

## Appendix A

### Piping Plover Breeding Season Observations 2007

#### Cape Point

3/23/07	3 PIPL seen in SE portion of Cape Point closure. Two males making parallel runs.
3/26/07	2+2 PIPL seen outside SW portion of Cape Point closure. Calling, foraging, scraping. Parallel runs, wing tilts seen between 10:30 a.m. & noon. Afternoon, high step tattoo and aerial displays same general location.
3/27/07	2 PIPL foraging, 10:30 a.m., South Beach. 1 PIPL seen roosting by Salt Pond mouth 9:00 a.m.
3/30/07	3+2 PIPL. SE Cape Point closure, 11:30 a.m. foraging/ roosting, 12 scraping/ high stepping, 1:00 p.m. foraging.
4/1/07	3+2 PIPL. 0.54 mi S of ramp 44, 8:30-9 a.m. roosting; 10:30 a.m. foraging inside closure; 10:55 a.m. scraping inside closure, high step tattoo and copulation near southern boundary at 11:05 a.m.
4/2/07	6 PIPL accounted for at 10:45 a.m. in the mid-shore of the full beach closure. Foraging in closure at 1:15 p.m. Roosting in closure at 2:00 p.m.
4/3/07	4 PIPL roosting western part of closure at 9:00 a.m., horizontal threat displays seen in morning, single bird and pair seen foraging between 12:30 p.m. and 1:40 p.m. 2 PIPL foraging toward eastern boundary 12:30-4:15 p.m.
4/4/07	5 PIPL at E end. Foraging at surf line at 9:28 a.m. 9:30 a.m. W end high step and copulation. Rest of day spent roosting and preening within closure.
4/5/07	2 individual PIPL seen roosting near Salt Pond road 8:30-9:30 a.m. Different PIPL pair seen closer to point nearly all day, foraging and roosting. High step tattoo and scraping seen at 10:45 a.m., 11:50 a.m., and 2:30 p.m.
4/6/07	10:30 a.m. 2 PIPL roosting (E); 3 PIPL foraging (W). 4-5 PIPL observed roosting and foraging for the rest of the day.
4/07/07	0 PIPL seen today. Strong winds and poor visibility.
4/08/07	6 birds roosting/ foraging. 3 in Salt Pond flats, eastern portion of closure and shoreline, and 3 on western foredune/ tidal pool.
4/09/07	6 birds foraging generally within the closure and near ephemeral pool. One horizontal threat display and one aerial flight display.
4/10/07	12 birds foraging. 3 birds on eastern side of closure, 1 horizontal threat display. 4 birds feeding western side near Salt Pond Road tidal pool. Group of 5 migrants mix with western birds.
4/11/07	5 foraging birds on both sides of closure. Territorial scuffle between two pairs at eastern tidal pool.
4/12/07	7 birds foraging, mostly in Salt Pond mudflats, also 2 at Cape Point hook pond.
4/13/07	5 birds. Foraging/roosting/aerial display. Birds in center of closure and Salt Pond mudflats. Aerial on eastern side of closure.
4/14/07	7 birds. Foraging. Salt Pond and eastern ephemeral pool.
4/15/07	6 birds. Foraging at Salt Pond.
4/17/07	0 birds. Heavy winds, poor visibility.

4/18/07 6 birds. Foraging/territorial. Generally in eastern portions of closure around ephemeral pool. Two birds observed in territorial chases.

4/19/07 11 birds. Foraging at Salt Pond and wet beach flats.

4/20/07 9 birds. Foraging/roosting. Near mid-closure ephemeral pool.

4/21/07 15 birds. Foraging/threat/aerial display. Large number of birds around ephemeral pool at E end of closure. Many horizontal threat displays and one aerial display.

4/22/07 9 birds. Foraging/scraping/high step. Foraging around ephemeral pool and scraping N of there on foredune. High step seen in mudflats.

4/23/07 8 birds. Foraging/territorial/scraping. 8 foraging around Salt Pond drain in closure. Parallel runs and scraping later N of original eastern closure boundary. Aerial flight in NE corner of closure near dunes later.

4/24/07 7 birds. Foraging/territorial. 7 birds feeding in flats throughout closure, occasional territorial charges when pairs were in close proximity.

4/25/07 6 birds. Foraging/high step. Foraging in areas of wet sand on beach flat. High step takes place E of yellow foam on shelly ridge.

4/26/07 4 PIPL seen between 8:30 a.m. and 9:15 a.m. while walking E within closure, scraping, tilting, high step tattoo, and copulation seen. By 9:30 a.m. 6 PIPL were accounted for, aggressive behavior between males during foraging was noted.

4/27/07 8:00 a.m., 1 PIPL foraging within closure. 11:07 a.m. 6 PIPL accounted for, 2 Salt Pond, 2 shell beds, 2, ephemeral pools. 0 PIPL seen in closure after 2:30 p.m.

4/28/07 7:30 a.m., mock brooding, 8:00 a.m. high step tattoo, scraping, and one copulation attempt by pair. 10:30 a.m. single bird seen on Salt Pond foraging.

4/29/07 At least one bird accounted for at all times from 7:30 a.m. to 9:45 a.m. At 8:40 a.m. one paired male and one unpaired male were performing territorial behaviors while foraging. At 12:25 p.m. an aerial display was seen for 2 minutes. 2 PIPL foraging at Salt Pond 2:00-2:30 p.m.

4/30/07 Between 8:00-10:30 a.m. 5 PIPL accounted for. Scraping, foraging, and aerial displays.

5/1/07 Single PIPL was seen roosting 11:00 a.m. - 12:00 p.m. Two birds were seen foraging in the afternoon then flew to Salt Pond at 2:50 p.m.

5/2/02 PIPL pair seen sitting in scrape between 7:00 a.m.-10:00 a.m. another male arrived around 10:00 a.m. and began scraping and territorial behavior was observed. At 12:00 p.m. 6 PIPL were seen foraging in the Salt Pond. One bird seen on the ephemeral flats while other was at Salt Pond after noon.

5/3/07 5 PIPL seen between 8:00 a.m.-11:25 a.m., one pair was switching off brooding in a scrape. **First PIPL nest found** in the backshore shell beds containing one egg.

5/4/07 3 PIPL seen foraging either on the Salt Pond mud flats or the mid-shore ephemeral pools, some territorial behavior witnessed.

5/5/07 Only one PIPL seen between 8:00 a.m.-11 a.m. At 11 a.m. 5 PIPL were seen foraging in the Salt Pond flats. A high step tattoo was seen 11:20 a.m. In the afternoon 6 PIPL were seen at the Salt Pond flats. A second egg was added to the clutch of the only nesting pair.

5/6/07 One PIPL seen at 7:55 a.m. foraging on opposite edge of Salt Pond and was chased off the feeding area by semipalmated plover. Another PIPL seen between 8 a.m.-2 p.m. The bird was roosting and seen in mud flat. No new nests found during a walk through.

5/7/07 Storm. 50-60 mph winds.

5/8/07 2 PIPL seen foraging in S end of by-pass and a lone PIPL foraging in NE corner of closure. Lone PIPL guarding single-egg nest. The 2-eggs/scrape is gone. New scrape made ~2ft away. Lone PIPL foraging on ephemeral pond at end of Salt Pond Ramp later flew E "peeping" and began foraging in the middle flats and ephemeral pools. One PIPL wandering through small pond formed on side of CP access Ramp 44. Territorial foraging of 2 PIPL with Semipalmated, another PIPL appeared and 2 males were

- charging. At end of Salt Pond Road, where signs came down to water, a resighted PIPL male worked on four different scrapes in shelly sand at base of first low dunes ~100 yards N of former closure barrier.
- 5/9/07 3 PIPL seen foraging at NE end of closure on flats along low isolated dunes. One PIPL circled S of Salt Pond Road, then landed at ephemeral pond. Female PIPL walks down to nest and sits up and down, shell tossing. 6 PIPL seen foraging in afternoon in NE corner and in center of creek.
- 5/10/07 1 PIPL peeps and flies W near AMOY nest. Pair 1, Nest 2 is empty, 0 eggs. 1 egg PIPL nest, Pair 2, on shell bed in dunes. One PIPL aerial display and 2 PIPL standing on shell bed.
- 5/11/07 Solitary PIPL foraging at tide line from Ramp 44 to area S of entrance to Bypass Road. 1 PIPL female possibly pairs with male in flats near eastern edge full closure. 5 PIPL seen foraging in wet sand flats in afternoon.
- 5/12/07 5 PIPL foraging and seen elliptical flight over flats and narrow shell bed. 1 PIPL male and female flew in near old Nest 1, were walking slowly and alert. At same time 2 Canada geese were walking through area, may have caused PIPL disturbance. Scrapes were found. Nest fine, 3 eggs.
- 5/13/07 1 PIPL foraging in mouth of Salt Pond drainage and another PIPL foraging in flats in front of Salt Pond Road then returned to exclosure. 2 PIPL, copulation observed, male flew to mouth of Salt Pond upon completion. Female preened for some minutes before flying out of sight. 2 PIPL(male + female) flew to the ephemeral pool by Salt Pond Road.
- 5/14/07 Lone foraging PIPL on W end of pre-nesting shore-line closure. Nest was checked, no bird. Scrape was unattended, single egg present.
- 5/15/07 5 PIPL seen from SE corner near Cape Point; 2 of which were seen courting; male was high stepping, but no copulation. 2 other PIPL seen between Ramps 45 and 49.
- 5/16/07 1 PIPL foraging in middle of big flat and 2 more (pair) in ephemeral pool.
- 5/17/07 2 PIPL foraging on NE mud flat end of Salt Pond. 1 PIPL flew into Nest 4 (Pair 3) and sat down. Male was decorating nest with shells and did tilt display when female approached. 1 PIPL (male) roosting on dunes. Fresh scrapes on shell bed in dunes W and E of Nest 3. Egg in nest looked abandoned. 3 PIPL foraging in Salt Pond. 1 egg in Nest 4, Pair 3. Pair 1 re-nest area. Wing-feigning female PIPL to AMOY that was bumped off nest.
- 5/18/07 1 dark-banded PIPL male (pair 3) foraging on SE end of Salt Pond with nest. 1 PIPL foraging on NE flat of Pond. 1 PIPL seen atop shelly ridge 100 yds E of Salt Pond Road. 1 PIPL seen foraging near Ramp 49.
- 5/19/07 1 PIPL foraging at SE end of full beach closure. 1 PIPL chased another PIPL N towards ephemeral pool. 2 PIPL high-stepping and copulation during the morning. 1 PIPL foraging E along dunes just behind Nest 4, but bird was not member of Pair 3. 2 PIPL foraging along SE ephemeral pool/mudflat area, one is pale female from Pair 3, other is not dark pair male. 3 PIPL sighted foraging at Salt Pond drainage.
- 5/20/07 2 PIPL foraging at ephemeral pond, sex unknown. 1 PIPL foraging on Salt Pond drainage bank. Second PIPL seen 90° NW of first PIPL. Male PIPL entered closer from Salt Pond Road moving E and was then joined by female PIPL who displayed a “broken wing” when AMOY approached. 2 PIPL displayed elusive running E of AMOY nest, and scrapes were observed. 1 more PIPL foraging near mud flats.
- 5/21/07 Between 8:15 a.m. and 10:15 a.m. only one PIPL was accounted for in the western portion of the closure, it was seen making flights between the dunes and the shoreline. In the afternoon 3 PIPL were seen using the small Salt Pond to forage, one pair and one single bird comprised the group.

- 5/22/07 7:40 am 2 PIPL seen foraging in the small Salt Pond. From 8:30 a.m.-12:00 p.m. 1 PIPL was observed doing territorial displays in the middle western portion of the closure, chasing and diving on terns, blackbirds and swallows. Up to two other PIPL were seen during this time walking in the dunes.
- 5/23/07 Between 6:45 a.m.-8:00 a.m. 5 PIPL seen, 2 PIPL foraging at Salt Pond, 1 lone bird in the eastern flats of the closure, and 2 PIPL seen running in shell beds (suspected to be pairs 1& 4). Four eggs in Nest 4 but no birds seen at 8:45 a.m. 2 eggs in Nest 5, nest being watched by grackle. Five birds also present in the afternoon, one bird seen scraping and chasing LETE. Between 3:20 p.m. and 5:30 p.m., Pair 1 was seen doing multiple re-nesting behaviors, scraping, and territorial flights.
- 5/24/07 1 PIPL heard and seen while walking shell beds N of Ramp 43, bird flew S and was lost near the Ramp 43 pond. At 9:30 a.m. there was a nest exchange at Nest 4 during this time one PIPL was seen 100 yards W of observer's position. The afternoon was spent observing "rowdy" male orbiting the Salt Pond Road area westward, constant vocalizations. He would occasionally land at the mouth of Salt Pond Road and do a few slow peep-lo calls then return to the air. Around 2:45 p.m. another male from the E began doing territorial flights with both birds having their orbits overlapping in the Salt Pond Road vicinity.
- 5/25/07 At 3:11 p.m. an aerial display was seen on the W side of Salt Pond Road flying over the dunes and piping; observed ten minutes later doing flights over his territory without vocalization.
- 5/26/07 Survey walked from Salt Pond Road eastward. At 8:23 a.m. one PIPL was seen doing an elliptical flight and the landed in a scrape. 3 eggs found in Nest 5 with both birds present and alert. 4 PIPL were seen flying eastward at 8:46 a.m. Nest found (Nest 6- 2 eggs) probably a re-nest of Pair 1, birds present. Nest 4 predator enclosure was installed. Between 2:45 p.m.-3:50 p.m. 2 PIPL were seen foraging at the Salt Pond. At 5:30 p.m. 2 PIPL were seen bathing in W corner of the small Salt Pond.
- 5/28/07 7:45 a.m.-8:45 a.m. 3 PIPL seen using the mud flats in the small Salt Pond. Between 9:00 a.m.-10:55 a.m. there were 5 PIPL (2 pairs and one single bird) accounted for within the Cape Point closure. They were observed doing a mixture of foraging and chasing each other. Nest 4 and Nest 6 were being incubated in the afternoon around 2:00 p.m., while one bird was seen foraging.
- 5/29/07 Around 8:00 a.m. both the W & E nests were being incubated, twenty minutes later 2 PIPL were seen using the Salt Pond to forage. 9 a.m.-11:00 a.m. South Beach was monitored down to Ramp 49 (especially the foraging closure) however no PIPL were seen. From 12:00 p.m. - 12:15 p.m. 1 PIPL was seen foraging in the surf zone near the W end of the Cape Point closure. During this same time period 3 PIPL were seen in the small Salt Pond. No PIPL seen in afternoon during a drive from Ramp 45 S to the end of the ORV area.
- 5/30/07 At 8:22 a.m. there were five PIPL accounted for, two birds were incubating while three could be seen foraging on the mud flats of the Salt Pond. At 9:10 a.m. a tilt display was observed 100 yards W of Nest 6, the female came out of the dunes saw the display, checked out the two scrapes that had been created then retreated back to the dunes, both birds were no longer visible by 9:30 a.m. No PIPL seen until 10:08 a.m. when the male seen scraping earlier returned to continue work on his scrapes, at 10:25 a.m. the pair was seen copulating. At 11:37 a.m. there were 4 PIPL accounted for in the small Salt Pond, all foraging, 11:56 p.m. 2 flew away.
- 5/31/07 During the LETE census at 8:45 a.m. there were 2 PIPL at Nest 4 and 0 PIPL at Nest 6, no change in eggs. Nest 4 pair was bumped off nest and attempted to walk us away from nest. In the afternoon there were never more than 3 PIPL observed at once, the birds

- were foraging and incubation exchanges in the vicinity of the small Salt Pond. This continued till 3:35 a.m. when another bird arrived. NOTE: two raccoons were seen foraging at the Salt Pond as well.
- 6/1/07 Nesting survey day: 8:50 a.m. 1 PIPL present, incubating and normal at Nest 5, same for Nest 4 at 9:25 a.m.
- 6/2/07 At 11:15 a.m. there 2 PIPL seen foraging in the Salt Pond flats. At 1:30 p.m. there were 2 males and 1 female foraging at the Salt Pond. At 3:05 p.m. Nest 4 was seen being incubated.
- 6/3/07 3 PIPL observed foraging at Salt Pond.
- 6/4/07 Up to 3 PIPL seen foraging at lower Salt Pond during the day. Aerial display seen just W of Nest 4, once in morning and once afternoon.
- 6/5/07 Aerial display W of Salt Pond Road. Pair of PIPL scraping/tilt display E of Salt Pond Road in shelled flats behind primary dune. Nest 4 seen being incubated and 3 PIPL foraging at the Salt Pond.
- 6/7/07 Scrapes/evasive PIPL W of Salt Pond Road in dunes. Single egg Nest 8 found during survey. 2 PIPL at nest #4. 3 PIPL foraging at the Salt Pond proper, 1 to the N of closure boundary on E side.
- 6/8/07 Single PIPL foraging oceanside S of Salt Pond Road. 2 PIPL observed flying from E past viewpoint and into dunes. 1 PIPL foraging on S margin of Salt Pond itself. 2 PIPL foraging in southern Salt Pond extension near bypass, and 1 just N of enclosure boundary. Both Nest 4 and Nest 5 observed incubating.
- 6/9/07 2 PIPL foraging on shoreline near viewpoint SE of Salt Pond Road. 1 PIPL at Nest 4 and 2 PIPL foraging at Salt Pond mouth.
- 6/10/07 Survey: PIPL observed at Nests 4, 5, 8 and 9. Also scrapes/mock brooding and evasive flight W of Salt Pond Road. Up to 3 PIPL forage during day at Salt Pond southern extension.
- 6/13/07 Survey: alert PIPL at Nest 8. 2 PIPL flying towards Salt Pond from dunes E of Ramp 45. Birds on Nest 5 and 9.
- 6/14/07 Nest 4 being incubated by both adults. 1 PIPL foraging on Salt Pond flat in morning.
- 6/15/07 Nest 4 being incubated by both adults. Aerial display calls heard to the W of Nest 4. Up to 2 PIPL seen foraging on Salt Pond flat in the afternoon.
- 6/19/07 Survey day. Scrapes found on Salt Pond Road and near Salt Pond Road in dunes and on beach berm. 1 PIPL seen flying out of dunes in morning. 1 PIPL seen flying over Salt Pond Road in afternoon.
- 6/20/07 3 PIPL seen on southern shore of Salt Pond.
- 6/21/07 Survey. No fresh scrapes since wind and rain overnight. 2 PIPL courting near Salt Pond Road. Brood 5 adults engaged in territorial disputes E of Nest 5 with another pair.
- 6/26/07 Survey day. Scrape between Ramp 45 and Salt Pond Road not freshened. Bird on Nest 11. Nest 9 being shaded. 2 PIPL seen E of Nest 5.
- 7/8/07 Survey day. No birds seen, but ~5 scrapes found ~60 yards W of Nest 4.
- 7/11/07 6 PIPL seen on Salt Pond flat. 4 from Broods 4 and Brood 9 and 2 others. Foraging and aggressive behavior observed. Aerial display calls heard S of mouth of Salt Pond and PIPL seen E of Nest 4 enclosure. Probably Brood 5 male.
- 7/12/07 ~7:00 a.m. 4 PIPL flying together from Salt Pond to ocean, probably migrants. Scraping by a pair of PIPL ~8:00 a.m. on shellbed NW of Nest 5. Survey from Nest 9 to Nest 4. Single PIPL in area and some old scrapes. Tracks W and N of Nest 4. Fresh scrape near Nest 5. Area monitored, but no birds seen. Survey finished at Salt Pond Road.
- 7/18/07 2 PIPL flew up in territory of Nest 5 birds ~7:00 a.m. 4 PIPL flying high and westbound at 7:30 a.m. 5 PIPL foraging on western edge of Salt Pond. 10:00 a.m., 1 PIPL flew from shoreline and landed E of Nest 5. The scrape NW of nest #5 inactive. 10:45 a.m.,

PIPL chased a tern out of dunes E of white barrel, landed, then flew to Salt Pond. Two scrapes found just E of white barrel. Survey from Cape Point E almost to Salt Pond Road.

- 7/19/07 Survey of interior dunes from Salt Pond Road to Ramp 45. Scanned ocean beach and monitored scrape area for 20-30 minutes. No PIPL seen or heard. No tracks found.
- 7/26/07 No PIPL seen or heard where Brood 5 was last observed.
- 8/1/07 1 PIPL foraging in small Salt Pond.

### South Beach

- 5/12/07 1 PIPL seen flying E to ephemeral pool and then foraging.
- 5/15/07 2 PIPL seen E of Ramp 45. Scrapes seen E of LETE area. PIPL seen flying.
- 5/16/07 2 PIPL seen foraging along shoreline on South Beach. Another PIPL seen foraging N of Ramp 49. Closure expansion installed. 1 heard calling.
- 5/17/07 2 PIPL seen foraging and calling between Ramp 49 and closure. No PIPL seen between Salt Pond Road and Ramp 45 but scrapes found.
- 5/18/07 1 PIPL seen foraging .6 of a mile N of Ramp 49.
- 5/19/07 2 PIPL seen foraging N of Ramp 49 along shoreline. 1 PIPL seen foraging in dry ephemeral pond .9 miles W of Ramp 45.
- 5/20/07 2 PIPL seen foraging N of Ramp 49. 1 flew N and a PIPL was observed 2.6 miles from Ramp 45.
- 5/22/07 2 PIPL seen foraging ~1 mile N of Ramp 49.
- 5/23/07 1 PIPL seen foraging in closure N of Ramp 49.
- 5/24/07 2 PIPL seen flying and calling between Ramp 45 and Salt Pond Road. Scrapes also found.
- 5/26/07 No PIPL seen in South Beach closure. 1 PIPL seen foraging N of Ramp 49 in foraging closure.
- 5/27/07 1 PIPL seen foraging along shoreline in closure N of Ramp 49.
- 5/28/07 2 PIPL seen between Ramp 45 and Salt Pond Road along with scrapes.
- 5/29/07 No PIPL seen in closure N of Ramp 49. 1 PIPL seen foraging just E of Ramp 45.
- 5/20/07 2 PIPL seen along shoreline between Ramp 45 and Salt Pond Road. 1 PIPL seen foraging N of Ramp 49 foraging closure. It roosted in the tire tracks and then was flushed by an ORV. Then returned to same area.
- 5/31/07 2 PIPL seen in shell bed E of Salt Pond Road.
- 6/2/07 2 PIPL seen flying over dunes just S of the point. PIPL chasing gull and AMOY from behind dunes. 1 seen during survey near Salt Pond Road, along with scrapes. 2 heard peeping. No PIPL seen at Ramp 49 foraging closure.
- 6/3/07 No PIPL seen near Salt Pond Road.
- 6/4/07 2 PIPL seen from dunes at the end of Salt Pond Road. PIPL seen sitting on a scrape and flying over dunes. No PIPL seen at Ramp 49 foraging closure.
- 6/5/07 No PIPL seen in Ramp 49 foraging closure
- 6/6/07 11:00-12:35 a.m. no PIPL seen during survey starting from ephemeral pond E of Ramp 45. ~2:50 p.m. 2 seen flying over dunes near Ramp 45. 1 PIPL seen foraging N of shoreline closure N of Ramp 49.
- 6/7/07 No PIPL seen in Ramp 49 foraging closure.
- 6/8/07 No PIPL seen in South Beach near Ramp 45.
- 6/9/07 No PIPL seen from Ramp 45.
- 6/10/07 2 seen in flight area W of Salt Pond Road. PIPL seen at Ramp 49 closure.
- 6/11/07 No PIPL seen at Ramp 49 closure.

6/13/07 1 PIPL foraged and then flew out of sight toward Ramp 45. No PIPL seen in Ramp 49 closure.

6/23/07 PIPL scrape between Ramp 45 and Salt Pond Road. No tracks.

6/24/07 No PIPL seen or heard from Ramp 45 to first overwash W of Ramp 45.

6/26/07 PIPL scrape found between Ramp 45 and Salt Pond Road. Not fresh, no tracks.

7/19/07 Survey between Ramp 45 and Salt Pond Road. Near Ramp 45 old scrapes and 1 PIPL seen flying. Some tracks near Salt Pond Road.

7/20/07 PIPL seen flying past nest 11.

### Hatteras Inlet

3/28//07 1 PIPL foraging by Ramp 55 at 9:00 a.m.

4/3/07 No PIPL seen. Overwash and full closure checked on foot.

4/5/07 1 PIPL roosting at inlet from 10:37 a.m. to 11:55 a.m.

4/6/07 1 PIPL in same location as yesterday.

4/7/07 No PIPL seen on soundside or in full beach closure.

4/10/07 1 PIPL seen foraging at tip of inlet between 12:30 p.m. and 2:00 p.m. One possible scrape found.

4/12/07 No PIPL seen at inlet between 7:46 a.m. and 8:32 a.m.

4/13/07 1 PIPL seen foraging near shoreline at 7:54 a.m.

4/13/07 1 PIPL seen foraging 1 m S of Ramp 55 at 10:00 a.m. and then 1.3 m S of Ramp 55 at 12:45 p.m.

4/18/07 2 PIPL seen. 1 PIPL roosting inside inlet closure at 9:00 a.m. 1 PIPL seen roosting in tire tracks between overwash fan and pole road entrance at 9:40 a.m.

4/19/07 1 PIPL seen foraging at overwash fan, soundside, S of Ramp 55.

4/20/07 1 PIPL seen ~10:30 a.m. near tip of inlet closure. 1 PIPL foraging in SW overwash closure. 1 PIPL seen on soundside of large overwash closure.

4/21/07 3 PIPL roosting outside overwash closure ~10:00 a.m. 1 PIPL seen foraging ~11:00 a.m. in closed area at large overwash mudflat. 1 PIPL seen on ocean side of small overwash ~11:50 a.m.

4/22/07 4 PIPL seen foraging at soundside of large overwash ~11:15 a.m. Then 3 between 12:30 p.m. and 2:15 p.m.

4/23/07 2 PIPL seen soundside between overwash fans from 9:40 a.m. and 10:50 a.m. Both foraging and one doing threat displays. No PIPL seen 11:00 a.m.-11:45 a.m. at overwashes. No PIPL seen 12:00 p.m.-1:15 p.m. at inlet. 1:30 p.m.- 1:40 p.m. 1 PIPL foraging soundside of small overwash. 1:45 p.m.-2:45 p.m. 2 PIPL foraging at large overwash. One in breeding plumage doing threat displays occasionally. Other bird unmarked, foraging.

4/24/07 3 PIPL flew into overwash and left ~10:55 a.m. 2 PIPL foraging at overwash 11:00-11:25 a.m.

4/25/07 Drove from Ramp 55 to inlet at 8:30 a.m. and again at 12:35 p.m. No PIPL seen.

4/27/07 1 PIPL seen flying over flat W of full beach closure at 12:30 p.m. Plover tracks on dunes 100 yards NW of AMOY nest.

4/29/07 No PIPL seen on soundside at 8:00 a.m. Drove Ramp 55 to inlet, no PIPL seen. Walked overwashes 12:00-2:30 p.m., no PIPL seen.

5/1/07 No PIPL seen on shoreline from Ramp 55 to inlet ~7:25 a.m. No PIPL seen during survey of soundside closure. No PIPL seen or heard during walk of overwash 11:00 a.m. -1:30 p.m.

5/2/07 Sat on N side of inlet closure. No PIPL seen 12:30 p.m.-2:30 p.m.

5/3/07 No PIPL seen in overwashes 8:48 a.m.-9:45 a.m. Drove shoreline 11:00 a.m. to noon, no PIPL seen. 1200 p.m.-1:00 a.m. sat on N end of inlet closure, no PIPL seen.

5/4/07 Walked shoreline at inlet ~8:15 a.m. No PIPL seen. Possible mink tracks. Inlet closure observed from 9:17 a.m. to 2:28 p.m., no PIPL seen.

5/5/07 No PIPL in shoreline closure ~11:30 a.m. No PIPL seen along shoreline during drive to inlet. No PIPL seen at inlet 12:45 p.m.-1:00 p.m. No PIPL in overwashes 1:30 p.m.

5/9/07 1 PIPL foraging along shoreline in closure at inlet ~12:20 p.m., flew WNW. No PIPL seen at 2:30 p.m.

5/11/07 1 PIPL observed foraging intermittently between 9:02 a.m. and 10:09 a.m. within inlet closure. 1 PIPL heard from flats adjacent to spur road then seen in flat SE of full beach closure ~12:50 p.m.

5/12/07 No PIPL seen from 8:45 a.m. – 10:45 a.m. Walked through overwashes, no PIPLs observed.

5/13/07 Walked overwash, sound and inlet. No PIPL seen or heard.

5/14/07 1 PIPL seen foraging along interdunal creek, soundside 9:40 a.m. then flew to shoreline. Re-sighted at NE boundary of closure.

5/15/07 1 PIPL seen at inlet 1 PIPL seen at overwashes.

5/16/07 1 PIPL seen at overwash and 1 PIPL seen flying and vocalizing over the interdunal creek.

5/17/07 No PIPL seen at inlet or overwashes.

5/18/07 No PIPL seen at inlet or overwashes.

5/19/07 1 PIPL seen deep within closure shellbed, vocalized and flew to the soundside.

5/21/07 1 PIPL seen foraging in overwash pools.

5/22/07 No PIPL seen at inlet or overwashes.

5/23/07 No PIPL seen at inlet or overwashes.

5/24/07 2 PIPL seen one was banded one was unbanded.

5/25/07 One male PIPL seen foraging in overwash.

5/26/07 No PIPL seen at inlet or overwashes.

5/27/07 No PIPL seen at inlet or overwashes.

5/28/07 1 PIPL seen foraging in overwash fans, non- breeding plumage.

5/29/07 Beach not surveyed.

5/30/07 No PIPL seen at inlet or overwashes.

5/31/07 No PIPL seen at inlet or overwashes.

6/2/07 No PIPL seen at inlet or overwashes.

6/4/07 No PIPL seen at inlet or overwashes.

6/5/07 No PIPL seen at inlet or overwashes.

6/6/07 No PIPL seen at inlet or overwashes.

6/8/07 No PIPL seen at inlet or overwashes

6/9/07 No PIPL seen at inlet or overwashes.

6/10/07 No PIPL seen at inlet or overwashes.

### North Ocracoke

4/2/07 19 PIPL seen foraging on furthest sandbar/flat on soundside.

4/4/07 9 seen foraging on soundside.

4/5/07 2 PIPL roosting in mudflats.

4/6/07 2 PIPL foraging.

4/7/07 2 PIPL foraging, roosting and preening.

4/8/07 5 PIPL seen foraging on sandflat island. Territorial behavior observed.

4/9/07 4 PIPL seen foraging inside closure.

4/10/07 No PIPL seen.

4/11/07 No PIPL seen.  
 4/12/07 No PIPL seen.  
 4/13/07 No PIPL seen.  
 4/17/07 2 PIPL seen foraging outside closure. 6 PIPL seen foraging .1 mile N of Ramp 59.  
 4/20/07 5 seen roosting and foraging N of Ramp 59. Horizontal threat display observed.  
 4/21/07 1 PIPL foraging in N end closure. 7 Foraging .4 miles N of Ramp 59.  
 4/23/07 5 PIPL observed along waterline at waypoint. Horizontal threat displays and parallel runs seen.  
 4/24/07 2 PIPL seen foraging on island NW of Ocracoke, 1 observed in mudflats foraging.  
 4/25/07 2 PIPL showing territorial behavior.  
 4/26/07 1 PIPL seen foraging on shoreline.  
 4/28/07 No PIPL seen between inlet and Ramp 68.  
 4/29/07 No PIPL seen from inlet to Ramp 68.  
 4/30/07 No PIPL seen.  
 5/1/07 No PIPL seen.  
 5/2/07 No PIPL seen.  
 5/3/07 No PIPL seen.  
 5/4/07 5 PIPL foraging, roosting, and a little territorial behavior at 9:36 a.m., 0.5 miles S of Ramp 59. 4 PIPL seen foraging N of Ramp 59 ~5:50 p.m.  
 5/5/07 3 PIPL seen. 2 foraging on spit W of point at 7:42 a.m. 1 PIPL yards away from the 2 foraging in mud flat.  
 5/6/07 2 PIPL seen S of Ramp 59. Moved N later. Behaved like a pair.  
 5/7/07 No PIPL seen. Ramp 59 under water due to storm.  
 5/8/07 2 PIPL foraging just over dune walk from the ferry line.  
 5/9/07 2 PIPL foraging .26 miles N of Ramp 59. One continuously chasing semi-palms  
 5/10/07 No survey. None seen while installing signs.  
 5/11/07 3 PIPL seen.  
 5/12/07 Closures put up all day. No PIPL seen.  
 5/13/07 3 PIPL roosting and then flew to shore. ~.2 miles S of Ramp 59.  
 5/13/07 2 PIPL seen inside foraging closure. Very windy.  
 5/14/07 3 foraging in and outside closure. Chasing and parallel runs observed.  
 5/15/07 4 PIPL seen. 3 PIPL foraging straight out from Ramp 59. 1 PIPL N of foraging closure.  
 5/16/07 1 PIPL seen over dunes from ferry parking lot. 2 PIPL seen foraging inside N foraging closure.  
 5/17/07 2 PIPL seen. 1 flew from N side of foraging closure. 1 landed just N of Ramp 59.  
 5/18/07 7:47 1 PIPL seen in foraging closure. 2 PIPL seen at 9:32 behaving territorial N of closure at Ramp 59.  
 5/19/07 3 PIPL seen. 2 foraging in full beach closure. 1 foraging in foraging closure.  
 5/20/07 3 PIPL seen. 2 in foraging closure behaving territorial. 1 foraging in full beach closure S of Ramp 59.  
 5/21/07 1 PIPL foraging in closure N of Ramp 59.  
 5/22/07 No survey. No PIPL seen.  
 5/25/07 1 PIPL foraging on mudflat outside current tip closure.  
 5/26/07 No survey. No PIPL seen.  
 5/27/07 1 male PIPL with broken collar seen between full beach closure and foraging closure. Chased semi-palm.  
 5/28/07 No PIPL seen.  
 5/29/07 No PIPL seen.

5/31/07 1 PIPL seen N of foraging closure. ~.2 miles N of Ramp 59. ~1:05 p.m. the same PIPL foraging/roosting in full beach closure. 1:13 the PIPL chased sanderling. Lots of cat tracks in area.

6/1/07 No PIPL seen in all 3 closures.

6/2/07 No PIPL seen in closures or along beach. Observed from 7:30 a.m.- 11:08 a.m. and 14:00 p.m.– 15:00 p.m.

6/3/07 Unable to access beach. No PIPL seen.

6/4/07 No PIPL seen. Observed full beach closure, foraging closure, and pre-nest closure.

6/5/07 No PIPL seen. observed all three closures and surveyed N end of island to ferry.

6/6/07 No PIPL seen, checked near and inside of all closures.

6/7/07 No PIPL seen, took down N point pre- nesting closure.

6/8/07 1 PIPL seen inside of full beach closure, bird seen between 8:45 a.m.and 9:45 a.m.

6/9/07 No PIPL seen during turtle patrol or during a survey of the full beach closure.

6/10/07 Beach not surveyed, no PIPL seen.

6/11/07 Beach not surveyed, no PIPL seen.

6/12/07 No PIPL seen, monitored FB closure and sound side.

6/13/07 No PIPL observed.

6/15/07 Beach not surveyed. No PIPL seen.

6/16/07 No PIPL seen in the dredging pits on the NW side.

6/17/07 Beach not surveyed.

6/18/07 No PIPL seen , surveyed dredging pits and W side.

6/19/07 No PIPL seen while surveying dredging pits.

6/20/07 No PIPL seen during turtle patrol.

6/21/07 No PIPL seen in dredging pits or north spit.

6/22/07 Beach not surveyed.

6/23/07 Beach not surveyed.

6/24/07 No PIPL seen from Leatherback nest N to inlet.

6/25/07 Beach not surveyed.

6/26/07 Beach not surveyed.

7/4/07 No PIPL seen during morning survey.

7/5/07 No PIPL seen around dredging pits and inlet.

7/7/07 No PIPL seen around dredging pits and inlet.

7/8/07 No PIPL seen from ferry terminal E to leatherback nest.

7/10/07 Beach not surveyed.

7/24/07 No PIPL seen from inlet to leatherback nest.

7/25/07 No PIPL seen on north islands S to leatherback nest.

7/30/07 No PIPL seen from ferry docks to 5 miles S.

7/31/07 2 PIPL, one adult and one juvenile, seen on N end of inlet beach.

### South Ocracoke

4/4/07 9 PIPL seen in soundside mud flats full breeding plumage, no bands.

4/5/07 2 PIPL seen at N end of Ocracoke inlet.

4/6/07 21 PIPL seen in the W mud flats of Ocracoke inlet.

4/7/07 2 PIPL seen sound side outside of closure.

4/9/07 33 PIPL seen foraging in SW mudflats of Ocracoke inlet.

4/10/07 35 PIPL seen foraging and roosting in the S end of closure many not in full breeding plumage, no scrapes found.

4/11/07 5 PIPL seen today.

4/12/07 29+11 PIPL seen along sound side of Ocracoke inlet foraging.

4/13/07 20 PIPL foraging at South Point of Ocracoke.

4/14/07 9 PIPL foraging on mudflats in S end of closure.

4/15/07 No PIPL observed on the south end Ocracoke between 7:15 a.m. and 8:15 a.m.

4/16/07 2 PIPL foraging 0.8 miles S of Ramp 72 in a flooded area of closure, closure inaccessible by vehicle.

4/17/07 19 PIPL in many small groups, chasing and horizontal threat displays were observed today, Ocracoke Inlet flats still flooded.

4/18/07 PIPL pair seen near the foraging closure that was being put in.

4/19/07 19 PIPL seen in south flats, territorial behavior observed.

4/21/07 11 PIPL seen foraging amidst thousands of other shorebirds in the southern mud flats, two threat displays seen.

4/22/07 5 PIPL seen foraging in mudflats.

4/23/07 11 PIPL observed, some doing parallel runs and threat displays.

4/24/07 15 PIPL seen, scraping observed along with territorial behavior.

4/25/07 10 PIPL seen foraging during midday.

4/26/07 6 PIPL seen foraging, a group of two PIPL were disturbed by people while foraging along the shoreline.

4/27/07 1 +2 PIPL seen foraging along a S side tidal lagoon.

4/28/07 2 PIPL seen one of which was doing aerial displays.

4/29/07 4 PIPL seen near South Point foraging closure. At least one behaving like a pair feeding and roosting outside closure. Spent at least the better part of an hour roosting in tire ruts outside a closure. 2 other birds possible pair.

4/30/07 8 PIPL seen today. 1 pair foraging just outside foraging closure. They flew into the dunes and later a scrape was found in that area. 5 PIPL seen foraging on soundside island. 1 seen foraging on sound side dunes near water line.

5/1/07 13 PIPL seen today. 1 pair seen foraging on sound side near isolated dunes. 1 pair seen foraging on ocean side outside closure; disturbed by ORVs. 1 lone male seen foraging on sound side. 8 PIPL seen on sound side island.

5/2/07 3-4 PIPL seen today. Courtship behavior. Scraping, tilt display, and high-step tattoo seen. Female not interested, just looked at scrape. 2 scrapes now found behind dunes where original scrape was seen.

5/3/07 1 PIPL seen foraging along ocean foraging closure, but does not appear to be part of a pair.

5/4/07 8 PIPL seen today. 1 pair seen high-stepping in parallel dunes at tip (where terns nest every year). 5 seen foraging in mudflats at southern tip. 1 PIPL seen moving in main dunes moving in and out of dunelets.

5/5/07 3 PIPL seen today. 2 males seen foraging in foraging closure at South Point. Very territorial and many horizontal threat displays toward semi-palmated plovers in the area. They were not really foraging near each other, so only one horizontal threat display between two PIPL. 1 PIPL seen foraging in mudflats at south tip.

5/6/07 No PIPL seen winds ~30 knots. Nor'easter.

5/7/07 Storm. 20+ mph winds. Nor'easter, tide inside pre-nesting closure on ocean side at N end. Unable to survey today. PIPL scrape area overwashed during this storm.

5/8/07 Tides too high to access beach today.

5/9/07 1 PIPL seen foraging at N end of pre-nesting closure. Horizontal threat display at dunlin.

5/10/07 1 PIPL seen near S end of foraging closure. Horizontal threat display at semi-palmated plovers.

5/11/07 2 PIPLs seen today in foraging closure, very aggressive toward each other. Horizontal threat display and actual aggressive contact. 1 bird does aerial flight display and elliptical flight from dunes to water. 1 PIPL seen in pond/sand flat area at N edge of pre-nesting

closure. Peeping and getting bumped S as we surveyed at 2:05 p.m. At 3:00 p.m., 1 PIPL male seen in a scrape, crept off, then peeped and flew away. Elliptical flight over the area. At 4:15 p.m. another PIPL flew over dunes peeping, chased a sanderling, and made a half-hearted attempt at an aerial flight display.

5/12/07 Did not survey.

5/13/07 3 PIPL seen today. 1 bird foraging in foraging closure. Scrapes seen on 5/11/07 maintained and added to. Heard piping and saw flight display to N of scrape area.

5/14/07 2 PIPL seen today in pre-nesting closure 0.8 miles S of Ramp 72. Flight display and scraping observed.

5/15/07 3 PIPL seen today. 2 birds seen foraging on shoreline in foraging closure. 1 bird showing horizontal threat display to non-PIPL spp. In pond/mudflat area at N edge of pre-nesting closure near main dunes duneline. Weak scrape found outside pre-nest closure just to the N.

5/16/07 2 PIPL seen foraging on ocean side shore, in and outside foraging closure. 1 aerial flight display seen 0.8 mi S of Ramp 72 in blowout.

5/17/07 3 PIPL seen today. 1 seen flying in and out of pond/mudflat area at N edge of pre-nesting closure, calling both times. 2 other birds seen foraging near foraging closure. Some horizontal threat display to sanderlings.

5/18/07 2 PIPL seen today. 1 foraging in foraging closure when second bird flies in from N of scrape area calling and chases off feeding PIPL. Aggressive bird chased and made contact with semi-palmated plover.

5/19/07 No PIPL seen.

5/20/07 2 PIPL seen foraging in closure. 10 scrapes found in dunes now in area where Ramsey first observed.

5/21/07 No PIPL seen.

5/22/07 1 PIPL male flew into scrape area.

5/23/07 5 PIPL seen today. 2 pairs. 1 pair did 2 gliding runs and copulation attempt, with some high-step tattoo, female uninterested in N end of foraging closure. Male from this pair aggressive toward bird from 2<sup>nd</sup> pair. Horizontal threat display, chasing, and parallel runs. 1<sup>st</sup> pair male eventually flies off in direction of scrape area in main dunes. 2 scrapes found in pond/mudflat area at northern edge of pre-nesting closure, where single PIPLs have been seen on several occasions. Arrive at scrapes area and 1 PIPL flies over giving 1 note alarm calls. Aerial flight display four times over scrape area. Aerial territorial display to 2<sup>nd</sup> PIPL that flies in from N. Both seen heading N, 1 chasing the other.

5/24/07 1 PIPL seen in parallel dunes (where terns nest) at South Point. Appeared to do to false broods and then flew off.

5/25/07 3-5 PIPL seen today. 3 PIPL seen foraging in foraging closure. 2 together. 3 birds (possibly 5) seen on sound side. 2 calling and peeping in flight. 2 eventually flew off to parallel dunes together where scrape was found. Male did some mock brooding. Same pair as seen the day before.

5/26/07 No PIPL seen today.

5/27/07 Not surveyed.

5/28/07 Not surveyed.

5/29/07 3 PIPL seen today. 3 egg nest discovered in main dunes. 1 PIPL foraging in shoreline closure. 1 pair observed peeping and alert to humans surveying near nest.

5/30/07 2 PIPL observed today. 1 in foraging closure. 1 piping at south tip inlet dunes.

5/31/07 No PIPL observed.

6/1/07 Exclosed nest 7. 4 PIPL observed on soundside calling and foraging. 1 scrape found.

6/2/07 2 PIPL with nest seen foraging and incubating. Single male not seen.

6/3/07 0 PIPL seen.  
6/4/07 Male from nest seen foraging along sound near long dunes. Male with full collar seen foraging behind back two dunes. Most of foraging closure was under water from previous day. Bachelor scrape gone.  
6/5/07 0 PIPL seen foraging at S end of closure at inlet and at N end of sound closure.  
6/6/07 No survey.  
6/7/07 1 PIPL foraging in foraging closure likely from nesting pair. Single male not seen  
6/8/07 3 PIPL seen in foraging closure. Some alert calls but possibly from truck driving through. Pair seen through afternoon near nest and in shoreline closure.  
6/9/07 3 PIPL seen. Pair on nest and foraging in shoreline closure. Single PIPL seen in foraging closure.  
6/10/07 3 PIPL seen. Pair incubating and acting territorial towards 3<sup>rd</sup> PIPL. Seen foraging in foraging closure.  
6/11/07 2 PIPL seen in foraging closure. No more PIPL seen during survey but lots of tracks, including some parallel.  
6/12/07 2 PIPL foraging in S end of foraging closure.  
6/13/07 Male from enclosure seen foraging in N end and middle of foraging closure. Dog off leash running along N end of foraging closure.  
6/14/07 0 PIPL seen.  
6/15/07 No survey.  
6/16/07 No survey.  
6/17/07 Female from enclosure seen foraging in foraging closure.  
6/18/07 0 PIPL seen.  
6/19/07 0 PIPL seen.  
6/20/07 Male from nesting pair seen foraging in foraging closure.  
6/22/07 male and female seen on nest.  
6/23/07 Male and female seen incubating. 3 PIPL seen foraging in foraging closure. 2 PIPL seen flying to Portsmouth Island.  
6/24/07 male and female seen incubating. Female seen foraging with Portsmouth pair.

### **Bodie Island District**

**(From Ramp 1 to Ramp 30 excluding Pea Island)**

3/30/07 At 1:35 p.m., 2 PIPL foraging and at 2:25 p.m., 6 PIPL roosting.  
4/1/07 19 PIPL foraging.  
4/2/07 1 PIPL foraging.  
4/3/07 2 PIPL foraging.  
4/4/07 8 PIPL foraging.  
4/5/07 5 PIPL foraging at Bait Pond. 1 PIPL resting 1.4 m N of Ramp 30.  
4/6/07 7 PIPL foraging on E side of Bait Pond. 3 more joined making ten in NE corner of closure. Mild territorial behavior. 1 PIPL foraging along beach .5 m N of Ramp 30.  
4/7/07 4 PIPL foraging .2 m N Ramp 1.  
4/8/07 16 PIPL foraging NE end of Bait Pond in am and pm. 1 PIPL foraging 1.8 m N Ramp 30  
4/9/07 17 PIPL seen foraging along E end of Bait Pond throughout day.  
4/10/07 21 PIPL seen foraging along ESE corner of Bait Pond.  
4/11/07 4 PIPL foraging along E side of Bait Pond in am.  
4/12/07 15 PIPL foraging along E side of Bait Pond in am.  
4/13/07 13 PIPL foraging SE corner of Bait Pond in am. None seen in pm.  
4/14/07 13 PIPL foraging SE corner of Bait Pond in am. None seen in pm.

4/15/07 5 PIPL flying N end of Bait Pond. Strong wind and rainy.  
 4/16/07 4 PIPL foraging in NNE corner of Bait Pond.  
 4/17/07 1 PIPL foraging NE corner of Bait Pond in early pm.  
 4/18/07 2 PIPLs observed exhibiting territorial displays (charging). Eight bird foraging N end of Bait Pond.  
 4/19/07 Two birds observed flying near Bait pond. Low gliding run observed. Eight birds foraging at Bait Pond.  
 4/20/07 Aerial displays observed near Bait Pond. 20 birds foraging on E side of Bait Pond.  
 4/21/07 5 PIPL foraging and low gliding runs.  
 4/22/07 17 PIPL foraging SSE corner of Bait Pond in pm.  
 4/23/07 16 PIPL E/SE of Bait Pond. 2 doing low gliding runs - in am. 7 PIPL foraging/roosting, same spot in pm.  
 4/24/07 8 PIPL foraging E/SE side of Bait Pond in am.  
 4/25/07 2 PIPL foraging NE side of Bait Pond in pm.  
 4/26/07 0 PIPL seen. Very foggy.  
 4/27/07 7 PIPL roosting, flew in from N end of bridge.  
 4/28/07 3 PIPL foraging E side of Bait Pond in am.  
 4/29/07 4 PIPL foraging E side of Bait Pond in am, 3 foraging E/SE side in p.m.  
 4/30/07 4 PIPL foraging NE corner of Bait Pond. 1 threat display witnessed.  
 5/1/07 4 PIPL roosting E side of Bait Pond.  
 5/2/07 1 PIPL foraging on E end of Bait Pond. Survey of spit, 0 scrapes found.  
 5/3/07 1 PIPL foraging NE end of closure (outside closure).  
 5/4/07 0 PIPL seen in am.  
 5/5/07 1 PIPL foraging E side of Bait Pond. 1 scrape found.  
 5/6/07 0 PIPL seen. Extreme winds.  
 5/7/07 0 PIPL seen. Lots of flooding.  
 5/8/07 0 PIPL seen. Could not get to closure due to weather.  
 5/9/07 0 PIPL seen from 8:30 a.m. to 1:30 p.m.  
 5/10/07 1 PIPL seen foraging on N and SE side of Bait Pond.  
 5/11/07 0 PIPL seen from 7:30 - 9:30 a.m. from outside of closure.  
 5/12/07 2 PIPL N shore of Bait pond. Two instances of horizontal threat display in am.  
 5/13/07 0 PIPL seen between 8:15 to 9:00 a.m. Windy.  
 5/14/07 3 PIPL foraging. Single not alarm calls heard. 1 PIPL outside of closure.  
 5/15/07 0 PIPL seen ~4:00 p.m.  
 5/16/07 2 PIPL foraging N end of Bait Pond. 2 horizontal threat display and 2 low gliding runs towards semi-palmated plover.  
 5/17/07 0 PIPL seen at noon.  
 5/18/07 0 PIPL seen between 7:30 a.m. and 2:30 p.m., very windy.  
 5/19/07 2 PIPL seen foraging on SE end and N end of Bait Pond in am.  
 5/20/07 1 PIPL foraging in middle of closure then flew to N end of dunes.  
 5/21/07 1 PIPL foraging by Bait Pond in am.  
 5/22/07 1 PIPL foraging in am N side and SW side of dune area. 2 PIPL foraging, calling, performing horizontal threat display and parallel runs, and scraping all over center of closure and ephemeral pool by bridge.  
 5/23/07 2 PIPL flew from SE end of closure. 1 witnessed return to inlet and forage. Made single alarm calls upon return  
 5/24/07 No data.  
 5/25/07 Surveyed inlet. 0 PIPL seen.  
 5/26/07 0 PIPL seen. Memorial day weekend, lots of people.  
 5/27/07 2 PIPL flying and peeping. Both had disappeared by the time area was surveyed.

5/28/07 Scanned flats, 0 PIPL seen.

5/29/07 0 PIPL seen.

5/30/07 1 PIPL foraging in flat behind dunes at 7:15 a.m. and 9:30 a.m.

6/1/07 1 PIPL seen ~11:30 a.m. running fast, jumping, and shaking feathers between small dunes, no other birds in within 50 ft. ~11:35 a.m. 1 different PIPL seen foraging in the same area. ~12:45 p.m. it flew to SE corner of Bait Pond.

6/2/07 4 PIPL seen in central flat between dunes. 1 seen doing elliptical flight displays above suspected female. Survey revealed scrapes. Alarm calls heard from female. Some territorial behavior among PIPL.

6/3/07 0 PIPL seen. Heavy wind and rain.

6/4/07 2 PIPL seen foraging in ephemeral pond and SE corner of Bait Pond. 1 PIPL behaving territorial towards other birds. Vehicle tracks found in closure.

6/5/07 1 PIPL heard calling and then seen flying over dunes out of sight.

6/6/07 3 PIPL seen foraging primarily in ephemeral pond. 2 foraged ~3 hrs peacefully. 3<sup>rd</sup> plover chased when foraging in same area.

6/7/07 3 PIPL seen foraging in ephemeral pond area and occasionally going behind dunes into shell bed. Pair chasing away 3<sup>rd</sup> PIPL which was seen scraping.

6/8/07 2 PIPL foraging in ephemeral pond area. Very territorial towards semi-palmated plovers.

6/9/07 2 PIPL seen but not both part of pair. Alarm calls heard but birds often out of sight behind dunes.

6/10/07 Survey day. 3 PIPL seen. Pair being territorial towards PIPL with a jagged collar. A few scrapes found.

6/11/07 0 PIPL seen during over 4 hrs.

6/12/07 2 PIPL foraging S side of Bait Pond. Heat waves intense.

6/13/07 1 PIPL seen. Tracks found running parallel on E side of scrape area. Fox tracks found.

6/14/07 0 PIPL seen over ~1 hr.; very windy and cold.

6/15/07 1 PIPL foraging N end of Bait Pond.

6/16/07 2 PIPL seen. Foraged in ephemeral pond and Bait Pond in between sitting on the nest and copulation observed.

## 2007 PIPL Nest & Brood Summary

### Nest 1 Pair 1 Cape Point

- 5/3/07 A nest was found with 1 egg. The male was observed giving alarm calls.  
5/5/07 Two eggs were seen in the nest has 2 eggs. An adult flew by giving alarm calls, but it did not stay to defend nest.  
5/8/07 The eggs were lost during a storm which included 50-60 mph wind gusts.

### Nest 2 Pair 1 Cape Point

- 5/8/07 Pair 1 re-nested mid-clutch either during or after storm.  
5/9/07 The female is not consistently incubating; she is on and off the nest often. The vantage point was changed, and the female continued to incubate inconsistently.  
5/10/07 Nest predated. Predator unknown.

### Nest 3 Pair 2 Cape Point

- 5/10/07 One egg was found. No birds were observed protecting the nest. One bird flew near the nest, but it left immediately to forage. Based on predator sign, exclosure was installed, and the bird began incubating after installation and nest exchange was observed.  
5/12/07 One egg was seen. Adults incubated the nest and exchanged periodically to forage.  
5/14/07 One egg was seen. No birds were observed on the nest between 9:20 a.m. and 1:00 p.m.  
5/17/07 One egg was seen. The nest appears abandoned.  
5/20/07 The exclosure was removed.

### Nest 4 Pair 3 Cape Point

- 5/17/07 A nest with one egg was found. No adults were seen in morning. Adults were observed scraping and decorating the nest in the afternoon.  
5/19/07 No birds were seen. The nest was not checked.  
5/20/07 Nest could not be seen.  
5/23/07 The nest was found and an exclosure was installed. Adults incubated shortly after installation. Four eggs were seen in the nest. A number of nest exchanges were observed by the adults. A third PIPL was seen around nest while both birds were in the exclosure.  
5/24/07 One nest exchange was seen.  
5/26/07 Four eggs were observed in the nest during scheduled nest/exclosure check. Birds watched while the exclosure was fixed.  
5/27/07 One nest exchange was seen.  
5/28/07 Female incubating.  
5/30/07 One nest exchange was observed.  
5/31/07 Both the female and the male were seen incubating.  
6/1/07 Four eggs were seen in the nest. The adult flushed while observer passed the nest.  
6/2/07 The male was seen incubating.  
6/4/07 Four eggs were seen. Both adults incubated.  
6/5/07 Both adults incubated.

6/7/07 The adult(s) bumped during survey.

6/8/07 Both the male and female observed incubating.

6/9/07 One adult was seen next to the exclosure.

6/10/07 Four eggs were seen in nest during scheduled nest/exclosure check.

6/12/07 The male was observed moving on and off the nest.

6/13/07 Female observed incubating.

6/14/07 Female and male seen incubating.

6/15/07 Six nest exchanges were made.

6/16/07 Three eggs hatched around 7:00 a.m. One egg hatched around 4:45 p.m. Three chicks were seen foraging, and one was seen being brooded.

6/17/07 Four chicks were seen. The brood moved E and spent some time in small Salt Pond. Chicks foraged and were brooded. Adults aggressively chased gulls.

6/18/07 Chicks first spotted W of the Salt Pond mouth in the morning. Chicks foraged and were brooded. Adults very aggressively defended territory.

6/19/07 Two chicks were seen moving E toward the ephemeral pond area, just SE of the Salt Pond mouth. In the afternoon, they moved NE of the central dunes (SE of the Salt Pond mouth). The adults were still very aggressively territorial.

6/20/07 Two chicks were seen foraging near the dune line, around the Salt Pond mouth. The adults aggressively chased other birds.

6/21/07 Two chicks were seen in the flats NE and NW of the exclosure. Due to weather and distance, observation is difficult. Some interaction with a PIPL pair was observed W of Brood 4. Adults were still aggressive around foraging chicks.

6/22/07 Two chicks observed engaging in parallel runs and other territorial behavior between Nest 4 and Nest 5. Brood 4 remained in flats N of exclosure. Brood was out of view in the afternoon.

6/23/07 Two chicks were seen N of the exclosure in the sand flats. They moved in and out of the vegetation but stayed primarily near the Salt Pond mouth. The brood was not seen in the afternoon.

6/24/07 Two chicks were observed. An adult from Brood 4 and one further W of the exclosure were seen interacting. Chicks were very territorial in the flat between the dunes just S of Salt Pond mouth. Chicks foraged and were brooded.

6/25/07 Three chicks were seen at times. They foraged E of the exclosure, in the flats. The third chick is likely from the brood W of Brood 4. It seems as if Brood 4 has adopted it. The Brood 4 male protects the chick, but the female chases it away.

6/26/07 Two chicks were observed moving in and out of the blowout in the central dunes. They were sometimes seen SW of the telephone pole, going behind the dunes toward Nest 9.

6/27/07 Only 1 chick was seen all day. It was found foraging and brooding near the isolated central dunes and moved in and out of sight often.

6/28/07 Adults made parallel runs along ridgeline W of Nest 4 exclosure. They then moved towards the isolated dunes in the afternoon. One chick was observed.

6/29/07 One chick observed. Adults flew in and out of the Salt Pond in the morning. There was no sighting of the chick between 12:18 p.m. and 2:55 p.m., but the chick was seen in the vegetation W of the nest along the ridgeline later in the afternoon. The chick entered the Salt Pond mouth a couple of times throughout the day.

6/30/07 Chick was not seen until 1:05 p.m. Then it was observed running in and out of the vegetation at the edge of the dune line just W of the nest. The weather was very poor, and the vantage point was far from the chick.

7/1/07 Chick seen foraging close to the exclosure for most of the day. An adult from a different nest foraged near the chick and female around 5:45 p.m.

- 7/2/07 Chick seen foraging in vegetation W of the Salt Pond mouth and near the isolated dunes. Territorial disputes with were observed with other adult PIPLs. The chick was not seen much later in the day.
- 7/3/07 Chick seen foraging W of the enclosure again. Territorial disputes observed among up to 5 PIPLs. Observations ended at 6:30 p.m.
- 7/5/07 One chick observed. Additionally, multiple territorial disputes were again observed among 5 PIPL at a time. The adults were seen flying in and out of the Salt Pond.
- 7/6/07 Chick seen foraging primarily around the Salt Pond in the morning. In the afternoon, the chick was spotted in the Salt Pond near Brood 9. Territorial disputes occasionally observed between the two broods.
- 7/7/07 A chick was seen outside of the Salt Pond in the morning. The chick spent most of the day foraging near the water on the W side of the Salt Pond. Brood 9 was very nearby, just N of Brood 4. Many territorial disputes were observed between adults in both broods.
- 7/8/07 Broods were seen fighting on and off. Brood 4 observed foraging on the along water's edge on the W side of the Salt Pond. A raccoon was fishing in the Salt Pond, and the PIPLs kept a good distance. Adults were observed being aggressive towards the gulls.
- 7/9/07 Broods were seen foraging peacefully together at times, but were still occasionally territorial. The Salt Pond is shrinking and becoming more crowded with birds. Around 7:35 p.m., Brood 4 left the Salt Pond and exited W out of the mouth of the pond.
- 7/10/07 Brood used central and W part of the small Salt Pond. There were quite a few Canada geese around, but they didn't seem to bother the brood. A chick was seen trying to fly very low to the ground. The chick moved around a lot, even as far as the SE corner of the small Salt Pond. A raccoon was seen fishing in the pond again.
- 7/11/07 One short flight was observed today. The chick was very mobile. Some territorial disputes with Brood 9 were observed, and there were a lot of Canada geese in the area.
- 7/12/07 Chick still foraged in central, SE and W side of the small Salt Pond. No successful flights were observed. Adults were still a little aggressive: they chased away a cormorant and fought with Brood 9.
- 7/13/07 Another short flight was witnessed. There was very poor weather for most of the day. The chick foraged in the same areas as previously. The adults were seen feigning broken wings to lead the gulls away.
- 7/14/07 The chick was seen flying over 100 feet in the morning. The now fledged chick was out of the Salt Pond for some of the day but returned around 11:45 a.m. Quite a bit of flight was observed in the afternoon. The fledgling was also seen foraging in the Salt Pond.
- 7/15/07 The fledgling was seen foraging in Salt Pond, often alone. A raccoon was also seen foraging in the small Salt Pond.
- 7/16/07 The fledgling was seen occasionally in the Salt Pond, foraging in the flats. It appeared that the fledgling was flying out of the small Salt Pond to the beach and back, often unaccompanied.
- 7/18/07 A Brood 4 fledgling was spotted a few times while observing Brood 9 in the small Salt Pond.
- 7/19/07 The fledgling was seen foraging in the small Salt Pond. The fledgling has not yet grown adult feathers but is flying well.
- 7/20/07 The female was seen foraging with fledgling in the small Salt Pond. The fledgling was observed only 4 times the entire day as observations were focused on other broods.
- 7/21/07 The fledgling was still seen with the adults and was sighted in the large Salt Ponds a few times.

**Nest 5, Pair 4  
Cape Point**

- 5/23/07 A nest was found in the berm close to the ocean. The nest had two eggs, 1 outside of the scrape. Adults were seen wing-feigning and heard peeping.
- 5/26/07 Three eggs were found in the nest. Adults incubated consistently.
- 5/27/07 Four eggs were found in the nest. The enclosure was installed today, and the adults were territorial during the installation.
- 5/31/07 Adult PIPLs were seen incubating.
- 6/1/07 The adult PIPLs bumped off the nest while American Oystercatchers were banded.
- 6/2/07 Adult PIPLs were incubating, but they bumped off the nest during the survey.
- 6/4/07 Four eggs seen in scrape. PIPL bumped during survey but then resumed incubating.
- 6/7/07 The adults PIPLs bumped off the nest during the survey.
- 6/8/07 The Adults were seen incubating.
- 6/10/07 Four eggs were seen in the nest. The enclosure was checked, and no predator tracks were seen.
- 6/12/07 The adults were seen incubating.
- 6/13/07 PIPL incubating nest, but bumped off during the survey.
- 6/16/07 Four eggs found. Birds bumped off nest when enclosure was checked.
- 6/17/07 Birds found incubating. Four next exchanges observed between male and female PIPL.
- 6/18/07 The adults were seen incubating. One adult was seen chasing ghost crabs.
- 6/19/07 Three eggs found. One egg was lost to a ghost crab. Ghost crab holes were seen inside the enclosure and were filled. Adults incubated.
- 6/20/07 More ghost crab borrows were filled. Adults were incubated.
- 6/21/07 Two eggs hatched. Chicks moved E with one adult to the dried ephemeral pool while the other adult continued incubating. Many intense disputes between brood 4 and 5 were observed, including parallel running, scraping, chasing, and pecking.
- 6/22/07 One chick was seen. Multiple territorial disputes with other broods were observed. Chick spent time E of enclosure in the ephemeral pool area again.
- 6/23/07 One chick was seen foraging E of enclosure, then moving back toward the white barrel and along the ridgeline NW of the enclosure. Some territorial disputes with other pairs were observed.
- 6/24/07 Brood was seen moving E, close to the isolated dunes. A chick from Brood 5 and chicks from Brood 4 foraged together. The adult male from Brood 4 was observing brooding chick from Brood 5, and the female was later observed pecking at the chick.
- 6/26/07 Chick was not seen with Brood 4 or with parents. Two PIPL were seen flying towards nest 9 territory, and these may possibly have been Brood 5 adults. One egg remained in the nest, but it was not incubated.

**Nest 6 Pair 1  
Cape Point**

- 5/26/07 2-egg nest found during survey.
- 5/27/07 Bird on nest during observations.
- 5/28/07 Nest observed 1:30 p.m. – 3:00 p.m. No birds observed at or near nest.
- 5/29/07 Nest checked during survey. 2 eggs. No PIPL observed in area. Nest observed 9:50 a.m. – 11:45 a.m. Male PIPL in area showing territorial behavior toward LETEs.
- 5/30/07 No birds observed in area of nest.
- 5/31/07 No birds observed near nest during LETE census. Still two eggs in nest.
- 6/1/07 No birds, tracks or evidence of birds visiting nest.

6/4/07 Eggs were found partially covered in sand during scheduled survey. Nest determined to be abandoned.

**Nest 7, Pair 5  
South Point, Ocracoke**

5/29/07 Three eggs discovered. Adults were seen foraging along the shoreline.

6/1/07 Four eggs found. Incubating adults bumped off a few times due to avian predators.

6/2/07 Female seen incubating.

6/4/07 Male seen incubating.

6/5/07 Female seen incubating.

6/8/07 Four eggs were still in the nest. The enclosure was checked. Both adults were seen nearby: The male was seen on the nest, and the female was false brooding.

6/9/07 Male observed on the nest, and the female was again false brooding.

6/10/07 Male seen incubating.

6/12/07 Male seen incubating and female observed foraging.

6/18/07 Four eggs were still in the nest. The female was seen incubating.

6/19/07 Adults observed incubating. Disturbance from pedestrians in the morning pulled bird that was on guard away from nest repeatedly.

6/21/07 Female seen incubating. The vantage point moved due to possible disturbance of the incubating PIPL. They seemed fine after moving.

6/22/07 Four eggs found. Male was seen incubating in the afternoon.

6/23/07 Female seen incubating in the morning and the male was seen incubating in the afternoon.

6/24/07 Female seen incubating in the morning and the male was seen incubating in the afternoon.

6/25/07 Three chicks hatched. Two were lively and 1 was being brooded. A barricade was set up for nighttime closure.

6/26/07 Four chicks observed. A full beach closure was implemented. The “runt” was seen still being brooded often. The brood was seen moving along dunes in and out of vegetation. Brood then moved to the sound side at the end of the day.

6/27/07 Two chicks were seen. Brood was spotted near other PIPLs along the water’s edge on the sound side. Throughout the day, the adults were territorial towards other PIPLs, ghost crabs, and avian predators. One chick was caught by a ghost crab, but was saved by the adults and seemed to be fine after that. One chick was often being brooded while the other foraged.

6/28/07 Two chicks were seen. Chicks were still being brooded quite often. Adults were very territorial. Six other PIPL were seen. One violation was observed when a truck let a dog out while in the corridor.

6/29/07 Weather conditions were terrible. Only 1 chick was seen briefly. Adults observed chasing away other birds, including willets, knots, grackle, and turnstones.

6/30/07 No chicks observed all day. Very little territorial behavior was observed from adults and very few other PIPL were seen. There were a lot of ghost crabs in the area where the brood had been. Mink tracks had also been observed on multiple occasions.

7/2/07 Brood 7 male was seen foraging along the sound side. Chicks were not seen again and were determined to be lost.

**Nest 8, Pair 2**  
**Cape Point**

- 6/7/07 A nest was discovered with 1 egg in the shell-filled interdunal area at the end of the closure.
- 6/10/07 Two eggs were seen in the nest. An adult was observed by the nest. It peeped when approached.
- 6/12/07 An adult PIPL was observed near the nest flying to and from the Salt Pond.
- 6/13/07 The nest was lost. Mammal tracks were discovered near the nest, and the scrape was found disturbed. A nice scrape was found E of the lost nest.

**Nest 9, Pair 1**  
**Cape Point**

- 6/10/07 A nest with 3 eggs was found located under sprigs of vegetation near the dunes. Incubation by adults was observed.
- 6/11/07 Adult seen incubating on and off three times.
- 6/12/07 Adult seen incubating. It bumped off due to disturbance by osprey. Two nest exchanges were observed.
- 6/13/07 Adult observed incubating, but it bumped off briefly during the survey.
- 6/16/07 Three eggs were found. The enclosure was checked, and raccoon tracks were seen.
- 6/19/07 Bird may have been bumped by survey, but quickly returned to the nest.
- 6/21/07 A territorial dispute with Brood 4 was observed. Nest 9 brood chased Brood 4 chicks.
- 6/22/07 Parallel running was observed with Brood 4 and 5. An adult was seen shading the nest.
- 6/23/07 One nest exchange was seen. A territorial dispute with Brood 5 was observed. The adults bumped off the nest during the survey. Raccoon tracks were found, but no circling or digging patterns were apparent.
- 6/24/07 Adults were observed incubating.
- 6/26/07 Adults were seen shading the nest. Peep-los were heard, but the cause and the source were unknown.
- 6/28/07 Adults were seen incubating the nest and foraging in the Salt Pond.
- 6/29/07 Adults were observed incubating between brief periods of flight caused by various predator disturbances.
- 6/30/07 Three eggs were still in the nest. Adult bumped off the nest when the trap line was checked.
- 7/2/07 One nest exchange was observed.
- 7/3/07 Adult observed restlessly moving on and off the nest in the morning. Two nest exchanges were observed in the afternoon.
- 7/4/07 Female seen incubating in the morning and the male was seen incubating in the afternoon. Female seen incubating in the morning and the male was seen incubating in the afternoon. Female seen incubating in the morning and the male was seen incubating in the afternoon. Female seen incubating in the morning and the male was seen incubating in the afternoon.
- 7/5/07 Two chicks were observed. One was wobbly and being brooded most of the time. The other foraged a little. Adults were still seen flying to the large Salt Pond to forage. One chick was seen moving to the flat just S of the enclosure in order to forage. Adults occasionally seemed alarmed by monitoring. The vantage point was quite far away, so it was very difficult to see the chicks.
- 7/6/07 The adults and one chick were seen moving E along the dune line in the morning. The birds were difficult to see clearly due to the angle of the vantage point. Adults were

- observed fighting with other broods during the move. Later in the afternoon, the group was seen in the in the NW corner of the Salt Pond. It is likely that they came in on foot through the mouth of the small Salt Pond.
- 7/7/07 Chick and adults seen foraging primarily in the NW corner of the small Salt Pond. Adults were actively territorial and were observed in disputes with other PIPL, and were also seen wing feigning and false brooding toward predators. The chick was primarily observed foraging, but it was also brooded occasionally.
- 7/8/07 The chick was seen in the lower Salt Pond often, primarily in the NW corner, and was always accompanied by an adult. Parents sparred with adult of Brood 4 for feeding territories. Adults foraged throughout the day and also engaged in wing feigning for predators.
- 7/9/07 Adults and chick were again seen foraging at the N end of the lower Salt Pond. Adults were territorial towards other birds nearby.
- 7/10/07 Both parents were seen often with the chick in the NW corner of the lower Salt Pond. During periods of rain, some brooding was observed, but the chick and adults foraged the rest of the time.
- 7/11/07 Birds began the day in the NE corner of the lower Salt Pond, but later moved to the same NW corner they'd occupied previous days. Adults interacted with geese in the area and were alert to gulls flying overhead.
- 7/14/07 Birds foraged throughout the day in the NW and sometimes western portions of the lower Salt Pond.
- 7/15/07 Birds continued foraging in the NW corner of the lower Salt Pond sand flats. Interaction was observed with geese and great blue heron, and adults remained alert throughout the day. A raccoon was observed in the pond in the afternoon.
- 7/16/07 Chick foraged in the NW corner of the Salt Pond flats, generally with the adult male. The female adult was largely absent. Generally, the chick was more independent.
- 7/17/07 The chick and the male foraged throughout the day on the western side of the lower Salt Pond. The male was territorial towards the Brood 4 fledgling.
- 7/18/07 The chick and one adult were seen foraging in the usual NW location. Some interaction was observed with Brood 4 along the territory boundary.
- 7/19/07 The chick and adult male foraged along the northern edge of the lower Salt Pond.
- 7/20/07 The brood continued foraging primarily in the NW corner. Chick preened and exercised wings periodically. The adult still alerted on overhead flight of gulls.
- 7/21/07 The chick and adult male foraged, first E and then back to the NW portion of the lower Salt Pond. Birds covered large areas while foraging.
- 7/22/07 Birds foraged widely over the lower Salt Pond flats throughout the day. Adult male was seen chasing other PIPLs when they came near the pair.
- 7/23/07 The chick and adult male foraged throughout the small Salt Pond. The chick stretched its wings and was generally given more space by the adult.
- 7/24/07 The chick foraged throughout the sand flats, sometimes without the adult. The chick consistently preened and flapped wings and made multiple flight attempts.
- 7/25/07 The adult male and the chick foraged throughout the sand flats. The chick made several flight attempts and preened occasionally. The chick preened occasionally and made several 5-10 feet high flights.
- 7/27/07 The chick foraged and preened throughout the Salt Pond flats, sometimes without the adult's accompaniment. The chick stretched wings and made a very short flight.
- 7/28/07 The chick and adult male foraged throughout the area. The chick preened extensively and exercised its wings.
- 7/29/07 The chick and adult foraged throughout the area, including the outlet to the beach. The chick preened and made several flights out of the mouth to the beach and back.

7/31/07 The chick foraged alongside several of the adults. Flight by the chick was observed and it is now considered fledged.

**Nest 10 Pair 6  
Bodie Island**

7/15/07 Three chicks hatched. They foraged within and close to the nest enclosure. Alternate periods of feeding and brooding were observed.

7/16/07 Three chicks were found, and 2 in particular were improving their mobility. Chicks foraged close to the adults and also spent some time brooding.

7/17/07 One chick was observed W of the enclosure. There were thunderstorms from 1500 on.

7/18/07 One chick was observed foraging with the adults 100 meters S of the nest. There were heavy rains throughout the morning, but the ephemeral pool area still did not accumulate standing water. Chick foraged alone for part of the day.

7/19/07 Both adults and a single chick foraged near the ephemeral pool in the morning. Adults made many calls. In the afternoon, the birds were seen near the Bait Pond and along the washout that runs through the large dune line.

7/20/07 A single chick was observed foraging with the parents in the area on the S end of the Bait Pond. Following an afternoon storm, the birds relocated to a small rain-filled pond in the dune break. The chicks were still being brooded.

7/21/07 The adults and a single chick were still foraging at the small pond in the dune break. Adults were territorial and occasionally brooded the chick. Later in the day the birds moved S of the ephemeral pool.

7/22/07 The chick and 1 or 2 adults were seen feeding the dark sand flats generally S and W of the nest enclosure in the area between the ephemeral pool and solid vegetation.

7/23/07 The chick and adults foraged near the Bait Pond in the morning. In the afternoon they moved along the area of dune break connecting to the enclosure and ephemeral pool.

7/24/07 The chick and generally one adult foraged in the area S of the enclosure among the small dunes W of the ephemeral pool. The adults were territorial. Occasionally one adult flew to and from the Bait Pond.

7/25/07 The birds foraged at the S end of the ephemeral pool, and then moved along the vegetation on the western edge of the flats and up to the area adjacent to the nest enclosure.

7/26/07 During the early morning, the birds foraged on the SE side of the Bait Pond. The parents were seen chasing semi-palmated plovers. The birds then moved to the area N of the big dunes to forage. In the afternoon, the birds followed the washout to the flats among the small dunes, just W of the ephemeral pool.

7/27/07 One adult and the chick foraged in the area S of the nest. They primarily foraged among grass clumps fringing the western side of the ephemeral pool.

7/28/07 Chick foraged in the usual area on the western margins of the now dry ephemeral pool. An adult flew to and from the Bait Pond in the morning. In the afternoon, the chick and adults foraged in the flats NW of vantage point.

7/29/07 Adult and chick foraged in the usual area of dark sand near the ephemeral pool. The chick used vegetation to stay cool at midday. In the afternoon, the birds moved W along the vegetation line towards the bridge.

7/31/07 The chick and one adult foraged between the ephemeral pool and vegetation. The adult left the chick periodically to fly towards the Bait Pond.

8/1/07 Adult and chick foraged in dark sand area adjacent to dry pool, among the grass. Chick observed flapping its wings.

- 8/2/07 In the morning, the adult and chick foraged S of the nest. Other adult PIPLs were observed in the area. By afternoon, the birds were using areas on the SE corner of the Bait Pond.
- 8/3/07 One chick and an adult foraged in the dark sand among the tall grass. They later moved into the washout area W of the nest.
- 8/5/07 In the morning, the chick foraged primarily alone in the dark sand. Later, the adult joined the chick and they both moved to the washout W of the nest. The chick flapped its wings and preened. The birds were last seen E of the nest.
- 8/8/07 In the morning, the chick foraged in the usual areas of dark sand. In the afternoon it was joined by the adult and both moved S out of the preexisting closure to foraged along the tidal pool adjacent to the inlet. Later in the afternoon, the birds moved N to the dark sand area where they have often foraged previously. A very short flight was observed by the chick. The chick also wing flapped.
- 8/9/07 The adult, chick, and several other migrant PIPLs were observed NW of the vantage point. The birds foraged all afternoon, with the chick making several short flights in the evening.
- 8/10/07 The adult and fledgling foraged among the grassy dunes W of the ephemeral pool area. The fledgling stretched its wings but did not attempt flight. Many other PIPL were observed in the area. Most were likely migrants and fledglings.
- 8/13/07 An adult and its healthy fledgling foraged in the dark sand S of the nest. The ephemeral pool accumulated water, and other bird species utilized the area.

**Nest 11 Pair 2**  
**Cape Point**

- 7/21/07 One chick hatched and was mobile around the nest. The adults continued to brood and incubate the nest and several nest exchanges were observed. One adult was also observed protecting a chick from a ghost crab.
- 7/22/07 One chick was seen in the morning. Adults continued to incubate and perform nest exchanges. By the afternoon, 2 chicks were confirmed. Chicks made short foraging trips into the adjacent dunes. Adult continued to incubate.
- 7/23/07 Adults and 2 chicks were observed moving laterally along the dune-front E of nest and back several times. In the afternoon birds moved among the dunes to the NE of the nest with numerous vocalizations. After a period in which the birds were out of the view, the birds were again sighted heading N towards the Salt Pond in the heavy vegetation. Only one chick emerged with the adults near the Salt Pond.
- 7/24/07 A single chick and adults were observed in the western mudflats of the Salt Pond. Adults chased birds from an area and occasionally brooded the chick. Raccoons passed nearby in the water. Numerous other birds were in the area, but the PIPLs were still able to forage away from water on the flats along the western margin.
- 7/25/07 Chick watched primarily by the male. He spent a good deal of time chasing other birds away. Nutria and raccoons were sighted passing nearby, and the adult male was alarmed. Birds continued to forage along the western flats at the Salt Pond.
- 7/26/07 A single adult and the chick were sighted on the western margin of the Salt Pond. The adult spent a considerable amount of time brooding the chick and chasing other shorebirds. Otherwise, the birds foraged in the regular locations. Raccoons were seen passing by in the water.
- 7/27/07 The adult male and the chick plus up to 3 other PIPL foraged in the morning. Raccoons, nutria and geese all passed nearby during the day. In the afternoon, the chick and the

- adult male foraged, and the adult periodically brooded the chick or chased other shorebirds.
- 7/28/07 Birds remained on the W edge of the Salt Pond. The adult male stayed close to the chick. Generally, the adult male and chick foraged together, but the adult occasionally shaded the chick or maintained the feeding territory by chasing the other birds.
- 7/29/07 The adult male and the chick foraged throughout the day. Occasionally other PIPL joined the pair on the western mudflats. The adult stayed close to the chick and maintained feeding lanes by chasing birds.
- 7/30/07 The adult male and the chick foraged along the NW corner and western edge of the Salt Pond. Raccoons and a cottonmouth passed by during the day. The adult brooded the chick often, especially during rain showers. A PIPL from Brood 4 was present today.
- 7/31/07 The birds foraged in the regular location. Generally, one adult accompanied the chick most of the day. The male continued brooding the chick and chasing other shorebirds.
- 8/1/07 The chick and adult male foraged along the western edge throughout the day. The chick was observed flapping wings and running. The adult was absent for short periods of time. Generally, the adult gave the chick more space.
- 8/2/07 The birds from Brood 11 were the only PIPLs foraging on the W end today. There were no brood attempts by the chick, but it did engage in wing flapping and preening. The adult plumage is beginning to come in.
- 8/3/07 The chick and adult foraged all day throughout the western flats at the Salt Pond. The chick flapped its wings, and the chick and adult preened.
- 8/4/07 Birds foraged in the usual locations and also preened and rested throughout the day. Deer and raccoons passed by, but the birds were not alarmed. The birds spent large amounts of time in the NW corner during the afternoon.
- 8/5/07 A dog was found in the closure early in the morning, but the PIPLs seemed to be okay. Birds foraged largely in the SW corner. The chick's tail feathers were beginning to emerge.
- 8/6/07 It rained in the morning. Chick preened its new feathers. The adult and chick foraged throughout the day, often in the SW corner of the Salt Pond.
- 8/7/07 Deer and mink passed through the area today. The adult and chick foraged in the usual areas W of the Salt Pond. The chick preened and flapped its wings. Other PIPLs were present on the W and S shores, and some territorial behavior was noted among the birds.
- 8/8/07 The chick made short flapping runs. The adult was not always present and allowed the chick to wander. Nutria and cottonmouth were observed in the area in the morning, and a raccoon was seen in the afternoon. The adult and chick foraged in the usual areas, and the chick preened periodically.
- 8/9/07 Up to 12 additional PIPLs were seen at the Salt Pond in the afternoon, possibly migrants. The chick made a short flight attempt and forages all morning, sometimes without an adult.
- 8/10/07 Up to 20 PIPL migrants were present today. There were rain squalls in the morning. The chick made short 10-foot flight attempts and often preened. The adult continued to defend the feeding territory from semi-palmated plovers. Otherwise, the birds foraged in the usual locations.
- 8/11/07 The adult and chick foraged along the western side of the Salt Pond. The PIPL migrants remained in the area, and the male was often occupied trying to maintain the feeding territory. No flights were observed by the chick.
- 8/12/07 Fewer migrant PIPLs were present today. The chick preened and exercised its wings, and one short flight attempt was observed. The chick and adult foraged in the usual W edge foraging areas.

- 8/13/07 The chick preened and roosted for a considerable time in the morning. The chick also made several flight attempts, one of which was a vertical takeoff with flight at 20 feet. The chick foraged with the adult in the afternoon and made a few short flight attempts.
- 8/14/07 The chick foraged mostly with the adult in the morning and also made several short flights. In the afternoon, the chick forages and preened. In the evening the chick, now a fledgling, made a 100-foot flight after bathing.
- 8/15/07 The birds remained at the W end of the Salt Pond. The fledgling made two short flights in the morning. Otherwise, the fledgling foraged in the usual locations, preened, and stretched.