackbird
 English Sparrow
 White-breasted Nuthatch

0 665 0 926

CATEGORY

HRS FOOT 3:25 1.16 4.5
 HRS CAR 0 0 0
 MILES FOOT 4 2 5
 MILES CAR 0 0 0
 Estimated Area (HA) 36.4
 DATE 12-Jun 7-Jun 7-Jun
 START TIME 5:15 8:20 5:10
 END TIME 8:30 9:30 10

WEATHER

Breezy, partly cloudy, 75F

OBSERVERS

J Hurrence, P Caf N Komar

N Komar, E DeFonso,

LOCATIONS

- A
- B
- C
- D
- E
- F
- G

LOCATION LOCATIONS

- A Arapahoe Bend Natural Area
- B Strauss Cabin Lakes
- C Environmental Learning Center, including Cottonwood Hollow, Prospec
- D Riverbend Ponds Natural Area
- E Lee Martinez Park/Legacy Park (includes Poudre River trail to Taft Hill t
- F Watson Lake
- G Poudre River Canyon from Ted's Place to Stove Prairie Rd.
- H Bignall Natural Area, including Poudre River Trail from LeMay to Timbe
- I Cattail Chorus Natural Area, including Poudre River Trail from Timberlir

ELC=87.1

PP=39.6

CC=36.4

Bignall=50.9

Shields Pond=98.9

ELC C1	codes	Arapahoe Bend Natur A	Strauss Cabin Area B	Poudre Canyon G	Lee Martin E1
		83 C,D	25 C,D	7	101
		19 I, B	11 I		45
A		7 I	9 E	77 I, B, G, E	37
		1		6	6
		20 C	27		
		11 E	7	6	26
		13 D	12	2	29
		13 I	8	19 I	22
		7	2		9
A		13 I	8 I	22 I	4
		10 I	7 B,G	5 I	11
		6 B		13 I	9
		5	1		
		9 I	9 I, G	13 D	10
		13 H	2		10
		7 B		6 B	15
		3	10 C,D	2	
				5	
		2	1	5 D	1
			1		2
				8 H, D	
		1			
				5 I	
				3 I	
		1			
				2 B	
				2 E, D	
		8 I, G	7 G	7 I	7
		14 I,H	3 I	11 I, H	6
		10 I, G	3 I	26 I, G, H	
				26 G	
		4 E	2		4
		2			
			4 I, G		
		2 G			1
				2 G	
		5 I	2 I	12 I	11
		14 I	1		10
				31 D	
		7	2		
				7 I, H	
		4		5	10
			2 I	18	7
					4

1		2	16
1			9
5	6		
	1		
4 J	1	17 I, H	
1 I		12 I, G	1
1		12 I	9
		11 I, H	
		6 I, H	
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			1 I 1 2 I 5 I 4 H	
				3
0	330	174	459	1 438
	3.5	1.25	0	2.33
	0	0	5.33	0
	2	0.75	0	4
	0	0	?	0
	8-Jun	8-Jun	12-Jun	12-Jun
	5:00	8:45	5:00	5:20
	8:30	10:00	10:20	7:40
	Clear, 75F	Clear, 78F		
L Hull, P Cafaro	E DeFonso, J Hurmen	E DeFonso	N Komar, L Hull 25 stops	P Cafaro, J

t Ponds

(trailhead)

rine

re to Prospect

az/Legacy codes	F Watson Lake codes	Bignall Natural Area codes	ar TOTAL	BREEDING CODES	POSSIBLE
				375	
G	1			374	
I, G, E	20 I, B, E			207	
	10 I			186	
	33 B			152	
G, E, B	19 E			149	
	20 E			133	
	5 I			120	
	3			106	
I	18 I, G			96	
	12 D, A			77	
	1			66	
	35			63	
I, E, D				60	
I	4 G			53	
B	11 I			50	
	4			44	
	2			19	
	5			19	
	4			13	
				13	
	2			10	
				8	
				8	
				5	1
				4	
				3	
				2	
				2	
				2	
G	9 I			75	
I, J	6			75	
				52	
				26	
	1			21	
	3 G			9	
				6	
I				4	
				2	
				2	
	200 D			202	
I	5 I			51	1
I	2 I			48	1
	7			38	
				36	
	29			36	1
	5			34	
I				34	1
	15			33	

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19.25
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J. Copulator
I. Singing ad
H. Courtship
G. Territorial

15-Jun
5:05
7:45

F. Flying with
E. Flying with
C. Sitting on
D. Building o
B. fledglings
A. nestlings

Breeding-Att

A,B,C,D,F
Confirmed-

E,G
Probable-
Possible-
H,J,I

γ
ult
behavior
behavior (other than singing)

γ fecal sac
h or carrying food
nest
γr Visiting Nest

.empted nesting