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MIDWEST PEREGRINE FALCON RESTORATION, 2001 REPORT

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NOTICE: All peregrines banded in the U.S. Midwest in 2001 wear a bicolored project band, black over green, on the left leg. Wild-produced birds have a purple anodized USFWS band on the right leg; hacked birds have a gold anodized USFWS band on the right leg. In Canada, hacked birds receive a red band and wild-produced birds get a black band, in addition to the usual silver USFWS band.

Many of the black/green and black/red bands have the upper or lower character (or both) tipped to the left on its side; these we show by using a star (*) to indicate the tipped-over letter or number, for example, *2/E or H/*4. It is essential to include the star because all combinations are in use (H/4, *H/4, H/*4, *H/*4 for example). It is also important to put all bands on right side up, to make them easier to read in the field. To avoid confusion, numerals take precedence over letters; that is, numerals 1 and 0 are used on the project color bands, letters I and O are not used.

We cannot change names of localities in the peregrine database when the names of buildings or companies change. The original names are entered in the database in too many places. Incomplete corrections would confuse searches for data. The same goes for individual birds -- once named, the name sticks.

INTRODUCTION

A severe winter and an extremely wet, cold spring in the Midwest resulted in late nesting, some failed nests, and some re-nesting by Peregrine Falcons (*Falco peregrinus*), but the output of young was excellent. The known territorial pairs rose from 129 to 133, little growth in territorial pairs for the first time in the history of the new population. Production of young, however, rose from 243 young in 2000 to 290 in 2001 because more territorial pairs nested this year than last (89% vs. 78%) with somewhat higher success (86% vs. 82%) in fledging at least one young. Here is a nesting summary for seven years by state or province (sequence here and in the main list below is north tier of states first, west to east; second tier, etc., then SE Manitoba and NW Ontario).

Number of territorial pairs/young fledged

	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>	<i>1999</i>	<i>2000</i>	<i>2001</i>
• North Dakota	--	--	--	--	--	1/0	1/3
• Minnesota	17/41	20/27	22/51	24/52	28/54	33/56	29/69
• Wisconsin	6/14	8/19	12/16	11/33	13/36	15/39	19/53
• Michigan	7/4	7/6	7/10	9/10	10/16	9/10	10/13
• South Dakota	--	--	--	1/0	1/0	0/0	0/0
• Nebraska	1/0	1/2	1/0	1/5	1/5	1/0	1/3
• Iowa	2/6	2/5	2/2	2/6	3/6	3/10	5/8
• Illinois	6/8	7/4	6/7	5/13	8/11	9/23	9/21
• Indiana	5/8	7/16	8/15	9/15	9/24	9/23	11/20
• Ohio	5/16	7/18	11/19	11/17	12/13	16/27	14/36
• Kansas	1/3	1/2	1/0	1/0	1/0	0/0	0/0
• Missouri	4/3	6/3	3/9	4/11	4/11	4/5	5/7
• Kentucky	1/1	1/0	1/2	1/1	2/3	3/5	3/4
• Manitoba	4/6	4/9	3/11	3/4	2/5	2/4	2/1
• Ontario	6/8	7/16	13/25	17/38	13/30	24/41	24/52
Totals	67/118	77/127	90/167	99/205	107/214	129/243	133/290

Is the period of rapid growth in territorial pairs over? Change of only a few pairs from one year to the next depends in part on arbitrary decisions about what constitutes a countable pair (Two birds present for the whole season? Two birds for a month? Two birds for a week? Two birds intermittently?). The chief area contributing to the lack of substantial growth from 2000 to 2001 was Minnesota (four pairs fewer this year). The loss of these four was offset by a gain of four pairs in Wisconsin; elsewhere changes were small. In Minnesota, four sites, none productive in 2000, were unoccupied this year (Granite Falls, Bong Bridge, Hastings Bridge, Space Tower), as well as one productive site (Mendota Bridge). These were partially offset by two new cliff sites (Hastings Cliff and Castle Cliff).

A population at carrying capacity is not usually really stable. Year to year fluctuations result from random events causing nest failures, bad weather, disruptive fights over territories, mortality of adults, and physical changes in territories, such as rock falls or loss or addition of nest boxes or trays. Clearly, however, the boom is over. The Midwest peregrine population is close to carrying capacity. Additional growth will probably be mostly on cliffs in Ontario, along the Mississippi and its tributaries, and in northeastern Wisconsin and northern Michigan. Some new pairs will find nooks and crannies in cities, but the urban population has leveled off. Smokestacks continue to be very productive sites; nest boxes placed on tall smokestacks will continue to attract new pairs.

In 1998, a poll of state coordinators made a collective prediction of 192 territorial pairs at carrying capacity, predicted to be reached in 2008. It now appears that carrying capacity has been approached, if not reached, earlier and at a lower level than predicted. Two wild cards for the future are the abundant cliffs of western Ontario that Ted

Armstrong estimated might support as many as 46 pairs, almost twice the current number, and the cliffs along the Mississippi and tributaries, where one might imagine as many as 15 to 20 pairs where there were only six this year. However, even adding 23 pairs for Ontario and 14 more river pairs, the total would be only 169, still 23 pairs short of the 1998 prediction. Could another 23 pairs find homes on new smokestacks, on bridges, or in Midwestern cities? That seems unlikely to us.

Juvenile peregrines in the breeding population

<i>Years</i>	<i>Nesting pairs</i>	<i>Number of breeders</i>	<i>Number of juveniles</i>	<i>Percent</i>
1987-92	87	174	20	11%
1993-95	123	246	13	5%
1996-97	126	252	6	>2%
1998-99	172	344	6	<2%
2000-01	215	430	7	<2%

Productivity of adults

Here is the record of the most productive females (augmented young omitted).

- *Meg 12R* (North Central Life, St. Paul MN), 42 young, 14 seasons (hacked = h)
- *Sibella 20V* (Firstar, Milwaukee WI), 41 young, 13 seasons (h)
- *Zenith 23W* (Terminal Tower, Cleveland OH), 31 young., 9 seasons (wild produced = w)
- *Mae 31V* (NSP King, Bayport MN), 30 young, 12 seasons (w)
- *Alice U/K* (Landmark, Milwaukee WI), 28 young, 8 seasons (w)
- *^Comet 11V* (Montgomery Ward, Ford Bridge, Minneapolis MN), 26 young, 9 seasons (h)
- *Phoebe blO/B* (McKenzie Seed, Brandon MB), 25 young, 8 seasons (w)
- *^Suzy Q 52P* (U.S. Steel, Gary IN), 25 young, 11 seasons (h)
- *^Marla 81V* (Colonnade and Multifoods, Minneapolis MN), 21 young, 6 seasons (h)
- *Scout 28W* (Market Tower, Indianapolis IN), 24 young, 7 seasons (h)
- *^Alma *5/T* (Dairyland Cooperative, Alma WI), 21 young, 5 seasons (h)
- *^Fridge 43R* (Palisade Head MN), 21 young, 9 seasons (h)
- *Camilla E/B* (Monticello MN), 20 young, 6 seasons (w)
- *Freedom U/*8* (One Summit Square, Fort Wayne IN), 21 young, six seasons (h)
- *^Egore 57V* (Cline Avenue, East Chicago IN), 20 young, 6 seasons (h)
- *^MF-1* (Multifoods Tower, Minneapolis MN), 20 young, 8 seasons (h)
- *^36R* (NSP Sherco, Becker MN), 20 young, 8 seasons (h)
- *2/3* (Park Plaza, St. Louis MO), 20 young, 9 seasons (h)
- *Madame 52V* (Winnipeg MB), 20 young, 11 seasons (h)
- *^Aurora red4R0* (Rhodes Tower, Columbus OH), 19 young, 6 seasons (h)
- *Baltimore 7/D* (Liberty Bank, Dayton OH), 19 young, 7 seasons (w)

- *13R* (American Republic, Des Moines IA), 19 young, 9 seasons (h)
- *Raynie A/*H* (Froedtert Malt, Milwaukee, WEPCO Kenosha WI), 18 young, 5 seasons (w)
- *Eleanor 2/8* (5821 N. Broadway, Chicago IL), 18 young, 8 seasons.(w)
- *^Harriet* (125 S. Wacker, Chicago IL), 18 young, 9 seasons (h)
- *^49R* (Firstar Bank, Cedar Rapids IA), 17 young, 7 seasons (h)
- *^Nellie McClung red3C7* (Commodore Perry, Toledo OH), 16 yg., 8 seasons (h)
- *Atlanta L/*C* (WEPCO Oak Creek, WI), 15 young, 4 seasons (w)
- *Liberty E/*D* (WPL Edgewater, Sheboygan WI), 15 young, 4 seasons (w)
- *^Algoma 77V* (Finn Church cliff MN), 15 young, 8 seasons (h)
- *Poindexter 09P* (Devil's Warehouse, ON), 14 young (probably really 21), 4 (or 6?) seasons (h)
- *^Judy redA/D* (Detroit MI), 14 young, 7 seasons (h)
- *^redX/H.*(MPL Boswell, Cohasset MN) 13 young, 5 seasons (h)
- *^Minnsoar/Ariel 75V* (Mayo Clinic, Rochester MN), 13 young, 5 seasons (w)
- *Athena 5/V* (Lakewood OH) 13 young, 6 seasons (h)
- *^Silverstreak 42V* (WPL Edgewater, Sheboygan WI), 12 young, 5 seasons (h)

^ = known or presumed dead

Here are the most productive males.

- *Bill 74T* (Firstar, Milwaukee WI), 34 young, 11 seasons (h)
- *Will 04Y* (Multifoods Tower, Minneapolis MN), 34 young, 13 seasons (h)
- *Kato 31T* (Colonnade, Minneapolis MN), 31 young, 10 seasons (w)
- *Jingles* (125 S. Wacker, Chicago IL), 29 young, 13 seasons (h)
- *^Spanky 04T* (Control Data, NCL, High Bridge, NSP High Bridge, St. Paul MN), 27 young, 10 seasons (h)
- *red*7/3* (McKenzie Seed, Brandon MB), 25 young, 8 seasons (h)
- *64T* (Firstar Bank, Cedar Rapids IA), 25 young, 9 seasons (h)
- *Kinney 7/*3* (Market Tower, Indianapolis IN), 24 young, 7 seasons (h)
- *^Omni 76T* (Landmark, Milwaukee WI), 23 young, 7 seasons (h)
- *Leopold C/D* (Froedtert Malt, Milwaukee WI), 22 young, 7 seasons (h)
- *Vulcan 79T* (U.S. Steel, Gary IN), 22 young, 9 seasons (h)
- *red1/9* (Devil's Warehouse, ON) 21 young, 6 seasons (h)
- *Marty 53Z* (Cline Avenue, East Chicago IN), 21 young, 8 seasons (w)
- *Mercury 21X* (Lazarus, Dayton OH), 21 young, 8 seasons (h)
- *^Pop* (Detroit MI), 20 young, 8 seasons (w)
- *Roosevelt R/*4* (One Summit Square, Fort Wayne IN), 19 young, 5 seasons (w)
- *^Lindee 1/*A* (MWARD, Ford Br., Mendota Bridge MN), 19 young, 7 seasons (w)
- *Franklin 95T* (5821 N. Broadway, Chicago IL), 18 young, 8 seasons (h)
- *Griffin 5/*D* (WEPCO Oak Creel, Milwaukee WI), 16 young, 4 seasons (w)
- *^Szell 67Z* (Terminal Tower, Cleveland OH), 16 young, 5 seasons (w)
- *^Maverick 05T* (NCL, Montgomery Ward, St. Paul MN), 16 young, 5 seasons (h)
- *93T* (American Republic, Des Moines IA), 16 young, 8 seasons (h)
- *Zeus X/R* (Woodmen Tower, Omaha NE), 15 young, 5 seasons (h)
- *Grant B/N* (WPL Edgewater, Sheboygan WI), 15 young, 5 seasons (w)

- *^red5P9* (Delta Winnipeg, Winnipeg MB), 15 young, 6 seasons (h)
- *4/*G* (Dairyland Coop., Maassen Bluff, WI), 14 young 4 seasons (w)
- *Bailly 4/9* (NIPSCO Bailly, Burns Harbor IN, 14 young 6 seasons (w)
- *^T-Rex bli/X* (Winnipeg MB), 14 young, 7 seasons (w)
- *^C/U* (Commodore Perry, Toledo OH), 13 young, 4 seasons (w)
- *^55X* (NSP Black Dog, Eagan MN), 13 young, 5 seasons (w)
- *74X* (MPL Boswell, Cohasset MN), 13 young, 5 seasons (w)
- *Speedster A/*6* (New Center, Detroit), 13 young, 6 seasons (w)
- *Buckeye 3/1* (Lakewood OH), 13 young 6 seasons (h)
- *^Chase 06T* (Mayo Clinic, Rochester MN), 13 young, 6 seasons (h)

^ = known or presumed dead

As in other species of birds, a small number of especially productive individuals contribute disproportionately to the output of fledged young. Are these productive individuals superior genetically? If so, their genotypes should soon predominate through natural selection. Although genetic quality may be involved to some degree, probably fortuitous circumstances (such as finding a good mate and a territory with secure nest sites and an adequate food supply) are more important. (For a discussion of this, see Ian Newton [Ed.], 1989. Lifetime reproduction in birds. Academic Press, London.)

River Cliff Nesting Peregrines

The surprising appearance of five pairs of peregrines on cliffs along the Mississippi in 2000 provoked optimistic predictions for 2001. But for most of the 2001 season, the only pairs reliably findable were on the same five territories used in 2000. Single birds and sometimes pairs were seen at several other cliff sites, but no new pairs were known to have settled down. In 2000, the three pairs on the west side of the river all fledged young, while the two in Wisconsin, both with young females, did not nest. This year, only one of the three pairs on the west side, all with the same adults as last year, succeeded in fledging young, while both of the pairs on the east side produced the first young fledged from cliffs in Wisconsin since the 1950s. At Lansing cliff in Iowa (pair 64), the pair apparently nested, failed, re-nested, and failed again. Bob Anderson thinks that heavy rain or perhaps raccoons might have been responsible. At Queens Bluff, Minnesota (pair 26), the nest probably failed in incubation, but the date and cause are not known. At Hope Bluff, John Latsch State Park, Minnesota (pair 14), two young were banded and one was seen after fledging on Faith Bluff, suggesting successful fledging by both.

Late in the nesting season, we found that a new pair (pair 10) had nested in a box on a cliff just up the Mississippi from Hastings, Minnesota. The nest site was discovered when one of the young was picked up slightly injured, perhaps rear-ended by a train on the tracks directly below the nest. Once recovered at TRC and returned home, that bird led us to its three brood mates, all flying strongly. Their nest box had been placed on the cliff in March, 1989, in hope of attracting a pair of peregrines seen there in the summer of 1988. For over a decade the box went unused. We never did see the parents of this 2001 brood of four, but the falcon whitewash on the front of the nest box was proof that brood

was reared in it. High water for weeks had prevented the usual surveillance of this nest box from the road across the river.

The usual estimate of the size of the original Midwestern peregrine population just before the DDT era is 40 pairs, all on cliffs. This year, 40 pairs already held territories on cliffs in the Midwest. It now appears likely that the Midwest cliff population may one day exceed 60 pairs, if a dozen more find territories along the Mississippi and its tributaries and another dozen around Lake Superior. Was our estimate of the size of the original peregrine population too low? Probably. Counts of the original population in the U.S. were probably fairly accurate, but the population in the wild country of northwestern Ontario was never counted. Ted Armstrong, ON MNR, looked at the number of apparently suitable cliffs in Ontario's Lake Superior basin in 1998 and predicted that as many as 46 pairs might find territories there.

SPECIAL NOTES

--There has been interesting peregrine traffic north and south along the eastern edge of the Great Plains. Over the years, falcons have moved among Des Moines, Kansas City, Topeka, Omaha, Sioux Falls, Fargo, and Winnipeg. Omaha birds have also been involved in some long-distance east-west trips, exporting female Zenith 23W to Cleveland, Ohio, and importing male Zeus X/R from Rochester, New York.

Falcons from southeastern Manitoba have moved westward across the plains to Saskatchewan and Alberta, according to Tracy Maconachie, and there has been a regular exchange between the eastern states / eastern Ontario and Ohio / Michigan. So far, no peregrines from the Rockies have come east across the plains south of Canada and none has gone west, as far as we know. Clearly, the Midwest peregrine population is not a closed population.

--The first peregrine nest in North Dakota in half a century provided some excitement in Fargo. A pair had been present in 2000 but did not nest. This year they nested in a narrow tray on a tall bank building, fledging three young. A nest box was substituted for the tray when the young were banded and all three reached independence (pair 1).

--Single parents had to care for their broods this year at several sites, after the death or injury of a mate. At NSP Prairie Island (pair 12), the male parent was killed in a window collision when the four young were close to fledging. At Dairyland Cooperative, Alma (pair 41) the female parent was killed in a hailstorm when the five young were about five weeks old; the adult male reared the brood through fledging. The male showed that he was up to the job by bringing in a steady supply of blackbirds, according to John Thiel. In Akron (pair 94), the male parent was injured and sent to TRC; he was replaced by a new male that attacked the young as they tried to fledge. Three young were fostered to other sites but a fourth, already flying, was found dead not long after the new male arrived. In Milwaukee, the very aggressive female parent at Landmark on the Lake (pair 32) had her brood of five relocated, in the hope that this would lessen her belligerence. Two chicks were placed with an unpaired but incubating female who, with some supplemental food, reared them to fledging. The other three were given to a pair of adults rearing a single chick.

--At the Colonnade in Minneapolis (pair 4), Tordoff recorded the effect of a long rainy spell on a brood of four chicks in an open tray, with no overhead cover. This is the site where, in 2000, the nest box had been removed by building management, only to be replaced with a tray after public protest. Here is the chronology, from field notes:

May 11, 2001 – eggs pipped.

May 12, 13 – all 4 eggs hatched.

May 21 – camera moved, chicks looking good. Rain starts at night.

May 22 – storm moves in, rain continues. Heavy at night.

May 23 – rain continues, female feeds dry young late morning in brief dry spell; female shelters young after feeding them. Rain resumes.

May 24 – more rain, showers, some heavy, occasional dry spells. Female still sheltering young, only glimpses visible

May 25 – 1 p.m., still raining after nearly continuous rain for past 5 hours, female sheltering young, but back end of one sticking out into rain. Female very wet, bedraggled. 2 p.m., rain continuous, two chicks out from under female, sitting motionless in the rain at her side. Rained continued past nightfall with no letup.

Male may find hunting difficult in rain. Plumage wet. Prey activity probably reduced. Female cannot leave chicks to help. Chicks 9 days old when rain starts, some temperature control. By May 25, chicks two weeks old, better temperature control, but now too large for all four to be covered by female. Can't feed and brood at same time.

May 26 – rain finally stops.

May 30 – banded four young, all OK. Tough birds!

Table 1

PEREGRINE POPULATION GROWTH AND PRODUCTIVITY
IN THE MIDWEST, 1981-2001

Year	Hacked Young	Terr. Pairs	Nesting Pairs	Success Pairs	Young Fledge	Young/Territor Pair	Young/Nesting Pair	Young/Success. Pair
1981-1986	130	4	2	0	0	0	0	0
1987	73	6	4	1	3	0.5	.75	3.0
1988	87	13	8	6	16	1.2	2.0	2.7
1989	124	16	12	9	22	1.4	1.8	2.4
1990	103	23	16	13	33	1.4	2.1	2.5
1991	117	30	22	17	36	1.2	1.6	2.1
1992	107	37	32	23	68	1.8	2.1	3.0
1993	38	53	43	33	87	1.6	2.0	2.6
1994	66	62	51	41	116	1.9	2.3	2.8
1995	54	67	53	43	118	1.8	2.2	2.7
1996	33	77	58	48	127	1.6	2.2	2.6
1997	35	90	69	58	167	1.9	2.4	2.9
1998	55	99	84	74	205	2.1	2.4	2.7
1999	63	107	89	76	214	2.0	2.4	2.8
2000	32	129	101	83	243	1.9	2.4	2.9
2001	23	133	118	102	290	2.2	2.5	2.8
Total	1140	946	762	627	1745	1.8	2.3	2.8

Note: "Young fledged" includes all young surviving to first flight from nest. Falcons hacked in Tennessee, Alabama, and Arkansas are excluded on geographic grounds.

SUMMARY OF PEREGRINE NESTING IN 2001

In the Midwestern United States, southeastern Manitoba, and the Lake Superior basin of Ontario in 2001, 133 pairs were known to be on territories, 118 pairs (89%) laid eggs, 102 pairs (86% of the nesting pairs) were successful in fledging 290 young, 2.8 young per successful pair, 2.5 per nesting pair, 2.2 per territorial pair. Of the 133 territorial pairs, 57 (43%) were on buildings, 25 (19%) were on smokestacks, 11 (8%) were on bridges, and 40 (30%) were on cliffs. Thirty-eight of the 57 building pairs succeeded, fledging 122 young. Nine of the 11 bridge pairs fledged 21 young. Twenty-three of the 25 smokestack pairs fledged 62 young. Of the 40 cliff pairs, 33 are known to have succeeded, fledging 84 young. The other seven cliff pairs either failed, did not nest, or the outcome is unknown. The most interesting comparison with 2000 is that the total number of known pairs this year remained almost steady for the first time (129 to 133), but a higher percentage nested (89% vs. 78%), resulting in substantially more young fledged (290 vs. 243).

In addition to the 290 young known to have fledged in the wild this year, an additional 23 young were hacked in our area, 11 in Kentucky, nine in Missouri, and three in Minnesota.

2001 POPULATION STATUS

TOTALS FOR REGION:**102 successful pairs fledged 290 young (SP in list below)****15 pairs laid eggs but failed to fledge young (LE)****16 pairs, non-breeding or status not known (NB)****133 territorial pairs****NORTH DAKOTA**

1. **SP-Community First Bank, Fargo, Cass County, North Dakota. New Site.** Wick Corwin reports that female b/g 9/*D, fledged wild in 1999 at Woodmen Tower, Omaha, Nebraska, and here for the second year, paired with male Dakota Ace b/r *H/D, hatched in 1997 at Sioux Falls, South Dakota. They nested in a narrow tray that was replaced with a nest box at banding. Four eggs were laid, three hatched. Two females and a male fledged, the first peregrine nesting in North Dakota since 1954.

MINNESOTA

2. **SP-North Central Life Tower, St. Paul, Ramsey County, Minnesota.** Fifteen-year-old Meg 12R again over-wintered here and nested for the 14th year with seven-year-old four-toed Sota 8/*E, here for the fourth year. Four eggs were laid, three hatched and two males and a female fledged around June 23. Meg has now fledged 42 young in 14 seasons.

3. **SP-NSP High Bridge, St. Paul, Ramsey County, Minnesota.** Bob Anderson reports that four-year-old female Sophia *3/G paired with a new male, three-year-old Smoke *3/1*. They produced four eggs, hatched three, and fledged two males and a female. Smoke *3/1* was at the Hwy. 61 bridge at Hastings, Minnesota, in spring and summer, 2000. He was seen there in early March 2001, before moving 18 miles to St. Paul.

4. **SP-Colonnade Building, Hwy. 100 and I-394, Minneapolis, Hennepin County, Minnesota.** Rich Kaiser reports that 12-year-old Kato 31T has nested here for ten years, this year paired with four-year-old female, Mendota *4/C, here for the third year. Four eggs were laid in an open gravel tray, all four hatched, two males and two females fledged. From day six to 14, the brood was exposed to nearly continuous rain. The female sheltered them as best she could, but by age 14 days, the chicks were too large for her to cover completely. Despite the rain, all chicks survived

5. **SP-NSP Riverside Plant, Minneapolis, Hennepin County, Minnesota.** Bob Anderson, Raptor Resource Project, and John Tradewell, NSP, report that five-year-old female K/*V, fourth year at this site, paired with three-year-old male *3/*A, here for the second year. They had four eggs, hatched three, and fledged two males and one female.

6. **SP-Norwest Financial Center, Xerxes and I-494, Bloomington, Hennepin County, Minnesota.** For the fifth year, a pair of adults appeared in late March and nested in the old tray. The female is unbanded, as in previous years, paired with a new adult male, banded but not yet identified. Four eggs were laid, all hatched, two males and two females fledged. One of the young was photographed by Chris Fagyal at Murphy-Hanrehan Regional Park, about 10 miles south of the nest site, on August 10. Paul Budde again helped monitor this site.

[Ford Parkway Bridge, Minneapolis, Hennepin County, Minnesota. This site was not used in 2001, vacant for the third year.]

[Mendota Bridge, Fort Snelling State Park, Dakota County, Minnesota. After five successful years, this site was not used in 2001, although peregrines were seen nearby in March. If the adults moved to a new site, we were unable to find it.]

7. **SP**-Multifoods Tower, Minneapolis, Hennepin County, Minnesota. Fourteen-year-old male Will 04Y, here for the 13th year, and three-year-old female *E/X, here for the second year, produced five eggs but only three hatched. Two males and a female fledged.

8. **SP-I-94** Mississippi River Bridge/Riverside Plaza, Minneapolis, Hennepin County, Minnesota. Albert Charles Bergmann reports on this pair, which nested in the tray installed in 2000 by Mark Pribula and his MN DOT crew after three successive failures from flooding. The same adults were present, female Phoebe, a seven-year-old escapee from falconry in Kansas, and six-year-old male Pippin C/*5. They fledged three young around July 10, not banded because incessant traffic makes the nest inaccessible

[University Bridge, St. Cloud, Stearns County, Minnesota. Although peregrines were reported here on several occasions, we were unable to get information about pairing status or nesting at this site this year.]

9. **SP-NSP** Black Dog Plant, Eagan, Dakota County, Minnesota. Bob Anderson (RRP) and Chuck Huske (NSP) report that five-year-old female Nora G/*V, here for the fourth year, paired with one-year-old Mille 1/*6, fledged in 2000 at North Central Life, St. Paul, Minnesota. They fledged four young, two females and two males

10. **SP**-Hastings Cliff/Hwy. 61 bridge, Hastings, Dakota County, Minnesota. **New Site.** In 1988, an adult male peregrine and a one-year-old female spent the summer at a cliff about a half mile upriver from the Hwy. 61 bridge at Hastings. A nest box was installed on the cliff in March 1989 by Pat Redig, Dave Slipka, and Roger Kaercher, but the pair failed to return. In 2000, two adult peregrines were watched all summer at the Hastings Hwy. 61 bridge by Wendell Snider. They did not nest. The male peregrine Smoke *3/*1, was seen by Snider at the bridge in early spring, 2001, accompanied by an unidentified female. Smoke *3/*1 then moved upriver 18 miles to NSP High Bridge in St. Paul, where he and his new mate Sophia *3/G fledged three young (pair 3). Snider saw no peregrines at the bridge through the rest of the 2001 nesting season. On July 13, a recently fledged, slightly injured female peregrine was picked up by Keith Eide near Hwy. 61 north of the Hastings Bridge. After rehabilitation at TRC, this female was banded and released on July 22 at the cliff with the nest box. A young sibling was perched on a tree above the box on July 21 and the box showed heavy whitewash, indicating use by a peregrine brood this year. On July 24, Matt Solensky and Bud Tordoff saw four strong-flying young, two males and two females, one the banded bird released on July 22. The adults were not seen. The nest box had been checked several times a year since 1989 with no sign of use by peregrines, but access to the best viewing point on the south side of the river was blocked this year by high water, allowing this nesting to go undiscovered until after fledging.

Adult female Pathfinder W/P, fledged at NSP Prairie Island, Minnesota, in 1999, was found dead a few hundred yards from the Hastings cliff nest on August 7 by Conservation Officer Joel Heyn. It was badly decomposed and the cause of death was not determined. Perhaps this female was either the parent of the Hastings Cliff brood or had been killed by the female parent. An unbanded young male peregrine, not long out of the nest, was found alive in Inver Grove Heights, Minnesota, about ten miles from the Hastings Cliff on August 2. It was thin, dehydrated, and had a partly healed broken scapula. After rehabilitation at TRC, it was banded and released from a hack box at St. Olaf College, Northfield, Minnesota, on August 9. This male may have belonged to the Hastings Cliff brood.

11. **SP-NSP King Plant, Bayport, Washington County, Minnesota.** Bob Anderson reports that female Mae 31V, twelve years old and nesting here for the twelfth time, paired with an unidentified male. Four eggs were laid, all hatched, and four young fledged, two of each sex.

12. **SP-NSP Prairie Island, Goodhue County, Minnesota.** Ken Mueller, Dan Orr and Brad Giese of NSP and Bob Anderson report that eight-year-old female 7/1, here for the fifth year, paired with male Zeus *S/U, fledged in 1997 from Norwest Financial Center, Bloomington MN. He was probably here in past seasons but was elusive and not identified until killed this year by flying into a window at the plant on 29 June. Four young fledged shortly after the death of *S/U, one of several broods being cared for at fledging by a single parent this season because of death or injury to the other parent. The young were not banded because lightning prevented access to the nest on the day intended for banding.

13. **SP-Cargill Elevator, Red Wing, Goodhue County, Minnesota.** Bob Anderson reports that three-year-old female *M/D, fledged in 1998 at Woodmen Tower, Omaha, Nebraska, and male Prescott *3/*2, fledged in 1998 at NSP King, Bayport, Minnesota, produced four eggs and fledged four young, all females.

14. **SP-Hope Bluff, John Latsch State Park, Winona County, Minnesota.** Ray Faber kept track of this pair again this year. An unbanded male paired with three-year-old female Star *K/*5, the second year at this site for the female and probably also the male. They moved from a box used last year on Faith, the southern bluff in the park, to the middle bluff where they nested in a shallow cave. Two young were banded, one of each sex, and successful fledging is assumed. Carol Schumacher saw a juvenile peregrine on Faith Bluff on July 5. John Arent and Jim Mussell climbed here.

15. **SP-NSP Sherco Plant, Becker, Sherburne County, Minnesota.** Dan Orr, NSP biologist, reports that a new pair here fledged two female young. The new female is two-year-old Nicole V/Z, fledged at NSP King, Bayport, Minnesota, in 1999. She was on camera at NSP Riverside this year from January 17 to February 28 and identified at the Space Tower, State Fairgrounds, St. Paul, on March 21, by Matt Solensky, before finally settling to nest at NSP Sherco. Her mate was three-year-old Marshall *3/*C, fledged at NSP Riverside in 1998.

16. **SP-NSP** Monticello Plant, Monticello, Wright County, Minnesota. Dan Orr (NSP) and Bob Anderson report that seven-year-old female Camilla E/B paired with three-year-old male Al Grewe *B/*1, fledged in 1998 at University Bridge, St. Cloud, Minnesota. Camilla E/B was first identified here in 1996 and probably has been nesting here ever since, but has not been identified every year. The pair fledged three female young. Norman Ford helped read the male's band.

17. **SP-Hull Rust Mine**, Hibbing, St. Louis County, Minnesota. Norman and Delores Ebert report that a male was seen on March 21, a courting pair on April 13, and a rival male on May 7, resulting in battles until May 15. Three young were seen in the cave used in 1994 on July 24. All three had fledged by July 31. No bands were seen on either adult.

18. **SP-Minnesota Power and Light Boswell Energy Center**, Cohasset, Itasca County, Minnesota. An unidentified pair fledged four young, according to Daryl Councilman, MPL, and Bob Anderson. The young were not banded.

Each year, Minnesota North Shore peregrines are banded with the essential and much appreciated help of expert climbers from the Wolf Ridge Environmental Learning Center, Finland, Minnesota. This year the climbers at Palisade Head and Corundum Point were Julie Flotten, Peter Smerud, and Joe Walewski. Jim Mussell and John Arent climbed at Castle Cliff.

19. **SP-NorthShore Mining**, Silver Bay/Pink Cove cliff, Beaver Bay, Lake County, Minnesota. Scott Gischia, Warren Lind, and Brad Johnson report that a pair of adults nested here for the third year. This year they used an inaccessible old raven nest high on a coal unloader. Two young were fledged, not banded

20. **SP-Castle Cliff**, Castle Haven, Lake County, Minnesota. **New Site.** Mike Steffes discovered this pair in late April and kept watch for the rest of the season. The female is unbanded and the male is Connor *B/*2, fledged at Finn Church cliff, Cook County, Minnesota, in 1998. The nest was in an old but still sturdy raven nest on a 70 foot cliff. Three young, a female and two males were banded and fledged in mid-July. Dave Evans, Matt Solensky, and Mike Steffes read Connor's color band. Steffes reports that at least two of the young were still visiting the nest cliff in early September.

21. **SP-Corundum Point cliff**, Split Rock State Park, Lake County, Minnesota. On two early visits to this site, no peregrines were seen. On banding day, we decided to climb to the nest ledge used in 2000, expecting to find it unused. When the climber was part way down the cliff two adult falcons flew out and protested mildly. Their three chicks, two females and a male, were banded. These notably mild-mannered adults were not identified

22. **SP-Palisade Head cliff**, Tettegouche State Park, Lake County, Minnesota. The nest this year was on a ledge used in 1991 and 2000, northeast of the parking lot. The adult female is again unbanded; the seven-year-old male is red 7/R, hatched in Sleeping Giant Provincial Park, Ontario, in 1994. In 1998 and 1999, 7/R nested at Kennedy Creek, four miles northeast of Palisade Head. Last year he nested here, judging

by his red band, read by Brad Johnson this year and seen but not read last year. Two young fledged this year, a male and a female.

23. **SP**-Manitou cliff, northeast of Little Marais, Lake County, Minnesota. Third year for this site. Again the female is unbanded, the male has a b/r band, *P/?. The brood fledged successfully, uncounted and, at the request of the property owners, not banded.

[Space Tower, State Fairgrounds, St. Paul, Ramsey County, Minnesota. A nest box installed here in 1998 attracted a pair of falcons in 2000, but this year only a single bird was seen, on March 21. Matt Solensky read its band; female Nicole V/Z, fledged in 1999 at NSP King, Bayport, Minnesota. Female V/Z was also captured on camera by John Tradewell visiting the smokestack nest box at NSP Riverside, Minneapolis, Minnesota, from January 17 to February 28, 2001. She finally nested at NSP Sherco, Becker, Minnesota (pair 15).]

[Bong Bridge, Duluth, St. Louis County, Minnesota. Dave Evans reports that there was no nesting attempt here this year.]

[Kennedy Creek cliff, Lake County, Minnesota. No peregrines nested here this year. Male red 7/R, here in 1998 and probably 1999, was identified this year at Palisade Head, where he was also probably present in 2000.]

24. **LE**-City Hall, Minneapolis, Hennepin County, Minnesota. For the second year, a female wearing only a silver band nested in a cubbyhole on this ornate building. She laid eggs and incubated, but apparently without help from a male, although once a male was seen perched at the site. We suspect that she was paired bigamously both last year and this year with Will 04Y, whose primary nest is at the Multifoods Tower, four blocks away. The eggs did not hatch. If our suspicion of bigamy is correct, it adds interest to the successful fledging last year of two young at City Hall. There have been several cases of males paired simultaneously with two females in the Midwest, but in all other cases the secondary nest failed to fledge young.

25. **LE**-Mayo Clinic, Rochester, Olmsted County, Minnesota. Three-year old male *7/K, here for the second year, paired with two-year-old female Miranda W/C, fledged in 1999 at NSP Monticello, Monticello, Minnesota, and identified 10 May 2000 at the Space Tower, State Fairgrounds, St. Paul, Minnesota. They nested in a box atop the roof of the Guggenheim Building, getting a late start. The clutch of three was completed around May 21. Two eggs hatched, but the chicks died at ages 6 and 10 days. Extreme heat may have been a factor. Barb Perry and Jaime Edwards, both of the MN DNR, report that male *7/K was killed in Rochester on August 16 when a car struck him and the chimney swift he was chasing.

26. **LE**-Queens Bluff, Great River Bluffs State Park, Winona County, Minnesota. The same pair as last year, three-year-old female *C/*P and three-year-old male *E/W, returned and nested again. The nest failed, however, and no birds were seen when the cliff was climbed for banding on June 15 by Jim Mussell.

27. **LE**-Blatnik Bridge, Superior, Douglas County, Wisconsin / Duluth, St. Louis County, Minnesota. Dave Evans reports that a pair of banded unidentified peregrines nested here in April, failed, laid again in mid-May, and failed again. On July 1, both adults were seen. On July 6, the male was still present but the female was not seen by Evans in a three-hour watch

28. **NB**-Finn Church cliff, two miles northeast of Tofte, Cook County, Minnesota. No peregrines were seen here on visits by us on May 3 and June 13, but sightings of peregrines in the area were reported to Wayne Russ, U.S. Forest Service biologist at Tofte Ranger Station.

29. **NB**-Hat Point cliff, northeast of Grand Portage, Cook County, Minnesota. Dave Evans visited this site in mid-July and found no evidence of peregrine nesting, although he heard a peregrine call.

30. **NB**-Champion International paper mill, Sartell, Stearns County, Minnesota. Peregrines were seen here again early in the season by Mike Asselin, but they did not nest in either of the two boxes available. This site is 7.5 miles upstream from the University Bridge nest site in St. Cloud.

WISCONSIN

31. **SP**-Firststar Center, Milwaukee, Milwaukee County, Wisconsin. Greg Septon reports that thirteen-year-old female Sibella 20V, thirteenth year at this site, and eleven-year-old male Bill 74T, eleventh year, produced four eggs by April 7, hatched all four around May 10, and fledged two females and two males. One of the young was found dead near the nest site on June 9. Sibella has now fledged 41 young, almost in a dead heat with Meg's 42.

32. **SP**-Landmark on the Lake, Milwaukee, Milwaukee County, Wisconsin. A new male, Donny M/E, fledged wild in 1999 at the Busch Agricultural Complex in Manitowoc, Wisconsin, kept company for two weeks in March with an unbanded adult female. On March 29, that female was displaced by female Alice U/K, who has nested here for eight years. Alice U/K was banded here as an adult in 1995 and her age therefore is unknown. Five eggs were laid and all hatched around May 22. To discourage Alice U/K, whose increasingly aggressive behavior has become unacceptable, two of the chicks, one male and one female, were exchanged on June 10 for two infertile eggs being incubated by an unpaired female at Milwaukee's WEPCO Valley Power Plant. The other three chicks, two females and a male, were moved June 14 to the Dairyland Genoa Plant at Genoa, Wisconsin, where they were added to the single chick already at this site.

33. **SP**-Froedtert Malt, Milwaukee, Milwaukee County, Wisconsin. Greg Septon reports that nine-year-old Leopold C/D, seven years at this site, paired with six-year-old female Raynie A/*H, fourth year at this site. They produced four eggs by April 6, all four hatched around May 8, and one female and three males fledged in mid-June 11. Raynie is still exceptionally aggressive in nest defense.

34. **SP-WEPCO Oak Creek Power Plant, Milwaukee, Milwaukee County, Wisconsin.** Greg Septon reports that the male here was verified to be seven-year-old Griffin 5/*D and the female is five-year-old Atlanta L/*C, here for the third year. Four eggs were laid by April 5, all hatched and two males and two females fledged in mid-June

[Hoan Bridge, Milwaukee, Milwaukee County, Wisconsin. This site, discovered in 1999, was not been occupied by peregrines in 2000 or 2001.]

35. **SP-WEPCO Port Washington Power Plant, Port Washington, Washington County, Wisconsin.** Greg Septon reports that three-year-old male Flaps 8/*T paired here with two-year-old female Whitney 6/*E, both here for the second year. They produced four eggs by April 11, hatched three around May 13, and fledged three young, two females and a male, in late June.

36. **SP-WPL Edgewater Generating Station, Sheboygan, Sheboygan County, Wisconsin.** A banded unidentified adult male, probably the same male here last year, paired with five-year-old female Liberty E/*D, here for the fifth year. Five eggs were laid from April 2 to 10. Three hatched around May 12, and two females and a male fledged around June 23, according to Greg Septon.

37. **SP-Busch Agricultural Resources Complex, Manitowoc, Manitowoc County, Wisconsin.** Greg Septon reports that an unbanded adult male, as in 1998, 1999, and 2000, and new female *G/*9, fledged in 1999 at NIPSCO Bailly Plant in Porter, Indiana, produced four eggs April 9 to 15, hatched all four around May 17, and fledged one female and three males in late June.

38. **SP-WPS Pulliam Power Plant, Green Bay, Brown County, Wisconsin.** Greg Septon reports that an unidentified banded adult male, as in 1999 and 2000, and four-year-old female *H/2 produced four eggs March 18 to 24, hatched all four April 23 to 25, and fledged four young, three females and a male, the first week of June.

39. **SP-WEPCO Pleasant Prairie Power Plant, Pleasant Prairie, Kenosha County, Wisconsin.** Greg Septon reports that three-year-old Breezer *R/*2 paired with an unidentified adult male, probably the same as last year. They produced five eggs by March 27, hatched four by April 30, and fledged two females and two males around June 10.

40. **SP-Kewaunee Nuclear Power Plant, Kewaunee, Kewaunee County, Wisconsin. New Site.** Greg Septon reports that two-year-old female Connie *H/*4, fledged wild in 1999 at U.S. Steel, Gary, Indiana, and two-year-old male Chase N/K, fledged wild in 1999 at WEPCO Oak Creek, Oak Creek, Wisconsin, took up residence in a new nest box on the ledge at the base of the containment dome. Three eggs were laid by April 10, all hatched around May 14, and two females and a male fledged around June 25.

41. **SP**-Dairyland Power Cooperative, Alma, Buffalo County, Wisconsin. John Thiel and Bob Anderson report that five-year-old female Alma *5/T, here for the fifth year, paired with five-year-old male Gamma *T/P, here for the second year. They produced five eggs by April 10, hatched all five around May 15, and fledged five young, three females and two males, around June 26.

Alma was captured and fitted with a satellite radio by Anderson and Matt Solensky on June 7. She was found dead by Leann Weis near Whitewater, Minnesota, about 12 miles from Alma, on June 18. Necropsy by Pat Redig at The Raptor Center showed conclusively that she had been killed instantly by a depressed skull fracture, presumably caused by a hailstone in a severe storm that, according to John Cole, MN DNR, passed through the area on June 17. Male Gamma *T/P finished rearing the brood of five by himself.

42. **SP**-Dairyland Genoa Power Plant, Genoa, Vernon County, Wisconsin. Bob Anderson and John Thiel report that five-year-old female Scooter U/W paired initially with an adult male believed to be six-year-old male V/W. At banding, a banded one-year-old male was in residence. Four eggs were laid by April 18, one male hatched by May 26. Which male fertilized this egg is not known. Two females and a male from Milwaukee's Landmark on the Lake were added to the nest on June 15. All four fledged successfully the first week of July.

43. **SP**-Nelson Dewey Power Plant, Cassville, Grant County, Wisconsin. **New Site.** Bob Anderson reports that the female here is two-year-old Christine L/*1, fledged wild in 1999 from the High Bridge, St. Paul, Minnesota. The male is G/V, hatched in Dubuque, Iowa, in 1999. They produced three eggs that hatched near May 11. Two males and a female fledged around June 22.

44. **SP**-Maiden Rock cliff, Buffalo County, Wisconsin. **New Site.** John Dingley and Bob Anderson reported a pair here the last week of March. The female is two-year-old *E/*W, fledged wild at Cedar Rapids, Iowa, in 1999 and present here in 2000 with a different male but not nesting. The male, Gunnar D/E, hatched at Effigy Mounds, Iowa, in 1999, is new to this site this year. Four young, three females and a male, fledged around July 1. Bands on both adults were read by Matt Solensky. Jim Mussell and Bob Anderson climbed here.

45. **SP**-Maassen Bluff, two miles south of Nelson, Buffalo County, Wisconsin. **New Site.** Gary Grunwald reported a non-nesting pair at this new cliff site in 2000. The male, here for the second year, is six-year-old 4/*G. The female, V/Y, fledged in 1999 at NSP King, Bayport, Minnesota. The female here in 2000, R/*1, was killed by a car close to the site on August 24 and was replaced on September 17, 2000, by female V/Y. Two young were fledged this year, a male and a female, around July 7. Bob Anderson and Neil Rettig climbed here.

46. **LE**-WEPCO Valley Power Plant, Milwaukee, Milwaukee County, Wisconsin. **New Site.** A nest box on a smokestack here attracted five-year-old female Daisy *Y/3, fledged wild in 1996 at Firststar Bank, Cedar Rapids, Iowa. Several males

were seen during the season, but Bill 74T, the philandering male from Firstar Center, only a mile away, appears to regard the site and Daisy *Y/3 as his own. Three eggs were laid, one disappeared during incubation; the remaining two, infertile, were replaced on June 10 by two chicks from Landmark on the Lake (pair 32). Both were adopted and fed by Daisy *Y/3 and probably also by Bill 74T. Both fledged, a male and a female. Two quail per day were provided by WEPCO engineers Bill Holton and Bob Meidl until the young were safely on the wing, according to Greg Septon.

47. **NB**-Racine County Courthouse, Racine, Racine County, Wisconsin. Greg Septon and Wayne Johnson report that a peregrine was here in mid-March. A seven-year-old female 5/*U, a falconry bird, was released here on March 26 and a rehabilitated yearling male R/B on April 5. Male R/B was killed in a window collision on April 22. No nesting occurred here this year.

48. **NB**-Weston Power Plant, Rothschild, Marathon County, Wisconsin. One or two peregrines were reported here on several dates in March and April by Roger Zimmerman, but the nest box on a smokestack was not used.

49. **NB**-Ladish Malt Site, Jefferson, Jefferson County, Wisconsin. Greg Septon reports falcon activity at a nest box here in April and two birds seen on May 11, an adult male and a one-year-old female, both with purple bands on the right leg and b/g bands on the left. No nesting took place.

MICHIGAN

50. **SP**-New Center/Fisher Building, Detroit, Wayne County, Michigan. Judy Yerkey and Tim Payne report that a new unbanded female, "Goldie," paired with seven-year-old Speedster A/*6, his sixth year at the site. An unknown number of eggs were laid, two female young fledged.

51. **SP**-Monroe Edison Power Plant, Raisin River, Monroe, Monroe County, Michigan. Judy Yerkey and Tim Payne report that six-year-old female, Monroe E/K, here for the fourth year, paired with six-year-old male, Leopold N/*4, here for the fifth year. They fledged one male young, which was banded when grounded.

52. **SP**-Grand Haven Board of Light and Power, Sims Plant, Grand Haven, Ottawa County, Michigan. **New Site.** Ernie Kafcas, Nik Kalejs, Tim Payne, and John Will report that two-year-old female Kishenzi 5/*L, fledged at WPS Pulliam, Green Bay, Wisconsin, paired with three-year-old male b/r Don 8/*U, fledged at WEPCO Pleasant Prairie, Wisconsin. Both birds were identified here on January 21, 2001, by Chip Franke, as they fed on a Goldeneye. Three young were fledged, two females and a male. Peregrines were present at this site in 2000 but did not nest. Tim Hicks and Ric Pedler helped keep track of events at this site.

53. **SP**-Porcupine Mountains Wilderness State Park, five miles west of Silver City, Ontonagon County, Michigan. Barb Rogers and Joe Rogers report that an

unidentified pair fledged four young, three females and a male, around the first week in July. The young were banded.

54. **SP**-International Bridge, Sault Ste. Marie, Chippewa County, Michigan. Barb, Joanna, and Joe Rogers and Bob Kinsella report that a first nesting attempt here this year failed. The pair re-nested and fledged one female young, banded. The adults were not identified.

55. **SP**-Pictured Rocks National Lakeshore, Grand Portal cliff, near Munising, Alger County, Michigan. **New Site.** Joe Rogers saw a peregrine here but did not find a nest. Ed Kuivanen, MI DNR found the nest location on a cliff at Grand Portal and saw at least two flying young.

56. **LE**-Ameritech/Book Building, Detroit, Wayne County, Michigan. Judith Yerkey, Detroit Peregrine Coordinator, and Tim Payne, MI DNR, report that five-year-old Marical A/*C paired with four-year-old Cinder *5/C. This is the second year at this site for Cinder *5/C. He spent the winter here and his bands were read this spring. After the eggs hatched, the nest failed in a severe storm.

57. **LE**-Whittier Apartments, Detroit, Wayne County, Michigan. Ten-year-old Sunrise 55R, at this site for the seventh year, paired with a new male, two-year-old Allegro V/G, fledged at Terminal Tower, Cleveland, Ohio, in 1999. They produced three eggs, the nest failed, the pair re-nested, and the re-nesting failed, according to Judy Yerkey.

58. **LE**-Michigan National Bank / State Capitol, Lansing, Ingham County, Michigan. Mark Dietrich reports that four-year-old female Stelco, black 4/S, paired with a new one-year-old male, Alimak, G/C, fledged in 2000 at Dairyland Cooperative, Alma, Wisconsin. Eggs laid on a poorly drained ledge on the Michigan National Bank were lost in a storm. A new platform was placed on the state capitol building and a nest box may be placed at the Tower site.

59. **NB**-Grand Island, north of Munising, Alger County, Michigan. Joe Rogers saw a peregrine here but did not find a nest. MI DNR Conservation Officer Ed Kuivanen also reported peregrines here, suspects they nested but saw no young and cannot confirm nesting.

[Trap Hills, Ontonagon County, Michigan. Joe Rogers reports that no peregrines were seen here this year.]

SOUTH DAKOTA

[Sioux Falls, Minnehaha County, South Dakota. Charles Patterson and Tim Keyser report that no peregrines were seen here in spring, but in summer fresh prey remains on buildings suggested that a falcon might still be in residence. The male Dakota Ace*H/D that nested this year (pair 1) in Fargo, North Dakota, was hacked here in 1997.]

NEBRASKA

60. **SP**-Woodmen Tower, Omaha, Douglas County, Nebraska. John Dinan and Carey Grell, Nebraska Game and Parks Commission, report that seven-year-old male Zeus X/R, here for the sixth year, has paired with a new female, two-year-old Amelia *E/*V, fledged in 1999 at Cedar Rapids, Iowa. After arriving in Omaha in June, 2000, *E/*V remained at this site with X/R through winter prior to nesting this season. The pair had four eggs by early April, hatched three and fledged two males and a female starting June 18.

IOWA

61. **SP**-Firstar Bank, Cedar Rapids, Linn County, Iowa. Pat Schlarbaum, Bruce Ehresman, Iowa DNR, and Jodeane Cancilla, Macbride Raptor Project, report that three-year-old female *S/*5, nesting here for the second time, and twelve-year-old male 64T, here for the ninth year, produced three eggs and fledged three female young.

62. **SP**-American Republic, Des Moines, Polk County, Iowa. Pat Schlarbaum and Bruce Ehresman, Iowa DNR, report that ten-year-old female 13R, nesting here for the ninth year, paired again with eleven-year-old male 93T, his eighth year at this site. They produced four eggs and fledged three young, two males and a female.

63. **SP**-Centennial Bridge, Davenport, Scott County, Iowa. **New Site.** Pat Schlarbaum, IA DNR, and Shawn Diedrich report that peregrines nested at this bridge this year. Three birds were seen at least once. A female, presumably one of the parents, had some brown feathers, indicating that she was one year old. She was banded b/g, but not further identified. In September, while replacing light bulbs on the bridge, Diedrich saw two adults and two young, presumably fledged here earlier.

64. **LE**-Lansing cliff, Lansing, Allamakee County, Iowa. Bob Anderson, Raptor Resource Project, reports that four-year-old female Joanne *6/V paired again with four-year-old male Alpha *T/M, both nesting here for the third year. They nested on a ledge on the cliff, failed, re-nested in a nest box on the cliff, laying four eggs, and failed again. Heavy rain or raccoons may have caused the nest failures.

65. **NB**-MEC Louisa, Louisa County, Iowa. Jim Haack, MidAmerica Energy, reports that a pair of peregrines was on territory here from April through the summer. The female was Murphy Z/V, fledged in 1999 at NSP Riverside, Minneapolis, Minnesota. The male was an unidentified adult.

ILLINOIS

66. **SP**-125 S. Wacker, Chicago, Cook County, Illinois. Female Dory *C/4, here for the third year, paired with fifteen-year-old Jingles, laid five eggs, and fledged five young, four males and a female, according to Mary Hennen, Field Museum. Three of the young males were grounded and released after rehabilitation. One of the young males was seen in August in Fond-du-Lac, Wisconsin.

67. **SP**-5821 Broadway, Irving Park, Chicago, Cook County, Illinois. Mary Hennen reports that female Eleanor 2/8, now eight years old, paired for the eighth year with eleven-year-old male Franklin 95T. They nested on a new ledge from which two young fledged around June 10. The ledge is not accessible and the young were not banded

68. **SP**-Jackson Street Prison, Chicago, Cook County, Illinois. An unidentified adult pair (both with black/red bands) nested in an inaccessible area here for the fourth year. They used a new section of the nest ledge this year, fledging four young. One young male was grounded, banded, and released after rehabilitation. The other three were not banded, according to Mary Hennen.

69. **SP**-Uptown Theatre, Chicago, Cook County, Illinois. **New site.** Mary Hennen reports that an unbanded adult male paired with four-year-old female Minnie *H/4, fledged at Bong Bridge, Duluth, Minnesota, in 1997. They fledged three young, two males and a female.

70. **SP**-Midwest Generation, Waukegon, Chicago, Cook County, Illinois. **New Site.** Mary Hennen reports that a pair of unidentified adults, one with a b/r band and the other b/g, nested in a box on a building, fledging three young. The young were not banded

71. **SP**-University of Illinois, Chicago, Chicago, Cook County, Illinois. Third year for this site. Four-year-old female Rosie *6/D, fledged in Milwaukee in 1997, and an unidentified banded b/r male used a new ledge and produced four eggs that were lost, possibly to high winds. The pair then returned to a ledge used in 1999, produced four more eggs by May 4, and fledged three female young and one male. The young male was killed in the last week of August in a collision with a plane at Chicago's O'Hare Field.

72. **LE**-“River Birds” Various sites near Execu-Stay Marriot/Allerton Hotel, Chicago, Cook County, Illinois. Mary Hennen reports that eleven-year-old female Oog 62V and twelve-year-old male Fast Eddy 88Y nested this year on a new building on LaSalle Street. During the last week of April, the two eggs disappeared and the adults did not re-nest.

73. **LE**-Unitarian Church, Hyde Park, Chicago, Cook County, Illinois. Mary Hennen reports that ten-year-old female Magnolia 22R and eleven-year-old male Orion 77T nested here for the fifth year on a decorative ledge with no nest box or gravel tray. Three eggs were laid but none hatched. There was no re-nesting.

74. **LE**-First United Methodist Church, Evanston, Cook County, Illinois. Third year for this site. An unidentified female and four-year-old male Tracy *P/M, fledged in 1991 at 5821 N. Broadway, Chicago, produced four eggs by May 5 but the nest failed, according to Mary Hennen.

INDIANA

75. **SP**-One Summit Center, Fort Wayne, Allen County, Indiana. Seven-year-old female Freedom U/*8, sixth year nesting at this site, paired again with six-year-old male Roosevelt R/*4, his fifth year here. They produced four eggs by mid-March, hatched all four around April 20, and fledged four young, three females and a male, by June 1, according to John Castrale, Indiana DNR. One young female was found dead near the nest site on June 19. John Winebrenner and John Meyer watch this site.

76. **SP**-Market Tower, Indianapolis, Marion County, Indiana. John Castrale reports that eight-year-old male Kinney 7/*3 paired for the seventh year here with nine-year-old female Scout 28W. Diane Doyle saw the pair in late January and copulations beginning by February 20. The first egg was laid March 14, the fourth on March 23. Three eggs hatched around April 22, according to Richard Kinnett. The three chicks, all females, fledged in early June. One was injured on June 4, rehabilitated and released on July 2; another fledgling was found dead on July 25.

77. **SP**-Cline Avenue at Lake Michigan, East Chicago, Lake County, Indiana. Six-year-old Laurie E/*H, here for the second year (but nested at Wheatfield, Indiana, in 1998 and 1999), paired with nine-year-old male Marty 53Z, his eighth year at this site. The pair was seen copulating on April 4 and was still present on April 28, but the nest tray was empty. On May 12, the site appeared to be inactive, according to John Castrale and Joy Bower. On June 4, the female was seen taking food to a highway expansion joint northwest of the bridge site. Clem Gora and Skip Gehring saw at least two chicks in the expansion joint on June 18; both fledged a week later, but one was killed by a vehicle on June 23.

78 **SP**-Inland Steel, East Chicago, Lake County, Indiana. John Castrale and Todd Mintzer report that the nest was inaccessible in an abandoned building with restricted access. The adults were not identified. At least one chick hatched, possibly two, but only one survived to fledging about June 20. It was not banded.

79. **SP**-U.S. Steel, Gary, Lake County, Indiana. Venerable female Suzy Q 52P, who would have been thirteen years old this year, disappeared over the winter. Eleven-year-old male Vulcan 79T, here for the ninth year, paired with two-year-old female Crystal X/*K, hatched at Labadie, Missouri. Four eggs were laid in late March, two hatched, and two male young fledged in mid-June. One was found injured on June 25 and euthanized, according to John Castrale and Ted Weitzel.

80. **SP**-NIPSCO Bailly Plant/Bethlehem Steel, Porter, Porter County, Indiana. Six-year-old female Barb E/*L (reported in earlier years as E/L), her fourth year here, and eight-year-old male Bailly 4/9, his sixth year here, nested in a nest box at the steel mill this year. They produced four eggs, hatched three by May 7, and fledged two males and a female in mid-June, according to John Castrale, Mel Waldo, and Dave Linn. This pair switches between a smokestack box (1996, 98, 99) and a steel mill (97, 00, 01) a mile apart.

81. **SP**-NIPSCO Schahfer Plant, Wheatfield, Jasper County, Indiana. John Castrale, Tony DiPaolo, and Barry Matzat report that the new unidentified b/r banded female here in 2000 was replaced this year by Latesha b/g Z/K, fledged wild in 1999 at Dairyland Cooperative, Genoa, Wisconsin. Latesha paired with five-year-old male Rollin K/*8, here for the fourth year. They had four eggs, three hatched by May 4, and three young males fledged in mid-June.

82. **SP**-NIPSCO Power Plant, Michigan City, LaPorte County, Indiana. John Castrale and John Derouin report that three-year-old female Cloud Dancer *B/*G, here for the second year, and six-year-old Uncle Billy 3/*B, his sixth year here, produced five eggs, as they did last year. Only one egg hatched and the single young male fledged in mid- June.

83. **SP-Kokomo Gas and Power, Kokomo, Howard County, Indiana. New Site.** Peregrines were seen here intermittently in 2000 but did not nest, according to Wayne Yoder, Ed Braun, and John Castrale. This year, a one-year-old b/g banded female paired with three-year-old male *T/U, fledged wild at the Lazarus Building, Dayton, Ohio, and most likely also here last year. They produced three eggs, one hatched June 19, and the single young female fledged at the end of July.

84. **NB-IPL Stout Plant, Indianapolis, Marion County, Indiana.** On May 14, an unbanded one-year-old female was seen at this smokestack site with an adult male that appeared to have a b/r band. Plant workers said that the pair had been present for a couple of months. The female visited the nest box and made a scrape but no eggs were laid.

85. **NB-Business Building, Indiana State University, Terre Haute, Vigo County, Indiana.** Steve Lima reported one or two peregrines here in winter and a pair on March 7. A nest tray was installed on March 8 and replaced by a box on March 14. At least one bird was banded. No nesting occurred this year.

OHIO

86. **SP-Commodore Perry Motor Inn, Toledo, Lucas County, Ohio.** Dave Scott and Bill Roshak, Ohio Division of Wildlife, report that four-year-old female *7/X and four-year-old male Fury *G/A, both here for the third year, produced four eggs and fledged four young, two males and two females, around June 15.

87. **SP-Terminal Tower, Cleveland, Cuyahoga County, Ohio.** Dave Scott and Steve Wilcox, Ohio Division of Wildlife, report that nine-year-old female Zenith 23W, nesting here for her ninth year, paired with five-year-old male Buckeye *R/K, here for the second year. They produced four eggs and fledged four young, two of each sex, in the first half of July. Female Clearpath *5/A arrived at Terminal Tower early, paired with male A/2, and produced at least one egg. On March 23, Zenith 23W arrived and a well-photographed fight ensued, producing injuries to Clearpath *5/A that resulted in her death on the way to rehab. Those with a long memory will recall that Zenith and Clearpath also had a dramatic battle at Terminal Tower in 1999. The replacement in 2001 of male A/2 by Buckeye *R/K probably happened by mid-April. Dave Scott thinks it is highly likely that Buckeye *R/K fertilized Zenith's eggs.

88. **SP-LTV Steel, Cleveland, Cuyahoga County, Ohio.** A new pair at this site, male *W/C, fledged at Gulf Tower, Pittsburgh, Pennsylvania, in 2000, and his full sister, female S/*W, fledged at Gulf Tower in 1999, had four eggs and two young males fledged, according to Steve Wilcox and Dave Scott. Also, one male (33/H) from the Akron site (pair 94) was fostered into this nest.

89. **SP-Hilliard Road Bridge, Lakewood, Cuyahoga County, Ohio.** Dave Scott and Sara Jean Peters, Ohio Division of Wildlife, report that seven-year-old female Athena 5/V and eight-year-old male Buckeye 3/1 nested on this bridge for the fourth year. The pair produced at least three eggs that hatched around May 4. Three females fledged in mid-June. One additional young from Akron (pair 94, 3/*8) was fostered into this nest. The Ohio Department of Transportation assisted with the banding

90. **SP**-Rhodes State Office Tower, Columbus, Franklin County, Ohio. Dave Scott and Donna Daniel, Ohio Division of Wildlife, report that three-year-old female, Katie *B/*U, here for the third year, paired with the resident male Bandit (unbanded, but identity presumed by plumage and behavior), here for the eighth year. Four eggs were laid, three hatched, and three females fledged around June 11.

91. **SP**-PNC Bank, Cincinnati, Hamilton County, Ohio. Dave Scott and Rick Jasper report that eleven-year-old male Falcor 29X and three-year-old female Princess *B/*S, here for the second year, produced four eggs, hatched three, and fledged three young, two males and a female, around June 20. One additional young (3/*P) from Akron (pair 94) was fostered into this nest.

92. **SP**-Miami Fort Station, Cinergy, Cleves, Hamilton County, Ohio. This power plant, located 20 miles west of Cincinnati, attracted a pair of peregrines for the fifth year. The male is seven-year-old River Ace 7/*A, nesting successfully here for the fourth year, and three-year-old female Mary Ellen *B/*B, here for the second year. Four eggs were laid, all hatched, and two males and two females fledged around June 4, according to Dave Scott and Rick Jasper.

93. **SP**-Fifth Third Center, Dayton, Montgomery County, Ohio. **New Site.** Dave Scott and Rick Jasper, Ohio Division of Wildlife, report that eight-year-old female Baltimore 7/D paired again with eleven-year-old male Mercury 21X for the first year on this building. The pair produced four eggs, three hatched, and two females and a male fledged in mid-June. The male died on his first flight, but qualifies as fledged under our criterion, namely leaving the nest under his own power.

94. **SP**-First Merit Bank, Akron, Summit County, Ohio. Three-year-old female Chesapeake *P/*S, new at this site, and six-year-old male Bandit 3/*P, here for the fifth year, produced four eggs, hatched all four, and fledging of the four young, three females and a male, began in early June. A new male Flash *3/*H, who had been in Canton, Ohio, one to two weeks earlier, showed up and began harassing the fledging young. One fledged successfully but was later found dead nearby, possibly as a result of interactions with Flash *3/*H. The other three were captured at the nest site and fostered into other nests where they fledged successfully (pairs 88, 89, and 91), according to Dave Scott. Chesapeake *P/*S nested unsuccessfully last year at Cleveland Clinic, Cleveland, Ohio. Bandit 3/*P was injured, perhaps in a fight with Flash *3/*H, was rehabilitated at TRC and released in Eastlake, Ohio, on July 18.

95. **SP**-Cuyahoga River I-90 Bridge, Cleveland, Ohio. Second year for this site. An unbanded adult male and three-year-old female Cascade black *K/0, here for the second year, nested on a steel beam, ignoring a nest tray, and failed. They then re-nested on a steel bracket connecting several beams, produced four eggs, and fledged three young, all males, banded with a man-lift donated by a local rental company.

96. **SP**-Ironton/Russell Bridge, Lawrence County, Ohio. **New Site.** Dave Scott and Keith Morrow, Ohio Division of Wildlife, report that an unbanded male and female Lucy black *B/0, fledged in 1998 in Toronto, Ontario, nested in a large hollow beam under the road surface of this Ohio River bridge. They produced four eggs, hatched three by late April, and two males and a female were banded. At least two young fledged

successfully by June 4. The fate of the third young was not determined although it was not seen post-fledging.

97. **LE**-Bank One, Canton, Ohio. Male Flash *3/*H and an unbanded female began laying on May 7, producing at least two eggs, but failed by the end of May for unknown reasons, according to Dave Scott. Flash *3/*H was then seen in Akron by early to mid-June, where he harassed the fledging young (pair 94).

98. **NB**-Bohn Building, Cleveland, Cuyahoga County, Ohio. A single peregrine was seen near the nest tray in March and a pair in late May and early June, but there was no nesting here this year, according to Sara Jean Peters and Dave Scott, Ohio Division of Wildlife.

99. **NB**-Bank One, Lima, Allen County, Ohio. Dave Scott and Bill Roshak report that a new pair, one-year-old male Mattox K/M, fledged at Bohn Building, Cleveland, Ohio, and one-year-old female Pfdotcom 5/*R, fledged at Market Tower, Indianapolis, Indiana, were here but did not nest, most likely because of their youth. On August 16, Pfdotcom 5/*R was identified by Judy Yerkey at New Center, Detroit, Michigan.

KANSAS

[Kansas Power and Light, Topeka, Shawnee County, Kansas. Joanne Brier and E. Potter report that peregrines were seen here several times during the nesting season. Both observers think there may have been a nesting somewhere in the Topeka area, but there is no convincing evidence of pairing status or nesting.]

MISSOURI

100. **SP**-Interco Building, Clayton, St. Louis County, Missouri. Mike Cooke reports that female R/*A paired with an unbanded male, probably the same bird that killed his predecessor and took over the territory in spring 2000. Three male young were fledged.

101. **SP**-McKinley Bridge, St. Louis, St. Louis County, Missouri / East St. Louis, Madison County, Illinois. Mike Cooke reports that the silver banded pair that nested here from 1996 through 1999 and apparently moved 300 yards in 2000 to the Union Electric power plant in Venice, Illinois, nested again on the bridge this year. One young, a female was fledged and banded.

102. **SP**-I-270 Old Chain of Rocks Bridge, St. Louis, St. Louis County, Missouri. An unidentified pair nested here in an inaccessible spot and fledged three young, not banded.

103. **LE**-Chase Park Plaza, St. Louis, St. Louis County, Missouri. Nine-year-old female 2/3, nesting here for the ninth year, paired with nine-year-old male 73R, his fifth year at this site. Four eggs were laid but the nest failed, cause unspecified. However, according to Mike Cooke, the eggs were rescued, three were cracked or infertile and one hatched, producing a male then hacked at Maritz, Fenton, Missouri. This ultimate survivor then proceeded to kill three pigeons within three weeks of release.

[St. Louis University Hospital, St. Louis County, Missouri. This site was not occupied this year, according to Mike Cooke.]

104. **LE**-Commerce Tower, Kansas City, Jackson County, Missouri. Laurie Brown, Missouri Department of Conservation, report that an unidentified adult pair (male probably 39X, but not confirmed) nested here, produced four eggs and hatched two. At the time the young would have fledged, a severe storm hit. The young were not seen after the storm.

KENTUCKY

105. **SP**-Louisville Gas and Electric Company (LG&E), Bedford, Trimble County, Kentucky. Laura Burford reports that four-year-old female Natasha *6/Y paired again with four-year-old male Greyfire *K/V. They produced four eggs but the nest failed. They re-nested, had three eggs, one hatched, and one male young fledged on July 11.

106. **SP**-Kentucky Utilities Ghent Station, Ghent, Carroll County, Kentucky. Female b/r 5/9 (not in our database, origin unknown) paired with an unidentified male and laid four eggs. Three hatched and two females and a male fledged, according to Laura Burford.

107. **LE**-Ohio River Kennedy Bridge (I-65), Jeffersonville, Indiana/Louisville, Jefferson County, Kentucky. Laura Burford reports that a pair on territory here was forced by bridge painting to nest on an adjacent bridge. They commenced incubation but then abandoned the nest. No young were fledged.

MANITOBA

Tracy Maconachie, Manitoba Wildlife Branch, supplied the following information on Manitoba falcons

108. **SP**-Delta Winnipeg Hotel, Winnipeg, Manitoba. Twelve-year old female Madame 52V paired with a new mate, her five-year-old son Trey black 2/8, fledged here in 1996. Four eggs were laid, then abandoned. Re-nesting produced two eggs, one hatched and one young male fledged

109. **NB**-McKenzie Seed Building, Brandon, Manitoba. Ten-year-old female Phoebe black 0/*B paired again with ten-year-old male Mufasa red *7/3, both here for the eighth year, but they did not nest. Two immature falcons were also seen here during the nesting season.

ONTARIO

Ted Armstrong and Steve Sholten, Ontario Ministry of Natural Resources, and Brian Ratcliff, Thunder Bay Field Naturalists, sent the following summary of peregrine nesting in the Ontario Lake Superior basin. Brian Ratcliff organized a team of climbers again this year. They banded 40 young falcons at 16 cliff sites, most reached by hiking and climbing and some by helicopter. Many of the Ontario sites are much more difficult to reach than most sites in the Midwestern U.S. The climbers this year were Frank Pianka and other members of the Alpine Club of Canada.

110. **SP**-Mt. McKay, Thunder Bay, Ontario. The male of this pair is unbanded, the female has only a silver band, right leg, as last year. Three young fledged, two females and a male, all banded.

111. **SP-South Gillies. New Site.** Brian Ratcliff reports that only the adult male, not identified, was seen at banding of the three chicks, two females and a male, on July 2.

112. **SP-Pie Island, Greenstone Point, Ontario.** On a helicopter flight on July 3, Brian Ratcliff saw one adult and two month-old chicks. They were not banded.

113. **SP-Lomond River, Ontario. New Site.** A pair, female on the nest, was seen from helicopter on June 14; on July 3, one chick about 22 days old and an egg were seen from helicopter.

114. **SP-Squaw Bay, Ontario.** Brian Ratcliff identified seven-year-old female Rose b/r U/D, nesting here for the fourth year. She was fledged at Palisade Head, Minnesota in 1994. On October 4, 1999, she was also identified in Thunder Bay, Ontario, and assumed then to be the Squaw Bay female. Rose U/D and her unbanded mate fledged three young, two males and a female, all banded. One of the young males was found electrocuted in mid-September near Owatonna, Minnesota.

115. **SP-Squaretop Mountain, Ontario.** The adults here were not identified this year. They fledged two males and a female, all banded.

116. **SP-Mink Bay, Ontario.** The adults at this site were not identified. Brian Ratcliff reports that two young, a female and a male, were banded here on June 27.

117. **SP-NW Mollie Mountain, Ontario.** On June 29, Brian Ratcliff and his crew banded two chicks here, one each sex. Neither adult was identified.

118. **SP-Copper Cliff Road West, Ontario.** An unidentified pair fledged two female young, banded by Ratcliff on June 27.

119. **SP-Thunder Cape, Sleeping Giant Provincial Park, Ontario.** The adults were not identified here this year. Two 27-day-old chicks were seen from helicopter on June 14 and both fledged in early July, not banded.

120. **SP-Whitefish Lake, Ontario.** An unbanded adult male and a female with a green/black band (?/6, or if upside down 9/?) and no USFWS band fledged two young, a male and a female, banded on June 30.

121. **SP-Nipigon River Mouth, Nipigon, Ontario.** Nest found by Maureen and Jack Dampier in early June. One unbanded adult was seen, probably the male. One female chick 35 days old was banded on July 4; a second male chick was too old to capture for banding.

122. **SP-Kama Bay, Ontario. New Site.** Carol Dersch and Joel Cooper found an adult at this site on April 5. Both adults have b/r bands and purple bands, indicating fledging in the U.S Midwest, but were not further identified. Two female chicks and a male were banded on July 5.

123. **SP-Old Woman Bay, Lake Superior Provincial Park, Ontario.** Carol Dersch and Joel Cooper saw one adult on May 5. An unidentified pair fledged two male young here, both banded on June 23.

124. **SP-Devil's Warehouse Island, Lake Superior Provincial Park, Ontario.** Carol Dersch and Joel Cooper first saw the pair on May 19. Eleven-year-old male red 1/9, first identified here in 1996, and his mate 14-year-old female Poindexter 09, with a

combined quarter-century of experience, fledged four young, three males and a female, all banded on June 22. Peregrines have been breeding at this site since 1993 and are known to have fledged 31 young.

125. **SP**-Red Sucker Cove, Marathon, Ontario. Linda Melnyk-Ferguson and Duncan McKay saw this pair in late May. The adults here were not identified this year. Brian Ratcliff reports that three young were banded on July 6, two females and a male.

126. **SP**-Mt. McRae, about three km from Mt. McKay, Thunder Bay, Ontario. Three-year-old male black *3/R, fledged in 1998 at Squaretop Mountain, Ontario, and an unbanded female fledged two female and one male young, all banded on June 28. On June 12, a different adult male, b/r *G/?, brought food to the nest site

127. **SP**-Pie Island, Le Pate, Ontario. One adult, not identified was seen. Two male young were banded on July 3.

128. **SP**-Caribou Island, Ontario. **New Site**. Brian Ratcliff reports an unbanded adult male paired with female black *Y/4 or *Y/1. Their two young, one each sex, were banded on July 3.

129. **SP**-Pukaskwa Depot, 5 km south of Richardson Harbor, Pukaskwa National Park, Ontario. **New Site**. Carol Dersch and Joel Cooper saw a pair with three chicks about 37 to 40 days old here on July 15.

130. **SP**-Otter Cove, Pukaskwa National Park, Ontario. **New Site**. Keith Wade reports a pair here with two young about 38 days old on July 14.

131. **SP**-Haviland Bay, north of Sault Ste. Marie, Ontario. Jim Saunders and Bob Knutsen report adults seen at this site during the summer and two birds were seen flying here on August 21. At least one was a juvenile.

132. **NB**-Flatland Harbor, Ontario. Second year for this site. A single bird was seen April 22 and a pair during a helicopter flight on June 14.

133. **NB**-Robertson Lake, near Goulais River, Ontario. Jim Saunders and Bob Knutsen report that peregrines were seen here in the spring, but there was no follow up on outcome.

[Pie Island, East Side, Ontario. No information from this site this year.]

[S of Adam's Apple, Sleeping Giant Provincial Park, Ontario. No information from this site this year.]

PEREGRINE RELEASES IN 2001

Minnesota

St. Olaf College, Northfield, Rice County. Three male peregrines from Mark Bolton were hacked here on July 15, according to Gene Bakko, project head, and Adam Lohmeyer, hack site attendant and St. Olaf student. One young falcon disappeared three days after release and the other two visited the site until independence. An unbanded wild-produced young male found August 2 in Inver Grove Heights, Minnesota, was

released here on August 9 after rehabilitation at TRC. We speculate that this male may have fledged at Hastings Cliff (pair 10), ten miles downriver from Inver Grove Heights.

Missouri

Three sites, vicinity of St. Louis, St. Louis County. Nine young from Walter Crawford, World Bird Sanctuary, were hacked in the area, according to Mike Cooke.

Kentucky

Daniel Boone National Forest, Dunkan Branch, Menifee County. Laura Burford reports that eleven young peregrines, four from Mark Bolton and seven from Vic Hardaswick, were hacked at a cliff site. Two were killed, probably by bobcats. Three females and six males reached independence successfully.

In sum for 2001, 290 young were fledged by wild pairs and 23 young were released from captive pairs, for a total of 313.

GENETIC ANALYSIS

We continued collecting blood in 2001 from all released young and from all wild young banded in the U.S., and from whatever wild breeders were handled. The goal is to measure inbreeding, outbreeding, genetic variation, changes in occupancy of territories, dispersal of adults and young, success of the different genetic stocks introduced, and long-term development of genetic structure in the new Midwestern population.

The peregrine blood samples collected over the years uniquely represent the history of the Midwest population. Only a handful of eggs, study skins and skeletons, acquired randomly, have been preserved, in contrast to the nearly full coverage of blood samples available. Sophisticated as current techniques of blood analysis may seem today, they will be considered primitive in a few decades. The blood specimens are in the permanent tissue collections at the Bell Museum of Natural History, University of Minnesota, where they are available for genetic and other analyses in the future.

PLANS FOR THE FUTURE

Annual percentage increases in territorial pairs in the U.S. part of the Midwest from 1987 through 2000 show the rapid early growth and recent slower growth typical of new populations. This year, for the first time, there was almost no increase.

Year	Pairs	Increase	% increase
1987	6		
1988	13	7	117%
1989	16	3	23%
1990	23	7	43%
1991	30	7	30%
1992	37	7	23%
1993	53	16	43%
1994	62	9	17%
1995	67	5	8%
1996	77	10	15%
1997	90	13	17%

1998	99	9	9%
1999	107	8	8%
2000	129	22	21%
2001	133	4	3%

The U.S. Fish and Wildlife Service proposed in July a national monitoring plan for the new population. The plan proposes recording activity at a sample of selected nesting pairs once every three years, for 13 years, apparently all that can be expected for remote areas. We expect that monitoring of the more accessible Midwestern population will probably be reduced over time from current levels as state agencies turn their resources to other needs, but will still greatly exceed the requested federal standards for the foreseeable future, making compliance in our area almost automatic.

We need to continue to try to:

- Identify all breeders.
- Band all wild young produced.
- Collect and analyze blood from all young and from any adults handled.
- Appropriately manage pairs nesting on man-made structures.
- Monitor the newly-established peregrines on the river cliffs and on suitable cliffs elsewhere in the region.
- Collect, coordinate, and circulate information among Midwest peregrine workers through reports, meetings, and regular informal contacts.

ACKNOWLEDGMENTS

The Midwest Peregrine Project is a cooperative effort involving many people and organizations. The University of Minnesota provides the overall coordination of the project through Pat Redig, Mark Martell, and Matt Solensky of the Raptor Center and Bud Tordoff of the Bell Museum of Natural History and the Department of Ecology, Evolution, and Behavior. We are able to maintain our database on peregrines, which is the basis of the various reports you receive, through the enthusiastic cooperation of people interested in peregrines in the 13 U.S. states and two Canadian provinces in our area. We thank all of you who have sent us information. John Castrale prepared the graphs in this report and detected many inconsistencies in the database. We are also grateful to those who read parts of an early draft of this report for help in detecting errors and omissions. Please let us know about mistakes that we missed.

Support for the Minnesota part of the effort is provided by:

- BCED Minnesota
- Big Game Club Special Projects Foundation
- CB Richard Ellis
- City Center Building Management
- Colonnade Building Management
- Farm Credit Leasing
- Iron Range Resources and Rehabilitation Board
- Mayo Clinic
- Minneapolis City Hall staff

- Minnesota DNR Nongame Wildlife Program
- Minnesota DNR Parks and Recreation
- Minnesota Department of Transportation
- Minnesota Falconers Association
- Minnesota Power and Light Company
- Northern States Power Company
- Northwest Airlines
- Norwest Financial Center Building Management
- St. Olaf College
- St. Paul Department of Public Works
- Raptor Resource Project
- U. S. Fish and Wildlife Service
- U. S. Forest Service
- Wolf Ridge Environmental Learning Center

Each cooperating state or province has, in addition, its own list of cooperators.

BREEDERS SUPPLYING PEREGRINES FOR 2001 RELEASES

- Mark Bolton, Hugo, Minnesota (Kentucky and Minnesota releases)
- Walter Crawford and Mike Cooke, World Bird Sanctuary, St. Louis, Missouri (St. Louis releases)
- Victor Hardaswick and Don Hunter, South Dakota Raptor Trust, Centerville, South Dakota (Kentucky releases)