# Estuarine recovery of PIT-tagged juvenile salmonids from the Lower Granite Dam transportation study, 1996


**Coastal Zone and Estuarine Studies Division**

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**National Marine Fisheries Service**

Seattle, Washington

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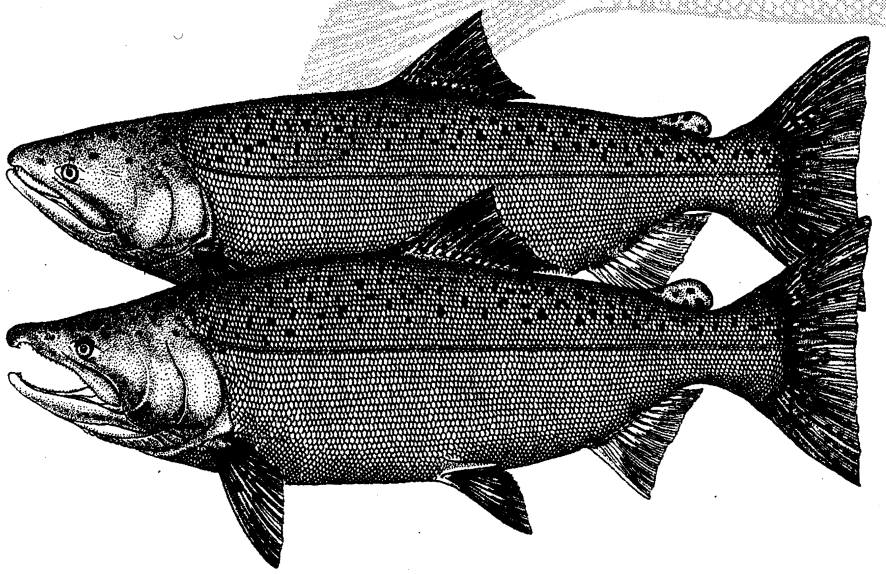
September 1997

# ESTUARINE RECOVERY OF PIT-TAGGED JUVENILE SALMONIDS FROM THE LOWER GRANITE DAM TRANSPORTATION STUDY, 1996

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# EXECUTIVE SUMMARY

In 1996, National Marine Fisheries Service (NMFS) researchers continued evaluation of a specialized trawl fitted with a passive integrated transponder tag (PIT-tag) detector for estuarine interception of PIT-tagged juvenile salmonids. The study, which began in 1995, was conducted in the Columbia River estuary at Jones Beach (RKm 75).

Principal fish targeted for the research were the nearly 114,000 juvenile spring/summer chinook salmon PIT-tagged for the NMFS transportation study. Study fish were either released at Lower Granite Dam on the Snake River (RKm 695) or transported and released in the Columbia River below Bonneville Dam (RKm 234). These fish were released from April through early July to compare survival between inriver-migrating and barge-transported fish.

In addition to the PIT-tagged fish, groups of radio-tagged spring/summer chinook salmon were placed on transportation barges weekly from April through June by researchers from Oregon State University (OSU). These were groups of about 40 fish released downstream from Bonneville Dam and individually tracked through the lower river and into the estuary.

Though our PIT-tag detector/trawl sampling efforts were generally conducted during daily 8-hour periods, we conducted diel sampling for 1 to 4 days during periods of simultaneous passage of radio-tagged and PIT-tagged fish. Diel sampling allowed comparison of migrational timing between radio-tagged fish (data supplied by OSU) and PIT-tagged fish, and the PIT-tag detection data provided information on daylight and darkness migration patterns for different fish species. Estuarine arrival timing and other information were also collected for several PIT-tagged fish groups released for various unrelated studies from points throughout the Columbia River Basin.

Goals of PIT-tag detector/trawl sampling were 1) to provide supplemental observations on timing and diel behavior of PIT-tagged fish in the estuary, 2) to allow comparison of migrational timing differences between radio-tagged- and PIT-tagged-fish groups, and 3) to provide estuarine passage dates for transportation study fish groups for later survival comparisons between adult fish groups that entered the ocean at similar times.

Descaling and injury rates of fish traversing the detector/trawl system were assessed using a sanctuary-bag recovery net that we periodically attached to the back of the detector box. We recovered 693 juvenile salmonids with the sanctuary net: 9.5% were descaled, 1.1% had some sort of injury, and there was 1 mortality. This descaling rate was similar to those observed for run-of-the-river salmon sampled at John Day and Bonneville Dams during the same period.

The PIT-tag detector/trawl was deployed and operational a total of 193 hours between 24 April and 13 June. Not counting test tags or erroneous records, we detected 738 fish with PIT tags. Estuarine detections of fish with release data available in the PTAGIS database were recorded for 6 sockeye salmon, 1 coho salmon, 486 chinook salmon, and 140 steelhead. In addition, 105 fish were detected that had no release information in PTAGIS.

Diel sampling produced lower detection rates of both chinook salmon and steelhead during darkness hours than during daylight ($P<0.05$). For chinook salmon, the average number of detections per hour of detector operation decreased from 2.7 during daylight hours to 1.1 during darkness; for steelhead the average decrease was from 0.9 to 0.2 detections per hour.

We detected 212 spring/summer chinook salmon marked for the transportation study: 64 transported and released downstream from Bonneville Dam and 148 released for inriver migration from Lower Granite Dam. There were significant differences in passage times at Jones Beach

between these two study groups: respective 10th, 50th, and 90th percentile travel times to Jones Beach were 1.6, 2.5, and 4.4 days for transported fish and 12, 16, and 23 days for inriver migrants. The extended period of availability of inriver migrants in the estuary probably accounted for higher numbers of detections of these fish than of transported fish.

During their 154-km migration from below Bonneville Dam to Jones Beach, transported fish apparently did not disperse; thus detections of these fish produced a patchy distribution, and their detection rates were likely more affected by duration and time of daily sampling than those of inriver migrants. Temporal distribution of transported PIT-tagged fish was similar to that of transported radio-tagged fish.

Although somewhat cumbersome to deploy and retrieve, the prototype detection equipment worked well. Deployment/retrieval operations required about 1.5 hours to accomplish; however, accumulation of debris often forced us to make multiple deployments each day for cleaning, and these deployments effected substantial loss of trawling time. Beginning on 10 May, we lost additional trawling time due to the operation of dredging equipment in the sample area. However, the goal of providing supplemental observations on timing and diel behavior of PIT-tagged juvenile salmon near the mouth of the Columbia River was achieved.

In the next few years, improvements in PIT-tag technology are expected that will allow for increased detection range and efficiency. Greater detection range and efficiency will facilitate increased size of tunnel openings and more rapid fish passage through the PIT-tag detector/trawl.

## TABLE OF CONTENTS

EXECUTIVE SUMMARY ..... iii

INTRODUCTION ..... 1

METHODS ..... 7
- Target Fish ..... 9
- Study Site ..... 10
- Trawl Design ..... 13
- Electronic Equipment and Operation ..... 15
  - Detector ..... 16
  - Cabling and Data Recording ..... 16
  - Bit-shifting Phenomenon ..... 18
- PIT-tag Information System ..... 19
- Vessels ..... 20
- Procedures for Deployment and Retrieval ..... 20
- Descaling and Injury Assessments ..... 21
- Statistical Analysis ..... 23

RESULTS ..... 25
- Bit-shifting and Duplication of Records ..... 25
- Descaling and Injury ..... 27
- Diel Detection Pattern ..... 27
- Transportation Study Detections ..... 31
  - Fork Length Comparisons ..... 31
  - Radio-tagged Fish Migration versus PIT-tagged Fish Migration ..... 39
  - Comparative Survival Estimate ..... 39
- Other PIT-Tagged Fish Groups ..... 41

DISCUSSION ..... 45

CONCLUSIONS ..... 47

RECOMMENDATIONS ..... 49

ACKNOWLEDGEMENTS ..... 51

REFERENCES ..... 53

APPENDICES ..... 55

# INTRODUCTION

Beginning in 1966, National Marine Fisheries Service (NMFS) researchers evaluated migrational characteristics and relative survival differences of marked groups of juvenile salmonids in the Columbia River estuary and occasionally in the nearshore ocean (Miller and Williams 1983, Dawley et al. 1986, Ledgerwood et al. 1990, Ledgerwood et al. 1994, Miller 1992). Purse and beach seines were adopted as the primary sampling gear because they allowed greater catch efficiency and less injury to intercepted salmonids than other sampling equipment tested.

Coded-wire tags implanted in juvenile salmonids have proved the only useful marking technique for relative survival comparisons because poor mark application or poor retention of fin clips and cold brands have resulted in confusion among the many marked groups of fish each year. However, fisheries managers have become increasingly reluctant to authorize evaluations of juvenile migrants using coded-wire tags because tag reading requires sacrificing the fish. Also, because of the large number of recoveries necessary to detect statistically significant differences among treatment groups, it is necessary to sample intensively, intercepting as many as 367,000 fish from the juvenile salmon outmigration to recover roughly 5% of those marked (Dawley et al. 1986).

Precise estimates of survival to the estuary and subsequent timing of ocean entrance for migrating juvenile salmonids remain important to understanding the contribution of various fisheries enhancement projects within the Columbia River Basin. However, estuarine assessments of juvenile salmonids have been impeded by curtailment of sampling, which has been prescribed both as a precaution against handling impacts and to avoid the necessity of sacrificing fish for

coded-wire tag identification. With added concerns about salmonid species from the Snake River that have recently been listed as threatened or endangered, it became apparent that alternate methodologies for assessment of juvenile salmonids must be employed in the estuary.

The advent of the passive integrated transponder (PIT) tag has provided greater precision and a new dimension to inriver survival and migration comparisons for salmonids in the Columbia and Snake Rivers. The PIT tag, as used in finfish, consists of an integrated circuit attached to a multi-turn coil of fine wire, sealed in a glass tube and implanted in the body cavity (Destron/Fearing 1993). Each PIT tag has a unique number stored in its permanent memory at the time of manufacture (Prentice et al. 1990)[1] and decoded remotely through magnetic induction when the fish passes through the magnetic field generated by a PIT-tag detector. Stationary decoding devices are now installed at Columbia and Snake River dams to passively monitor passage of PIT-tagged juvenile and adult fish. The use of PIT-tag technology has grown since its first use in the Columbia River Basin in 1985, and a centralized database, the Passive Integrated Transponder Tag Information System (PTAGIS 1996), has been established to allow regional access to migration data (Stein 1996).

During 1995 and 1996, nearly 1 million PIT-tagged juvenile salmonids were released into the Columbia River and its tributaries by fisheries agencies and tribes. These large releases of PIT-tagged fish made mobile deployment of a PIT-tag detector in the estuary appear feasible. In 1995, NMFS and University of Washington (UW) researchers began development of a specialized

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[1] The PIT tag is available from Destron-Identification Devices, Inc. Reference to trade names does not imply endorsement by the National Marine Fisheries Service.

trawl containing an electronic device capable of detecting PIT tags implanted in juvenile salmonids (Dawley et al. 1996).

In 1996, NMFS continued research with the PIT-tag detector/trawl in the Columbia River estuary near Jones Beach (Fig. 1). Our goal was to provide information on migration timing and survival to the estuary for as many PIT-tagged fish groups as possible. Study fish in both years were spring/summer chinook salmon PIT tagged and released for the NMFS transportation study at Lower Granite Dam on the Snake River (Marsh et al. 1996). Fish for the transportation study are tagged and released daily during the migration period (April-June) each year.

In addition to fish from the 1996 transportation study, groups of about 40 spring/summer chinook salmon were radio-tagged at Lower Granite Dam and placed on a transportation barge each week from during the migration season (Larry Davis, Oregon State University (OSU) Cooperative Fishery Unit, Principal Investigator). Following their release downstream from Bonneville Dam, these radio-tagged fish were tracked by OSU researchers through the lower river and into the estuary. During periods when fish with both tag types were passing the estuary simultaneously, we conducted diel sampling with the PIT-tag detector/trawl to allow comparison of migrational timing between OSU data on radio-tagged fish and our data on PIT-tagged fish.

The four research objectives in 1996 were as follows:

1) Interrogate migrating PIT-tagged juvenile salmonids in the upper reach of the Columbia River estuary near Jones Beach.

2) Assess relative abundance and timing of juvenile chinook salmon PIT-tagged and released for evaluation of transportation from Lower Granite Dam (and conduct similar assessments for other known release groups where applicable).

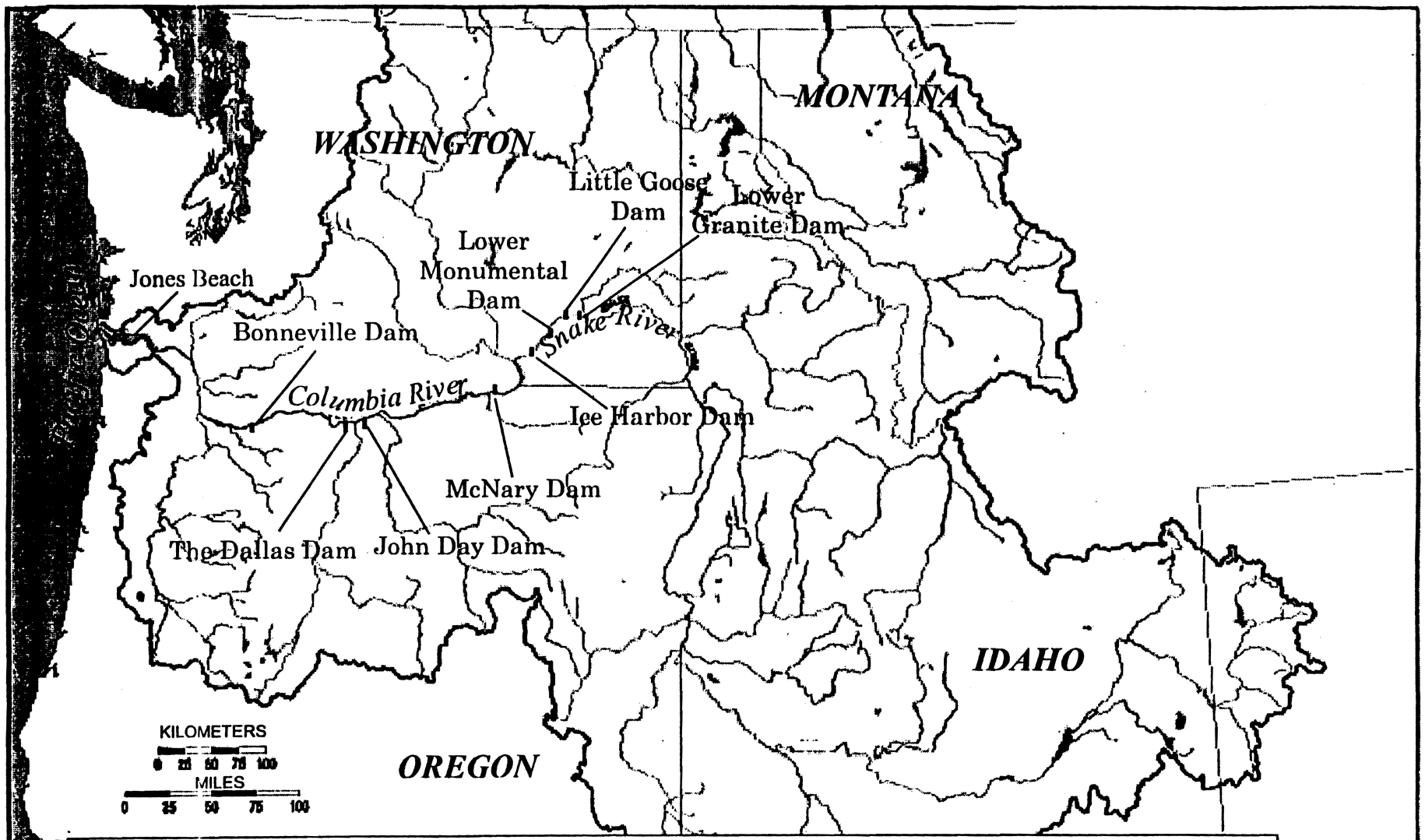


Figure 1. Columbia River and Snake River Basins showing the locations of dams bypassed during the transportation study and the Jones Beach sampling station. Base map courtesy BPA and available on the internet (www.streamnet.org).

3) Compare migrational timing between selected groups of PIT- and radio-tagged fish released from the transportation barges.

4) Further evaluate methodologies and net shapes to improve passage and detection rates of PIT-tagged juvenile salmonids through the detector/trawl.

## METHODS

In 1995, during the development phase of this research, we modified nets to allow deployment of specially constructed electronic PIT-tag detection equipment. With these prototypes, we generated sampling procedures that, as verified by underwater cameras and SCUBA divers, produced minimal adverse impacts to test fish. Initial research with the PIT-tag detector/trawl took place in the current-free and clear waters of Lake Washington. The Lake Washington site was near NMFS Sand Point electronics lab, where frequent modifications to the various electronic components were facilitated; it was also near the UW hatchery, where hatchery fish were held and tagged prior to test-fish releases.

In early May, inspectors from various agencies observed the PIT-tag detector/trawl system in Lake Washington and granted permission to move the equipment for deployment in the Columbia River. Trawling operations in the Columbia River were conducted adjacent to Jones Beach, river kilometer (RKm) 75, where we have an established beach- and purse-seining site (Fig. 2).

Due to the extended developmental period required for the trawl, we did not begin sampling at Jones Beach until mid-May 1995, after the majority of targeted transportation study fish had passed through the estuary. However, by the end of the migration period, we concluded that the major objectives for successful implementation of a PIT-tag detector/trawl system in the estuary had been achieved. Those objectives were elimination of debris, rapid passage of fish through the gear, minimal physical harm of fish during passage, and reliable electronics for detection of PIT tags.

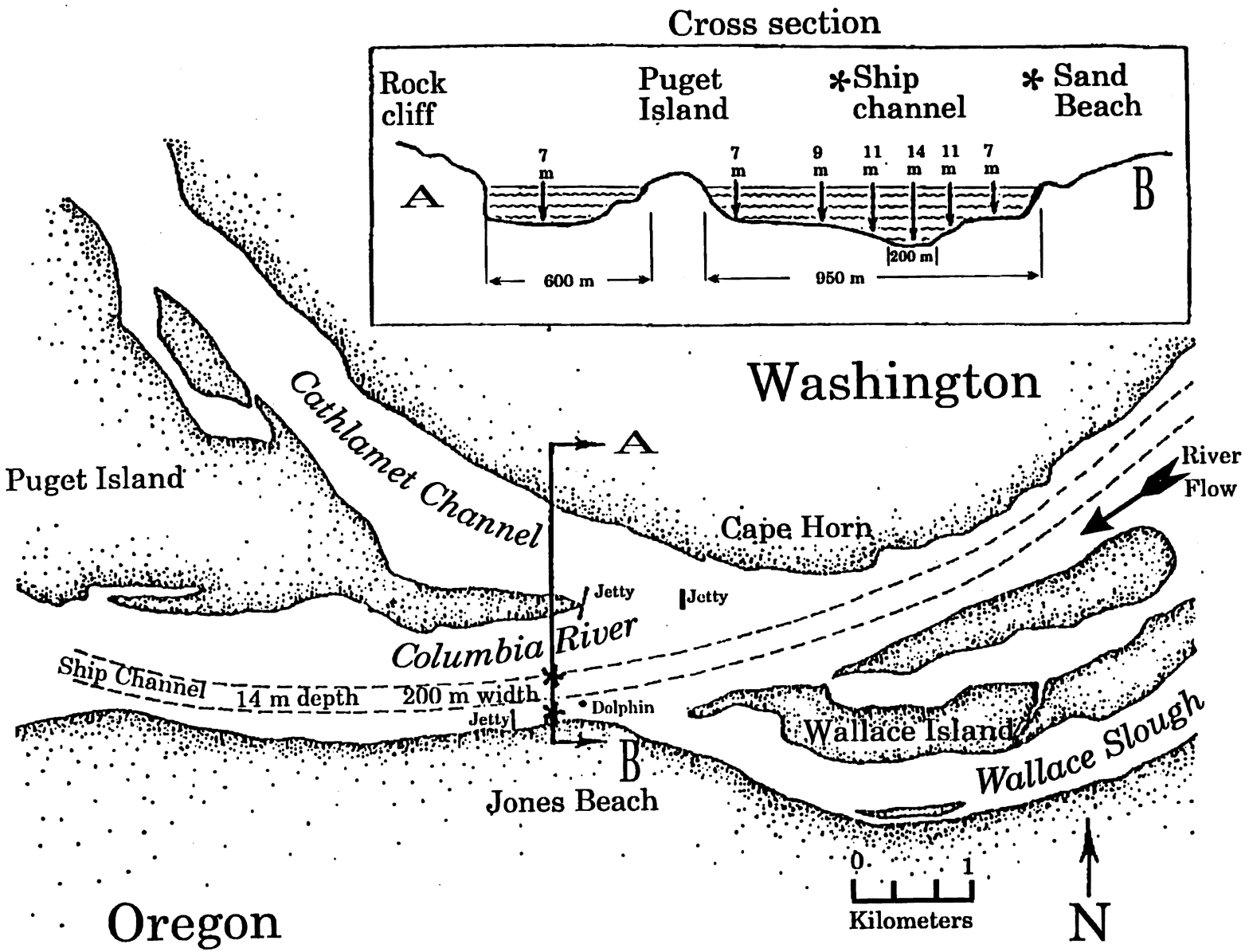


Figure 2. Overview and cross-sectional views of the Columbia River at Jones Beach (river kilometer 75). Historical beach and purse seining areas are denoted by asterisks.

In 1995 and 1996, the PIT-tag detector/trawl consisted of a pair trawl with paired net wings towed between two vessels. In place of a cod-end, the pair trawl had an attached PIT-tag detector box through which fish exited. The detector was towed about 2 m underwater and had electronic cables leading to a boat tethered to the cork line at the rear of the trawl. The tethered boat contained the power and recording equipment required by the detector.

## Target Fish

In 1996, the estuarine sampling effort again targeted outmigrating spring/summer chinook salmon PIT tagged and released for NMFS transportation study on the Snake River. Nearly 114,000 PIT-tagged fish were released between mid-April and early July. A goal of the transportation study is to compare survival rates of juvenile fish transported around seven dams and reservoirs to those of fish allowed to volitionally migrate downstream through the river system. These comparisons will be based upon counts of adult fish returning to the fisheries or passing through monitoring facilities at Lower Granite Dam.

Transportation study fish were collected daily and comprised about 10% of smolts migrating through the bypass system at Lower Granite Dam. These smolts were a mixture of wild and hatchery-reared fish, and adipose fin clips on the hatchery fish provided a means to distinguish between the two rearing types. After collection, transportation study fish were PIT tagged, held overnight for observation of handling mortality, and released to their respective treatment locations. PIT-tag codes, length, weight, rearing-type history, and other parameters were recorded in the PTAGIS database for each fish prior to release.

Inriver fish groups were released just downstream from Lower Granite Dam (RKm 695),

and transport fish groups were loaded onto a barge or truck and carried downstream past seven dams and reservoirs to release points on the Columbia River about 9 km downstream from Bonneville Dam (RKm 234). There were about 68,000 and 46,000 PIT-tagged fish in the 1996 inriver and transport groups, respectively (Appendix Table A1). To minimize inadvertent transport of fish from inriver migrant groups, PIT-tag detection equipment at all dams downstream from Lower Granite Dam was operated to return PIT-tagged fish to the river.

## Study Site

The study area is characterized by frequent ship and barge traffic, occasional severe weather, and strong tidal and river currents. The ship channel is about 200 m wide and is periodically dredged to a depth of about 14 m (Fig. 2). In 1996, deployment of the PIT-tag detector/trawl in the Columbia River was expanded to include four drift areas between RKm 83, near Eagle Cliff, and RKm 61, near Clifton Channel (Fig. 3). Tides in the study area are semi-diurnal with about 7 hours of ebb and 4.5 hours of flood. Depending on the time of day and tidal stage during which the net was deployed, the distance that could be traveled downstream varied considerably.

During the spring freshet period (April-June), little or no flow reversal occurred at Jones Beach at flood tide, particularly during the high river flows present in 1996 (Fig. 4). It was only rarely, and for short periods near peak flood current, that we were able to maintain position in the river or actually made upstream headway with the net under tow. Generally, the net and boats moved downstream continuously, with drift velocities often exceeding 1.5 m/s (3 knots).

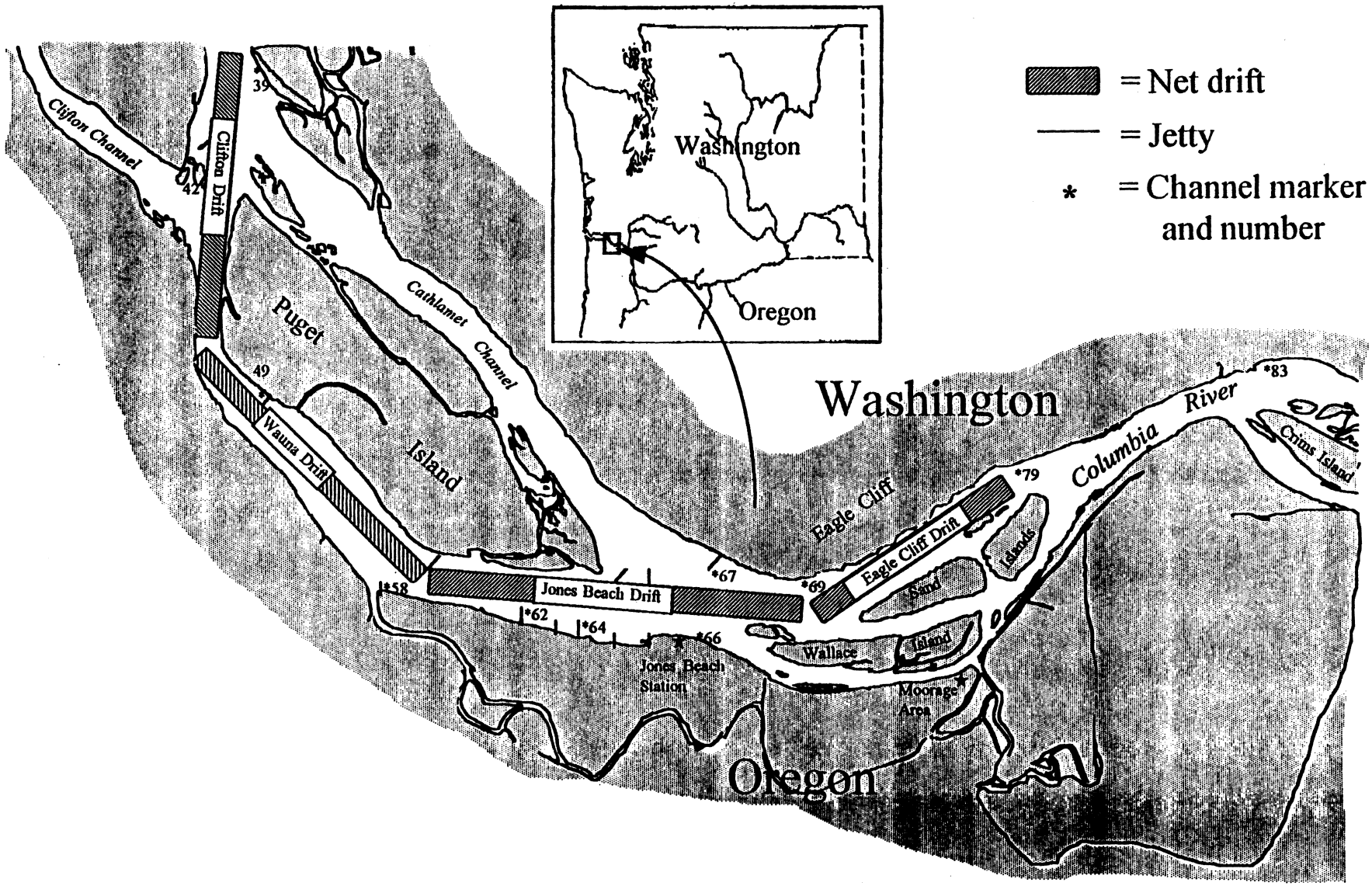


Figure 3. PIT- tag detector/trawl deployment areas, between Columbia River kilometer (RKm) 83 (near Eagle Cliff) and RKm 61 (near Clifton Channel), 1996.

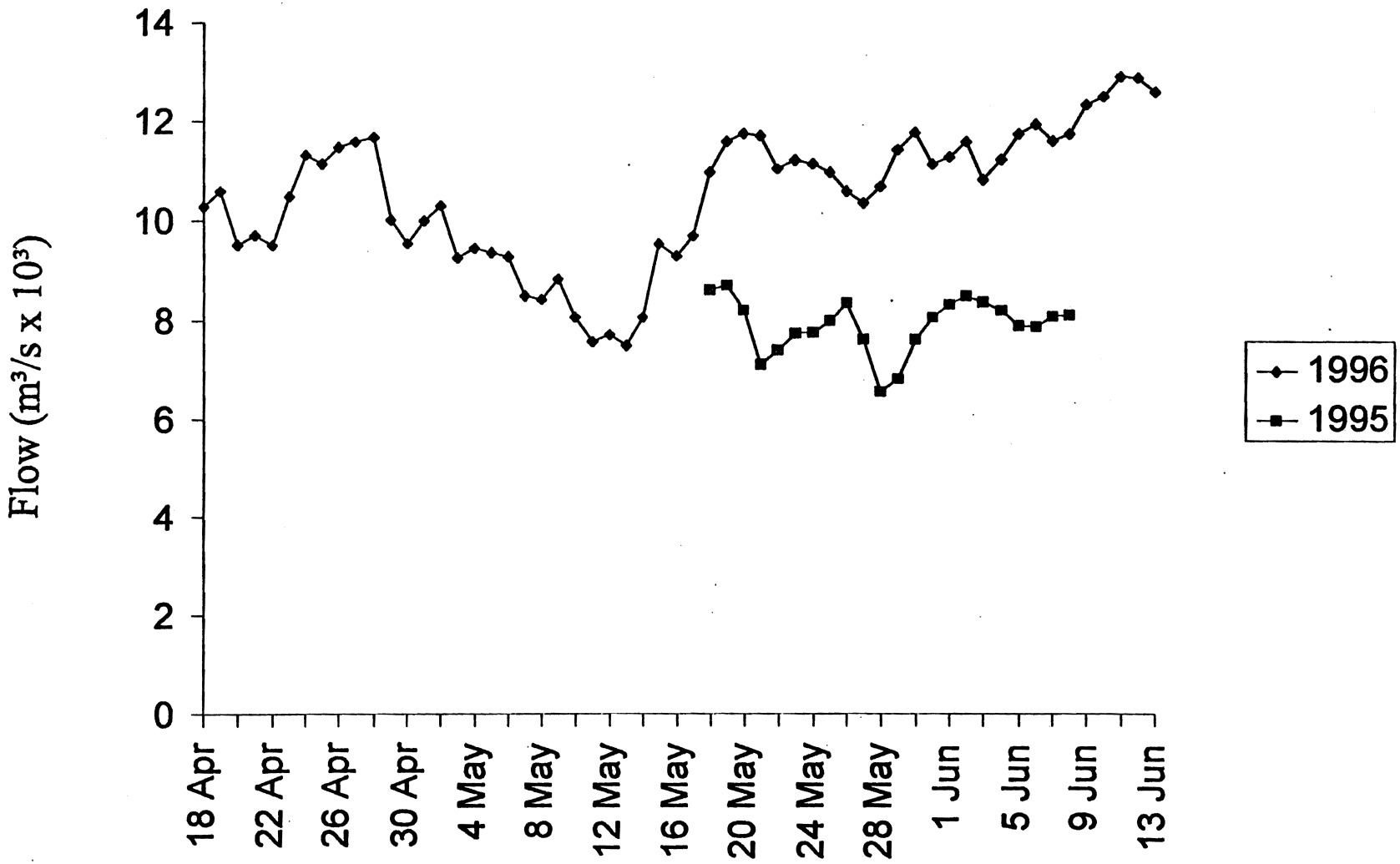


Figure 4. Total flow of Columbia River at Bonneville Dam during time periods of PIT-tag detector/trawling, 1995 and 1996.

The flooding and high water conditions that prevailed in 1996 contributed to a high load of debris in the river, and we were forced to terminate towing operations several times to clean the net of debris. Between 10 May and 10 June, pipeline dredging began, which deepened the navigation channel in the study area. The added congestion from dredge operations resulted in additional lost trawling time.

## Trawl Design

The pair trawl consisted of two 91.5-m wings attached to each side of a 14-m trawl body. The PIT-tag detector was located where the cod-end of the trawl is normally positioned (Fig. 5). Two vessels were used for towing. Towlines were 46 m long and were bridled to a 3.8-cm-diameter by 3-m-long steel spreader bar.

The spreader bar was attached to the first mesh section: a 30.5-m-long section of 3.8-cm stretch-measure mesh of white nylon netting that expanded from 3 to 4.6 m in depth. Zippered ends connected this first section of wing netting to a second 30.5-m section, which was made of 2.5-cm white nylon netting and which expanded to a 6-m depth. A second pair of zippered ends connected the second section to a third 30.5-m section made of 1.8-cm black nylon netting.[2] A floor section of netting connected the wings at the 6-m depth.

The third section of wing netting and the floor led to the 14-m-long trawl body, which was composed of a tapering floor, sides, and ceiling of 1.8-cm black nylon netting, and which

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[2] This final section of webbing had similar web size openings as the juvenile salmon purse- and beach-seine nets used previously at Jones Beach (Dawley et al. 1986).

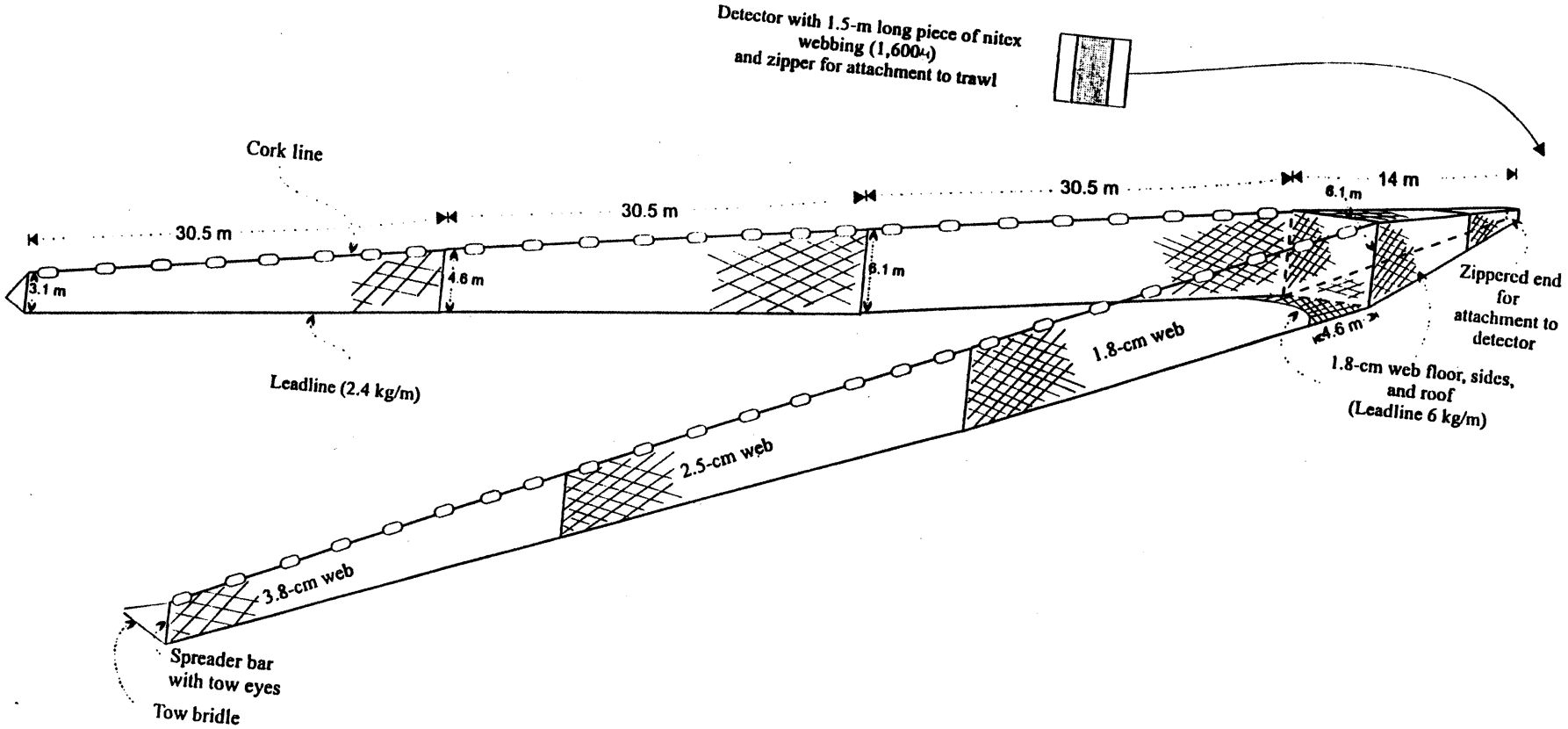


Figure 5. Drawing of PIT-tag detector pair trawl used at Jones Beach in 1996.

terminated in a roughly 1.2-m square opening with a zippered perimeter. The detector box had a 1.5-m length of white nitex webbing material (1,600-$\mu$ openings), permanently attached on one end, which terminated in a zipper that matched the trawl body for ease of attachment/removal.

At a towing speed of 1.5 m/s (3 knots), drag forces contributed by the various net components, as calculated by the net manufacturer, totaled 22,318 kg (49,100 lbs) (Mike Halsted, Research Nets, Inc., Bothell, WA, Pers. commun., March 1995). Net drag was 10,227 kg (22,500 lbs) for the third wing section and floor; 5,682 kg (12,500 lbs) for the middle 2.5-cm (1-in) mesh portion of the wings; 3,409 kg (7,500 lbs) for the initial 3.8-cm (1.5-in) portion of the wings; and 3,000 kg (6,600 lbs) for the trawl body, exclusive of the detector.

Each vessel would theoretically pull one half of the total load. We used a dynamometer to check tension on the tow line of the RV *Columbia*. At a towing speed of about 1 m/s (2 knots), global positioning system (GPS) measure, the total force exerted was 2,954 kg (6,500 lbs). However, because of lack of sufficient power, our normal towing speed was slower: between 0.6 and 0.8 m/s (1.2 and 1.5 knots) (Appendix Table A2).

## Electronic Equipment and Operation

A PIT tag is a sealed glass cylinder, approximately 2.1 mm in diameter and 11 mm long, containing an integrated circuit attached to a multi-turn coil of fine wire. The tag is usually inserted into the peritoneal cavity or dorsal sinus cavity of a fish. The integrated circuit and memory store and transmit the unique encoded identification number that is registered when the tag enters the magnetic field generated by a detector.

## Detector

The underwater detector housing was a 1.2-m cube and weighed about 295 kg in air (Fig. 6). The structure consisted of two tunnels, 20 cm wide by 60 cm tall by 122 cm long, separated by a 41-cm space. Each tunnel contained two 61-cm-long sections with embedded magnetic coils separated by 30 cm of inert plastic material. Separation between coils and between tunnels was required to prevent electronic interference. Sealed electronic tuning devices were mounted on top of each coil, and separate cables led from the tuner boxes to the surface, where they were attached to the power supplies, exciters, controls, and computers located on the surface vessel.

## Cabling and Data Recording

A 6-m-long cable leading to the surface was attached to the tuner box of each coil. A video cable for a camera mounted on the detector box was bundled in with the detector cables. The strong magnetic field created by the energized detector interfered with the video picture, so both pieces of equipment could not be operated simultaneously. After deployment of the trawl and attachment of the detector box, a small vessel containing electronic components and an 1,800-watt gas-powered generator retrieved the bundled cables and attached them to the appropriate components inside the cabin. The generator was then started and the video camera, mounted to view the entrance of one tunnel, was activated to verify passage of fish into the detector.

As fish were observed entering the detector from the cod-end of the trawl, the camera was deactivated and the detector energized. Once the detector was energized, most operations were automatic. A DOS-based computer software program and printer automatically recorded and

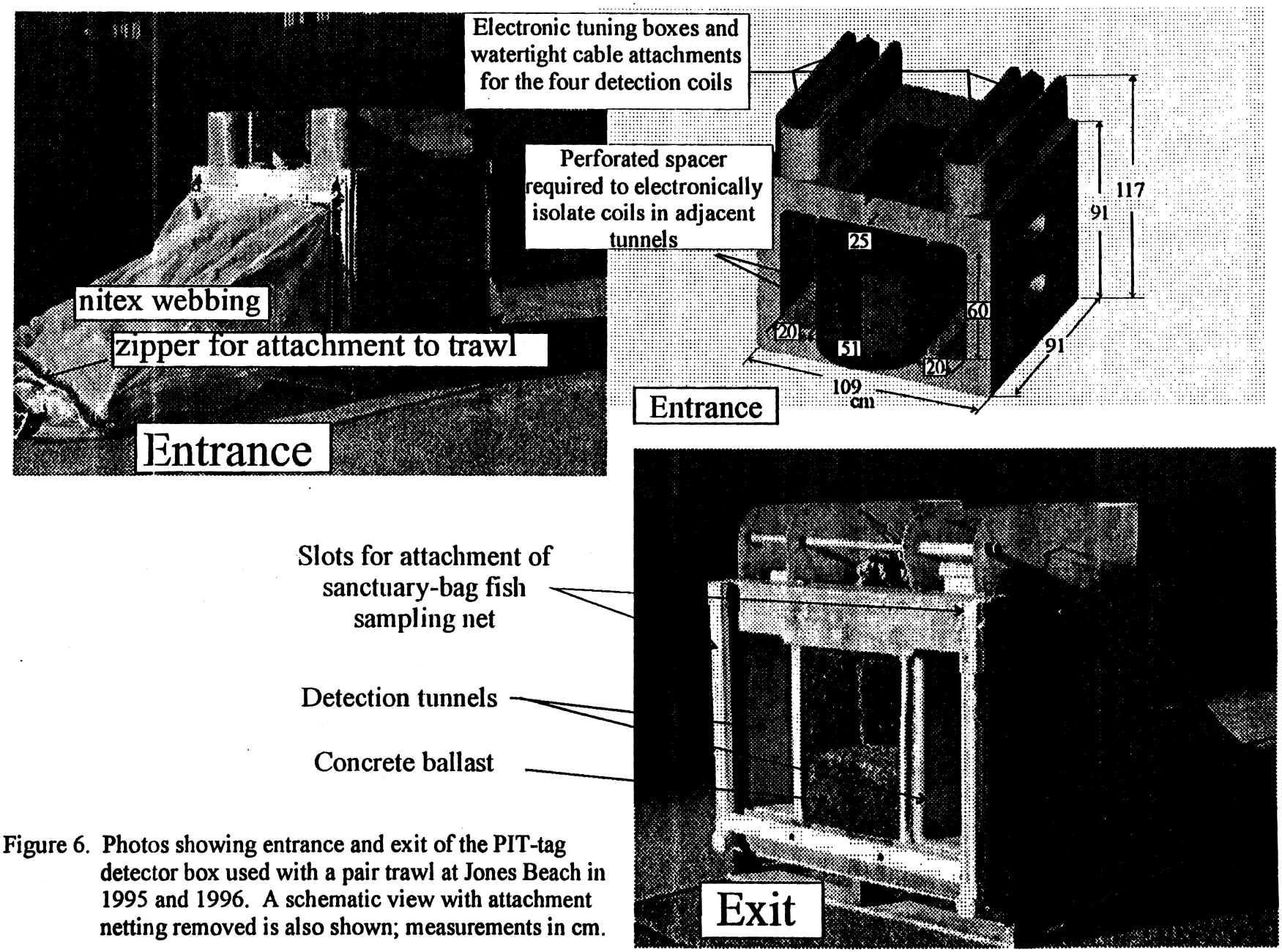


Figure 6. Photos showing entrance and exit of the PIT-tag detector box used with a pair trawl at Jones Beach in 1995 and 1996. A schematic view with attachment netting removed is also shown; measurements in cm.

printed detection data. We also maintained a written log of diver observations, total number of detections, and times and durations that the detector was energized.

We recorded GPS readings of vessel position and speed at the beginning and end of each deployment and occasionally during deployment. The detector was de-energized periodically and the video camera turned on to view fish passage. Prior to recording live fish, we verified that the detector was energized and working properly by taping a PIT tag to a stick or other object and passing it through the detector.

**Bit-shifting Phenomenon**

Bit-shifting and duplication of codes can occur when a PIT-tagged fish passes within the magnetic field of a detector coil and a weak signal causes repetitive shifts between the true PIT-tag code and one of several similar codes. The alternating codes generated often differ by a single digit or "bit." Normally, detector recording software limits duplication of PIT-tag records to those of fish that pass through successive coils in more than 2 seconds. When fish pass through 2 coils in less than 2 seconds, a single record results, showing both coils. However, when bit-shifting occurs, slightly different codes are generated, often simultaneously, and the true code can cycle between several similar codes for as long as the fish remains in the field.

When multiple records were recorded, manual processing was necessary to verify the data.[3] When we were uncertain whether a record was for a real code or a bit-shift code, we examined the fish's detection time and release information to validate records. It is unlikely that

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[3] By uploading the raw PIT-tag detection data files to the PTAGIS database an automated cleanup of duplicated and bit-shift records occurred which provided summary reports for the Jones Beach interrogation site code (TWX) similar to those we generated using a manual cleanup process.

two PIT-tagged fish passing through the detector simultaneously would both be recorded, and therefore, some data were probably lost as a result of prolonged bit-shifting phenomena.

## PIT-tag Information System

The Passive Integrated Transponder Tag Information System (PTAGIS) is a centralized database maintained and operated by the Pacific States Marine Fisheries Commission Computer Service Center in Portland, Oregon. This database was used as a repository for all interrogation information recorded with the PIT-tag detector/trawl equipment. The raw, unfiltered, and unedited interrogation data files, as required by PTAGIS, were uploaded periodically during the sampling season. We transferred data using standard procedures via modem (Destron/Fearing 1993, Stein 1996). The interrogation records obtained using the PIT-tag detector/trawl were identified within the database by an interrogation site code of "TWX" (towed array).

We also maintained an independent database of our interrogation data to facilitate analysis and to couple our estuarine detection data with matching release information available through PTAGIS. For detections of barged fish from the transportation study, we updated the PTAGIS release information that had been downloaded to our database to reflect the date, time, and location (RKm) where transportation barges were emptied of fish downstream from Bonneville Dam. (The PTAGIS release data represented the date, time, and location (RKm) where fish were *loaded* on transportation study barges rather than where fish were *released* from the barges.) Fish release data from the transport barges was provided by the COE (Mike Halder, COE, Lower Granite Dam, Pers. commun., July 1996).

PIT-tag interrogations (4,336 fish) recorded by detectors at Bonneville Dam during our study (1 Apr-15 June 1996) were also accessed and downloaded from PTAGIS. Most detections from Bonneville Dam were via the prototype flat-plate detector (interrogation site code BVX) installed at Bonneville Dam First Powerhouse in May 1996 (Nunnallee et. al 1996). These data, when compared to data on individuals subsequently detected in the estuary, will be used to evaluate travel time from Bonneville Dam to the estuary and to make comparative survival estimates for inriver migrants between Lower Granite Dam release sites and Bonneville Dam.

## Vessels

Sampling with the PIT-tag detector/trawl required a fleet of five powered vessels. The 10.7-m RV *Columbia* served as a towboat for one trawl wing and was equipped with a power drum to deploy/retrieve the trawl and a winch and boom to deploy/retrieve the detector box. Two 8.5-m vessels were used in tandem to tow the other wing.[4] A 7.6-m vessel was tethered to the trawl during deployment to house the detection electronics, and a 5.5-m skiff was used to assist in deployment/retrieval operations and to move crew members between vessels as needed.

## Procedures for Deployment and Retrieval

To deploy the trawl, each wing was towed upstream by a vessel as the trawl spooled off the drum on the RV *Columbia*. When the zippered end of the trawl body became accessible on the drum, the detector box was attached and then lifted and placed into the river. The wings of

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[4] We elected to use two vessels in tandem to tow one wing of the trawl due to unavailability of a second large vessel and to provide a backup vessel for added safety.

the trawl were then separated 100 m in the current, allowing fish to enter. During trawl deployment, the vessel containing the generator and detector electronics would attach to a bridle, retrieve and connect all cables from the detector, and energize the appropriate components. Retrieval procedures were generally the reverse of deployment, except that after the detector was removed, the net was inverted in the current to flush debris.

Substantial amounts of time were committed to deployment/retrieval efforts that provided no PIT-tag interrogations. Each deployment/retrieval operation required about 45 minutes to complete, and travel to and from the moorage area required about 1 hour. About every 15 minutes, the wings of the net were brought together to increase tow speed and "flush" fish through the detector. During those periods, no fish were intercepted. However, the detector was energized whenever the net was deployed, except during occasional 2- or 3-minute periods used to view the video camera.

## Descaling and Injury Assessments

Fish traversing the detector/trawl system were sampled weekly to assess descaling and injury rates. To collect these samples, we used a recovery net with a vinyl terminal sanctuary bag, which attached to the back of the detector box. A 91-cm-long PVC framework was attached to the outside of the net and placed about 30 cm from the front of the sanctuary bag and 122 cm from the back of the detector (Fig. 7). The PVC framework allowed a variable sample volume and protected fish from overcrowding when large numbers entered the sanctuary net.

To obtain a sample, the trawl was brought to one-half tow speed, the detector pulled to the surface, and the net attached to the detector. The box was then released and the trawl

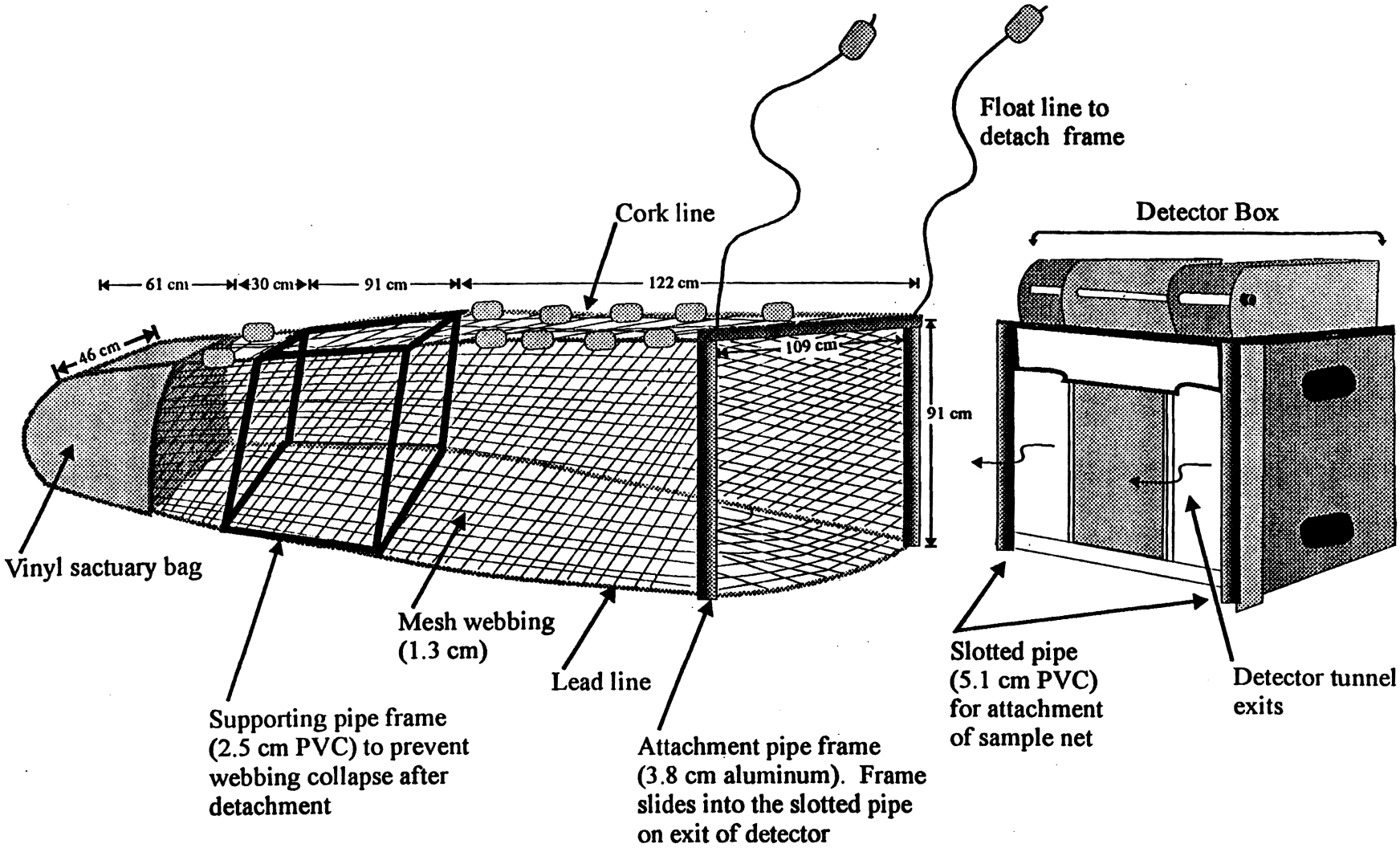


Figure 7. Schematic diagram of sanctuary bag recovery net, used to collect a sample of fish exiting the PIT-tag detector\trawl, 1996.

brought back to full tow speed. Duration of sampling was generally less than 15 minutes, depending on the expected density of passing fish. To stop sampling, the sanctuary net containing the fish sample was detached, and captured fish were transported to processing facilities aboard the RV *Columbia*. Numbers of dead, injured, or descaled salmonids were recorded. All fish were returned to the river immediately after processing and recovery from the anesthesia.

In addition to sampling fish that had traversed the net and detector/trawl system, we recorded all observances of fish impinged, gilled, or otherwise entrapped in the netting. Divers were also used periodically to assess the net and detection system. When the net was deployed during darkness, divers ensured that the trawl body was not twisted and fish could pass freely.

## Statistical Analysis

Diel patterns in PIT-tag detection rates for juvenile chinook salmon and steelhead were evaluated by one-way analysis of variance (ANOVA). A square root transformation of hourly detection rate data was required. One-way ANOVA was also used to evaluate differences in detection rates for the transportation study fish based on rearing history (wild versus hatchery origin). For this analysis, we pooled data by release date until we had a minimum of 1,000 fish in each rearing-history category. A two-sample t-test was used to test the null hypotheses, that there were no differences in travel times to Jones Beach among radio- and PIT-tagged fish released from transportation barges.

A 95% confidence interval (CI) was used to test the null hypothesis that at Jones Beach, PIT-tag detection rates of transport-study inriver migrants previously detected at Bonneville Dam were different than those of transport-study inriver migrants in general. The hypothesis test was

that the true ratio was equal to one (1). If the 95% CI did not include a ratio equal to one (1), then the null hypothesis was rejected. These ratios were assumed to have a log normal distribution rather than a normal distribution; thus the confidence interval for the estimate was constructed using a log normal scale and the endpoints of the CI back transformed, as described by Harmon et al. (1993), to provide a nonsymmetric CI on the original scale.

# RESULTS

The PIT-tag detector/trawl was deployed and operational a total of 193 hours between 24 April and 13 June (Fig. 8). During this period 2,499 PIT-tag detections were recorded (Appendix Table A3). Not counting test tags, duplicate tag records, or erroneous records resulting from "bit-shift" phenomena, we detected 738 fish with PIT tags (Appendix Table A4). Estuarine detections of fish with release information available in the PTAGIS database were recorded for 6 sockeye salmon, 1 coho salmon, 486 chinook salmon, and 140 steelhead. In addition, we detected 105 fish with no release information in PTAGIS.

## Bit-shifting and Duplication of Records

Well over half of the detections recorded were erroneous records due to duplication of codes and records generated through bit-shifting. Bit-shift and duplicate-record phenomena were probably aggravated by the relatively slow trawling speed. The average trawling speed was about 0.6 m/s (1.2 knots) (Appendix Table A2), which was sufficiently slow to allow some juvenile fish to avoid passing through the detector and perhaps remain on the margin of the electromagnetic field for extended periods.

Another contributor to bit-shift records was undoubtedly the marginal performance of the detector itself, which was affected by leaks and other electronic problems that caused less than optimal performance. We attempted to minimize erroneous PIT-tag records and speed the passage of fish through the detector by bringing the wings of the trawl together about every 15 minutes to increase trawling speed and flush fish through the detector. With the wings of the

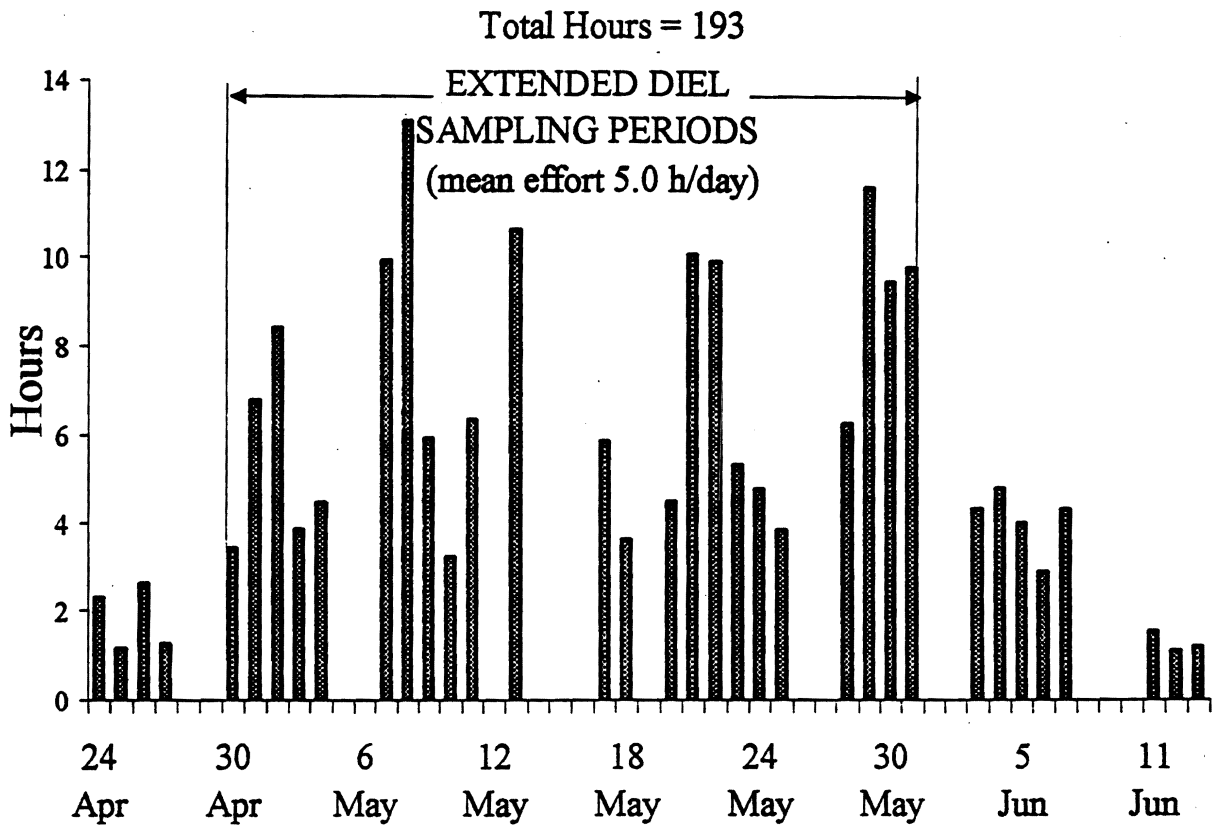


Figure 8. Daily detector on times (hours detector energized) during PIT-tag detector/trawl sampling at Jones Beach, RKm 75, 1996.

trawl together the average trawling speed increased to about 0.8 m/s (1.5 knots), and the majority of detections occurred during these flushing actions.

## Descaling and Injury

As previously described, descaling and injury rates of fish traversing the detector system were assessed using a sanctuary-bag recovery net periodically attached to the back of the detector box. We recovered 693 juvenile salmonids with the sanctuary net; 9.5% were descaled, 1.1% had some sort of injury, and there was 1 mortality (Table 1). The descaling rate was similar to that observed for run-of-the-river salmon sampled at John Day (12%; Richie Graves, NMFS, Rufus, Oregon, Pers. commun., June 1996) and Bonneville Dams (6%; Rick Cowlishaw, NMFS, Bonneville Dam, Pers. commun., June 1996) during the same period.

In addition to fish collected in the sanctuary-bag, 119 salmonids were recovered from the trawl upon retrieval or observed by divers to be impinged or entrapped in the net underwater. All of these fish were counted as mortalities. It is possible that other mortalities and injuries to fish occurred but were unobserved due to the net inversion process used to clean debris from the net during retrieval.

### Diel Detection Pattern

We extended PIT-tag trawling into afternoon and darkness hours during five periods in May (Appendix Table A5 and Appendix Fig. A1). Hourly detection rates for the five periods were pooled to summarize the diel pattern for both juvenile spring/summer chinook salmon and steelhead (Fig. 9). These results indicated decreased detection rates of both chinook salmon and steelhead during darkness ($P<0.05$). The number of detections per hour of detector operation

Table 1. Number of descaled, injured, and dead juvenile salmonids recovered in a sanctuary bag sample net attached to the exit of the PIT-tag detector/trawl, Jones Beach, Columbia River kilometer 75, 1996.

| Date | Sanctuary bag recovery net sample obtained from exit of the detector/trawl[a] | | | | | | | | | | | | | | | | | | | | | | | | Trawl Salmonids[b] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Spring/summer chinook salmon | | | | Fall chinook salmon | | | | Coho salmon | | | | Steelhead | | | | Sockeye salmon | | | | Total salmonids | | | | |
| | n | D | M | I | n | D | M | I | n | D | M | I | n | D | M | I | n | D | M | I | n | D | M | I | M |
| 18 Apr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 Apr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 Apr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Apr | 4 | 1 | 0 | 0 | 7 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 1 | 0 | 0 | 0 |
| 25 Apr[c] | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 1 | 2 |
| 26 Apr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 Apr[c] | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 1 | 0 | 0 | 55 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 3 | 0 | 0 | 1 |
| 30 Apr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 3 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 May[c] | 12 | 1 | 0 | 1 | 4 | 1 | 0 | 0 | 8 | 2 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 4 | 0 | 1 | 3 |
| 7 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8 May[c] | 32 | 4 | 1 | 0 | 6 | 0 | 0 | 0 | 24 | 2 | 0 | 0 | 25 | 1 | 0 | 1 | 4 | 1 | 0 | 0 | 91 | 8 | 1 | 1 | 17 |
| 9 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 13 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 17 May | 3 | 1 | 0 | 0 | 11 | 1 | 0 | 0 | 12 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 31 | 3 | 0 | 0 | 2 |
| 18 May[c] | 38 | 3 | 0 | 1 | 39 | 8 | 0 | 0 | 73 | 4 | 0 | 1 | 32 | 0 | 0 | 0 | 8 | 1 | 0 | 0 | 190 | 16 | 0 | 2 | 0 |
| 20 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 21 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| 22 May[c] | 44 | 5 | 0 | 0 | 50 | 7 | 0 | 0 | 44 | 1 | 0 | 0 | 6 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 147 | 13 | 0 | 0 | 3 |
| 23 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

Table 1. Continued.

| Date | Sanctuary bag recovery net sample obtained from exit of the detector/trawl[a] | | | | | | | | | | | | | | | | | | | | | | | | Trawl Salmonids[b] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Spring/summer chinook salmon | | | | Fall chinook salmon | | | | Coho salmon | | | | Steelhead | | | | Sockeye salmon | | | | Total salmonids | | | | |
| | n | D | M | I | n | D | M | I | n | D | M | I | n | D | M | I | n | D | M | I | n | D | M | I | M |
| 24 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 28 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 30 May[c] | 11 | 4 | 0 | 1 | 8 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 4 | 1 | 0 | 1 | 3 | 1 | 0 | 0 | 33 | 6 | 0 | 2 | 3 |
| 31 May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 3 Jun | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4 Jun | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5 Jun | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 Jun | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 Jun[c] | 11 | 1 | 0 | 0 | 10 | 2 | 0 | 0 | 14 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 38 | 5 | 0 | 0 | 2 |
| 11 Jun[c] | 2 | 0 | 0 | 0 | 12 | 4 | 0 | 0 | 14 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 5 | 0 | 1 | 0 |
| 12 Jun | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 Jun | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Totals** | 162 | 21 | 1 | 3 | 148 | 23 | 0 | 0 | 207 | 12 | 0 | 2 | 155 | 5 | 0 | 3 | 21 | 5 | 0 | 0 | 693 | 66 | 1 | 8 | 119 |

a Codes used were n, sample observed; D, number descaled; M, number dead (mortality); I, number injured. Included are daily totals for juvenile salmonids observed entrapped in the detector/trawl by divers or upon retrieval of the detector/trawl.

b Fish recovered from the trawl net include all those specimens identified to species plus others that could not be accurately identified due to the observer (divers underwater) or location (entrapped in the net during retrieval). All of the fish so observed were counted as mortalities.

c Includes sample of fish obtained using the sanctuary bag recovery net

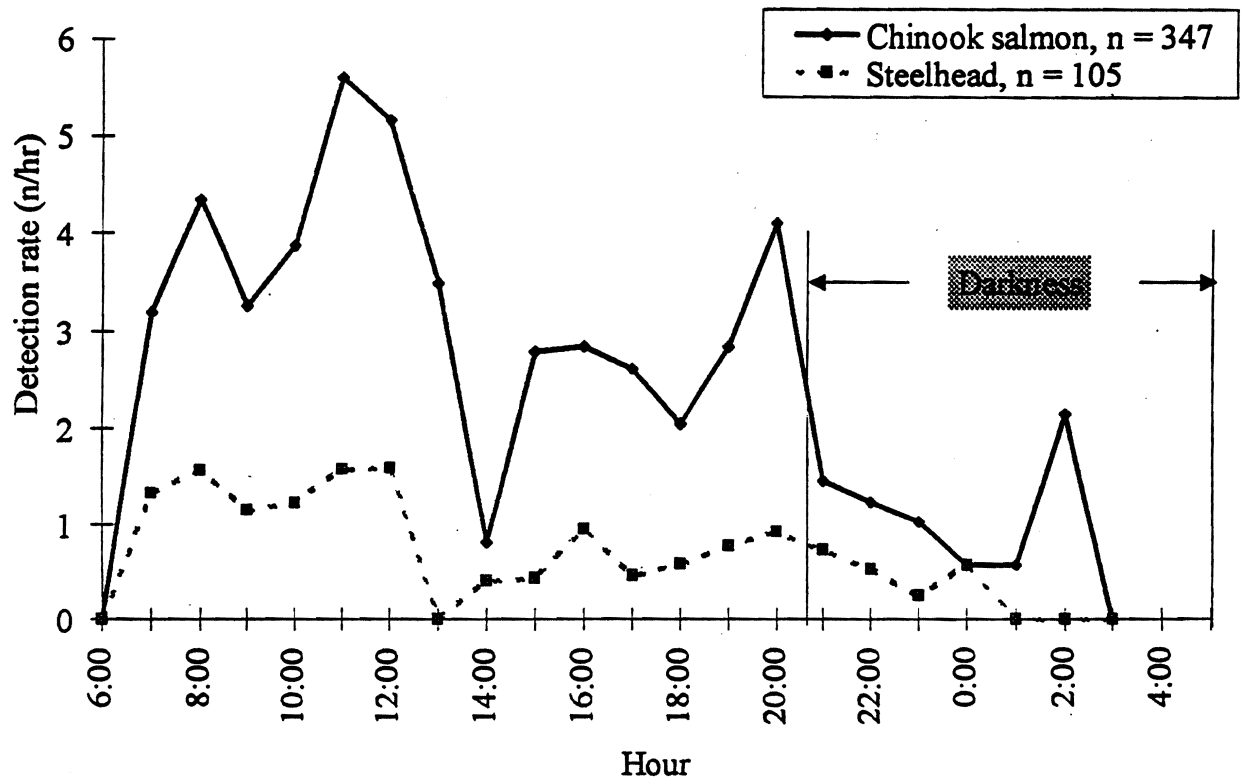


Figure 9. Average diel detection pattern for juvenile chinook salmon and steelhead during five diel sampling periods at Jones Beach, 1996.

decreased from 2.7/hour during daylight hours to 1.1/hour during darkness for chinook salmon, and from 0.9 to 0.2/hour for steelhead.

## Transportation Study Detections

We detected 212 spring/summer chinook salmon marked for the transportation study: 64 transported and released downstream from Bonneville Dam and 148 released for inriver migration from Lower Granite Dam (Fig. 10 and Table 2). There were obvious differences in duration of passage at Jones Beach for fish from the two study groups (Fig. 11).

Respectively, the 10th, 50th, and 90th percentile travel times to Jones Beach were 1.6, 2.5, and 4.4 days for transported groups released downstream from Bonneville Dam, and 12, 16, and 23 days for inriver groups from Lower Granite Dam (Table 3). The rapid travel and lack of dispersal for transported fish relative to inriver fish resulted in an unreliable comparison of detection rates (relative survival comparisons), even for those groups passing the sampling site on the same dates.

Detection rates for transported fish were erratic, a pattern associated with their lack of dispersal and with vagaries in the daily sampling efforts. Irregular sampling was primarily due to extended efforts during diel sampling periods and lack of sampling during weekend shutdowns. For example, in daily release groups of transportation study fish having > 500 fish, we missed detection entirely for 39% of the transported groups but only 18% of the inriver groups.

### Fork Length Comparisons

We plotted fish length by week of tagging versus detection date at Jones Beach for transported and inriver fish groups (Fig. 12). There were no consistent trends between fish length

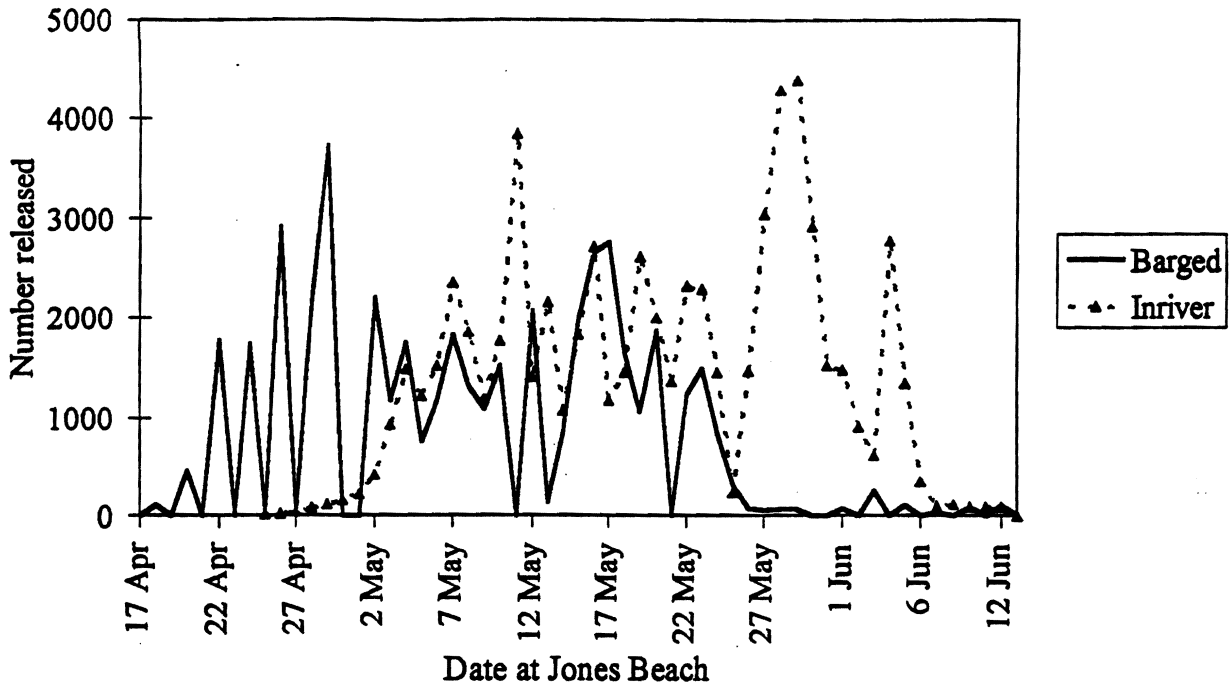


Figure 10. Number of PIT-tagged spring/summer chinook salmon released inriver at Lower Granite Dam or transported by barge to release locations downstream from Bonneville Dam for a study of fish transportation, 1996. Temporal distributions shown are adjusted to reflect estimated timing to Jones Beach.

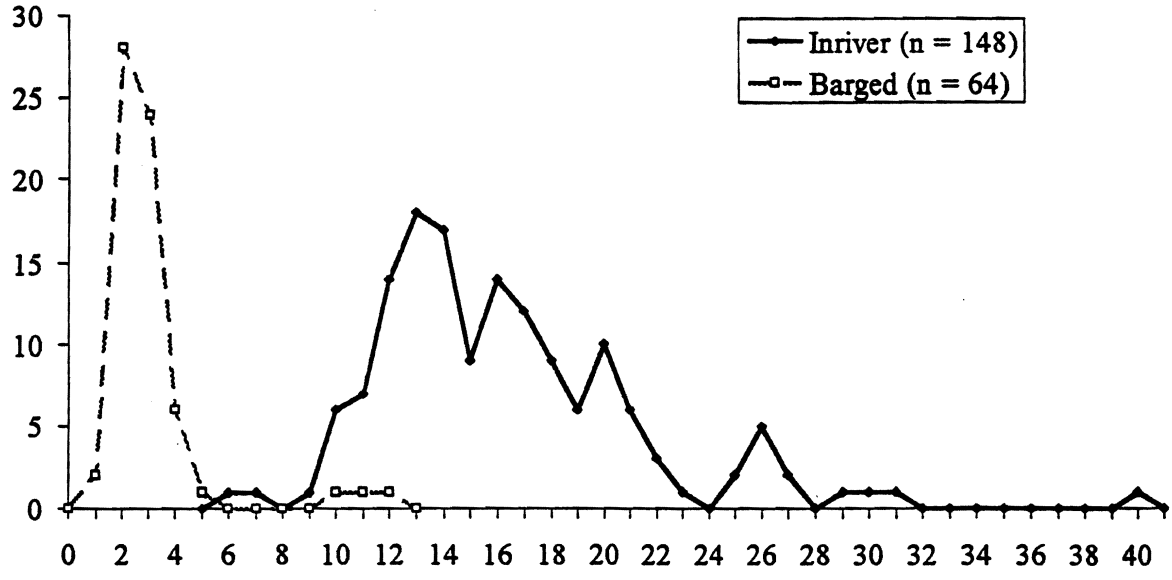


Figure 11. Duration of availability of transportation study fish at Jones Beach based on number of days post-release that fish were detected using the PIT-tag detector/trawl, 1996.

Table 2. Estuarine PIT-tag detection data for juvenile spring/summer chinook salmon released for the Snake River transportation study, 1996. Detection data is separated by rearing type history recorded at time of tagging.

A. Estuarine detection data for PIT-tagged fish transported from Lower Granite Dam and released downstream from Bonneville Dam.

| | | Rearing Type | | | |
|---|---|---|---|---|---|
| Release date/time[ab] | Detection date | Hatchery | Wild | Unknown | Total |
| 21 Apr 96/21:32 | 24 Apr 96 | | 2 | | 2 |
| 25 Apr 96/23:00 | 27 Apr 96 | 2 | | | 2 |
| 26 Apr 96/21:10 | 8 May 96 | 2 | | | 2 |
| 27 Apr 96/22:15 | 30 Apr 96 | 1 | 1 | | 2 |
| 29 Apr 96/22:15 | 2 May 96 | 1 | | | 1 |
| 29 Apr 96/22:15 | 4 May 96 | 1 | | | 1 |
| 30 Apr 96/21:15 | 2 May 96 | 3 | | | 3 |
| 30 Apr 96/21:15 | 3 May 96 | 4 | | | 4 |
| 3 May 96/23:36 | 7 May 96 | 1 | | | 1 |
| 3 May 96/23:36 | 8 May 96 | 1 | | | 1 |
| 4 May 96/21:00 | 7 May 96 | 7 | 1 | | 8 |
| 4 May 96/21:00 | 8 May 96 | 1 | | | 1 |
| 5 May 96/21:00 | 8 May 96 | 7 | | | 7 |
| 6 May 96/20:10 | 8 May 96 | 2 | | | 2 |
| 6 May 96/20:10 | 9 May 96 | 4 | | | 4 |
| 7 May 96/20:40 | 10 May 96 | 1 | | | 1 |
| 7 May 96/20:40 | 11 May 96 | 1 | | | 1 |
| 7 May 96/20:40 | 17 May 96 | 1 | | | 1 |
| 9 May 96/08:20 | 11 May 96 | 2 | | | 2 |
| 9 May 96/08:20 | 13 May 96 | 1 | | | 1 |
| 12 May 96/20:50 | 17 May 96 | 1 | | | 1 |
| 14 May 96/21:15 | 17 May 96 | 1 | | | 1 |
| 15 May 96/22:00 | 18 May 96 | 5 | | | 5 |
| 16 May 96/20:45 | 20 May 96 | 1 | | | 1 |
| 17 May 96/21:45 | 20 May 96 | 2 | | | 2 |
| 19 May 96/02:20 | 21 May 96 | 1 | | | 1 |
| 19 May 96/20:30 | 21 May 96 | 1 | | | 1 |
| 20 May 96/20:45 | 22 May 96 | 1 | | | 1 |
| 21 May 96/21:20 | 24 May 96 | 2 | | | 2 |
| 22 May 96/21:15 | 24 May 96 | | 1 | | 1 |
| 23 May 96/20:45 | 25 May 96 | | 1 | | 1 |
| Total detected | | 58 | 6 | 0 | 64 |
| Total released[c] | | 37,030 | 8,701 | 40 | 45,771 |
| Detection (%) | | 0.16 | 0.07 | 0.0 | 0.14 |

Table 2. Continued.

**B.** Estuarine detection data for PIT-tagged fish released for inriver migration downstream from Lower Granite Dam.

| | | Rearing Type | | | |
|---|---|---|---|---|---|
| Release date/time[a] | Detection Date | Hatchery | Wild | Unknown | Total |
| 12 Apr 96/11:50 | 30 Apr 96 | 1 | | | 1 |
| 16 Apr 96/10:50 | 4 May 96 | | 1 | | 1 |
| 18 Apr 96/13:15 | 2 May 96 | 1 | | | 1 |
| 18 Apr 96/13:15 | 3 May 96 | 1 | | | 1 |
| 18 Apr 96/13:15 | 4 May 96 | 1 | 1 | | 2 |
| 18 Apr 96/13:15 | 7 May 96 | | 2 | | 2 |
| 18 Apr 96/13:15 | 8 May 96 | | 2 | | 2 |
| 18 Apr 96/13:15 | 9 May 96 | | 1 | | 1 |
| 18 Apr 96/13:15 | 28 May 96 | 1 | | | 1 |
| 19 Apr 96/12:00 | 1 May 96 | 1 | | | 1 |
| 19 Apr 96/12:00 | 4 May 96 | 1 | | | 1 |
| 20 Apr 96/13:55 | 4 May 96 | | 1 | | 1 |
| 20 Apr 96/13:55 | 13 May 96 | | 1 | | 1 |
| 20 Apr 96/13:55 | 21 May 96 | | 1 | | 1 |
| 21 Apr 96/11:05 | 4 May 96 | | 3 | | 3 |
| 21 Apr 96/11:05 | 7 May 96 | | 1 | | 1 |
| 21 Apr 96/11:05 | 8 May 96 | | 1 | | 1 |
| 21 Apr 96/11:05 | 9 May 96 | | 1 | | 1 |
| 22 Apr 96/11:30 | 3 May 96 | 1 | | | 1 |
| 22 Apr 96/11:30 | 4 May 96 | | 2 | | 2 |
| 22 Apr 96/11:30 | 8 May 96 | | 1 | | 1 |
| 23 Apr 96/11:45 | 7 May 96 | 2 | 2 | | 4 |
| 23 Apr 96/11:45 | 9 May 96 | | 1 | | 1 |
| 23 Apr 96/11:45 | 20 May 96 | 1 | | | 1 |
| 24 Apr 96/13:25 | 4 May 96 | | 1 | | 1 |
| 24 Apr 96/13:25 | 7 May 96 | 2 | 1 | | 3 |
| 24 Apr 96/13:25 | 8 May 96 | 2 | 3 | | 5 |
| 24 Apr 96/13:25 | 13 May 96 | 1 | | | 1 |
| 24 Apr 96/13:25 | 20 May 96 | 2 | | | 2 |
| 24 Apr 96/13:25 | 21 May 96 | 1 | | | 1 |
| 25 Apr 96/13:00 | 2 May 96 | | 1 | | 1 |
| 25 Apr 96/13:00 | 7 May 96 | 1 | | | 1 |
| 25 Apr 96/13:00 | 8 May 96 | 2 | 2 | | 4 |
| 25 Apr 96/13:00 | 9 May 96 | 1 | | | 1 |
| 25 Apr 96/13:00 | 10 May 96 | | 1 | | 1 |
| 25 Apr 96/13:00 | 11 May 96 | 3 | | | 3 |
| 25 Apr 96/13:00 | 17 May 96 | 1 | | | 1 |
| 25 Apr 96/13:00 | 20 May 96 | 1 | | | 1 |
| 25 Apr 96/13:00 | 21 May 96 | 1 | | | 1 |
| 26 Apr 96/15:00 | 9 May 96 | | 2 | | 2 |

Table 2. Continued.

**B.** Estuarine detection data for PIT-tagged fish released for inriver migration downstream from Lower Granite Dam.

| | | Rearing Type | | | |
|---|---|---|---|---|---|
| Release date/time[a] | Detection Date | Hatchery | Wild | Unknown | Total |
| 26 Apr 96/15:00 | 21 May 96 | 1 | | | 1 |
| 27 Apr 96/14:20 | 8 May 96 | 1 | | | 1 |
| 27 Apr 96/14:20 | 18 May 96 | 1 | | | 1 |
| 29 Apr 96/10:40 | 21 May 96 | 1 | 1 | | 2 |
| 30 Apr 96/10:00 | 13 May 96 | 1 | | | 1 |
| 30 Apr 96/10:00 | 21 May 96 | 2 | | | 2 |
| 30 Apr 96/10:00 | 29 May 96 | 1 | | | 1 |
| 30 Apr 96/10:00 | 30 May 96 | 1 | | | 1 |
| 1 May 96/13:30 | 20 May 96 | 1 | | | 1 |
| 1 May 96/13:30 | 21 May 96 | 1 | | | 1 |
| 1 May 96/13:30 | 22 May 96 | 1 | | | 1 |
| 2 May 96/12:30 | 20 May 96 | 1 | | | 1 |
| 2 May 96/12:30 | 21 May 96 | 1 | | | 1 |
| 2 May 96/12:30 | 22 May 96 | 1 | | | 1 |
| 2 May 96/12:30 | 28 May 96 | | 1 | | 1 |
| 3 May 96/10:45 | 13 May 96 | 1 | | | 1 |
| 3 May 96/10:45 | 20 May 96 | 1 | | | 1 |
| 3 May 96/10:45 | 21 May 96 | 1 | | | 1 |
| 3 May 96/10:45 | 23 May 96 | 1 | | | 1 |
| 3 May 96/10:45 | 28 May 96 | 1 | | | 1 |
| 4 May 96/13:00 | 21 May 96 | 4 | | | 4 |
| 4 May 96/13:00 | 22 May 96 | 2 | | | 2 |
| 4 May 96/13:00 | 24 May 96 | 1 | | | 1 |
| 4 May 96/13:00 | 25 May 96 | 1 | | | 1 |
| 5 May 96/13:30 | 21 May 96 | 2 | | | 2 |
| 5 May 96/13:30 | 22 May 96 | 1 | | | 1 |
| 6 May 96/10:35 | 21 May 96 | 1 | | | 1 |
| 6 May 96/10:35 | 24 May 96 | | 1 | | 1 |
| 6 May 96/10:35 | 25 May 96 | 1 | | | 1 |
| 7 May 96/11:35 | 21 May 96 | 2 | | | 2 |
| 7 May 96/11:35 | 22 May 96 | 3 | | | 3 |
| 8 May 96/13:20 | 21 May 96 | 1 | | | 1 |
| 8 May 96/13:20 | 24 May 96 | 1 | | | 1 |
| 8 May 96/13:20 | 28 May 96 | 2 | | | 2 |
| 10 May 96/10:30 | 28 May 96 | 1 | | | 1 |
| 10 May 96/10:30 | 30 May 96 | 1 | | | 1 |
| 11 May 96/13:30 | 24 May 96 | 2 | | | 2 |
| 11 May 96/13:30 | 25 May 96 | 1 | | | 1 |
| 11 May 96/13:30 | 28 May 96 | 1 | | | 1 |
| 11 May 96/13:30 | 31 May 96 | 1 | | | 1 |
| 12 May 96/14:15 | 21 May 96 | 1 | | | 1 |

Table 2. Continued.

**B.** Estuarine detection data for PIT-tagged fish released for inriver migration downstream from Lower Granite Dam.

| | | Rearing Type | | | |
|---|---|---|---|---|---|
| Release date/time[a] | Detection Date | Hatchery | Wild | Unknown | Total |
| 12 May 96/14:15 | 24 May 96 | 6 | | | 6 |
| 12 May 96/14:15 | 25 May 96 | 1 | | | 1 |
| 12 May 96/14:15 | 28 May 96 | 1 | 1 | | 2 |
| 12 May 96/14:15 | 29 May 96 | 2 | | | 2 |
| 13 May 96/13:45 | 23 May 96 | 1 | | | 1 |
| 13 May 96/13:45 | 24 May 96 | | 1 | | 1 |
| 13 May 96/13:45 | 25 May 96 | 2 | | | 2 |
| 13 May 96/13:45 | 29 May 96 | 1 | | | 1 |
| 13 May 96/13:45 | 30 May 96 | 2 | | | 2 |
| 14 May 96/11:20 | 24 May 96 | 3 | | | 3 |
| 14 May 96/11:20 | 29 May 96 | 2 | | | 2 |
| 15 May 96/13:45 | 21 May 96 | 1 | | | 1 |
| 16 May 96/10:35 | 28 May 96 | | 1 | | 1 |
| 17 May 96/13:30 | 30 May 96 | 1 | | | 1 |
| 17 May 96/13:30 | 31 May 96 | 1 | | | 1 |
| 18 May 96/10:00 | 29 May 96 | 2 | | | 2 |
| 18 May 96/10:00 | 31 May 96 | 1 | | | 1 |
| 19 May 96/10:35 | 29 May 96 | 1 | | | 1 |
| 19 May 96/10:35 | 30 May 96 | 1 | | | 1 |
| 19 May 96/10:35 | 31 May 96 | 1 | | | 1 |
| Total detected | | 109 | 39 | 0 | 148 |
| Total released[c] | | 53974 | 14076 | 85 | 68135 |
| Detection (%) | | 0.2 | 0.28 | 0 | 0.22 |

a Release dates for only those releases having estuarine PIT-tag detections.

b For transported fish, release date/times were adjusted to time fish were liberated downstream from Bonneville Dam.

c Total released includes all daily releases of PIT-tagged fish, regardless of whether or not there were estuarine detections (see Appendix Table A1 for daily release totals separated by rearing type history).

Table 3. Travel time from release site to Jones Beach for PIT-tagged and radio-tagged juvenile spring/summer chinook salmon, 1996.

| Travel Time (days)[c] | Transportation study fish | | | Run-of-the-river fish at Bonneville Dam[b] | |
|---|---|---|---|---|---|
| | PIT-tag (n) | | Radio-tag (n)[a] | | |
| | Transport | Inriver | Transport | PIT-tag (n) | Radio-tag (n) |
| 1 | 2 | | 15 | 7 | 32[d] |
| 2 | 28 | | 103[d] | 13[d] | 17 |
| 3 | 24[d] | | 44 | | 6 |
| 4 | 6 | | 5 | | 1 |
| 5 | 1 | | | | |
| 6 | | 1 | | | |
| 7 | | 1 | | | |
| 8 | | | | | |
| 9 | | 1 | | | |
| 10 | 1 | 6 | | | |
| 11 | 1 | 7 | | | |
| 12 | 1 | 14 | | | |
| 13 | | 18 | | | |
| 14 | | 17 | | | |
| 15 | | 9[d] | | | |
| 16 | | 14 | | | |
| 17 | | 12 | | | |
| 18 | | 9 | | | |
| 19 | | 6 | | | |
| 20 | | 10 | | | |
| 21 | | 6 | | | |
| 22 | | 3 | | | |
| 23 | | 1 | | | |
| 24 | | | | | |
| 25 | | 2 | | | |
| 26 | | 5 | | | |
| 27 | | 2 | | | |
| 28 | | | | | |
| 29 | | 1 | | | |
| 30 | | 1 | | | |
| 31 | | 1 | | | |
| 32-39 | | | | | |
| 40 | | 1 | | | |
| Totals | 64 | 148 | 167 | 20 | 56 |

[a] Radio-tagging data courtesy of Larry Davis, Cooperative Fishery Unit, Oregon Sate University.

[b] Travel times to Jones Beach for PIT-tagged fish detected at Bonneville Dam during the study period (n = 4,530) and subsequently detected at Jones Beach (n = 20) compared to radio-tagged fish captured, tagged, and held for 24 h, and released into the bypass system at Bonneville Dam.

[c] Daily intervals are 24-hour increments, beginning at 1200.

[d] Median travel time from release to Jones Beach; travel times for transported fish adjusted to reflect the time and date fish were released downstream from Bonneville Dam.

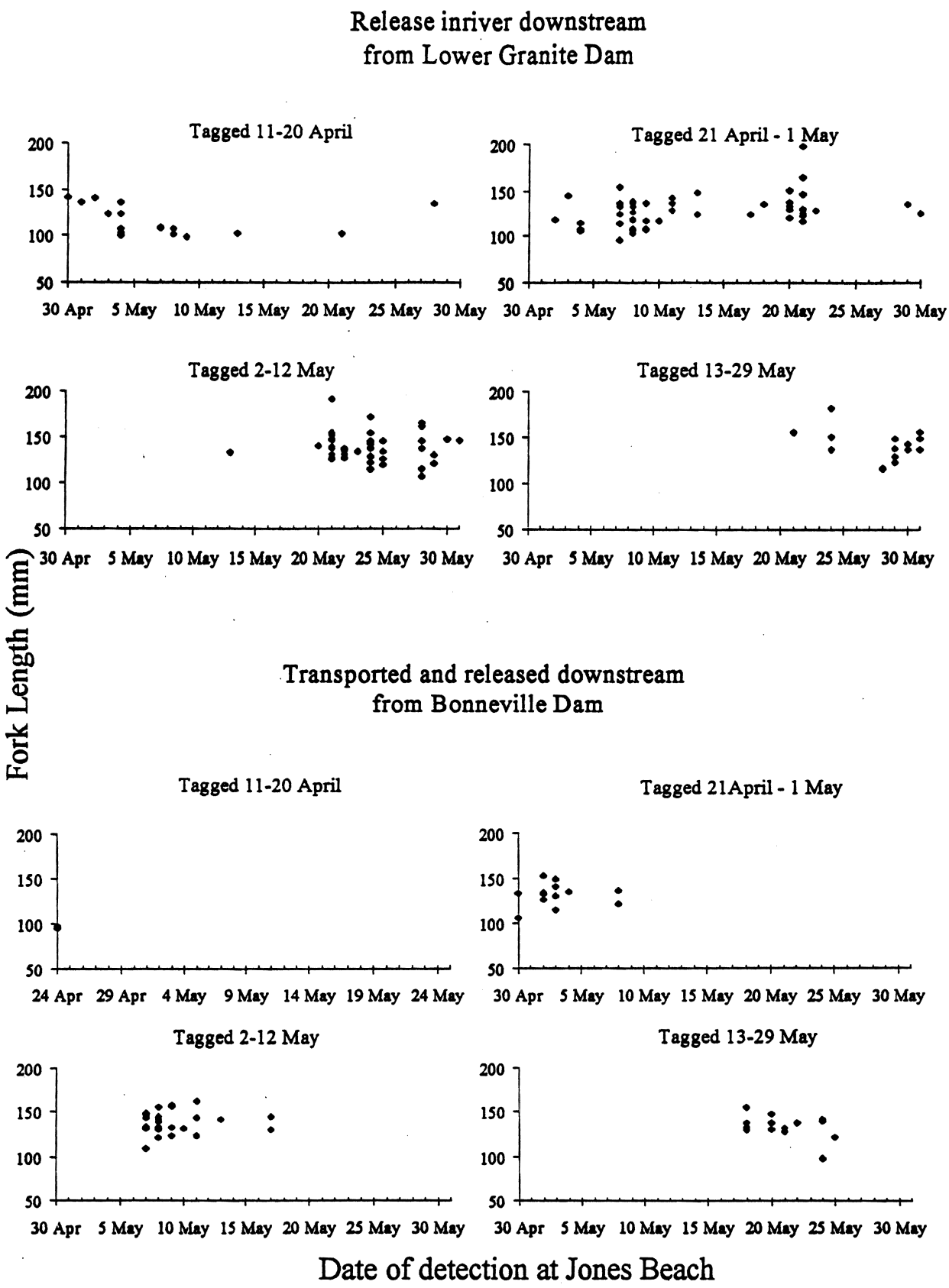


Figure 12. Lengths at time of tagging for transportation study spring/summer chinook salmon detected at Jones Beach, 1996. Data were grouped by week of tagging.

at tagging and travel time to the estuary. The possible exception was for inriver fish tagged and released 11-20 April; larger individuals arrived at Jones Beach about 7 days sooner than smaller individuals.

**Wild versus Hatchery Stock Comparisons**

There was no significant difference among detection rates based on rearing type (wild, hatchery, or unknown source) for either transported or inriver groups (P=0.13). Mean detection percentages for hatchery and wild fish were 0.16 and 0.07% for transported fish and 0.20 and 0.28% for inriver fish, respectively (Table 2).

**Radio-tagged Fish Migration versus PIT-tagged Fish Migration**

Temporal distribution of transported PIT-tagged fish was similar to that of transported radio-tagged fish (Fig. 13). Median travel times from the barge release sites downstream from Bonneville Dam to RKm 75 were 2.5 days and 2.3 days for PIT-tagged and radio-tagged fish, respectively; these differences were not significant (T=-3.38, P >0.01) (Table 3). Travel-time estimates from Bonneville Dam to the estuary were even faster for juvenile run-of-the-river chinook salmon than for fish released from barges: we estimated a median of 1.4 days for radio-tagged fish that were tagged, held for 24-h, and released and a median of 1.5 days for PIT-tagged that were detected passing Bonneville Dam and subsequently detected at Jones Beach without further handling.

**Comparative Survival Estimate**

A total of 1,246 inriver migrating PIT-tagged transportation study fish were detected passing Bonneville Dam between 1 April and 15 June (PTAGIS 1996) and 8 of these were subsequently detected at Jones Beach. By comparing the Jones Beach detection rate of inriver

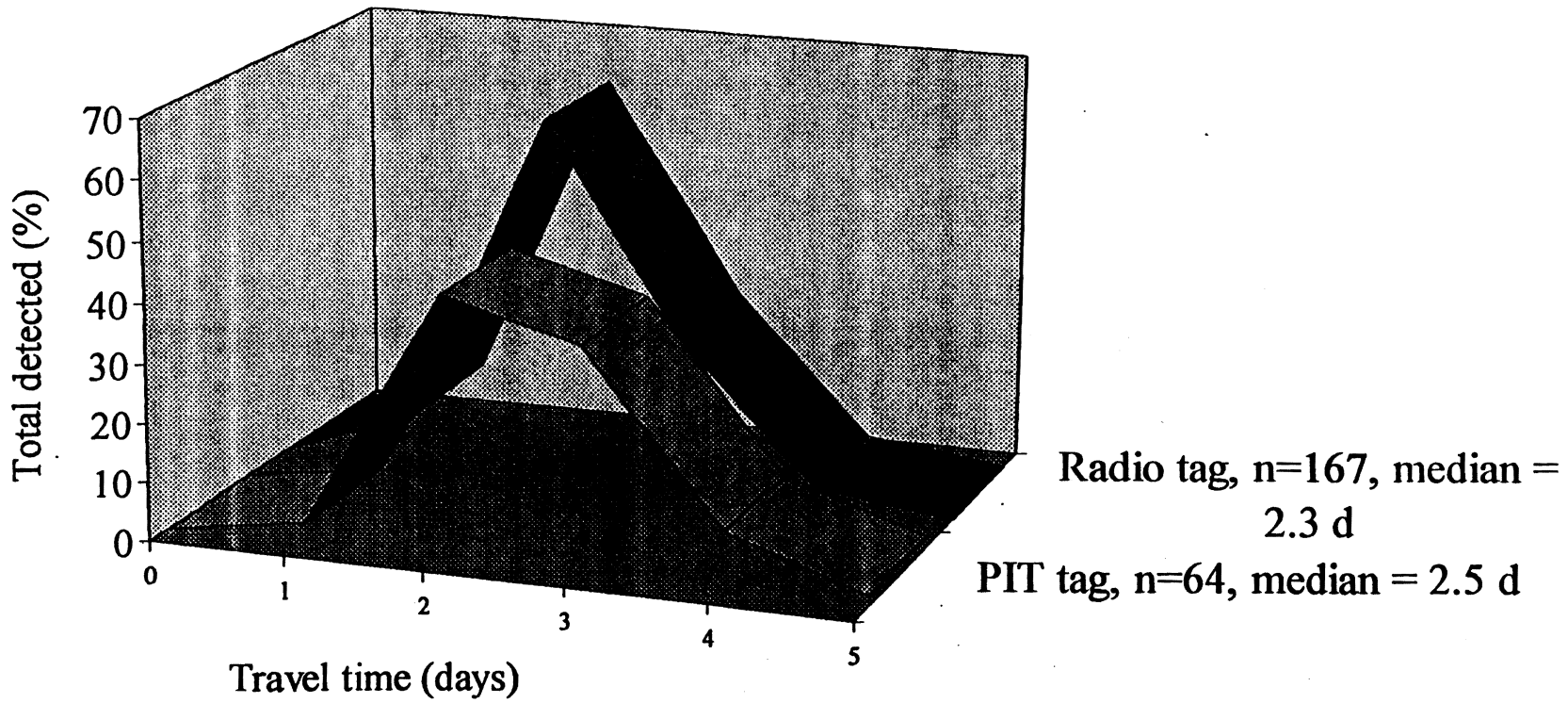


Figure 13. Travel time distributions for PIT- and radio-tagged juvenile spring/summer chinook salmon from transport barge release site (RKm 227) to Jones Beach (RKm 75), 1996.

study fish previously detected at Bonneville Dam (0.64%) with the Jones Beach detection rate of the entire inriver release group (0.22%), we estimated that survival of inriver migrants from Lower Granite Dam to Bonneville Dam was 34%. However, the number of detections was small and the 95% confidence limits on this estimate were 17 to 69%.

## Other PIT-Tagged Fish Groups

Overall, we detected 0.22% of PIT-tagged spring/summer chinook salmon and 0.20% of PIT-tagged steelhead released into the Columbia River Basin in 1996 (Fig. 14). Timing information for these non-target PIT-tagged groups is available in Appendix Table A4. There were 4 spring/summer chinook salmon groups and 2 steelhead groups having more than 20 detections in the estuary (Fig. 15). The temporal distributions presented in Figure 15 are grouped by release site and represent multiple release dates, generally between early May to early June; therefore travel speeds calculated from release site to Jones Beach represent the means for the combined releases.

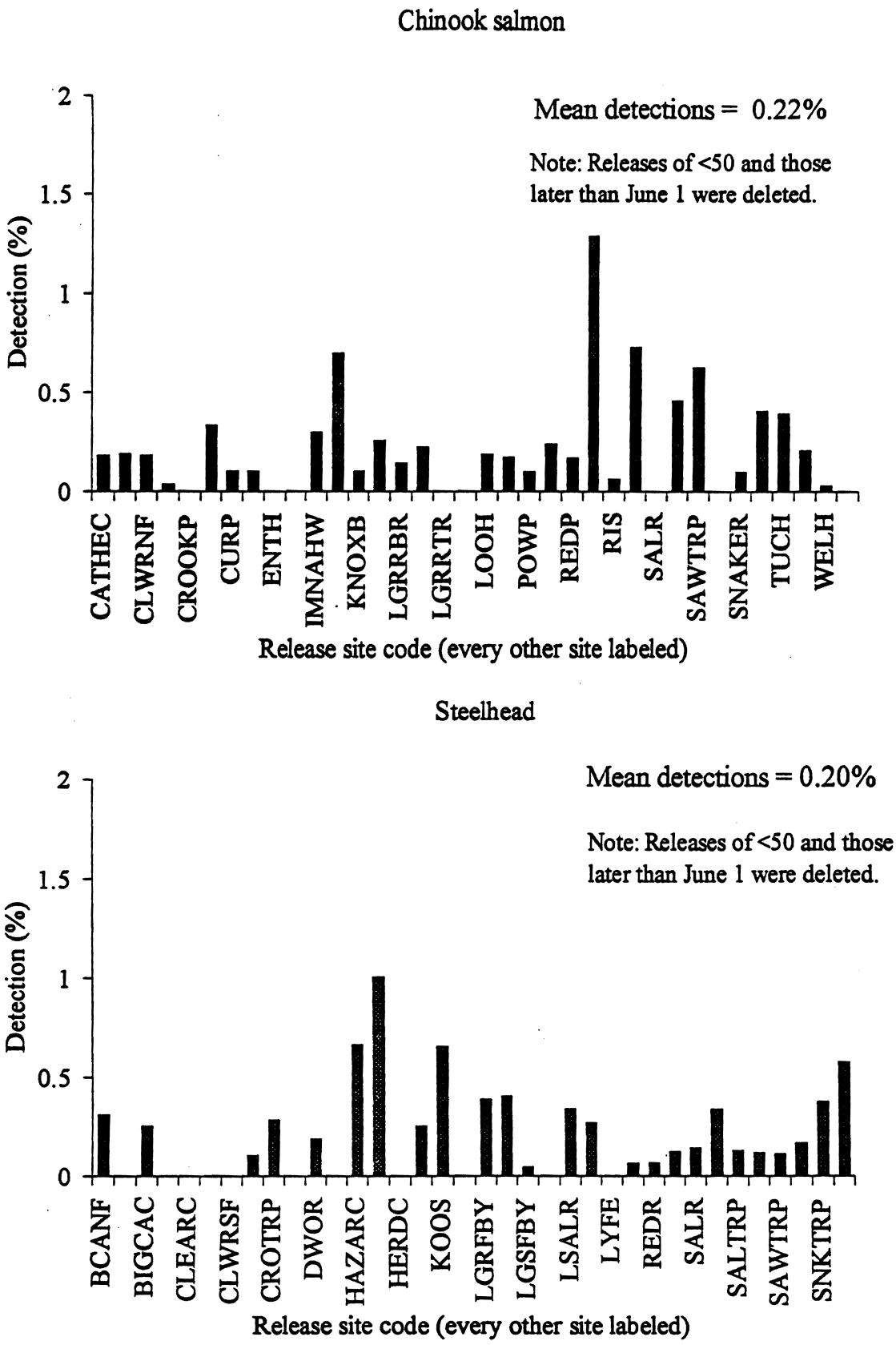


Figure 14. Overall detection rates for juvenile chinook salmon and steelhead using a PIT-tag detector/trawl at Jones Beach, 1996. Specific detection data available in Appendix Table A2; release site codes from PTAGIS database (Stein 1996).

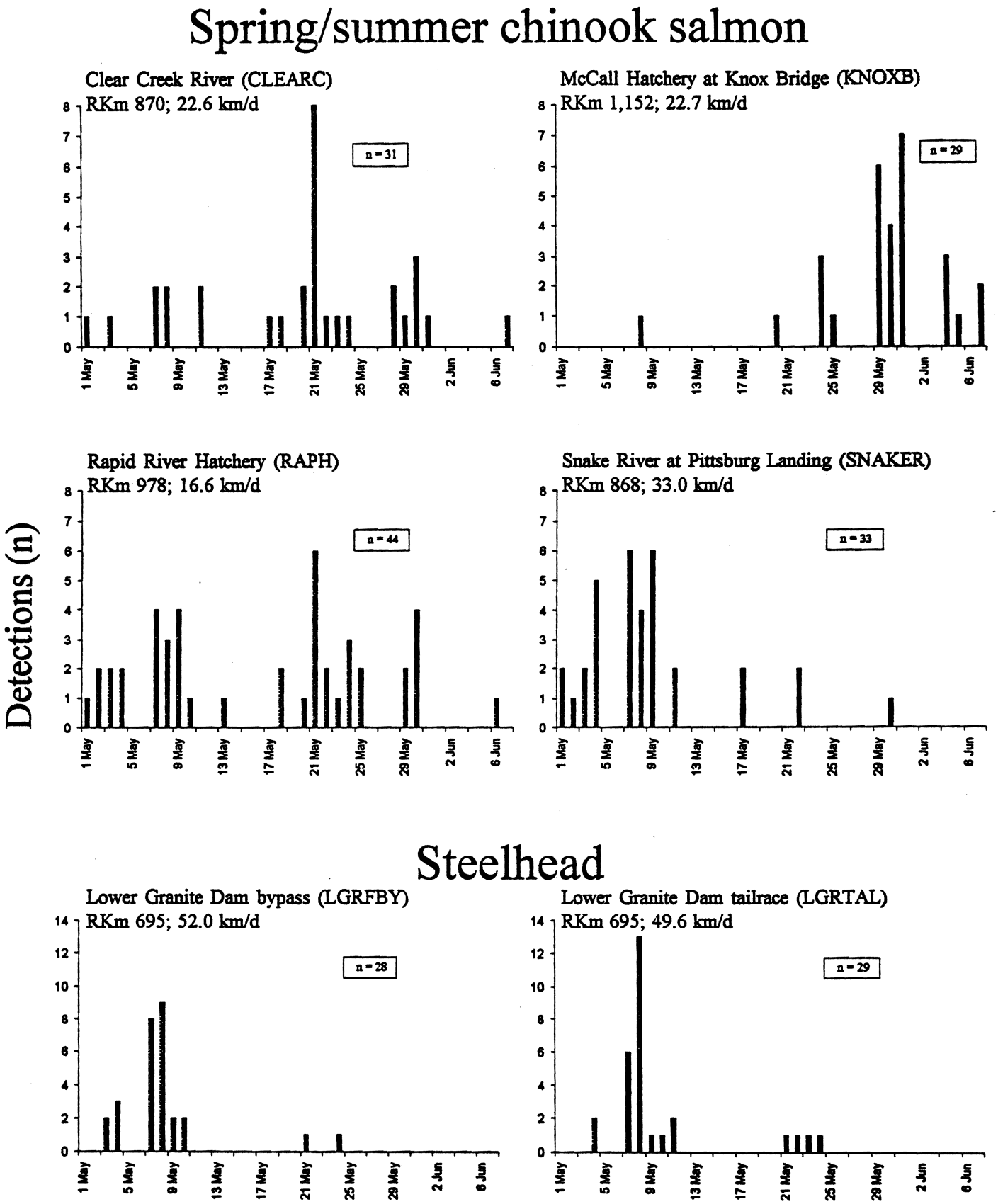


Figure 15. Temporal detection distributions and mean migration rate (km/d) for selected juvenile salmonid groups (n>20) at Jones Beach, 1996. Release site code and distance of the release site from the Columbia River mouth (RKm) from PTAGIS database (Stein 1996).

## DISCUSSION

The longer, more uniform period of availability in the estuary of fish migrating from Lower Granite Dam compared to the availability of fish transported and released downstream from Bonneville Dam probably accounts for the greater number of detections of these fish compared to transported fish. Transported fish apparently did not disperse during the 150-km migration from the Bonneville Dam release area to Jones Beach, and they also had a patchy distribution in the sampling area. These factors resulted in detection rates that were affected by the duration and time of daily sampling, and probably invalidate direct comparison of detection percentages among transportation study fish groups.

Transported fish groups arrive in the estuary, and subsequently enter the ocean, several days to weeks prior to their inriver-migrating cohorts released at Lower Granite Dam. Ocean conditions and other factors, such as degree of smoltification, often change rapidly and can affect survival and thus complicate comparisons between fish groups with different timing for ocean entrance. However, by sampling for PIT-tagged fish in the estuary, we were able to better define the timing of respective fish groups to the ocean, and this information should facilitate evaluation of subsequent adult returns.

Diel behavior comparisons between radio-tagged and PIT-tagged fish lead us to speculate that juvenile salmon and steelhead travel deeper in the water column at night. Based on earlier work, we concluded that juvenile salmonids, particularly steelhead, orient to the bottom and perhaps stop in deeper areas of the channel at night (Ledgerwood et al. 1991). Diel sampling of PIT-tagged juvenile salmonids supported this earlier conclusion of deeper orientation at night for

both yearling chinook salmon and steelhead; lower detection rates during darkness suggest that travel was deeper in the water column.

However, radio-tagging data obtained from similarly transported fish in the Jones Beach area did not indicate a decrease in migration rate for those fish at night. Radio-tagged fish apparently continue migrating in surface waters during darkness (Larry Davis, Cooperative Fishery Unit, Oregon State University, Pers. commun., July 1996).

In the next few years, improvements in PIT-tag technology are expected that will allow increased detection range and efficiency, increased size of tunnel openings, and provide for more rapid fish passage through the PIT-tag detector/trawl. These factors, when coupled with backup electronic and other equipment, should provide the ability to substantially increase detection rates in the estuary and improve assessments of timing and survival differences of PIT-tagged fish groups.

## CONCLUSIONS

1) We believe that PIT-tag interrogation data from the estuary enable partitioning of juvenile salmonid survival rates between river and ocean environments. With a more complete understanding of relative survival and timing differences between transported fish and river migrants, we may be able to identify periods or locations of increased or decreased survival. This knowledge may support management alterations such as changing the proportions of transported versus river migrating fish in association with river conditions or date, and altering hatchery release timing so that migration and ocean entry dates are optimized for the greatest overall survival.

2) Comparison of migration behavior for yearling chinook salmon using PIT- and radio-tag technologies indicated similar and rapid travel for both groups of test fish between Bonneville Dam and Jones Beach. However, there remains a discrepancy between the two types of tags in indicated behavior of test fish during darkness hours. PIT-tagged fish apparently traveled deeper in the water column at night, and thus nighttime trawling detection rates dropped. Radio-tagged fish continued to be detected at night, and thus presumably remained near the surface where their radio signals could be received.

3) Although somewhat cumbersome to deploy and retrieve, the prototype detection equipment generally worked well in 1996. Deployment/retrieval operations were slow, with each requiring about 45 minutes to accomplish. Accumulation of debris, which was excessive in 1996 due to flooding conditions, often forced us to make multiple deployments/retrievals each day to maintain an unobstructed trawl, and as a result, much sampling time was lost.

Slow towing speed and marginal detector performance at times increased the bit-shifting phenomenon which may have resulted in lost data. The presence of a pipeline dredge in the sampling area also diminished our sampling effort. However, the goal of providing supplemental observations on timing and diel behavior of PIT-tagged juvenile salmon near the mouth of the Columbia River was achieved. About 0.2% of all PIT-tags released in the basin were subsequently detected in the estuary.

## RECOMMENDATIONS

1) Continue development of a mobile PIT-tag detector that can be deployed in a pair trawl. This detector should be based on the International Standards Organization (ISO) 134.2 kHz frequency PIT-tag scheduled to replace the current 400 kHz PIT-tag system in the Columbia and Snake Rivers in 1999.

2) The discrepancy between PIT- and radio-tag technologies when evaluating nighttime swimming behaviors warrants further investigation. The possibility that juvenile salmonids travel near or stop on the bottom of the river has implications relevant to potential impacts of dredging activities on juvenile salmonids.

## ACKNOWLEDGEMENTS

We thank Jennifer Mead, PSMFC, Portland, Oregon for her assistance in obtaining information from the PTAGIS database. We thank Mike Halter, COE, Lower Granite Dam, for providing the dates, times, and locations that fish were released from transportation barges. Special thanks goes to Larry Davis, Cooperative Fishery Unit, Oregon State University, for information provided concerning the radio-tracking study and for the loan of equipment that enabled us to track radio-tagged fish in the estuary on an as-time-allows basis during the coarse of this research. We gratefully acknowledge Bud Carpenter, Jim Peacock, Susan Hinton, and Greg Preston for assistance with graphics used in this report.

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## APPENDICES

Appendix Figure 1: Diel detection patterns for chinook salmon and steelhead.

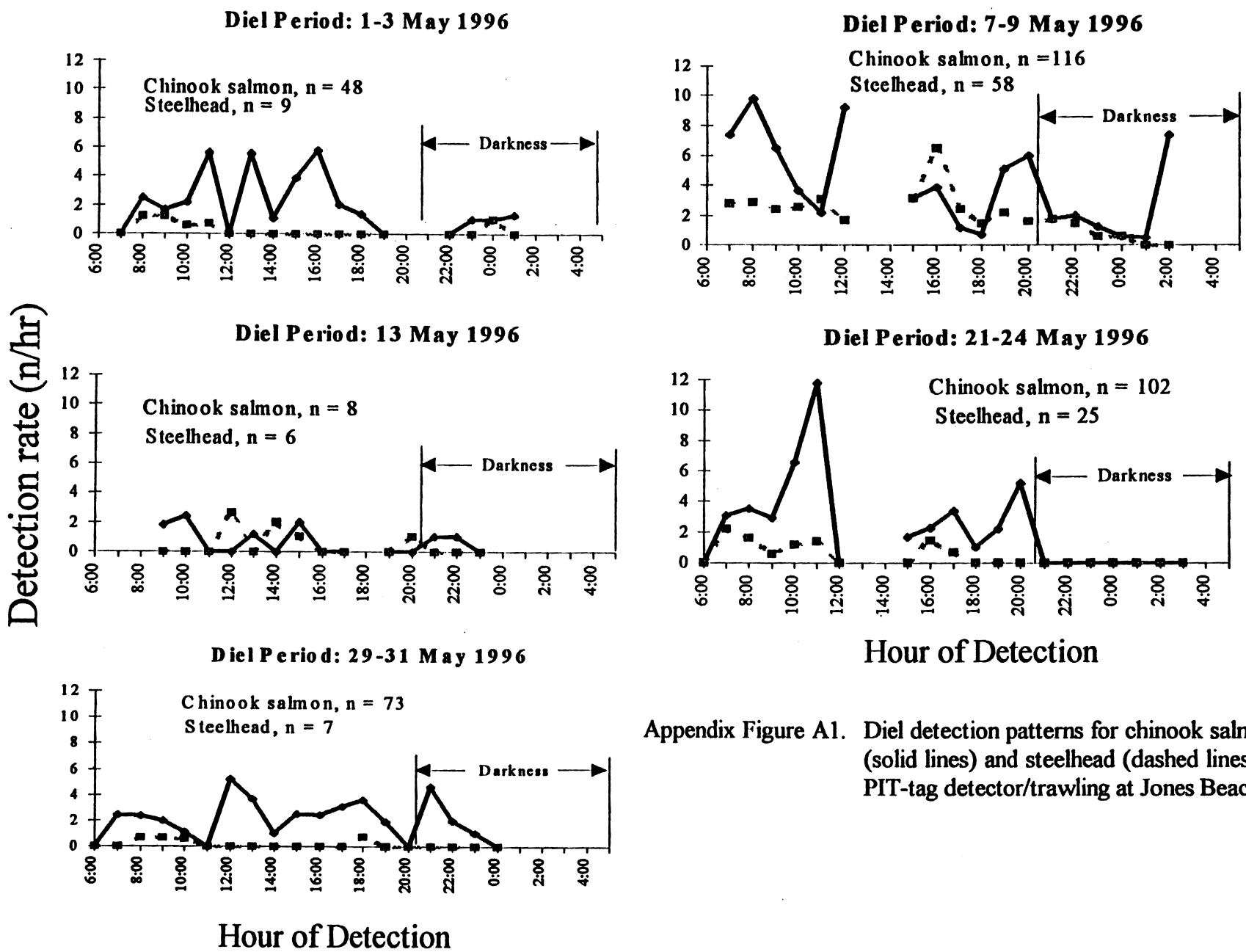
Appendix Table A1: Number and type of fish released at LGD for 1996 TS study.

Appendix Table A2: Water vilocity and net configurations at Jones Beach, 1996.

Appendix Table A3: Estuarine detection records by date and time of detection at Jones Beach.

Appendix Table A4: Estuarine detection records and their associated PITAGIS records.

Appendix Table A5: Diel sampling results.




Appendix Figure A1. Diel detection patterns for chinook salmon (solid lines) and steelhead (dashed lines) during PIT-tag detector/trawling at Jones Beach, 1996.

Appendix Table A1. Number of PIT-tagged wild, hatchery, or unknown rearing history juvenile salmon released for the transportation study, 1996. Data are grouped by species, release site, and date of release; data for barged groups adjusted for date/time that barges were emptied downstream from Bonneville Dam.

| Species 1 | Release site: LGRRBR | Wild | Hatchery | Unknown | Total |
|---|---|---|---|---|---|
| | 15 Apr 96 21:35 | 39 | 67 | | 106 |
| | 17 Apr 96 21:30 | 252 | 201 | 1 | 454 |
| | 19 Apr 96 21:30 | 912 | 858 | 1 | 1,771 |
| | 21 Apr 96 21:32 | 853 | 833 | 15 | 1,701 |
| | 23 Apr 96 21:40 | 1,347 | 1,589 | 2 | 2,938 |
| | 25 Apr 96 23:00 | 916 | 1,313 | 1 | 2,230 |
| | 26 Apr 96 21:10 | 749 | 1,377 | 5 | 2,131 |
| | 27 Apr 96 22:15 | 520 | 1,088 | 2 | 1,610 |
| | 28 Apr 96 11:00 | | | 3 | 3 |
| | 29 Apr 96 02:30 | 397 | 1,201 | | 1,598 |
| | 29 Apr 96 22:15 | 124 | 481 | 1 | 606 |
| | 30 Apr 96 21:15 | 159 | 1,009 | | 1,168 |
| | 1 May 96 21:40 | 165 | 1,588 | 2 | 1,755 |
| | 2 May 96 21:30 | 63 | 703 | | 766 |
| | 3 May 96 23:36 | 60 | 1,126 | | 1,186 |
| | 4 May 96 21:00 | 155 | 1,677 | 1 | 1,833 |
| | 5 May 96 21:00 | 83 | 1,235 | | 1,318 |
| | 6 May 96 20:10 | 70 | 1,017 | | 1,087 |
| | 7 May 96 20:40 | 96 | 1,421 | 3 | 1,520 |
| | 9 May 96 08:20 | 51 | 1,178 | | 1,229 |
| | 9 May 96 23:10 | 65 | 786 | | 851 |
| | 10 May 96 21:00 | 6 | 127 | | 133 |
| | 11 May 96 22:10 | 82 | 773 | | 855 |
| | 12 May 96 20:50 | 142 | 1,856 | 1 | 1,999 |
| | 13 May 96 21:10 | 236 | 2,430 | | 2,666 |
| | 14 May 96 21:15 | 250 | 2,515 | 1 | 2,766 |
| | 15 May 96 22:00 | 57 | 1,586 | | 1,643 |
| | 16 May 96 20:45 | 44 | 1,023 | | 1,067 |
| | 17 May 96 21:45 | 110 | 1,772 | | 1,882 |
| | 19 May 96 02:20 | 47 | 654 | | 701 |
| | 19 May 96 20:30 | 64 | 476 | | 540 |
| | 20 May 96 20:45 | 196 | 1,295 | | 1,491 |
| | 21 May 96 21:20 | 157 | 690 | | 847 |
| | 22 May 96 21:15 | 84 | 224 | | 308 |
| | 23 May 96 20:45 | 7 | 71 | | 78 |
| | 24 May 96 20:50 | 8 | 51 | | 59 |
| | 25 May 96 21:20 | 8 | 55 | | 63 |
| | 26 May 96 21:20 | 2 | 61 | | 63 |
| | 29 May 96 23:10 | 4 | 77 | | 81 |
| | 31 May 96 21:50 | 31 | 220 | | 251 |
| | 2 Jun 96 21:30 | 16 | 93 | | 109 |
| | 4 Jun 96 21:10 | 9 | 24 | 1 | 34 |
| | 6 Jun 96 21:00 | 22 | 61 | | 83 |

Table A1. Continued.

| Species | Release site code: LGRRBR | Wild | Hatchery | Unknown | Total |
|---|---|---|---|---|---|
| | 8 Jun 96 23:00 | 21 | 89 | | 110 |
| | 11 Jun 96 02:45 | 10 | 26 | | 36 |
| | 13 Jun 96 00:45 | 12 | 33 | | 45 |
| | **Subtotal:** | **8,701** | **37,030** | **40** | **45,771** |

| Species 1 | Release site: LGRRRR | Wild | Hatchery | Unknown | Total |
|---|---|---|---|---|---|
| | 9 Apr 96 12:00 | 9 | 2 | | 11 |
| | 10 Apr 96 13:00 | 15 | 12 | | 27 |
| | 11 Apr 96 11:00 | 11 | 34 | | 45 |
| | 12 Apr 96 11:50 | 21 | 54 | | 75 |
| | 13 Apr 96 13:30 | 47 | 68 | 1 | 116 |
| | 14 Apr 96 11:05 | 63 | 94 | | 157 |
| | 15 Apr 96 12:00 | 115 | 93 | | 208 |
| | 16 Apr 96 10:50 | 204 | 202 | 1 | 407 |
| | 17 Apr 96 10:45 | 506 | 419 | 4 | 929 |
| | 18 Apr 96 13:15 | 756 | 725 | | 1,481 |
| | 19 Apr 96 12:00 | 595 | 616 | 1 | 1,212 |
| | 20 Apr 96 13:55 | 962 | 554 | 4 | 1,520 |
| | 21 Apr 96 11:05 | 1,470 | 888 | 8 | 2,366 |
| | 22 Apr 96 11:30 | 1,173 | 687 | | 1,860 |
| | 23 Apr 96 11:45 | 587 | 597 | 1 | 1,185 |
| | 24 Apr 96 13:25 | 625 | 1,139 | 2 | 1,766 |
| | 25 Apr 96 13:00 | 1,064 | 1,885 | | 2,949 |
| | 26 Apr 96 15:00 | 819 | 1,484 | 4 | 2,307 |
| | 27 Apr 96 14:20 | 586 | 1,570 | 8 | 2,164 |
| | 28 Apr 96 12:00 | 320 | 736 | 13 | 1,069 |
| | 29 Apr 96 10:40 | 229 | 1,604 | 5 | 1,838 |
| | 30 Apr 96 10:00 | 321 | 2,393 | 5 | 2,719 |
| | 1 May 96 13:30 | 90 | 1,087 | | 1,177 |
| | 2 May 96 12:30 | 148 | 1,296 | | 1,444 |
| | 3 May 96 10:45 | 212 | 2,405 | 2 | 2,619 |
| | 4 May 96 13:00 | 153 | 1,860 | | 2,013 |
| | 5 May 96 13:30 | 102 | 1,258 | | 1,360 |
| | 6 May 96 10:35 | 171 | 2,165 | 1 | 2,337 |
| | 7 May 96 11:35 | 118 | 2,179 | 1 | 2,298 |
| | 8 May 96 13:20 | 113 | 1,337 | | 1,450 |
| | 9 May 96 10:15 | 12 | 221 | | 233 |
| | 10 May 96 10:30 | 115 | 1,347 | 1 | 1,463 |
| | 11 May 96 13:30 | 222 | 2,825 | | 3,047 |
| | 12 May 96 14:15 | 302 | 3,985 | | 4,287 |
| | 13 May 96 13:45 | 371 | 4,015 | 2 | 4,388 |
| | 14 May 96 11:20 | 126 | 2,776 | 16 | 2,918 |
| | 15 May 96 13:45 | 89 | 1,427 | | 1,516 |
| | 16 May 96 10:35 | 71 | 1,395 | | 1,466 |
| | 17 May 96 13:30 | 74 | 838 | | 912 |
| | 18 May 96 10:00 | 67 | 541 | | 608 |
| | 19 May 96 10:35 | 458 | 2,317 | 5 | 2,780 |

Table A1. Continued.

| Species | Release site code: LGRRRR | Wild | Hatchery | Unknown | Total |
|---|---|---|---|---|---|
| | 20 May 96 10:20 | 217 | 1,124 | | 1,341 |
| | 21 May 96 14:50 | 104 | 236 | | 340 |
| | 22 May 96 11:50 | 12 | 89 | | 101 |
| | 23 May 96 11:55 | 9 | 97 | | 106 |
| | 24 May 96 13:45 | 8 | 75 | | 83 |
| | 25 May 96 13:05 | 7 | 79 | | 86 |
| | 26 May 96 10:15 | 10 | 79 | | 89 |
| | 28 May 96 13:15 | 3 | 56 | | 59 |
| | 29 May 96 11:20 | 4 | 68 | | 72 |
| | 30 May 96 12:20 | 14 | 189 | | 203 |
| | 31 May 96 13:05 | 24 | 157 | | 181 |
| | 1 Jun 96 12:00 | 19 | 92 | | 111 |
| | 2 Jun 96 12:50 | 10 | 56 | | 66 |
| | 4 Jun 96 11:00 | 8 | 46 | | 54 |
| | 5 Jun 96 11:45 | 11 | 47 | | 58 |
| | 6 Jun 96 13:25 | 13 | 57 | | 70 |
| | 7 Jun 96 10:45 | 11 | 55 | | 66 |
| | 8 Jun 96 10:25 | 20 | 68 | | 88 |
| | 9 Jun 96 10:30 | 6 | 51 | | 57 |
| | 11 Jun 96 10:30 | 6 | 25 | | 31 |
| | 12 Jun 96 12:00 | 10 | 22 | | 32 |
| | 13 Jun 96 13:25 | 11 | 10 | | 21 |
| | 14 Jun 96 11:10 | 8 | 24 | | 32 |
| | 15 Jun 96 10:05 | 8 | 12 | | 20 |
| | 16 Jun 96 13:00 | 4 | 6 | | 10 |
| | 18 Jun 96 11:50 | 5 | 11 | | 16 |
| | 19 Jun 96 10:00 | 2 | 13 | | 15 |
| | **Subtotal:** | **14,076** | **53,974** | **85** | **68,135** |
| Species 1 | Release site: LGRRTR | Wild | Hatchery | Unknown | Total |
| | 9 Apr 96 10:00 | 4 | 2 | | 6 |
| | 10 Apr 96 10:00 | 19 | 28 | | 47 |
| | 12 Apr 96 10:00 | 50 | 76 | | 126 |
| | 13 Jun 96 10:00 | 9 | 27 | | 36 |
| | 15 Jun 96 10:00 | 4 | 15 | | 19 |
| | 17 Jun 96 10:00 | 3 | 8 | | 11 |
| | 19 Jun 96 10:00 | 3 | 7 | | 10 |
| | **Subtotal:** | **92** | **163** | | **255** |
| **Total this species: 1** | | **22,869** | **91,167** | **125** | **114,161** |

Appendix Table A2. Measurements of water velocity[a] measured at various locations and net configurations of the detector/trawl at Jones Beach, 1996.

| Date | Configuration[b] | Velocity (knots) Minimum | Average | Maximum | N | Trawl |
|---|---|---|---|---|---|---|
| 7 Jun 96 | Trawl open | 0.98 | 1.16 | 1.50 | 26 | Full size |
| 7 Jun 96 | Trawl closed | 1.29 | 1.53 | 2.33 | 13 | Full size |
| 12 Jun 96 | Trawl open | 1.24 | 1.38 | 1.59 | 23 | Half size |
| 12 Jun 96 | Trawl closed | 1.85 | 2.40 | 2.89 | 33 | Half size |
| 12 Jun 96 | Exit open | 1.12 | 1.56 | 1.78 | 24 | Half size |
| 12 Jun 96 | Exit closed | 1.93 | 2.07 | 2.15 | 11 | Half size |

[a] Measurements made at 0.5m to 1.0m depths using a Swoffer model 4643 velocity meter. Velocity measurements for the full-size and half-size trawls were obtained from a skiff attached to the spreader line between the two net wings.

[b] Trawl open = wings fully spread into the current in fishing position.
Trawl closed = wings closed to within about 7m for flushing fish through the detector.
Exit open = measurement taken at the detector exit, net in fishing position
Exit closed = measurement taken at the detector exit, net in flushing position.

Appendix Table A3. PIT-tag detection records by recovery date and time, Jones Beach, Columbia River Kilometer 75, 1996. This dataset includes PIT-tag records resulting from "bit-shifts" and some duplicate recordings.

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Colls | Site code | Species code | Date | Record status | Entry no. |
| 24 Apr 96 | 9:05:14 PM | 4131376902 | 14 | 20 | LORRBR | 1 | 21 Apr 96 | | 2 |
| 24 Apr 96 | 9:14:07 PM | 7F7E6A3C40 | 03 | 22 | PKELLY | 3 | 22 May 89 | BS | 3 |
| 24 Apr 96 | 9:14:07 PM | 7F7E6A3C4F | 12 | 22 12 | DUMMY | | 1 Jan 00 | | 4 |
| 24 Apr 96 | 9:14:24 PM | 7F7E4E3B0D | 93 | 22 | DUMMY | | 1 Jan 00 | | 5 |
| 24 Apr 96 | 9:14:27 PM | 7F7E4E3B0D | 93 | 12 | DUMMY | | 1 Jan 00 | D | 6 |
| 24 Apr 96 | 9:15:02 PM | 7F7E6A3C4F | 12 | 20 10 | DUMMY | | 1 Jan 00 | D | 7 |
| 24 Apr 96 | 9:15:23 PM | 7F7E4E3B0D | 93 | 20 10 | DUMMY | | 1 Jan 00 | D | 8 |
| 24 Apr 96 | 9:15:23 PM | 7F7E0E3B0D | 53 | 20 | DUMMY | | 1 Jan 00 | | 9 |
| 24 Apr 96 | 9:15:27 PM | 7F7E4E3B0D | 93 | 20 | DUMMY | | 1 Jan 00 | D | 10 |
| 24 Apr 96 | 9:15:46 PM | 7F7E6A3C4F | 12 | 22 12 | DUMMY | | 1 Jan 00 | D | 11 |
| 24 Apr 96 | 9:15:59 PM | 7F7E4E3B0D | 93 | 22 12 | DUMMY | | 1 Jan 00 | D | 12 |
| 24 Apr 96 | 9:16:28 PM | 7F7E6A3C4F | 12 | 20 10 | DUMMY | | 1 Jan 00 | D | 13 |
| 24 Apr 96 | 9:16:37 PM | 7F7E4E3B0D | 93 | 20 10 | DUMMY | | 1 Jan 00 | D | 14 |
| 24 Apr 96 | 11:09:22 PM | 4167496718 | 70 | 22 | LORRBR | 1 | 21 Apr 96 | | 15 |
| 24 Apr 96 | 11:15:35 PM | 7F7E4E3B0D | 93 | 20 | DUMMY | | 1 Jan 00 | D | 16 |
| 24 Apr 96 | 11:15:40 PM | 7F7E4E3B0D | 93 | 10 | DUMMY | | 1 Jan 00 | D | 17 |
| 24 Apr 96 | 11:15:50 PM | 7F7E6A3C4F | 12 | 22 12 | DUMMY | | 1 Jan 00 | D | 18 |
| 24 Apr 96 | 11:15:57 PM | 7F7E6A3C40 | 03 | 22 | PKELLY | 3 | 22 May 89 | BS | 19 |
| 24 Apr 96 | 11:15:57 PM | 7F7E6A3C4F | 12 | 22 | DUMMY | | 1 Jan 00 | D | 20 |
| 24 Apr 96 | 11:16:48 PM | 7F7E4E3B0D | 93 | 22 | DUMMY | | 1 Jan 00 | D | 21 |
| 24 Apr 96 | 11:16:51 PM | 7F7E4E3B0D | 93 | 12 | DUMMY | | 1 Jan 00 | D | 22 |
| 24 Apr 96 | 11:16:56 PM | 7F7E6A3C4F | 12 | 22 | DUMMY | | 1 Jan 00 | D | 23 |
| 24 Apr 96 | 11:16:59 PM | 7F7E6A3C4F | 12 | 12 | DUMMY | | 1 Jan 00 | D | 24 |
| 25 Apr 96 | 13:19:56 PM | 7F7E4E3B0D | 93 | | DUMMY | | 1 Jan 00 | D | 25 |
| 25 Apr 96 | 13:20:11 PM | 7F7E4E3B0D | 93 | | DUMMY | | 1 Jan 00 | D | 26 |
| 25 Apr 96 | 13:20:24 PM | 7F7E6A3C4F | 12 | | DUMMY | | 1 Jan 00 | D | 27 |
| 25 Apr 96 | 13:21:29 PM | 7F7E6A3C4F | 12 | | DUMMY | | 1 Jan 00 | D | 28 |
| 25 Apr 96 | 13:21:41 PM | 7F7E4E3B0D | 93 | | DUMMY | | 1 Jan 00 | D | 29 |
| 25 Apr 96 | 13:23:07 PM | 7F7E4D231C | 89 | | DUMMY | | 1 Jan 00 | | 30 |
| 26 Apr 96 | 6:58:44 PM | 7F7E4E1A12 | 77 | 10 20 | DUMMY | | 1 Jan 00 | | 31 |
| 26 Apr 96 | 7:26:57 PM | 1F667308B7D | 80 | 10 | PAHTRP | 1 | 11 Oct 95 | | 32 |
| 26 Apr 96 | 7:27:05 PM | 1F667308B7D | 80 | 20 | PAHTRP | 1 | 11 Oct 95 | D | 33 |
| 26 Apr 96 | 7:28:26 PM | 7F7E4E1A12 | 77 | 10 20 | DUMMY | | 1 Jan 00 | D | 34 |
| 26 Apr 96 | 7:58:26 PM | 7F7E4E1A12 | 77 | 10 20 | DUMMY | | 1 Jan 00 | D | 1577 |
| 26 Apr 96 | 7:59:21 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | | 1578 |
| 26 Apr 96 | 7:59:27 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | | 1579 |
| 26 Apr 96 | 7:59:27 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1580 |
| 26 Apr 96 | 7:59:43 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1581 |
| 26 Apr 96 | 7:59:43 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1582 |
| 26 Apr 96 | 7:59:47 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1583 |
| 26 Apr 96 | 7:59:47 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1584 |
| 26 Apr 96 | 7:59:50 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1585 |
| 26 Apr 96 | 7:59:50 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1586 |
| 26 Apr 96 | 7:59:51 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | | 1587 |
| 26 Apr 96 | 8:00:07 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1588 |
| 26 Apr 96 | 8:00:07 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1589 |
| 26 Apr 96 | 8:00:11 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1591 |
| 26 Apr 96 | 8:00:11 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1590 |
| 26 Apr 96 | 8:00:29 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1592 |
| 26 Apr 96 | 8:00:29 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1593 |
| 26 Apr 96 | 8:00:34 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1594 |
| 26 Apr 96 | 8:00:34 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1595 |
| 26 Apr 96 | 8:00:47 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1596 |
| 26 Apr 96 | 8:00:47 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1597 |
| 26 Apr 96 | 8:00:55 PM | 20440B2908 | A0 | 12 | DUMMY | | 1 Jan 00 | | 1598 |
| 26 Apr 96 | 8:00:55 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1599 |
| 26 Apr 96 | 8:00:57 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1600 |
| 26 Apr 96 | 8:01:01 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1601 |
| 26 Apr 96 | 8:01:01 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1602 |
| 26 Apr 96 | 8:01:04 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1603 |
| 26 Apr 96 | 8:01:04 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1604 |
| 26 Apr 96 | 8:01:11 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1605 |
| 26 Apr 96 | 8:01:11 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1606 |
| 26 Apr 96 | 8:01:15 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1607 |
| 26 Apr 96 | 8:01:15 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1608 |
| 26 Apr 96 | 8:01:17 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | BS | 1609 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Colls | Site code | Species code | Date | Record status | Entry no. |
| 26 Apr 96 | 8:01:20 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1610 |
| 26 Apr 96 | 8:01:20 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1611 |
| 26 Apr 96 | 8:01:24 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1612 |
| 26 Apr 96 | 8:01:24 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1613 |
| 26 Apr 96 | 8:01:29 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1614 |
| 26 Apr 96 | 8:01:29 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1615 |
| 26 Apr 96 | 8:01:33 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1616 |
| 26 Apr 96 | 8:01:33 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1617 |
| 26 Apr 96 | 8:01:44 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1618 |
| 26 Apr 96 | 8:01:44 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1619 |
| 26 Apr 96 | 8:01:47 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1620 |
| 26 Apr 96 | 8:01:47 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1621 |
| 26 Apr 96 | 8:01:50 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1622 |
| 26 Apr 96 | 8:01:50 PM | 23446B2908 | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1623 |
| 26 Apr 96 | 8:01:50 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1624 |
| 26 Apr 96 | 8:01:53 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1625 |
| 26 Apr 96 | 8:01:59 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1626 |
| 26 Apr 96 | 8:01:59 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1627 |
| 26 Apr 96 | 8:02:02 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1628 |
| 26 Apr 96 | 8:02:04 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1629 |
| 26 Apr 96 | 8:02:05 PM | 20446B2F08 | 06 | 12 | DUMMY | | 1 Jan 00 | | 1630 |
| 26 Apr 96 | 8:02:07 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1631 |
| 26 Apr 96 | 8:02:07 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1632 |
| 26 Apr 96 | 8:02:08 PM | 20446B297F | 77 | 12 | DUMMY | | 1 Jan 00 | | 1633 |
| 26 Apr 96 | 8:02:10 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1634 |
| 26 Apr 96 | 8:02:10 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1635 |
| 26 Apr 96 | 8:02:11 PM | 20486B2908 | 04 | 12 | DUMMY | | 1 Jan 00 | | 1636 |
| 26 Apr 96 | 8:03:37 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1637 |
| 26 Apr 96 | 8:03:37 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1638 |
| 26 Apr 96 | 8:03:49 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1639 |
| 26 Apr 96 | 8:03:49 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1640 |
| 26 Apr 96 | 8:03:58 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1642 |
| 26 Apr 96 | 8:03:58 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1641 |
| 26 Apr 96 | 8:04:01 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1644 |
| 26 Apr 96 | 8:04:01 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1643 |
| 26 Apr 96 | 8:04:05 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1645 |
| 26 Apr 96 | 8:04:05 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1646 |
| 26 Apr 96 | 8:04:12 PM | 20440B2908 | A0 | 12 | DUMMY | | 1 Jan 00 | BS | 1647 |
| 26 Apr 96 | 8:04:12 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1648 |
| 26 Apr 96 | 8:04:14 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1649 |
| 26 Apr 96 | 8:04:15 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1650 |
| 26 Apr 96 | 8:04:17 PM | 20446B2908 | FD | 12 | DUMMY | | 1 Jan 00 | | 1651 |
| 26 Apr 96 | 8:04:17 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1652 |
| 26 Apr 96 | 8:04:22 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1654 |
| 26 Apr 96 | 8:04:22 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1653 |
| 26 Apr 96 | 8:04:25 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1655 |
| 26 Apr 96 | 8:04:25 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1656 |
| 26 Apr 96 | 8:04:33 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1657 |
| 26 Apr 96 | 8:04:33 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1658 |
| 26 Apr 96 | 8:04:36 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | BS | 1659 |
| 26 Apr 96 | 8:04:36 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1660 |
| 26 Apr 96 | 8:04:40 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1661 |
| 26 Apr 96 | 8:04:40 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1662 |
| 26 Apr 96 | 8:04:56 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1663 |
| 26 Apr 96 | 8:04:57 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1664 |
| 26 Apr 96 | 8:04:57 PM | 20446B4908 | 20 | 12 | DUMMY | | 1 Jan 00 | | 1665 |
| 26 Apr 96 | 8:04:59 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1666 |
| 26 Apr 96 | 8:05:01 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1667 |
| 26 Apr 96 | 8:05:02 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1668 |
| 26 Apr 96 | 8:05:12 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1669 |
| 26 Apr 96 | 8:05:12 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1670 |
| 26 Apr 96 | 8:05:22 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1671 |
| 26 Apr 96 | 8:05:22 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1672 |
| 26 Apr 96 | 8:05:43 PM | 20446B2A08 | 01 | 12 | DUMMY | | 1 Jan 00 | | 1673 |
| 26 Apr 96 | 8:05:44 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1674 |
| 26 Apr 96 | 8:05:45 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1676 |
| 26 Apr 96 | 8:05:45 PM | 20446B6908 | 40 | 12 | DUMMY | | 1 Jan 00 | | 1675 |
| 26 Apr 96 | 8:05:47 PM | 20440B2908 | A0 | 12 | DUMMY | | 1 Jan 00 | BS | 1677 |
| 26 Apr 96 | 8:05:47 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1678 |
| 26 Apr 96 | 8:05:52 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1679 |
| 26 Apr 96 | 8:05:53 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1680 |
| 26 Apr 96 | 8:05:59 PM | 20474B2908 | E3 | 12 | DUMMY | | 1 Jan 00 | | 1681 |
| 26 Apr 96 | 8:05:59 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1682 |
| 26 Apr 96 | 8:06:20 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1683 |
| 26 Apr 96 | 8:06:20 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1684 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 26 Apr 96 | 8:06:21 PM | 20446B6908 | 40 | 12 | DUMMY | | 1 Jan 00 | BS | 1685 |
| 26 Apr 96 | 8:06:25 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1687 |
| 26 Apr 96 | 8:06:25 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1686 |
| 26 Apr 96 | 8:06:28 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1688 |
| 26 Apr 96 | 8:06:30 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1689 |
| 26 Apr 96 | 8:06:40 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1690 |
| 26 Apr 96 | 8:06:40 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1691 |
| 26 Apr 96 | 8:06:40 PM | 20474B2908 | E3 | 12 | DUMMY | | 1 Jan 00 | BS | 1692 |
| 26 Apr 96 | 8:06:44 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1693 |
| 26 Apr 96 | 8:06:44 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1694 |
| 26 Apr 96 | 8:06:54 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 1695 |
| 26 Apr 96 | 8:06:54 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 1696 |
| 26 Apr 96 | 8:07:08 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1698 |
| 26 Apr 96 | 8:07:08 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1697 |
| 26 Apr 96 | 8:07:13 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1699 |
| 26 Apr 96 | 8:07:13 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1700 |
| 26 Apr 96 | 8:07:22 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1701 |
| 26 Apr 96 | 8:07:23 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1702 |
| 26 Apr 96 | 8:07:35 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1703 |
| 26 Apr 96 | 8:07:37 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 1704 |
| 26 Apr 96 | 8:07:42 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 1705 |
| 26 Apr 96 | 8:12:44 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 35 |
| 26 Apr 96 | 8:12:48 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 37 |
| 26 Apr 96 | 8:12:48 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 36 |
| 26 Apr 96 | 8:12:51 PM | 20446B2938 | 30 | 12 | DUMMY | | 1 Jan 00 | | 38 |
| 26 Apr 96 | 8:12:51 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 39 |
| 26 Apr 96 | 8:12:55 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 40 |
| 26 Apr 96 | 8:12:55 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 41 |
| 26 Apr 96 | 8:13:27 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 42 |
| 26 Apr 96 | 8:13:27 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 43 |
| 26 Apr 96 | 8:13:30 PM | 20440B2908 | A0 | 12 | DUMMY | | 1 Jan 00 | BS | 44 |
| 26 Apr 96 | 8:13:31 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 45 |
| 26 Apr 96 | 8:13:31 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 46 |
| 26 Apr 96 | 8:13:39 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 47 |
| 26 Apr 96 | 8:13:39 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 48 |
| 26 Apr 96 | 8:13:49 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 49 |
| 26 Apr 96 | 8:13:49 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 50 |
| 26 Apr 96 | 8:13:52 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | BS | 51 |
| 26 Apr 96 | 8:13:52 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 52 |
| 26 Apr 96 | 8:13:53 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 53 |
| 26 Apr 96 | 8:14:00 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 54 |
| 26 Apr 96 | 8:14:00 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 55 |
| 26 Apr 96 | 8:14:05 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 56 |
| 26 Apr 96 | 8:14:05 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 57 |
| 26 Apr 96 | 8:14:11 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 59 |
| 26 Apr 96 | 8:14:11 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 58 |
| 26 Apr 96 | 8:14:14 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 60 |
| 26 Apr 96 | 8:14:15 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 61 |
| 26 Apr 96 | 8:14:17 PM | 20446B6908 | 40 | 12 | DUMMY | | 1 Jan 00 | BS | 62 |
| 26 Apr 96 | 8:14:18 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 63 |
| 26 Apr 96 | 8:14:18 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 64 |
| 26 Apr 96 | 8:14:21 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 65 |
| 26 Apr 96 | 8:14:21 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 66 |
| 26 Apr 96 | 8:14:25 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 67 |
| 26 Apr 96 | 8:14:25 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 68 |
| 26 Apr 96 | 8:14:30 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 70 |
| 26 Apr 96 | 8:14:30 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 69 |
| 26 Apr 96 | 8:14:33 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 72 |
| 26 Apr 96 | 8:14:33 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 71 |
| 26 Apr 96 | 8:14:40 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 73 |
| 26 Apr 96 | 8:14:40 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 74 |
| 26 Apr 96 | 8:14:55 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 75 |
| 26 Apr 96 | 8:14:55 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 76 |
| 26 Apr 96 | 8:15:11 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 77 |
| 26 Apr 96 | 8:15:11 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 78 |
| 26 Apr 96 | 8:15:23 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 79 |
| 26 Apr 96 | 8:15:23 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 80 |
| 26 Apr 96 | 8:15:29 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 82 |
| 26 Apr 96 | 8:15:29 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 81 |
| 26 Apr 96 | 8:15:32 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 83 |
| 26 Apr 96 | 8:15:32 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 84 |
| 26 Apr 96 | 8:15:39 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 85 |
| 26 Apr 96 | 8:15:39 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 86 |
| 26 Apr 96 | 8:15:45 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 87 |
| 26 Apr 96 | 8:15:45 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 88 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 26 Apr 96 | 8:15:49 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 89 |
| 26 Apr 96 | 8:15:49 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 90 |
| 26 Apr 96 | 8:15:52 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 92 |
| 26 Apr 96 | 8:15:52 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 91 |
| 26 Apr 96 | 8:15:57 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 94 |
| 26 Apr 96 | 8:15:57 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 93 |
| 26 Apr 96 | 8:16:00 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 95 |
| 26 Apr 96 | 8:16:04 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 96 |
| 26 Apr 96 | 8:16:04 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 97 |
| 26 Apr 96 | 8:16:09 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 98 |
| 26 Apr 96 | 8:16:09 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 99 |
| 26 Apr 96 | 8:16:17 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 100 |
| 26 Apr 96 | 8:16:17 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 101 |
| 26 Apr 96 | 8:16:29 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 102 |
| 26 Apr 96 | 8:16:29 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 103 |
| 26 Apr 96 | 8:16:34 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 105 |
| 26 Apr 96 | 8:16:34 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 104 |
| 26 Apr 96 | 8:16:39 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 106 |
| 26 Apr 96 | 8:16:39 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 107 |
| 26 Apr 96 | 8:16:48 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 108 |
| 26 Apr 96 | 8:16:48 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 109 |
| 26 Apr 96 | 8:16:52 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 110 |
| 26 Apr 96 | 8:16:52 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 111 |
| 26 Apr 96 | 8:16:59 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 112 |
| 26 Apr 96 | 8:17:00 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 113 |
| 26 Apr 96 | 8:17:02 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 114 |
| 26 Apr 96 | 8:17:04 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 115 |
| 26 Apr 96 | 8:17:05 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 116 |
| 26 Apr 96 | 8:17:07 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 117 |
| 26 Apr 96 | 8:17:09 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 118 |
| 26 Apr 96 | 8:17:13 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 119 |
| 26 Apr 96 | 8:17:13 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 120 |
| 26 Apr 96 | 8:17:17 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 121 |
| 26 Apr 96 | 8:17:17 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 122 |
| 26 Apr 96 | 8:17:23 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 123 |
| 26 Apr 96 | 8:17:23 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 124 |
| 26 Apr 96 | 8:17:26 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 125 |
| 26 Apr 96 | 8:17:26 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 126 |
| 26 Apr 96 | 8:17:29 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 128 |
| 26 Apr 96 | 8:17:29 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 127 |
| 26 Apr 96 | 8:17:38 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 129 |
| 26 Apr 96 | 8:17:38 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 130 |
| 26 Apr 96 | 8:17:43 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 131 |
| 26 Apr 96 | 8:17:43 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 132 |
| 26 Apr 96 | 8:17:51 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 133 |
| 26 Apr 96 | 8:17:51 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 134 |
| 26 Apr 96 | 8:17:55 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 135 |
| 26 Apr 96 | 8:17:55 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 136 |
| 26 Apr 96 | 8:17:58 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 138 |
| 26 Apr 96 | 8:17:58 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 137 |
| 26 Apr 96 | 8:18:01 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 140 |
| 26 Apr 96 | 8:18:01 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 139 |
| 26 Apr 96 | 8:18:04 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 141 |
| 26 Apr 96 | 8:18:04 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 142 |
| 26 Apr 96 | 8:18:07 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 143 |
| 26 Apr 96 | 8:18:07 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 144 |
| 26 Apr 96 | 8:18:11 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 145 |
| 26 Apr 96 | 8:18:11 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 146 |
| 26 Apr 96 | 8:18:16 PM | 23446B2908 | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 147 |
| 26 Apr 96 | 8:18:16 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 148 |
| 26 Apr 96 | 8:18:22 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 150 |
| 26 Apr 96 | 8:18:22 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 149 |
| 26 Apr 96 | 8:18:36 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 151 |
| 26 Apr 96 | 8:18:37 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 152 |
| 26 Apr 96 | 8:18:40 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 153 |
| 26 Apr 96 | 8:18:41 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 154 |
| 26 Apr 96 | 8:19:38 PM | 60446B2908 | 40 | 12 | DUMMY | | 1 Jan 00 | | 155 |
| 26 Apr 96 | 8:19:38 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 156 |
| 26 Apr 96 | 8:19:39 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 157 |
| 26 Apr 96 | 8:19:47 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 158 |
| 26 Apr 96 | 8:19:47 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 159 |
| 26 Apr 96 | 8:19:54 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 161 |
| 26 Apr 96 | 8:19:54 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 160 |
| 26 Apr 96 | 8:19:58 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 163 |
| 26 Apr 96 | 8:19:58 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 162 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 26 Apr 96 | 8:20:05 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 164 |
| 26 Apr 96 | 8:20:05 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 165 |
| 26 Apr 96 | 8:20:09 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 166 |
| 26 Apr 96 | 8:20:09 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 167 |
| 26 Apr 96 | 8:20:14 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | BS | 168 |
| 26 Apr 96 | 8:20:14 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 169 |
| 26 Apr 96 | 8:20:25 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 170 |
| 26 Apr 96 | 8:20:25 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 171 |
| 26 Apr 96 | 8:20:29 PM | 20446B2938 | 30 | 12 | DUMMY | | 1 Jan 00 | BS | 172 |
| 26 Apr 96 | 8:20:29 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 173 |
| 26 Apr 96 | 8:20:32 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 175 |
| 26 Apr 96 | 8:20:32 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 174 |
| 26 Apr 96 | 8:20:38 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 176 |
| 26 Apr 96 | 8:20:38 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 177 |
| 26 Apr 96 | 8:40:01 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 178 |
| 26 Apr 96 | 8:40:01 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 179 |
| 26 Apr 96 | 8:40:12 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 180 |
| 26 Apr 96 | 8:40:12 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 181 |
| 26 Apr 96 | 8:40:16 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 182 |
| 26 Apr 96 | 8:40:16 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 183 |
| 26 Apr 96 | 8:40:19 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 184 |
| 26 Apr 96 | 8:40:19 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 185 |
| 26 Apr 96 | 8:40:23 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 186 |
| 26 Apr 96 | 8:40:23 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 187 |
| 26 Apr 96 | 8:40:30 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 188 |
| 26 Apr 96 | 8:40:30 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 189 |
| 26 Apr 96 | 8:40:35 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 190 |
| 26 Apr 96 | 8:40:35 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 191 |
| 26 Apr 96 | 8:40:41 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 192 |
| 26 Apr 96 | 8:40:42 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 193 |
| 26 Apr 96 | 8:40:46 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 195 |
| 26 Apr 96 | 8:40:46 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 194 |
| 26 Apr 96 | 8:40:49 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 196 |
| 26 Apr 96 | 8:40:49 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 197 |
| 26 Apr 96 | 8:40:50 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | BS | 198 |
| 26 Apr 96 | 8:40:54 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 199 |
| 26 Apr 96 | 8:40:54 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 200 |
| 26 Apr 96 | 8:40:57 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 201 |
| 26 Apr 96 | 8:41:01 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 202 |
| 26 Apr 96 | 8:41:01 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 203 |
| 26 Apr 96 | 8:41:07 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 204 |
| 26 Apr 96 | 8:41:07 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 205 |
| 26 Apr 96 | 8:41:11 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 206 |
| 26 Apr 96 | 8:41:11 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 207 |
| 26 Apr 96 | 8:41:14 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 208 |
| 26 Apr 96 | 8:41:15 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 209 |
| 26 Apr 96 | 8:41:20 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 210 |
| 26 Apr 96 | 8:41:20 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 211 |
| 26 Apr 96 | 8:41:30 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 212 |
| 26 Apr 96 | 8:41:30 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 213 |
| 26 Apr 96 | 8:41:31 PM | 2F446B2908 | 0F | 12 | DUMMY | | 1 Jan 00 | | 214 |
| 26 Apr 96 | 8:41:35 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 215 |
| 26 Apr 96 | 8:41:35 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 216 |
| 26 Apr 96 | 8:41:38 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 218 |
| 26 Apr 96 | 8:41:38 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 217 |
| 26 Apr 96 | 8:41:41 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 219 |
| 26 Apr 96 | 8:41:41 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 220 |
| 26 Apr 96 | 8:41:49 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 221 |
| 26 Apr 96 | 8:41:49 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 222 |
| 26 Apr 96 | 8:41:54 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 223 |
| 26 Apr 96 | 8:41:54 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 224 |
| 26 Apr 96 | 8:41:59 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 225 |
| 26 Apr 96 | 8:41:59 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 226 |
| 26 Apr 96 | 8:42:08 PM | 20446D2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 228 |
| 26 Apr 96 | 8:42:08 PM | 20446D290D | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 227 |
| 26 Apr 96 | 8:42:13 PM | 20446D2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 230 |
| 26 Apr 96 | 8:42:13 PM | 20446D290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 229 |
| 26 Apr 96 | 8:42:20 PM | 20446D290D | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 231 |
| 26 Apr 96 | 8:42:20 PM | 20446D2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 232 |
| 26 Apr 96 | 8:42:23 PM | 20446D290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 233 |
| 26 Apr 96 | 8:42:23 PM | 20446D2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 234 |
| 26 Apr 96 | 8:42:29 PM | 20446D290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 235 |
| 26 Apr 96 | 8:42:29 PM | 20446D2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 236 |
| 26 Apr 96 | 8:42:34 PM | 20446D290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 237 |
| 26 Apr 96 | 8:42:34 PM | 20446D2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 238 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 26 Apr 96 | 8:50:18 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 240 |
| 26 Apr 96 | 8:50:18 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 239 |
| 26 Apr 96 | 8:50:24 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 241 |
| 26 Apr 96 | 8:50:24 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 242 |
| 26 Apr 96 | 8:50:28 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 243 |
| 26 Apr 96 | 8:50:28 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 244 |
| 26 Apr 96 | 8:50:34 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 245 |
| 26 Apr 96 | 8:50:35 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 246 |
| 26 Apr 96 | 8:50:40 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 247 |
| 26 Apr 96 | 8:50:40 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 248 |
| 26 Apr 96 | 8:50:47 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 249 |
| 26 Apr 96 | 8:50:47 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 250 |
| 26 Apr 96 | 8:50:59 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 251 |
| 26 Apr 96 | 8:50:59 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 252 |
| 26 Apr 96 | 8:51:03 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 253 |
| 26 Apr 96 | 8:51:03 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 254 |
| 26 Apr 96 | 8:51:03 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | BS | 255 |
| 26 Apr 96 | 8:51:06 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 256 |
| 26 Apr 96 | 8:51:06 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 257 |
| 26 Apr 96 | 8:51:11 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 258 |
| 26 Apr 96 | 8:51:11 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 259 |
| 26 Apr 96 | 8:51:19 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 260 |
| 26 Apr 96 | 8:51:19 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 261 |
| 26 Apr 96 | 8:51:25 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 262 |
| 26 Apr 96 | 8:51:26 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 263 |
| 26 Apr 96 | 8:51:28 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 264 |
| 26 Apr 96 | 8:51:38 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 266 |
| 26 Apr 96 | 8:51:38 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 265 |
| 26 Apr 96 | 8:51:41 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 267 |
| 26 Apr 96 | 8:51:41 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 268 |
| 26 Apr 96 | 8:51:48 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 269 |
| 26 Apr 96 | 8:51:48 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 270 |
| 26 Apr 96 | 8:51:57 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 271 |
| 26 Apr 96 | 8:51:57 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 272 |
| 26 Apr 96 | 8:52:00 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 273 |
| 26 Apr 96 | 8:52:00 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 274 |
| 26 Apr 96 | 8:52:03 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 275 |
| 26 Apr 96 | 8:52:04 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 276 |
| 26 Apr 96 | 8:52:10 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 277 |
| 26 Apr 96 | 8:52:10 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 278 |
| 26 Apr 96 | 8:52:15 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | BS | 279 |
| 26 Apr 96 | 8:52:15 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 280 |
| 26 Apr 96 | 8:52:20 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | BS | 281 |
| 26 Apr 96 | 8:52:21 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 282 |
| 26 Apr 96 | 8:52:21 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 283 |
| 26 Apr 96 | 8:52:30 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 285 |
| 26 Apr 96 | 8:52:30 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 284 |
| 26 Apr 96 | 8:52:33 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 286 |
| 26 Apr 96 | 8:52:33 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 287 |
| 26 Apr 96 | 8:52:41 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 288 |
| 26 Apr 96 | 8:52:42 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 289 |
| 26 Apr 96 | 8:52:45 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | BS | 290 |
| 26 Apr 96 | 8:52:45 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 291 |
| 26 Apr 96 | 8:52:46 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 292 |
| 26 Apr 96 | 8:52:49 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 293 |
| 26 Apr 96 | 8:52:49 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 294 |
| 26 Apr 96 | 8:52:57 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 296 |
| 26 Apr 96 | 8:52:57 PM | 20440B2908 | A0 | 12 | DUMMY | | 1 Jan 00 | BS | 295 |
| 26 Apr 96 | 8:53:01 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 298 |
| 26 Apr 96 | 8:53:01 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 297 |
| 26 Apr 96 | 8:53:04 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | BS | 299 |
| 26 Apr 96 | 8:53:04 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 300 |
| 26 Apr 96 | 8:53:06 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 301 |
| 26 Apr 96 | 8:53:19 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 302 |
| 26 Apr 96 | 8:53:19 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 303 |
| 26 Apr 96 | 8:53:22 PM | 20446B290D | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 304 |
| 26 Apr 96 | 8:53:23 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 305 |
| 26 Apr 96 | 8:53:32 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 306 |
| 26 Apr 96 | 8:53:32 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 307 |
| 26 Apr 96 | 8:53:37 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 308 |
| 26 Apr 96 | 8:53:37 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 309 |
| 26 Apr 96 | 8:53:42 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 311 |
| 26 Apr 96 | 8:53:42 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 310 |
| 26 Apr 96 | 8:53:49 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 312 |
| 26 Apr 96 | 8:53:49 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 313 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 26 Apr 96 | 8:53:54 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 314 |
| 26 Apr 96 | 8:53:54 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 315 |
| 26 Apr 96 | 8:54:05 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 316 |
| 26 Apr 96 | 8:54:06 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 317 |
| 26 Apr 96 | 8:54:08 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 318 |
| 26 Apr 96 | 8:54:15 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 320 |
| 26 Apr 96 | 8:54:15 PM | 20446B2938 | 30 | 12 | DUMMY | | 1 Jan 00 | BS | 319 |
| 26 Apr 96 | 8:54:19 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 321 |
| 26 Apr 96 | 8:54:19 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 322 |
| 26 Apr 96 | 8:54:24 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | BS | 323 |
| 26 Apr 96 | 8:54:24 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 324 |
| 26 Apr 96 | 8:54:28 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 325 |
| 26 Apr 96 | 8:54:28 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 326 |
| 26 Apr 96 | 8:54:48 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 327 |
| 26 Apr 96 | 8:54:49 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 328 |
| 26 Apr 96 | 8:54:52 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 330 |
| 26 Apr 96 | 8:54:52 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 329 |
| 26 Apr 96 | 8:54:55 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 331 |
| 26 Apr 96 | 8:54:55 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 332 |
| 26 Apr 96 | 8:54:58 PM | 2078565210 | 50 | 12 | DUMMY | | 1 Jan 00 | | 333 |
| 26 Apr 96 | 8:54:58 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 334 |
| 26 Apr 96 | 8:54:58 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 335 |
| 26 Apr 96 | 8:55:05 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 336 |
| 26 Apr 96 | 8:55:05 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 337 |
| 26 Apr 96 | 8:55:08 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 338 |
| 26 Apr 96 | 8:55:08 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 339 |
| 26 Apr 96 | 8:55:11 PM | 20046B2908 | C0 | 12 | DUMMY | | 1 Jan 00 | BS | 340 |
| 26 Apr 96 | 8:55:12 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 341 |
| 26 Apr 96 | 8:55:12 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 342 |
| 26 Apr 96 | 8:55:15 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 343 |
| 26 Apr 96 | 8:55:18 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 344 |
| 26 Apr 96 | 8:55:18 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 345 |
| 26 Apr 96 | 8:55:24 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 346 |
| 26 Apr 96 | 8:55:24 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 347 |
| 26 Apr 96 | 8:55:30 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 348 |
| 26 Apr 96 | 8:55:30 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 349 |
| 26 Apr 96 | 8:55:37 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 350 |
| 26 Apr 96 | 8:55:37 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 351 |
| 26 Apr 96 | 8:55:40 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 352 |
| 26 Apr 96 | 8:55:40 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 353 |
| 26 Apr 96 | 8:55:46 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 355 |
| 26 Apr 96 | 8:55:46 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 354 |
| 26 Apr 96 | 8:55:49 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 356 |
| 26 Apr 96 | 8:55:49 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 357 |
| 26 Apr 96 | 8:55:56 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 358 |
| 26 Apr 96 | 8:55:56 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 359 |
| 26 Apr 96 | 8:56:02 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 360 |
| 26 Apr 96 | 8:56:02 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 361 |
| 26 Apr 96 | 8:56:12 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 363 |
| 26 Apr 96 | 8:56:12 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 362 |
| 26 Apr 96 | 8:56:18 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 364 |
| 26 Apr 96 | 8:56:18 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 365 |
| 26 Apr 96 | 8:56:21 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 366 |
| 26 Apr 96 | 8:56:21 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 367 |
| 26 Apr 96 | 8:56:25 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 368 |
| 26 Apr 96 | 8:56:25 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 369 |
| 26 Apr 96 | 8:56:30 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 370 |
| 26 Apr 96 | 8:56:30 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 371 |
| 26 Apr 96 | 8:56:33 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 372 |
| 26 Apr 96 | 8:56:34 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 373 |
| 26 Apr 96 | 8:56:36 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 374 |
| 26 Apr 96 | 8:56:38 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 375 |
| 26 Apr 96 | 8:56:40 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 376 |
| 26 Apr 96 | 8:56:45 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 378 |
| 26 Apr 96 | 8:56:45 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 377 |
| 26 Apr 96 | 8:56:47 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 379 |
| 26 Apr 96 | 8:56:49 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 380 |
| 26 Apr 96 | 8:56:54 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 381 |
| 26 Apr 96 | 8:56:54 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 382 |
| 26 Apr 96 | 8:56:57 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 383 |
| 26 Apr 96 | 8:56:57 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 384 |
| 26 Apr 96 | 8:57:02 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 386 |
| 26 Apr 96 | 8:57:02 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 385 |
| 26 Apr 96 | 8:57:06 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 388 |
| 26 Apr 96 | 8:57:06 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 387 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 26 Apr 96 | 8:57:09 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 389 |
| 26 Apr 96 | 8:57:09 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 390 |
| 26 Apr 96 | 8:57:15 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 391 |
| 26 Apr 96 | 8:57:15 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 392 |
| 26 Apr 96 | 8:57:18 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 393 |
| 26 Apr 96 | 8:57:20 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 394 |
| 26 Apr 96 | 8:57:22 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 395 |
| 26 Apr 96 | 8:57:26 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 396 |
| 26 Apr 96 | 8:57:26 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 397 |
| 26 Apr 96 | 8:57:29 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 398 |
| 26 Apr 96 | 8:57:29 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 399 |
| 26 Apr 96 | 8:57:33 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 401 |
| 26 Apr 96 | 8:57:33 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 400 |
| 26 Apr 96 | 8:57:36 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 402 |
| 26 Apr 96 | 8:57:37 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 403 |
| 26 Apr 96 | 8:57:41 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 404 |
| 26 Apr 96 | 8:57:41 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 405 |
| 26 Apr 96 | 8:57:45 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 406 |
| 26 Apr 96 | 8:57:45 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 407 |
| 26 Apr 96 | 8:57:52 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 409 |
| 26 Apr 96 | 8:57:52 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 408 |
| 26 Apr 96 | 8:57:56 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 411 |
| 26 Apr 96 | 8:57:56 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 410 |
| 26 Apr 96 | 8:58:01 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 412 |
| 26 Apr 96 | 8:58:01 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 413 |
| 26 Apr 96 | 8:58:05 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 414 |
| 26 Apr 96 | 8:58:05 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 415 |
| 26 Apr 96 | 8:58:12 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 416 |
| 26 Apr 96 | 8:58:12 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 417 |
| 26 Apr 96 | 8:58:15 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 418 |
| 26 Apr 96 | 8:58:15 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 419 |
| 26 Apr 96 | 8:58:18 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 421 |
| 26 Apr 96 | 8:58:18 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 420 |
| 26 Apr 96 | 8:58:22 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 422 |
| 26 Apr 96 | 8:58:22 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 423 |
| 26 Apr 96 | 8:58:25 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 424 |
| 26 Apr 96 | 8:58:25 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 425 |
| 26 Apr 96 | 8:58:28 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 426 |
| 26 Apr 96 | 8:58:28 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 427 |
| 26 Apr 96 | 8:58:31 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 428 |
| 26 Apr 96 | 8:58:32 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 429 |
| 26 Apr 96 | 8:58:34 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 430 |
| 26 Apr 96 | 8:58:35 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 431 |
| 26 Apr 96 | 8:58:38 PM | 20446B290B | 03 | 12 12 | DUMMY | | 1 Jan 00 | BS | 432 |
| 26 Apr 96 | 8:58:38 PM | 20446B2908 | 00 | 12 12 | TUCR | 3 | 15 Apr 96 | D | 433 |
| 26 Apr 96 | 8:58:41 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 434 |
| 26 Apr 96 | 8:58:41 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 435 |
| 26 Apr 96 | 8:58:48 PM | 20446B290B | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 436 |
| 26 Apr 96 | 8:58:48 PM | 20446B2908 | 00 | 12 | TUCR | 3 | 15 Apr 96 | D | 437 |
| 26 Apr 96 | 11:25:07 PM | 7F7E4E1A12 | 77 | 10 | DUMMY | | 1 Jan 00 | D | 438 |
| 27 Apr 96 | 11:50:20 PM | 7F7E4E3B0D | 93 | 22 12 | DUMMY | | 1 Jan 00 | D | 439 |
| 27 Apr 96 | 11:50:47 PM | 7F7E6A5C4F | 12 | 22 12 | DUMMY | | 1 Jan 00 | D | 440 |
| 27 Apr 96 | 11:50:48 PM | 7F7E6A1C4F | D2 | 12 | DUMMY | | 1 Jan 00 | | 441 |
| 27 Apr 96 | 11:51:08 PM | 7F7E4E3B0D | 93 | 20 10 | DUMMY | | 1 Jan 00 | D | 442 |
| 27 Apr 96 | 11:51:26 PM | 7F7E6A5C4F | 12 | 20 10 | DUMMY | | 1 Jan 00 | D | 443 |
| 27 Apr 96 | 11:56:54 PM | 41675E783E | B | 10 | LGRRBR | 1 | 25 Apr 96 | | 444 |
| 27 Apr 96 | 11:57:22 PM | 41675E783E | B | 20 | LGRRBR | 1 | 25 Apr 96 | D | 445 |
| 27 Apr 96 | 13:09:23 PM | 204459241F | 00 | 10 | LOOH | 1 | 4 Apr 96 | | 446 |
| 27 Apr 96 | 13:10:07 PM | 204459241F | 00 | 20 | LOOH | 1 | 4 Apr 96 | D | 447 |
| 27 Apr 96 | 13:11:14 PM | 415173505D | B2 | 20 | LGRRBR | 1 | 25 Apr 96 | | 448 |
| 27 Apr 96 | 13:12:18 PM | 221C111351 | B3 | 22 | SNKTRP | 3 | 9 Apr 96 | | 449 |
| 30 Apr 96 | 7:07:09 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | | 450 |
| 30 Apr 96 | 7:09:57 PM | 7F7E2E2D7B | D3 | 20 | DUMMY | | 1 Jan 00 | | 451 |
| 30 Apr 96 | 7:25:55 PM | 7F7D7C6806 | E6 | 12 | MINAMR | 1 | 7 Sep 93 | BS | 452 |
| 30 Apr 96 | 7:25:55 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 453 |
| 30 Apr 96 | 7:26:56 PM | 7F7D7F687E | 61 | 12 | DUMMY | | 1 Jan 00 | | 454 |
| 30 Apr 96 | 7:26:56 PM | 7F7D7F6806 | E9 | 12 12 | RUNNIC | 3 | 19 Oct 95 | D | 455 |
| 30 Apr 96 | 7:26:57 PM | 7F7D7F7906 | FA | 12 | DUMMY | | 1 Jan 00 | | 456 |
| 30 Apr 96 | 7:27:37 PM | 7F7D7F6833 | 16 | 12 | DUMMY | | 1 Jan 00 | | 457 |
| 30 Apr 96 | 7:27:37 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 458 |
| 30 Apr 96 | 7:29:21 PM | 7F7D7F6D06 | EC | 12 | | 1 | | | 459 |
| 30 Apr 96 | 7:29:22 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 460 |
| 30 Apr 96 | 7:33:26 PM | 7F7D7C6806 | E6 | 12 | MINAMR | 1 | 7 Sep 93 | D | 461 |
| 30 Apr 96 | 7:33:28 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 462 |
| 30 Apr 96 | 7:37:17 PM | 70017F6806 | 5E | 12 | DUMMY | | 1 Jan 00 | | 463 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 30 Apr 96 | 7:37:17 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 464 |
| 30 Apr 96 | 7:38:18 PM | 7F7D7F681B | FE | 12 | DUMMY | | 1 Jan 00 | | 465 |
| 30 Apr 96 | 7:38:20 PM | 7F7D7F6806 | E9 | 12 12 | RUNNIC | 3 | 19 Oct 95 | D | 466 |
| 30 Apr 96 | 7:38:21 PM | 7F7D7F683C | 1F | 12 | DUMMY | | 1 Jan 00 | | 467 |
| 30 Apr 96 | 7:42:03 PM | 416B541064 | 74 | 20 | LGRRBR | 1 | 27 Apr 96 | | 468 |
| 30 Apr 96 | 8:23:26 PM | 41691D2D33 | 27 | 20 | LGRRBR | 1 | 27 Apr 96 | | 469 |
| 30 Apr 96 | 8:23:41 PM | 20443D0A55 | 00 | 22 | IMNTRP | 3 | 16 Apr 96 | | 470 |
| 30 Apr 96 | 8:38:51 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 471 |
| 30 Apr 96 | 8:40:30 PM | 7F7E7F6806 | EA | 12 | DUMMY | | 1 Jan 00 | | 472 |
| 30 Apr 96 | 8:40:31 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 473 |
| 30 Apr 96 | 8:42:31 PM | 7F7D7F6805 | E8 | 12 | DUMMY | | 1 Jan 00 | | 474 |
| 30 Apr 96 | 8:42:31 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 475 |
| 30 Apr 96 | 8:42:48 PM | 7F7D7F0806 | 89 | 12 | DUMMY | | 1 Jan 00 | | 476 |
| 30 Apr 96 | 8:42:48 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 477 |
| 30 Apr 96 | 8:43:07 PM | 7F7D7F6D43 | 29 | 12 | MARSHC | 1 | 30 Aug 93 | BS | 478 |
| 30 Apr 96 | 8:43:08 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 479 |
| 30 Apr 96 | 8:44:06 PM | 7F7D7F0806 | 89 | 12 | DUMMY | | 1 Jan 00 | BS | 480 |
| 30 Apr 96 | 8:44:06 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 481 |
| 30 Apr 96 | 8:44:31 PM | 7F7D406806 | A | 12 | CLELMR | 4 | 1 Jun 93 | BS | 482 |
| 30 Apr 96 | 8:44:31 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 483 |
| 30 Apr 96 | 8:44:50 PM | 7F7D7F6800 | E3 | 12 | CROOKR | 3 | 29 Apr 94 | BS | 484 |
| 30 Apr 96 | 8:44:50 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 485 |
| 30 Apr 96 | 8:45:05 PM | 7F7D7F6833 | 16 | 12 | DUMMY | | 1 Jan 00 | BS | 486 |
| 30 Apr 96 | 8:45:05 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 487 |
| 30 Apr 96 | 8:45:10 PM | 7F7D7F6800 | E3 | 12 | CROOKR | 3 | 29 Apr 94 | D | 488 |
| 30 Apr 96 | 8:45:10 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 489 |
| 30 Apr 96 | 8:45:32 PM | 7F7D7F0806 | 89 | 12 | DUMMY | | 1 Jan 00 | BS | 490 |
| 30 Apr 96 | 8:45:32 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 491 |
| 30 Apr 96 | 8:46:16 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 493 |
| 30 Apr 96 | 8:46:16 PM | 7F7D7F6800 | E3 | 12 | CROOKR | 3 | 29 Apr 94 | D | 492 |
| 30 Apr 96 | 8:46:19 PM | 7F7D7F6800 | E3 | 12 12 | CROOKR | 3 | 29 Apr 94 | D | 494 |
| 30 Apr 96 | 8:46:19 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 495 |
| 30 Apr 96 | 8:46:24 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 496 |
| 30 Apr 96 | 8:47:10 PM | 400017F6806 | 2E | 12 | DUMMY | | 1 Jan 00 | | 497 |
| 30 Apr 96 | 8:47:11 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 498 |
| 30 Apr 96 | 8:47:22 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 500 |
| 30 Apr 96 | 8:47:22 PM | 7F7D706806 | D | 12 | DUMMY | | 1 Jan 00 | | 499 |
| 30 Apr 96 | 8:47:28 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 502 |
| 30 Apr 96 | 8:47:28 PM | 7F7D7F0806 | 89 | 12 | DUMMY | | 1 Jan 00 | BS | 501 |
| 30 Apr 96 | 8:48:21 PM | 7F7D7F681E | 01 | 12 | CLWTRP | 1 | 26 Apr 93 | BS | 503 |
| 30 Apr 96 | 8:48:21 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 504 |
| 30 Apr 96 | 8:48:35 PM | 7F7D7F683C | 1F | 12 | DUMMY | | 1 Jan 00 | BS | 505 |
| 30 Apr 96 | 8:48:35 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 506 |
| 30 Apr 96 | 8:49:06 PM | 7F7D7F0806 | 89 | 12 | DUMMY | | 1 Jan 00 | BS | 507 |
| 30 Apr 96 | 8:49:07 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 508 |
| 30 Apr 96 | 8:49:13 PM | 7F7D7C6806 | E6 | 12 | MINAMR | 1 | 7 Sep 93 | D | 509 |
| 30 Apr 96 | 8:49:14 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 510 |
| 30 Apr 96 | 8:50:05 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 512 |
| 30 Apr 96 | 8:50:05 PM | 7F7D7F2806 | A9 | 12 | DUMMY | | 1 Jan 00 | | 511 |
| 30 Apr 96 | 8:50:26 PM | 7F7D406806 | A | 12 | CLELMR | 4 | 1 Jun 93 | D | 513 |
| 30 Apr 96 | 8:50:26 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 514 |
| 30 Apr 96 | 8:51:08 PM | 7F717F6806 | D | 12 | DUMMY | | 1 Jan 00 | | 515 |
| 30 Apr 96 | 8:51:08 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 516 |
| 30 Apr 96 | 8:51:22 PM | 7F7D7F6B06 | EC | 12 | | 1 | | BS | 517 |
| 30 Apr 96 | 8:51:22 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 518 |
| 30 Apr 96 | 8:51:30 PM | 7F7D7F683F | 22 | 12 | DUMMY | | 1 Jan 00 | | 519 |
| 30 Apr 96 | 8:51:30 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 520 |
| 30 Apr 96 | 8:52:14 PM | 400017F6806 | 2E | 12 | DUMMY | | 1 Jan 00 | BS | 521 |
| 30 Apr 96 | 8:52:15 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 522 |
| 30 Apr 96 | 8:52:28 PM | 7F7E7F6806 | EA | 12 | DUMMY | | 1 Jan 00 | BS | 523 |
| 30 Apr 96 | 8:52:29 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 524 |
| 30 Apr 96 | 8:52:35 PM | 7F7D7F7006 | F1 | 12 | DUMMY | | 1 Jan 00 | | 525 |
| 30 Apr 96 | 8:52:35 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 526 |
| 30 Apr 96 | 8:52:44 PM | 7F7D7F0806 | 89 | 12 | DUMMY | | 1 Jan 00 | BS | 527 |
| 30 Apr 96 | 8:52:49 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 528 |
| 30 Apr 96 | 8:53:15 PM | 7F7D406806 | A | 12 | CLELMR | 4 | 1 Jun 93 | D | 529 |
| 30 Apr 96 | 8:53:15 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 530 |
| 30 Apr 96 | 8:54:55 PM | 7F7D406806 | A | 12 | CLELMR | 4 | 1 Jun 93 | D | 531 |
| 30 Apr 96 | 8:54:55 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 532 |
| 30 Apr 96 | 8:55:08 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 534 |
| 30 Apr 96 | 8:55:08 PM | 7F5F7F6806 | C | 12 | DUMMY | | 1 Jan 00 | | 533 |
| 30 Apr 96 | 8:55:47 PM | 7F7E7F6806 | EA | 12 | DUMMY | | 1 Jan 00 | BS | 535 |
| 30 Apr 96 | 8:55:48 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 536 |
| 30 Apr 96 | 8:56:20 PM | 7F7D7F681E | 01 | 12 | CLWTRP | 1 | 26 Apr 93 | D | 537 |
| 30 Apr 96 | 8:56:21 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 538 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 30 Apr 96 | 8:56:45 PM | 7F7D7C6806 | E6 | 12 | MINAMR | 1 | 7 Sep 93 | D | 539 |
| 30 Apr 96 | 8:56:45 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 540 |
| 30 Apr 96 | 8:56:47 PM | 7F7D7F6804 | E7 | 12 | RAPIDR | 3 | 26 Sep 93 | BS | 541 |
| 30 Apr 96 | 8:56:48 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 542 |
| 30 Apr 96 | 8:57:11 PM | 7F7D7F681E | 01 | 12 | CLWTRP | 1 | 26 Apr 93 | D | 543 |
| 30 Apr 96 | 8:57:21 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 544 |
| 30 Apr 96 | 8:58:10 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 546 |
| 30 Apr 96 | 8:58:10 PM | 7F7D7F0806 | 89 | 12 | DUMMY | | 1 Jan 00 | BS | 545 |
| 30 Apr 96 | 8:58:14 PM | 7F7D7F683F | 22 | 12 | DUMMY | | 1 Jan 00 | BS | 547 |
| 30 Apr 96 | 8:58:14 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 548 |
| 30 Apr 96 | 8:58:50 PM | 7F7D406806 | A | 12 | CLELMR | 4 | 1 Jun 93 | D | 549 |
| 30 Apr 96 | 8:58:51 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 550 |
| 30 Apr 96 | 9:00:58 PM | 7F7D7F6B06 | EC | 12 | | 1 | | BS | 551 |
| 30 Apr 96 | 9:00:59 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 552 |
| 30 Apr 96 | 9:02:12 PM | 7F7D7F687E | 61 | 12 | DUMMY | | 1 Jan 00 | BS | 553 |
| 30 Apr 96 | 9:02:12 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 554 |
| 30 Apr 96 | 9:03:18 PM | 7F7D406806 | A | 12 | CLELMR | 4 | 1 Jun 93 | D | 555 |
| 30 Apr 96 | 9:03:19 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 556 |
| 30 Apr 96 | 9:03:39 PM | 7F7D7F7006 | F1 | 12 | DUMMY | | 1 Jan 00 | BS | 557 |
| 30 Apr 96 | 9:03:41 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 558 |
| 30 Apr 96 | 9:04:28 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 560 |
| 30 Apr 96 | 9:04:28 PM | 400017F6806 | 2E | 12 | DUMMY | | 1 Jan 00 | BS | 559 |
| 30 Apr 96 | 9:04:33 PM | 7F7E7F6806 | EA | 12 | DUMMY | | 1 Jan 00 | BS | 561 |
| 30 Apr 96 | 9:04:36 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 562 |
| 30 Apr 96 | 9:04:44 PM | 7F7D7F0806 | 89 | 12 | DUMMY | | 1 Jan 00 | BS | 563 |
| 30 Apr 96 | 9:04:44 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 564 |
| 30 Apr 96 | 9:05:53 PM | 7F7D7F680C | EF | 12 | DUMMY | | 1 Jan 00 | | 565 |
| 30 Apr 96 | 9:05:54 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 566 |
| 30 Apr 96 | 9:06:52 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 568 |
| 30 Apr 96 | 9:06:52 PM | 7F7D7F6800 | E3 | 12 | CROOKR | 3 | 29 Apr 94 | D | 567 |
| 30 Apr 96 | 9:08:24 PM | 7F7D7F6800 | E3 | 12 | CROOKR | 3 | 29 Apr 94 | D | 569 |
| 30 Apr 96 | 9:08:25 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 570 |
| 30 Apr 96 | 9:10:38 PM | 7F7D7F6B06 | EC | 12 | | 1 | | BS | 571 |
| 30 Apr 96 | 9:10:38 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 572 |
| 30 Apr 96 | 9:10:46 PM | 7F7D7F6B06 | EC | 12 | | 1 | | BS | 573 |
| 30 Apr 96 | 9:10:49 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 574 |
| 30 Apr 96 | 9:11:41 PM | 7F7D7F6800 | E3 | 12 | CROOKR | 3 | 29 Apr 94 | D | 575 |
| 30 Apr 96 | 9:11:41 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 576 |
| 30 Apr 96 | 9:12:04 PM | 7F697F6806 | D5 | 12 | DUMMY | | 1 Jan 00 | | 577 |
| 30 Apr 96 | 9:12:05 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 578 |
| 30 Apr 96 | 9:12:09 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 580 |
| 30 Apr 96 | 9:12:09 PM | 1F7E3F7443 | 93 | 12 | DUMMY | | 1 Jan 00 | | 579 |
| 30 Apr 96 | 9:12:23 PM | 7F7D7F6906 | EA | 12 | DUMMY | | 1 Jan 00 | | 581 |
| 30 Apr 96 | 9:12:23 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 582 |
| 30 Apr 96 | 9:12:43 PM | 7F7D7F6E06 | EF | 12 | DUMMY | | 1 Jan 00 | | 583 |
| 30 Apr 96 | 9:12:43 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 584 |
| 30 Apr 96 | 9:12:47 PM | 7F7D7F6800 | E3 | 12 | CROOKR | 3 | 29 Apr 94 | D | 585 |
| 30 Apr 96 | 9:12:47 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 586 |
| 30 Apr 96 | 9:13:23 PM | 7F7D7F6800 | E3 | 12 | CROOKR | 3 | 29 Apr 94 | D | 587 |
| 30 Apr 96 | 9:13:23 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 588 |
| 30 Apr 96 | 9:13:45 PM | 700017F6806 | 5E | 12 | DUMMY | | 1 Jan 00 | D | 589 |
| 30 Apr 96 | 9:13:46 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 590 |
| 30 Apr 96 | 9:14:36 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 592 |
| 30 Apr 96 | 9:14:36 PM | 7F7D7F2906 | A | 12 | DUMMY | | 1 Jan 00 | | 591 |
| 30 Apr 96 | 9:14:48 PM | 7F7D7F6B06 | EC | 12 | | 1 | | BS | 593 |
| 30 Apr 96 | 9:14:48 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 594 |
| 30 Apr 96 | 9:14:59 PM | 415177567F | DE | 20 | LGRRRR | 1 | 12 Apr 96 | | 595 |
| 30 Apr 96 | 9:15:25 PM | 00017F6806 | EE | 12 | DUMMY | | 1 Jan 00 | | 596 |
| 30 Apr 96 | 9:15:26 PM | 7F7D7F6806 | E9 | 12 | RUNNIC | 3 | 19 Oct 95 | D | 597 |
| 30 Apr 96 | 9:15:35 PM | 7F7D7F6805 | E8 | 12 | DUMMY | | 1 Jan 00 | BS | 598 |
| 30 Apr 96 | 9:15:35 PM | 7F7D7F6806 | E9 | 12 12 | RUNNIC | 3 | 19 Oct 95 | D | 599 |
| 30 Apr 96 | 9:15:35 PM | 7F7D7F683C | 1F | 12 | DUMMY | | 1 Jan 00 | BS | 600 |
| 30 Apr 96 | 9:16:02 PM | 7F7D7F2806 | A9 | 12 | DUMMY | | 1 Jan 00 | BS | 601 |
| 30 Apr 96 | 9:16:03 PM | 7F7D7F6806 | E9 | 12 12 | RUNNIC | 3 | 19 Oct 95 | D | 602 |
| 30 Apr 96 | 9:16:03 PM | 7F7D7F0806 | 89 | 12 | DUMMY | | 1 Jan 00 | BS | 603 |
| 30 Apr 96 | 9:17:39 PM | 7F7D7F6806 | E9 | 22 | RUNNIC | 3 | 19 Oct 95 | D | 604 |
| 30 Apr 96 | 9:58:23 PM | 7F7B08340C | 42 | 10 | CLWRNF | 1 | 11 Apr 96 | | 605 |
| 30 Apr 96 | 9:58:26 PM | 7F7B08340C | 42 | 20 | CLWRNF | 1 | 11 Apr 96 | D | 606 |
| 30 Apr 96 | 10:44:19 PM | 1F57582A08 | 00 | 12 22 | IMNTRP | 1 | 21 Mar 96 | | 607 |
| 30 Apr 96 | 10:44:36 PM | 1F622C371C | 00 | 22 22 | IMNTRP | 1 | 20 Oct 95 | | 608 |
| 30 Apr 96 | 10:44:36 PM | 1F622C3710 | F4 | 22 | DUMMY | | 1 Jan 00 | | 609 |
| 1 May 96 | 7:19:08 PM | 7F7E2E2D7B | D3 | 12 22 | DUMMY | | 1 Jan 00 | D | 610 |
| 1 May 96 | 8:10:21 PM | 1F596B6439 | 80 | 12 | IMNTRP | 1 | 3 Nov 95 | | 611 |
| 1 May 96 | 8:10:27 PM | 1F596B6439 | 80 | 22 | IMNTRP | 1 | 3 Nov 95 | D | 612 |
| 1 May 96 | 8:11:00 PM | 2046223C3C | 00 | 10 20 | HCD | 3 | 2 Apr 96 | | 613 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 1 May 96 | 8:15:18 PM | 22367D7712 | 5E | 20 | WELJI | 1 | 7 Apr 96 | | 614 |
| 1 May 96 | 8:47:57 PM | 7F7A090767 | 70 | 20 | SNAKER | 1 | 13 Apr 96 | | 615 |
| 1 May 96 | 10:24:44 PM | 221E215A41 | FC | 22 | DESCHR | 1 | 23 Apr 96 | | 616 |
| 1 May 96 | 11:15:06 PM | 1F623C4F04 | 10 | 10 | DUMMY | | 1 Jan 00 | | 617 |
| 1 May 96 | 11:15:06 PM | 1F623C4F74 | 80 | 10 20 | IMNTRP | 1 | 3 Apr 96 | | 618 |
| 1 May 96 | 11:17:27 PM | 20373F7872 | 80 | 12 22 | MEADOC | 1 | 27 Oct 95 | | 619 |
| 1 May 96 | 11:18:58 PM | 221D267446 | 1F | 10 | SNKTRP | 3 | 15 Apr 96 | | 620 |
| 1 May 96 | 11:19:02 PM | 221D267446 | 1F | 20 | SNKTRP | 3 | 15 Apr 96 | D | 621 |
| 1 May 96 | 11:19:54 PM | 7F7A070D71 | 7C | 22 | SNAKER | 1 | 12 Apr 96 | | 622 |
| 1 May 96 | 11:20:58 PM | 1F77066F75 | 80 | 22 | LOOH | 1 | 4 Apr 96 | | 623 |
| 1 May 96 | 14:48:02 PM | 7F7E4B196C | C | 20 | DUMMY | | 1 Jan 00 | | 624 |
| 1 May 96 | 14:55:44 PM | 416A647C5D | E8 | 22 | LGRRRR | 1 | 19 Apr 96 | | 625 |
| 1 May 96 | 15:08:45 PM | 2047032D69 | 00 | 10 | SALTRP | 1 | 11 Apr 96 | | 626 |
| 1 May 96 | 15:08:48 PM | 2047032D69 | 00 | 20 | SALTRP | 1 | 11 Apr 96 | D | 627 |
| 1 May 96 | 16:10:17 PM | 204200227C | 00 | 22 | SALTRP | 1 | 16 Mar 96 | | 628 |
| 1 May 96 | 16:11:58 PM | 1F6B1E1E3A | 00 | 22 | CLEARC | 1 | 12 Apr 96 | | 629 |
| 1 May 96 | 16:14:38 PM | 2015743B1C | 00 | 22 | LYFE | 1 | 9 Apr 96 | | 630 |
| 1 May 96 | 16:28:09 PM | 1F5766396B | 80 | 10 20 | CATHEC | 1 | 29 Aug 95 | | 631 |
| 1 May 96 | 16:57:27 PM | 202E5D5500 | 00 | 22 | RAPH | 1 | 19 Mar 96 | | 632 |
| 1 May 96 | 18:29:54 PM | 2011111529 | 80 | 10 20 | SALTRP | 1 | 20 Mar 96 | | 633 |
| 2 May 96 | 7:45:05 PM | 1F623F2818 | 00 | 10 10 | IMNTRP | 1 | 24 Oct 95 | | 634 |
| 2 May 96 | 7:45:07 PM | 1F623F281B | 03 | 10 | DUMMY | | 1 Jan 00 | | 635 |
| 2 May 96 | 7:45:08 PM | 1F623F2818 | 00 | 20 | IMNTRP | 1 | 24 Oct 95 | D | 636 |
| 2 May 96 | 8:53:18 PM | 7F7E4B196C | C | 10 | DUMMY | | 1 Jan 00 | D | 637 |
| 2 May 96 | 8:57:20 PM | 7F7D116158 | C4 | 10 10 | RUNNIC | 3 | 13 Oct 95 | | 638 |
| 2 May 96 | 8:57:20 PM | 7F7D11615B | C7 | 10 | | 1 | | | 639 |
| 2 May 96 | 8:58:12 PM | 221C765E5E | 70 | 20 | SALTRP | 3 | 15 Apr 96 | | 640 |
| 2 May 96 | 9:24:44 PM | 22142D7653 | 2A | 20 | SNAKER | 3 | 19 Apr 96 | | 641 |
| 2 May 96 | 13:06:48 PM | 41684A7750 | B | 12 | LGRRRR | 1 | 25 Apr 96 | | 642 |
| 2 May 96 | 13:21:29 PM | 1F5E2B1444 | 00 | 20 | IMNAHW | 1 | 31 Oct 95 | | 643 |
| 2 May 96 | 13:21:36 PM | 4153081E05 | BF | 10 | LGRRBR | 1 | 30 Apr 96 | | 644 |
| 2 May 96 | 13:22:56 PM | 41687F5D42 | C7 | 20 | LGRRBR | 1 | 30 Apr 96 | | 645 |
| 2 May 96 | 14:04:16 PM | 20197D7555 | 80 | 10 20 | LYFE | 1 | 9 Apr 96 | | 646 |
| 2 May 96 | 14:37:40 PM | 7F7A126D6D | E5 | 10 | DUMMY | | 1 Jan 00 | | 647 |
| 2 May 96 | 14:37:41 PM | 7F7A116D6D | E4 | 10 20 | RAPH | 1 | 19 Mar 96 | | 648 |
| 2 May 96 | 14:43:36 PM | 4151265571 | 7E | 22 | LGRRRR | 1 | 18 Apr 96 | | 649 |
| 2 May 96 | 14:44:08 PM | 4152212103 | DE | 10 20 | LGRRBR | 1 | 30 Apr 96 | | 650 |
| 2 May 96 | 14:48:17 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | | 651 |
| 2 May 96 | 14:48:24 PM | 1F577C2B13 | 30 | 12 | DUMMY | | 1 Jan 00 | | 652 |
| 2 May 96 | 14:48:24 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 653 |
| 2 May 96 | 14:49:07 PM | 1F574C2B73 | 60 | 12 | DUMMY | | 1 Jan 00 | | 654 |
| 2 May 96 | 14:49:08 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 655 |
| 2 May 96 | 14:50:22 PM | 1F574C2B16 | 03 | 12 | DUMMY | | 1 Jan 00 | | 656 |
| 2 May 96 | 14:50:22 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 657 |
| 2 May 96 | 14:51:28 PM | 2217197365 | 2A | 20 | LOOH | 1 | 4 Apr 96 | | 658 |
| 2 May 96 | 14:52:25 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 660 |
| 2 May 96 | 14:52:25 PM | 1F574C2B10 | FD | 12 | DUMMY | | 1 Jan 00 | | 659 |
| 2 May 96 | 14:52:48 PM | 1F574C2B10 | FD | 12 | DUMMY | | 1 Jan 00 | BS | 661 |
| 2 May 96 | 14:52:48 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 662 |
| 2 May 96 | 14:53:26 PM | 1F574C2B10 | FD | 12 | DUMMY | | 1 Jan 00 | BS | 663 |
| 2 May 96 | 14:53:26 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 664 |
| 2 May 96 | 14:55:04 PM | 1F574C2B10 | FD | 12 | DUMMY | | 1 Jan 00 | BS | 665 |
| 2 May 96 | 14:55:08 PM | 1F574C2B13 | 00 | 12 12 | IMNAHW | 1 | 18 Oct 95 | D | 666 |
| 2 May 96 | 14:55:10 PM | 1F544C2B13 | FD | 12 | DUMMY | | 1 Jan 00 | | 667 |
| 2 May 96 | 14:56:19 PM | 1F570C2B13 | C0 | 12 | DUMMY | | 1 Jan 00 | | 668 |
| 2 May 96 | 14:56:19 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 669 |
| 2 May 96 | 14:57:03 PM | 1F574C2B10 | FD | 12 | DUMMY | | 1 Jan 00 | BS | 670 |
| 2 May 96 | 14:57:03 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 671 |
| 2 May 96 | 14:57:08 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 673 |
| 2 May 96 | 14:57:08 PM | 1F374C2B13 | E0 | 12 | DUMMY | | 1 Jan 00 | | 672 |
| 2 May 96 | 15:04:22 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 674 |
| 2 May 96 | 15:05:01 PM | 1F574C2B13 | FD | 12 | DUMMY | | 1 Jan 00 | | 675 |
| 2 May 96 | 15:05:01 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 676 |
| 2 May 96 | 15:06:35 PM | 10574C2B13 | F1 | 12 | DUMMY | | 1 Jan 00 | | 677 |
| 2 May 96 | 15:06:35 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 678 |
| 2 May 96 | 15:07:01 PM | 011F4C2B13 | A | 12 | DUMMY | | 1 Jan 00 | | 679 |
| 2 May 96 | 15:07:02 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 680 |
| 2 May 96 | 15:07:42 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 682 |
| 2 May 96 | 15:07:42 PM | 1F574C4B16 | 23 | 12 | DUMMY | | 1 Jan 00 | | 681 |
| 2 May 96 | 15:08:13 PM | 1F57402B13 | F4 | 12 | DUMMY | | 1 Jan 00 | | 683 |
| 2 May 96 | 15:08:13 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 684 |
| 2 May 96 | 15:08:52 PM | 1F574C2B10 | FD | 12 | DUMMY | | 1 Jan 00 | BS | 685 |
| 2 May 96 | 15:08:52 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 686 |
| 2 May 96 | 15:58:44 PM | 221B62655D | 61 | 12 | SNAKER | 1 | 13 Apr 96 | | 687 |
| 2 May 96 | 16:03:49 PM | 20195E1B4E | 00 | 10 | LYFE | 1 | 9 Apr 96 | | 688 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 2 May 96 | 16:03:53 PM | 20195E1D4E | 00 | 20 | LYFE | 1 | 9 Apr 96 | D | 689 |
| 2 May 96 | 16:04:16 PM | 221D3F384C | 02 | 20 | SALTRP | 1 | 7 Apr 96 | | 690 |
| 2 May 96 | 16:08:15 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 691 |
| 2 May 96 | 16:08:19 PM | 7F574C2B13 | 60 | 12 | DUMMY | | 1 Jan 00 | | 692 |
| 2 May 96 | 16:08:19 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 693 |
| 2 May 96 | 16:09:13 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 695 |
| 2 May 96 | 16:09:13 PM | 1F574C2B10 | FD | 12 | DUMMY | | 1 Jan 00 | BS | 694 |
| 2 May 96 | 16:10:39 PM | 221D03775E | 17 | 22 | RAPH | 1 | 19 Mar 96 | | 696 |
| 2 May 96 | 16:10:47 PM | 1F674C2B13 | 10 | 12 | DUMMY | | 1 Jan 00 | | 697 |
| 2 May 96 | 16:10:47 PM | 1F574C2B13 | 00 | 12 12 | IMNAHW | 1 | 18 Oct 95 | D | 698 |
| 2 May 96 | 16:10:47 PM | 1F574C2B10 | FD | 12 | DUMMY | | 1 Jan 00 | BS | 699 |
| 2 May 96 | 16:11:05 PM | 1F574C2B13 | FD | 12 | DUMMY | | 1 Jan 00 | BS | 700 |
| 2 May 96 | 16:11:05 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 701 |
| 2 May 96 | 16:11:12 PM | 1F574C2B16 | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 702 |
| 2 May 96 | 16:11:13 PM | 1F574C2B13 | 00 | 12 12 | IMNAHW | 1 | 18 Oct 95 | D | 703 |
| 2 May 96 | 16:11:14 PM | 1F57402B13 | F4 | 12 | DUMMY | | 1 Jan 00 | BS | 704 |
| 2 May 96 | 16:11:17 PM | 1F574C2B73 | 60 | 12 | DUMMY | | 1 Jan 00 | D | 705 |
| 2 May 96 | 16:11:17 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 706 |
| 2 May 96 | 16:11:30 PM | 1F574C2B1F | 0C | 12 | DUMMY | | 1 Jan 00 | | 707 |
| 2 May 96 | 16:11:30 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 708 |
| 2 May 96 | 16:11:47 PM | 1F574C2B16 | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 709 |
| 2 May 96 | 16:11:47 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 710 |
| 2 May 96 | 16:13:04 PM | 1F57402B13 | F4 | 12 | DUMMY | | 1 Jan 00 | BS | 711 |
| 2 May 96 | 16:13:04 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 712 |
| 2 May 96 | 16:13:32 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 714 |
| 2 May 96 | 16:13:32 PM | 1F574C2B16 | 03 | 12 | DUMMY | | 1 Jan 00 | BS | 713 |
| 2 May 96 | 16:14:11 PM | 1F574C2B10 | FD | 12 | DUMMY | | 1 Jan 00 | BS | 715 |
| 2 May 96 | 16:14:11 PM | 1F574C2B13 | 00 | 12 | IMNAHW | 1 | 18 Oct 95 | D | 716 |
| 2 May 96 | 16:14:37 PM | 1F574C2B13 | 00 | 22 | IMNAHW | 1 | 18 Oct 95 | D | 717 |
| 2 May 96 | 16:38:36 PM | 1F622F5E72 | 80 | 10 | IMNTRP | 1 | 25 Oct 95 | | 718 |
| 2 May 96 | 16:38:39 PM | 1F622F5E72 | 80 | 20 | IMNTRP | 1 | 25 Oct 95 | D | 719 |
| 2 May 96 | 23:24:52 PM | 1F7A48356A | 80 | 22 | LEMHHW | 1 | 15 Oct 95 | | 720 |
| 2 May 96 | 23:38:13 PM | 7F7E4E033D | 8B | 10 20 | DUMMY | | 1 Jan 00 | | 721 |
| 2 May 96 | 23:38:14 PM | 7F7E4E003D | 88 | 20 | DUMMY | | 1 Jan 00 | | 722 |
| 2 May 96 | 23:45:57 PM | 416A4E543F | 8C | 22 | LGRRBR | 1 | 29 Apr 96 | | 723 |
| 3 May 96 | 0:19:35 PM | 22383D293D | FD | 10 | CROOKR | 3 | 15 Apr 96 | | 724 |
| 3 May 96 | 0:51:11 PM | 221C0E3C5D | E5 | 20 | SNAKER | 1 | 14 Apr 96 | | 725 |
| 3 May 96 | 7:43:15 PM | 7F7A136F22 | 9D | 22 | SAWTRP | 1 | 4 Nov 95 | | 726 |
| 3 May 96 | 7:45:00 PM | 202E3F7003 | 00 | 10 20 | RAPH | 1 | 19 Mar 96 | | 727 |
| 3 May 96 | 7:56:42 PM | 7F7E4B1125 | 7E | 22 | COLR | 3 | | | 728 |
| 3 May 96 | 8:17:59 PM | 7F7A134153 | A0 | 10 | RAPH | 1 | 19 Mar 96 | | 729 |
| 3 May 96 | 8:18:02 PM | 7F7A134153 | A0 | 20 | RAPH | 1 | 19 Mar 96 | D | 730 |
| 3 May 96 | 8:19:15 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | | 731 |
| 3 May 96 | 8:19:19 PM | 221E20081F | 87 | 10 | DUMMY | | 1 Jan 00 | | 732 |
| 3 May 96 | 8:19:21 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 733 |
| 3 May 96 | 8:29:28 PM | 220020481F | A9 | 10 | DUMMY | | 1 Jan 00 | | 734 |
| 3 May 96 | 8:29:35 PM | 221E204810 | B8 | 10 | DUMMY | | 1 Jan 00 | | 735 |
| 3 May 96 | 8:29:36 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 736 |
| 3 May 96 | 8:29:42 PM | 221E20483B | E3 | 10 | DUMMY | | 1 Jan 00 | | 737 |
| 3 May 96 | 8:29:43 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 738 |
| 3 May 96 | 8:29:58 PM | 221E01481F | A8 | 10 | DUMMY | | 1 Jan 00 | | 739 |
| 3 May 96 | 8:30:00 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 740 |
| 3 May 96 | 8:30:22 PM | 2E1E20481F | D3 | 10 | DUMMY | | 1 Jan 00 | | 741 |
| 3 May 96 | 8:32:39 PM | 415067281B | 3B | 22 | LGRRBR | 1 | 30 Apr 96 | | 742 |
| 3 May 96 | 8:33:59 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 743 |
| 3 May 96 | 8:35:04 PM | 221E204838 | E0 | 10 | DUMMY | | 1 Jan 00 | | 744 |
| 3 May 96 | 8:35:04 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 745 |
| 3 May 96 | 8:35:07 PM | 221E20485D | 05 | 10 | DUMMY | | 1 Jan 00 | | 746 |
| 3 May 96 | 8:35:08 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 747 |
| 3 May 96 | 8:36:32 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 749 |
| 3 May 96 | 8:36:32 PM | 221E204810 | B8 | 10 | DUMMY | | 1 Jan 00 | BS | 748 |
| 3 May 96 | 8:36:37 PM | 221E204808 | B0 | 10 | DUMMY | | 1 Jan 00 | | 750 |
| 3 May 96 | 8:36:38 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 751 |
| 3 May 96 | 8:37:05 PM | 221820481F | C1 | 10 | DUMMY | | 1 Jan 00 | | 752 |
| 3 May 96 | 8:37:07 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 753 |
| 3 May 96 | 8:37:17 PM | 221E204810 | B8 | 10 | DUMMY | | 1 Jan 00 | BS | 754 |
| 3 May 96 | 8:37:17 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 755 |
| 3 May 96 | 8:38:08 PM | 301E20481F | D5 | 10 | DUMMY | | 1 Jan 00 | | 756 |
| 3 May 96 | 8:38:08 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 757 |
| 3 May 96 | 8:39:29 PM | 221E204819 | C1 | 10 | DUMMY | | 1 Jan 00 | | 758 |
| 3 May 96 | 8:39:29 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 759 |
| 3 May 96 | 8:39:32 PM | 221E60481F | 07 | 10 | DUMMY | | 1 Jan 00 | | 760 |
| 3 May 96 | 8:39:35 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 761 |
| 3 May 96 | 8:39:53 PM | 221E20481C | C4 | 10 | DUMMY | | 1 Jan 00 | | 762 |
| 3 May 96 | 8:39:53 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 763 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 3 May 96 | 8:39:58 PM | 221E204810 | B8 | 10 | DUMMY | | 1 Jan 00 | BS | 764 |
| 3 May 96 | 8:39:58 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 765 |
| 3 May 96 | 8:40:09 PM | 221E204810 | B8 | 10 | DUMMY | | 1 Jan 00 | BS | 766 |
| 3 May 96 | 8:40:09 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 767 |
| 3 May 96 | 8:40:12 PM | 221E204810 | B8 | 10 | DUMMY | | 1 Jan 00 | BS | 768 |
| 3 May 96 | 8:40:12 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 769 |
| 3 May 96 | 8:40:21 PM | 220C20481F | B5 | 10 | DUMMY | | 1 Jan 00 | | 770 |
| 3 May 96 | 8:40:21 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 771 |
| 3 May 96 | 8:40:25 PM | 221E204810 | B8 | 10 10 | DUMMY | | 1 Jan 00 | BS | 772 |
| 3 May 96 | 8:40:26 PM | 221E20481F | C7 | 10 10 | LGRFBY | 3 | 24 Apr 96 | D | 773 |
| 3 May 96 | 8:41:15 PM | 221E204810 | B8 | 10 10 | DUMMY | | 1 Jan 00 | BS | 774 |
| 3 May 96 | 8:41:16 PM | 221E20481F | C7 | 10 10 | LGRFBY | 3 | 24 Apr 96 | D | 775 |
| 3 May 96 | 8:41:36 PM | 221E204810 | B8 | 10 | DUMMY | | 1 Jan 00 | BS | 776 |
| 3 May 96 | 8:41:41 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 777 |
| 3 May 96 | 8:41:43 PM | 221E204838 | E0 | 10 | DUMMY | | 1 Jan 00 | BS | 778 |
| 3 May 96 | 8:41:48 PM | 221E20481F | C7 | 10 10 | LGRFBY | 3 | 24 Apr 96 | D | 779 |
| 3 May 96 | 8:41:49 PM | 221E204810 | B8 | 10 | DUMMY | | 1 Jan 00 | BS | 780 |
| 3 May 96 | 8:41:57 PM | 221E20081F | 87 | 10 | DUMMY | | 1 Jan 00 | BS | 781 |
| 3 May 96 | 8:41:57 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 782 |
| 3 May 96 | 8:44:59 PM | 221E204810 | B8 | 10 | DUMMY | | 1 Jan 00 | BS | 783 |
| 3 May 96 | 8:44:59 PM | 221E20481F | C7 | 10 | LGRFBY | 3 | 24 Apr 96 | D | 784 |
| 3 May 96 | 9:11:39 PM | 4167302201 | FB | 10 20 | LGRRRR | 1 | 18 Apr 96 | | 785 |
| 3 May 96 | 9:12:41 PM | 417041067F | 77 | 22 22 | LGRRBR | 1 | 30 Apr 96 | | 786 |
| 3 May 96 | 9:12:42 PM | 4170410640 | 38 | 22 | DUMMY | | 1 Jan 00 | | 787 |
| 3 May 96 | 9:12:45 PM | 417047067F | 7D | 22 | DUMMY | | 1 Jan 00 | | 788 |
| 3 May 96 | 9:12:45 PM | 417041067F | 77 | 22 22 | LGRRBR | 1 | 30 Apr 96 | D | 789 |
| 3 May 96 | 9:12:45 PM | 4170410640 | 38 | 22 | DUMMY | | 1 Jan 00 | BS | 790 |
| 3 May 96 | 9:13:58 PM | 2042203E40 | 00 | 10 | DUMMY | | 1 Jan 00 | | 791 |
| 3 May 96 | 9:17:27 PM | 2042203E40 | 00 | 20 | DUMMY | | 1 Jan 00 | BS | 792 |
| 3 May 96 | 9:39:10 PM | 7F7A1B7A7F | 0D | 12 22 | CLEARC | 1 | 12 Apr 96 | | 793 |
| 3 May 96 | 9:42:55 PM | 4151290F2C | F6 | 10 | LGRRBR | 1 | 30 Apr 96 | | 794 |
| 3 May 96 | 9:45:31 PM | 416B47270B | 25 | 10 | LGRRRR | 1 | 22 Apr 96 | | 795 |
| 3 May 96 | 10:21:39 PM | 2218126760 | 13 | 10 | LGRFBY | 3 | 24 Apr 96 | | 796 |
| 3 May 96 | 10:21:43 PM | 221812676F | 22 | 20 | DUMMY | | 1 Jan 00 | | 798 |
| 3 May 96 | 10:21:43 PM | 2218126760 | 13 | 20 20 | LGRFBY | 3 | 24 Apr 96 | D | 797 |
| 3 May 96 | 10:41:43 PM | 2237724517 | 27 | 22 | SNAKER | 1 | 15 Apr 96 | | 799 |
| 3 May 96 | 10:44:26 PM | 20012C250E | 80 | 22 | CROTRP | 1 | 1 Jun 95 | | 800 |
| 3 May 96 | 10:44:59 PM | 41684D4951 | 8E | 10 20 | LGRRBR | 1 | 30 Apr 96 | | 801 |
| 3 May 96 | 11:16:41 PM | 200A4C5238 | 00 | 10 | SALTRP | 1 | 16 Mar 96 | | 802 |
| 3 May 96 | 11:16:44 PM | 200A4C523B | 03 | 10 10 | DUMMY | | 1 Jan 00 | | 803 |
| 3 May 96 | 11:16:44 PM | 200A4C5238 | 00 | 10 10 | SALTRP | 1 | 16 Mar 96 | D | 804 |
| 4 May 96 | 7:09:13 PM | 41673E6E18 | 6C | 10 | LGRRRR | 1 | 21 Apr 96 | | 805 |
| 4 May 96 | 7:18:24 PM | 416653256D | 8C | 22 | LGRRRR | 1 | 18 Apr 96 | | 806 |
| 4 May 96 | 7:18:27 PM | 416D230546 | 1A | 10 | LGRRBR | 1 | 29 Apr 96 | | 807 |
| 4 May 96 | 7:18:29 PM | 221B5D1B62 | 17 | 10 | SALTRP | 1 | 7 Apr 96 | | 808 |
| 4 May 96 | 7:18:33 PM | 221C6E7E60 | 8A | 22 | DUMMY | | 1 Jan 00 | | 809 |
| 4 May 96 | 7:18:35 PM | 7F7B0A2E27 | 59 | 10 | CLWRNF | 1 | 11 Apr 96 | | 810 |
| 4 May 96 | 7:18:38 PM | 7F7E4B112F | 88 | 10 20 | DUMMY | | 1 Jan 00 | | 811 |
| 4 May 96 | 7:18:39 PM | 2048116720 | 00 | 12 22 | RAPH | 1 | 19 Mar 96 | | 812 |
| 4 May 96 | 7:18:48 PM | 20494D0844 | 00 | 10 | HCD | 3 | 2 Apr 96 | | 813 |
| 4 May 96 | 7:18:52 PM | 20494D0844 | 00 | 20 | HCD | 3 | 2 Apr 96 | D | 814 |
| 4 May 96 | 7:19:05 PM | 22143A1546 | C | 22 | SNAKER | 3 | 21 Apr 96 | | 815 |
| 4 May 96 | 7:19:37 PM | 20420B3B58 | 00 | 12 22 | SNKTRP | 3 | 22 Apr 96 | | 816 |
| 4 May 96 | 7:19:38 PM | 20420B3B5B | 03 | 22 | DUMMY | | 1 Jan 00 | | 817 |
| 4 May 96 | 7:21:29 PM | 221D0F2E64 | E0 | 22 | DUMMY | | 1 Jan 00 | | 819 |
| 4 May 96 | 7:21:29 PM | 221D0F2E67 | E3 | 22 22 | SNAKER | 1 | 14 Apr 96 | | 818 |
| 4 May 96 | 7:49:17 PM | 221E013349 | B | 22 | SNKTRP | 1 | 9 Apr 96 | | 820 |
| 4 May 96 | 7:55:25 PM | 201D7C7750 | 80 | 10 20 | TUCR | 3 | 15 Apr 96 | | 821 |
| 4 May 96 | 8:20:59 PM | 22151D1150 | B5 | 20 | SNAKER | 1 | 13 Apr 96 | | 822 |
| 4 May 96 | 8:24:29 PM | 22151D1153 | B8 | 20 | DUMMY | | 1 Jan 00 | | 823 |
| 4 May 96 | 8:24:30 PM | 22151D1150 | B5 | 20 | SNAKER | 1 | 13 Apr 96 | D | 824 |
| 4 May 96 | 8:28:04 PM | 22151D1150 | B5 | 10 | SNAKER | 1 | 13 Apr 96 | D | 825 |
| 4 May 96 | 8:32:36 PM | 221B023302 | 74 | 10 | SNAKER | 1 | 15 Apr 96 | | 826 |
| 4 May 96 | 8:57:18 PM | 416D1A7A31 | 71 | 20 | LGRRRR | 1 | 21 Apr 96 | | 827 |
| 4 May 96 | 9:01:17 PM | 22181E0662 | C0 | 22 22 | LGRFBY | 3 | 24 Apr 96 | | 828 |
| 4 May 96 | 9:01:18 PM | 22004F4331 | E5 | 22 | DUMMY | | 1 Jan 00 | | 829 |
| 4 May 96 | 9:01:18 PM | 22181E3F31 | C8 | 22 | DUMMY | | 1 Jan 00 | | 830 |
| 4 May 96 | 9:04:29 PM | 2215423176 | 20 | 20 | SNAKER | 1 | 15 Apr 96 | | 831 |
| 4 May 96 | 9:33:37 PM | 7F7A071F3D | 5C | 10 | SNAKER | 1 | 12 Apr 96 | | 832 |
| 4 May 96 | 9:47:30 PM | 416A59192A | 47 | 10 | LGRRRR | 1 | 22 Apr 96 | | 833 |
| 4 May 96 | 9:47:34 PM | 416A59192A | 47 | 20 | LGRRRR | 1 | 22 Apr 96 | D | 834 |
| 4 May 96 | 9:47:48 PM | 1F664C3877 | 80 | 10 | REDTRP | 1 | 15 Oct 95 | | 835 |
| 4 May 96 | 9:47:57 PM | 1F664C3877 | 80 | 20 | REDTRP | 1 | 15 Oct 95 | D | 836 |
| 4 May 96 | 9:48:35 PM | 1F68404475 | 80 | 22 | PAHTRP | 1 | 2 Dec 95 | | 837 |
| 4 May 96 | 9:48:49 PM | 416A32422E | 4D | 20 | LGRRRR | 1 | 21 Apr 96 | | 838 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 4 May 96 | 10:05:57 PM | 1F5E1C0C5B | 00 | 12 | IMNAHW | 1 | 11 Oct 95 | | 839 |
| 4 May 96 | 10:06:00 PM | 1F5E1C0C5B | 00 | 22 | IMNAHW | 1 | 11 Oct 95 | D | 840 |
| 4 May 96 | 10:14:28 PM | 20034E622D | 00 | 22 | REDTRP | 1 | 26 Oct 95 | | 841 |
| 4 May 96 | 10:22:42 PM | 1F57015B2E | 00 | 22 | IMNAHW | 1 | 1 Nov 95 | | 842 |
| 4 May 96 | 10:24:40 PM | 203F3B382E | 00 | 20 | DUMMY | | 1 Jan 00 | | 843 |
| 4 May 96 | 10:25:44 PM | 41510D1418 | C | 10 | LGRRRR | 1 | 16 Apr 96 | | 844 |
| 4 May 96 | 10:26:18 PM | 413136773F | 5E | 10 | DUMMY | | 1 Jan 00 | | 846 |
| 4 May 96 | 10:26:18 PM | 4131367700 | 1F | 10 | LGRRRR | 1 | 24 Apr 96 | | 845 |
| 4 May 96 | 10:33:34 PM | 22180E0103 | 4C | 10 | LGRTAL | 3 | 25 Apr 96 | | 847 |
| 4 May 96 | 10:35:18 PM | 4151015214 | F9 | 10 | LGRRRR | 1 | 20 Apr 96 | | 848 |
| 4 May 96 | 10:38:29 PM | 200A411153F | BF | 10 10 | DUMMY | | 1 Jan 00 | | 849 |
| 4 May 96 | 10:38:29 PM | 200A411500 | 80 | 10 10 | SALTRP | 1 | 18 Mar 96 | | 850 |
| 4 May 96 | 10:40:34 PM | 4168037F34 | 5F | 10 | LGRRRR | 1 | 19 Apr 96 | | 851 |
| 4 May 96 | 10:58:27 PM | 201E1B4A5D | 00 | 22 | TUCH | 1 | 16 Mar 96 | | 852 |
| 4 May 96 | 10:58:52 PM | 222E297032 | 1B | 10 | RAPH | 1 | 19 Mar 96 | | 853 |
| 4 May 96 | 11:02:16 PM | 2218245D7F | 3A | 10 | LGRTAL | 3 | 24 Apr 96 | | 854 |
| 4 May 96 | 11:26:48 PM | 221D026C65 | 12 | 22 | DUMMY | | 1 Jan 00 | | 855 |
| 4 May 96 | 11:27:25 PM | 4168605079 | D2 | 10 | LGRRRR | 1 | 18 Apr 96 | | 856 |
| 4 May 96 | 11:28:57 PM | 20083C643B | 00 | 10 10 | MARTRP | 1 | 30 Sep 95 | | 857 |
| 4 May 96 | 11:28:57 PM | 20083C643B | 03 | 10 | DUMMY | | 1 Jan 00 | | 858 |
| 4 May 96 | 11:31:47 PM | 2212443548 | F5 | 12 22 | LGRFBY | 3 | 24 Apr 96 | | 859 |
| 4 May 96 | 11:54:49 PM | 4167317026 | 6F | 10 | LGRRRR | 1 | 22 Apr 96 | | 860 |
| 4 May 96 | 11:59:54 PM | 1F61295B7C | 80 | 10 20 | LYFE | 1 | 15 Apr 96 | | 861 |
| 4 May 96 | 12:17:01 PM | 221B067254 | 09 | 22 | LGRFBY | 3 | 25 Apr 96 | | 862 |
| 4 May 96 | 12:17:01 PM | 221B067257 | 0C | 22 | | | | | 863 |
| 4 May 96 | 12:17:53 PM | 2003442376 | 00 | 20 | LYFE | 1 | 12 Apr 96 | | 864 |
| 7 May 96 | 7:11:09 PM | 4167052810 | E5 | 20 | LGRRRR | 1 | 18 Apr 96 | | 865 |
| 7 May 96 | 7:12:04 PM | 223144152B | D7 | 22 | DWOR | 3 | 29 Apr 96 | | 866 |
| 7 May 96 | 7:16:36 PM | 416665257D | AE | 22 | LGRRRR | 1 | 23 Apr 96 | | 867 |
| 7 May 96 | 7:27:19 PM | 22155D7472 | 7A | 10 | SNAKER | 3 | 23 Apr 96 | | 868 |
| 7 May 96 | 7:30:53 PM | 221C131944 | AE | 22 | RAPH | 1 | 19 Mar 96 | | 869 |
| 7 May 96 | 7:31:19 PM | 41506C370A | 3E | 10 10 | LGRRBR | 1 | 3 May 96 | | 870 |
| 7 May 96 | 7:31:19 PM | 41106C370A | FE | 10 | | | | | 871 |
| 7 May 96 | 7:31:19 PM | 7F7A1A2C4F | 8E | 12 22 | CLEARC | 1 | 12 Apr 96 | | 872 |
| 7 May 96 | 7:31:54 PM | 41664B1408 | 0E | 10 | LGRRRR | 1 | 25 Apr 96 | | 873 |
| 7 May 96 | 7:33:35 PM | 20114E641D | 00 | 10 | SNKTRP | 1 | 10 Apr 96 | | 874 |
| 7 May 96 | 7:33:42 PM | 20114E641D | 00 | 20 | SNKTRP | 1 | 10 Apr 96 | D | 875 |
| 7 May 96 | 7:34:26 PM | 7F7D411C16 | 6F | 10 | RAPH | 1 | 19 Mar 96 | | 876 |
| 7 May 96 | 7:34:41 PM | 7F7D411C16 | 6F | 20 | RAPH | 1 | 19 Mar 96 | D | 877 |
| 7 May 96 | 7:35:26 PM | 7F7D011C16 | 2F | 20 | | | | | 878 |
| 7 May 96 | 7:35:26 PM | 7F7D411C16 | 6F | 20 | RAPH | 1 | 19 Mar 96 | D | 879 |
| 7 May 96 | 7:40:38 PM | 7F7A100025 | 2E | 10 20 | IMNTRP | 3 | 26 Apr 96 | | 880 |
| 7 May 96 | 7:45:30 PM | 223B1B2203 | 9D | 22 | IMNAHW | 1 | 2 Apr 96 | | 881 |
| 7 May 96 | 7:57:47 PM | 2214642324 | E1 | 10 | LGRTAL | 3 | 26 Apr 96 | | 882 |
| 7 May 96 | 7:58:20 PM | 200A4F6F18 | 00 | 10 | SALTRP | 1 | 20 Mar 96 | | 883 |
| 7 May 96 | 7:59:05 PM | 41672D771C | 68 | 10 20 | LGRRRR | 1 | 24 Apr 96 | | 884 |
| 7 May 96 | 8:05:18 PM | 2214642324 | E1 | 22 | LGRTAL | 3 | 26 Apr 96 | D | 885 |
| 7 May 96 | 8:05:42 PM | 204B3F4412 | 00 | 10 | CLEARC | 1 | 12 Apr 96 | | 886 |
| 7 May 96 | 8:05:46 PM | 204B3F4412 | 00 | 20 | CLEARC | 1 | 12 Apr 96 | D | 887 |
| 7 May 96 | 8:06:52 PM | 2215427A5E | 51 | 10 | SNAKER | 1 | 13 Apr 96 | | 888 |
| 7 May 96 | 8:08:17 PM | 416604243C | 0B | 10 | LGRRBR | 1 | 4 May 96 | | 889 |
| 7 May 96 | 8:35:43 PM | 7F7A175A5F | C9 | 22 | RAPH | 1 | 19 Mar 96 | | 890 |
| 7 May 96 | 8:35:49 PM | 7F7A175A50 | B | 22 22 | | | | | 891 |
| 7 May 96 | 8:35:49 PM | 7F7A175A5F | C9 | 22 22 | RAPH | 1 | 19 Mar 96 | D | 892 |
| 7 May 96 | 8:48:06 PM | 2046054A4B | 00 | 10 | SNKTRP | 1 | 10 Apr 96 | | 893 |
| 7 May 96 | 8:48:09 PM | 2046054A4B | 00 | 20 | SNKTRP | 1 | 10 Apr 96 | D | 894 |
| 7 May 96 | 9:06:34 PM | 2046003961 | 00 | 12 22 | IMNTRP | 3 | 19 Apr 96 | | 895 |
| 7 May 96 | 9:07:02 PM | 22140A4A71 | FB | 10 | LGRFBY | 3 | 25 Apr 96 | | 896 |
| 7 May 96 | 9:29:03 PM | 7F7A0F757D | FA | 10 20 | SNAKER | 1 | 13 Apr 96 | | 897 |
| 7 May 96 | 9:53:48 PM | 221501666E | 0C | 22 | LGRFBY | 3 | 25 Apr 96 | | 898 |
| 7 May 96 | 9:53:49 PM | 416A611825 | 49 | 10 | LGRRBR | 1 | 4 May 96 | | 899 |
| 7 May 96 | 9:53:51 PM | 4167327813 | 65 | 22 | LGRRRR | 1 | 24 Apr 96 | | 900 |
| 7 May 96 | 9:55:16 PM | 41507B6409 | 79 | 22 | LGRRBR | 1 | 4 May 96 | | 901 |
| 7 May 96 | 10:07:13 PM | 4131760472 | 5E | 10 20 | LGRRRR | 1 | 24 Apr 96 | | 902 |
| 7 May 96 | 10:22:14 PM | 222A604205 | F3 | 10 | LGRFBY | 3 | 26 Apr 96 | | 903 |
| 7 May 96 | 10:25:27 PM | 2214314563 | 11 | 10 | LGRFBY | 3 | 26 Apr 96 | | 904 |
| 7 May 96 | 10:45:22 PM | 20487F2C6D | 80 | 10 | SNAKER | 1 | 12 Apr 96 | | 905 |
| 7 May 96 | 10:45:25 PM | 20487F2C6D | 80 | 20 | SNAKER | 1 | 12 Apr 96 | D | 906 |
| 7 May 96 | 10:47:26 PM | 22143E296B | 08 | 22 | SNAKER | 3 | 23 Apr 96 | | 907 |
| 7 May 96 | 11:07:31 PM | 2215042215 | 72 | 12 22 | LGRFBY | 3 | 26 Apr 96 | | 908 |
| 7 May 96 | 11:14:09 PM | 4167046C67 | 7F | 20 | LGRRBR | 1 | 4 May 96 | | 909 |
| 7 May 96 | 11:31:09 PM | 22326A2679 | 5D | 22 | LGRTAL | 3 | 26 Apr 96 | | 910 |
| 7 May 96 | 11:38:40 PM | 41675E736F | EB | 22 | LGRRRR | 1 | 21 Apr 96 | | 911 |
| 7 May 96 | 11:39:08 PM | 41516D3831 | 68 | 10 | LGRRRR | 1 | 18 Apr 96 | | 912 |
| 7 May 96 | 11:39:19 PM | 414C095140 | 27 | 22 | LGRRBR | 1 | 4 May 96 | | 913 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| May 96 | 11:51:38 PM | 4132080F16 | A0 | 10 20 | LGRRDR | 1 | 4 May 96 | | 914 |
| May 96 | 11:53:23 PM | 416B127E7C | B8 | 10 | LGRRRR | 1 | 23 Apr 96 | | 915 |
| May 96 | 11:54:41 PM | 221C60561F | 13 | 10 | SNKTRP | 1 | 19 Apr 96 | | 916 |
| May 96 | 11:54:46 PM | 221C60561F | 13 | 20 | SNKTRP | 1 | 19 Apr 96 | D | 917 |
| May 96 | 11:54:58 PM | 4166750512 | 33 | 20 | LGRRRR | 1 | 23 Apr 96 | | 918 |
| May 96 | 11:56:17 PM | 2214534574 | 42 | 22 | LGRFBY | 3 | 25 Apr 96 | | 919 |
| May 96 | 12:09:10 PM | 415235320A | 04 | 10 | LGRRBR | 1 | 4 May 96 | | 920 |
| May 96 | 18:26:54 PM | 22295E2C43 | 18 | 10 | LGRTAL | 3 | 27 Apr 96 | | 921 |
| May 96 | 18:27:01 PM | 22295E2F06 | DE | 10 | | | | | 922 |
| May 96 | 18:27:05 PM | 22295E2C43 | 18 | 10 | LGRTAL | 3 | 27 Apr 96 | D | 923 |
| May 96 | 18:28:33 PM | 22295E2C40 | 15 | 10 | | | | | 924 |
| May 96 | 18:28:33 PM | 22295E2C43 | 18 | 10 | LGRTAL | 3 | 27 Apr 96 | D | 925 |
| May 96 | 18:30:49 PM | 2214604166 | 3D | 10 20 | LGRFBY | 3 | 27 Apr 96 | | 926 |
| May 96 | 19:10:40 PM | 22295E2C43 | 18 | 10 | LGRTAL | 3 | 27 Apr 96 | D | 927 |
| May 96 | 19:14:40 PM | 221C2B623D | 08 | 20 | SNAKER | 1 | 13 Apr 96 | | 928 |
| May 96 | 19:29:41 PM | 22180E1818 | 78 | 20 | LOOH | 1 | 4 Apr 96 | | 929 |
| May 96 | 19:29:52 PM | 221B075C2B | C | 10 | LOOH | 1 | 4 Apr 96 | | 930 |
| May 96 | 19:47:41 PM | 2229473F05 | D6 | 10 | LGRTAL | 3 | 26 Apr 96 | | 931 |
| May 96 | 19:52:43 PM | 2215143D4C | D4 | 12 | SNAKER | 1 | 15 Apr 96 | | 932 |
| May 96 | 19:57:26 PM | 2215743D4C | 34 | 12 | | | | | 933 |
| May 96 | 19:57:26 PM | 2215143D4C | D4 | 12 | SNAKER | 1 | 15 Apr 96 | D | 934 |
| May 96 | 20:12:26 PM | 221539252C | C1 | 12 | SNAKER | 1 | 13 Apr 96 | | 935 |
| May 96 | 20:23:38 PM | 200F181F1A | 80 | 12 | IMNTRP | 1 | 5 Apr 96 | | 936 |
| May 96 | 20:37:32 PM | 22295E2C43 | 18 | 10 | LGRTAL | 3 | 27 Apr 96 | D | 937 |
| May 96 | 20:54:40 PM | 201E1A5F49 | 00 | 12 | BCANF | 3 | 17 Apr 96 | | 938 |
| May 96 | 20:57:47 PM | 2214695C24 | 1F | 10 | LGRTAL | 3 | 27 Apr 96 | | 939 |
| May 96 | 20:57:58 PM | 2214695C24 | 1F | 20 | LGRTAL | 3 | 27 Apr 96 | D | 940 |
| May 96 | 21:22:16 PM | 221813683F | F4 | 12 | | | | | 941 |
| May 96 | 21:37:08 PM | 41317F7D7E | EA | 10 | LGRRBR | 1 | 4 May 96 | | 942 |
| May 96 | 21:46:58 PM | 41527A3831 | 76 | 12 | LGRRRR | 1 | 23 Apr 96 | | 943 |
| May 96 | 22:06:58 PM | 222A522340 | 01 | 20 | LGRFBY | 3 | 27 Apr 96 | | 944 |
| May 96 | 22:07:27 PM | 222A52234F | 10 | 20 20 | | | | | 945 |
| May 96 | 22:07:27 PM | 222A522340 | 01 | 20 20 | LGRFBY | 3 | 27 Apr 96 | D | 946 |
| May 96 | 22:12:41 PM | 2036045155 | 00 | 10 | BIGCAC | 3 | 22 Apr 96 | | 947 |
| May 96 | 22:12:44 PM | 2036045155 | 00 | 20 | BIGCAC | 3 | 22 Apr 96 | D | 948 |
| May 96 | 22:42:51 PM | 2011163306 | 80 | 10 | SALTRP | 1 | 20 Mar 96 | | 949 |
| May 96 | 22:58:48 PM | 222F67784D | 7D | 12 | RAPII | 1 | 19 Mar 96 | | 950 |
| May 96 | 23:28:41 PM | 221B2B3C1D | C1 | 10 | LGRTAL | 3 | 26 Apr 96 | | 951 |
| May 96 | 0:12:17 PM | 41513A3C59 | 61 | 20 | LGRRRR | 1 | 21 Apr 96 | | 952 |
| May 96 | 1:01:39 PM | 416B09526B | 72 | 12 | LGRRRR | 1 | 24 Apr 96 | | 953 |
| May 96 | 6:56:59 PM | 1F5E7D582E | 80 | | IMNTRP | 1 | 19 Apr 96 | | 954 |
| May 96 | 7:14:52 PM | 416710117C | 45 | | LGRRBR | 1 | 5 May 96 | | 955 |
| May 96 | 7:16:18 PM | 7F7A090621 | 29 | | SNAKER | 1 | 12 Apr 96 | | 956 |
| May 96 | 7:16:52 PM | 7F7A24607C | F9 | | CLEARC | 1 | 12 Apr 96 | | 957 |
| May 96 | 7:16:57 PM | 7F7A24607C | F9 | | CLEARC | 1 | 12 Apr 96 | D | 958 |
| May 96 | 7:17:39 PM | 7F7A09171C | 35 | | RAPII | 1 | 19 Mar 96 | | 959 |
| May 96 | 7:38:04 PM | 41696F6452 | CF | | LGRRRR | 1 | 24 Apr 96 | | 960 |
| May 96 | 7:38:29 PM | 4167096240 | 53 | | LGRRDR | 1 | 26 Apr 96 | | 961 |
| May 96 | 7:38:44 PM | 2229571F6A | 2B | | LGRTAL | 3 | 27 Apr 96 | | 962 |
| May 96 | 7:38:54 PM | 2214701C72 | 34 | | LGRTAL | 3 | 26 Apr 96 | | 963 |
| May 96 | 7:40:04 PM | 221535780F | F3 | | SNAKER | 3 | 21 Apr 96 | | 964 |
| May 96 | 8:01:50 PM | 4151046166 | 5D | | LGRRBR | 1 | 5 May 96 | | 965 |
| May 96 | 8:02:14 PM | 4166404877 | A6 | | LGRRBR | 1 | 3 May 96 | | 966 |
| May 96 | 8:02:40 PM | 7F7D125D0A | 75 | | LGRTAL | 3 | 29 Apr 96 | | 967 |
| May 96 | 8:02:56 PM | 4151076D49 | 4F | | LGRRBR | 1 | 5 May 96 | | 968 |
| May 96 | 8:24:40 PM | 222A456F76 | 76 | | SNAKER | 1 | 11 Apr 96 | | 969 |
| May 96 | 8:32:22 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | | 970 |
| May 96 | 8:37:49 PM | 7F7A083220 | 53 | | | | | | 971 |
| May 96 | 8:37:49 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 972 |
| May 96 | 8:38:18 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 974 |
| May 96 | 8:38:18 PM | 7F7A08023E | 41 | | | | | | 973 |
| May 96 | 8:39:11 PM | 201E1E782C | 00 | | TUCR | 1 | 27 Mar 96 | | 975 |
| May 96 | 8:39:36 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 977 |
| May 96 | 8:39:36 PM | 7F7A0B591F | 7C | | | | | | 976 |
| May 96 | 8:39:50 PM | 7F7A08023E | 41 | | | | | BS | 978 |
| May 96 | 8:39:50 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 979 |
| May 96 | 8:42:35 PM | 7F7A083207 | 3A | | DRYP | 1 | | | 980 |
| May 96 | 8:42:35 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 981 |
| May 96 | 8:43:04 PM | 222433540A | D7 | | LGRTAL | 3 | 27 Apr 96 | | 982 |
| May 96 | 8:44:14 PM | 7F7A08326F | A2 | | | | | | 983 |
| May 96 | 8:44:14 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 984 |
| May 96 | 8:44:49 PM | 7F7A083E3E | 7D | | | | | | 985 |
| May 96 | 8:44:49 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 986 |
| May 96 | 8:45:28 PM | 7F7A083220 | 53 | | | | | BS | 987 |
| May 96 | 8:45:28 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 988 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| May 96 | 8:45:57 PM | 7F7A08323E | 6B | | SIMP | 1 | | | 989 |
| May 96 | 8:45:57 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 990 |
| May 96 | 8:46:56 PM | 7F7A08023E | 41 | | | | | BS | 991 |
| May 96 | 8:46:57 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 992 |
| May 96 | 8:47:05 PM | 7F6208323E | 59 | | | | | | 993 |
| May 96 | 8:47:05 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 994 |
| May 96 | 8:47:48 PM | 7F7A08323E | 6B | | SIMP | 1 | | D | 995 |
| May 96 | 8:47:49 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 996 |
| May 96 | 8:49:17 PM | 407A08323E | 32 | | | | | | 997 |
| May 96 | 8:49:17 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 998 |
| May 96 | 8:50:08 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1000 |
| May 96 | 8:50:08 PM | 7F7A083220 | 53 | | | | | BS | 999 |
| May 96 | 8:50:20 PM | 7F7A083E3E | 7D | | | | | BS | 1001 |
| May 96 | 8:50:20 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1002 |
| May 96 | 8:50:24 PM | 7F7A083207 | 3A | | DRYP | 1 | | D | 1003 |
| May 96 | 8:50:33 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1004 |
| May 96 | 8:52:25 PM | 1F594A3D01 | 00 | | IMNTRP | 1 | 8 Apr 96 | | 1005 |
| May 96 | 8:52:56 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1006 |
| May 96 | 8:52:59 PM | 7F7A083E3E | 7D | | | | | BS | 1007 |
| May 96 | 8:52:59 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1008 |
| May 96 | 8:53:26 PM | 223149493F | 24 | | DWOR | 3 | 29 Apr 96 | | 1009 |
| May 96 | 8:54:41 PM | 7F7A08023E | 41 | | | | | BS | 1010 |
| May 96 | 8:54:41 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1011 |
| May 96 | 8:54:50 PM | 407A08323E | 32 | | | | | BS | 1012 |
| May 96 | 8:55:04 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1013 |
| May 96 | 8:56:09 PM | 7F7A083E3E | 7D | | | | | BS | 1014 |
| May 96 | 8:56:09 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1015 |
| May 96 | 8:56:33 PM | 7F7A083220 | 53 | | | | | BS | 1016 |
| May 96 | 8:56:33 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1017 |
| May 96 | 8:56:42 PM | 7F0208323E | F9 | | | | | | 1018 |
| May 96 | 8:56:42 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1019 |
| May 96 | 8:56:49 PM | 7F7A083220 | 53 | | | | | BS | 1020 |
| May 96 | 8:56:49 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1021 |
| May 96 | 8:57:49 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1023 |
| May 96 | 8:57:49 PM | 7F6208323E | 59 | | | | | BS | 1022 |
| May 96 | 8:57:56 PM | 7F7A083E3E | 7D | | | | | BS | 1024 |
| May 96 | 8:57:57 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1025 |
| May 96 | 8:57:57 PM | 7F7A74191F | A5 | | | | | | 1026 |
| May 96 | 8:58:23 PM | 7F7A08323E | 6B | | SIMP | 1 | | D | 1027 |
| May 96 | 8:58:23 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1028 |
| May 96 | 8:59:08 PM | 7C7A08323E | 6E | | | | | | 1029 |
| May 96 | 8:59:08 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1030 |
| May 96 | 8:59:34 PM | 7F7A08023E | 41 | | | | | BS | 1031 |
| May 96 | 8:59:34 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1032 |
| May 96 | 9:00:14 PM | 7F7A08023E | 41 | | | | | BS | 1033 |
| May 96 | 9:00:14 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1034 |
| May 96 | 9:00:41 PM | 7F6208323E | 59 | | | | | BS | 1035 |
| May 96 | 9:00:41 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1036 |
| May 96 | 9:01:10 PM | 7F0208323E | F9 | | | | | BS | 1037 |
| May 96 | 9:01:10 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1038 |
| May 96 | 9:01:17 PM | 7F7A08327E | B1 | | | | | | 1039 |
| May 96 | 9:01:17 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1040 |
| May 96 | 9:01:41 PM | 7F7A08325F | 92 | | | | | | 1041 |
| May 96 | 9:01:42 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1042 |
| May 96 | 9:02:20 PM | 7F7A08023E | 41 | | | | | BS | 1043 |
| May 96 | 9:02:20 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1044 |
| May 96 | 9:02:26 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1046 |
| May 96 | 9:02:26 PM | 7F0208323E | F9 | | | | | BS | 1047 |
| May 96 | 9:02:26 PM | 7F7A08023E | 41 | | | | | BS | 1045 |
| May 96 | 9:03:16 PM | 7F7A08327E | B1 | | | | | BS | 1048 |
| May 96 | 9:03:16 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1049 |
| May 96 | 9:03:23 PM | 7F7A08323E | 6B | | SIMP | 1 | | D | 1050 |
| May 96 | 9:03:23 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1051 |
| May 96 | 9:04:17 PM | 7F7A08023E | 41 | | | | | BS | 1052 |
| May 96 | 9:04:18 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1053 |
| May 96 | 9:04:28 PM | 7F0208323E | F9 | | | | | BS | 1054 |
| May 96 | 9:04:28 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1055 |
| May 96 | 9:04:40 PM | 7F7A08023E | 41 | | | | | BS | 1056 |
| May 96 | 9:04:40 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1057 |
| May 96 | 9:04:44 PM | 7F7A0B591F | 7C | | | | | BS | 1058 |
| May 96 | 9:04:44 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1059 |
| May 96 | 9:04:50 PM | 7F7A08023E | 41 | | | | | BS | 1060 |
| May 96 | 9:04:50 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1061 |
| May 96 | 9:04:53 PM | 7F7A083E3E | 7D | | | | | BS | 1062 |
| May 96 | 9:04:53 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1063 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 8 May 96 | 9:05:51 PM | 7F0208323E | F9 | | | | | BS | 1064 |
| 8 May 96 | 9:05:51 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1065 |
| 8 May 96 | 9:06:01 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1067 |
| 8 May 96 | 9:06:01 PM | 7F7A08023E | 41 | | | | | BS | 1066 |
| 8 May 96 | 9:07:35 PM | 7F6208323E | 59 | | | | | BS | 1068 |
| 8 May 96 | 9:07:35 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1069 |
| 8 May 96 | 9:07:56 PM | 7C7A08323E | 6E | | | | | BS | 1070 |
| 8 May 96 | 9:07:56 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1071 |
| 8 May 96 | 9:08:42 PM | 407A08323E | 32 | | | | | BS | 1072 |
| 8 May 96 | 9:08:42 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1073 |
| 8 May 96 | 9:08:45 PM | 7F7A08023E | 41 | | | | | BS | 1074 |
| 8 May 96 | 9:08:45 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1075 |
| 8 May 96 | 9:09:11 PM | 7F7A44191F | 75 | | | | | | 1076 |
| 8 May 96 | 9:09:11 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1077 |
| 8 May 96 | 9:09:18 PM | 7F7A08023E | 41 | | | | | BS | 1078 |
| 8 May 96 | 9:09:18 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1079 |
| 8 May 96 | 9:09:20 PM | 7F7A083220 | 53 | | | | | BS | 1080 |
| 8 May 96 | 9:09:22 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1081 |
| 8 May 96 | 9:09:22 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1082 |
| 8 May 96 | 9:09:44 PM | 7F7A08023E | 41 | | | | | BS | 1083 |
| 8 May 96 | 9:09:44 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1084 |
| 8 May 96 | 9:09:52 PM | 7F7A7C191F | A | | | | | | 1085 |
| 8 May 96 | 9:09:52 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1086 |
| 8 May 96 | 9:10:08 PM | 41696C0924 | 43 | | LGRRRR | 1 | 25 Apr 96 | | 1087 |
| 8 May 96 | 9:10:20 PM | 7F6208323E | 59 | | | | | BS | 1088 |
| 8 May 96 | 9:10:20 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1089 |
| 8 May 96 | 9:10:39 PM | 7F7A08763E | B5 | | | | | BS | 1090 |
| 8 May 96 | 9:10:39 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1091 |
| 8 May 96 | 9:12:01 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1093 |
| 8 May 96 | 9:12:01 PM | 7F7A08023E | 41 | | | | | BS | 1092 |
| 8 May 96 | 9:12:10 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1094 |
| 8 May 96 | 9:12:11 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1095 |
| 8 May 96 | 9:12:12 PM | 7F6208323E | 59 | | | | | BS | 1096 |
| 8 May 96 | 9:12:44 PM | 407A08323E | 32 | | | | | BS | 1097 |
| 8 May 96 | 9:12:44 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1098 |
| 8 May 96 | 9:13:17 PM | 7F7A08023E | 41 | | | | | BS | 1099 |
| 8 May 96 | 9:13:17 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1100 |
| 8 May 96 | 9:14:20 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1101 |
| 8 May 96 | 9:14:20 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1102 |
| 8 May 96 | 9:14:26 PM | 7F7A08371F | 57 | | | | | BS | 1103 |
| 8 May 96 | 9:14:26 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1104 |
| 8 May 96 | 9:14:38 PM | 7F0208323E | F9 | | | | | BS | 1105 |
| 8 May 96 | 9:14:38 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1106 |
| 8 May 96 | 9:15:32 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1107 |
| 8 May 96 | 9:15:32 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1108 |
| 8 May 96 | 9:15:38 PM | 7F7A08023E | 41 | | | | | BS | 1109 |
| 8 May 96 | 9:15:38 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1110 |
| 8 May 96 | 9:15:38 PM | 7F0208323E | F9 | | | | | BS | 1111 |
| 8 May 96 | 9:16:22 PM | 7F7A083220 | 53 | | | | | BS | 1112 |
| 8 May 96 | 9:16:23 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1113 |
| 8 May 96 | 9:16:45 PM | 7C7A08323E | 6E | | | | | BS | 1114 |
| 8 May 96 | 9:16:45 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1115 |
| 8 May 96 | 9:17:43 PM | 7F7A08023E | 41 | | | | | BS | 1116 |
| 8 May 96 | 9:17:43 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1117 |
| 8 May 96 | 9:17:53 PM | 2048115037 | 00 | | POWP | 1 | 11 Apr 96 | | 1118 |
| 8 May 96 | 9:17:58 PM | 202E5C1145 | 00 | | DUMMY | | 1 Jan 00 | | 1119 |
| 8 May 96 | 9:19:47 PM | 707A08323E | 62 | | | | | | 1120 |
| 8 May 96 | 9:19:47 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1121 |
| 8 May 96 | 9:24:58 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1122 |
| 8 May 96 | 9:25:13 PM | 7F7A08023E | 41 | | | | | BS | 1123 |
| 8 May 96 | 9:25:13 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1124 |
| 8 May 96 | 9:25:40 PM | 7F7A083E3E | 7D | | | | | BS | 1125 |
| 8 May 96 | 9:25:40 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1126 |
| 8 May 96 | 9:25:43 PM | 7F7A08263E | 65 | | FISHC | 3 | 26 Aug 96 | BS | 1127 |
| 8 May 96 | 9:25:48 PM | 7C7A08323E | 6E | | | | | BS | 1128 |
| 8 May 96 | 9:25:48 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1129 |
| 8 May 96 | 9:25:59 PM | 7F7A08023E | 41 | | | | | BS | 1130 |
| 8 May 96 | 9:25:59 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1131 |
| 8 May 96 | 9:26:23 PM | 7F6208323E | 59 | | | | | BS | 1132 |
| 8 May 96 | 9:26:24 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1133 |
| 8 May 96 | 9:26:26 PM | 7F7A7C191F | A | | | | | D | 1134 |
| 8 May 96 | 9:26:31 PM | 7F7A083E3E | 7D | | | | | BS | 1135 |
| 8 May 96 | 9:26:31 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1136 |
| 8 May 96 | 9:26:45 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1138 |
| 8 May 96 | 9:26:45 PM | 7F7A08023E | 41 | | | | | BS | 1137 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 8 May 96 | 9:27:05 PM | 7F0208323E | F9 | | | | | BS | 1139 |
| 8 May 96 | 9:27:05 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1140 |
| 8 May 96 | 9:27:12 PM | 7F0208323E | F9 | | | | | BS | 1141 |
| 8 May 96 | 9:27:12 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1142 |
| 8 May 96 | 9:27:19 PM | 7F0208323E | F9 | | | | | BS | 1143 |
| 8 May 96 | 9:27:19 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1144 |
| 8 May 96 | 9:27:35 PM | 7F5D04191F | 18 | | | | | | 1145 |
| 8 May 96 | 9:27:35 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1146 |
| 8 May 96 | 9:27:35 PM | 7F7A08023E | 41 | | | | | BS | 1147 |
| 8 May 96 | 9:27:56 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1149 |
| 8 May 96 | 9:27:56 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1148 |
| 8 May 96 | 9:28:32 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1151 |
| 8 May 96 | 9:28:32 PM | 707A08323E | 62 | | | | | BS | 1150 |
| 8 May 96 | 9:29:25 PM | 707A08323E | 62 | | | | | BS | 1152 |
| 8 May 96 | 9:29:25 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1153 |
| 8 May 96 | 9:29:53 PM | 7F0208323E | F9 | | | | | BS | 1154 |
| 8 May 96 | 9:29:53 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1155 |
| 8 May 96 | 9:30:30 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1156 |
| 8 May 96 | 9:30:30 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1157 |
| 8 May 96 | 9:30:55 PM | 7F7A08023E | 41 | | | | | BS | 1158 |
| 8 May 96 | 9:30:55 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1159 |
| 8 May 96 | 9:30:59 PM | 7F7A08023E | 41 | | | | | BS | 1160 |
| 8 May 96 | 9:30:59 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1161 |
| 8 May 96 | 9:31:24 PM | 7F7A08023E | 41 | | | | | BS | 1162 |
| 8 May 96 | 9:31:24 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1163 |
| 8 May 96 | 9:31:53 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1165 |
| 8 May 96 | 9:31:53 PM | 7F6208323E | 59 | | | | | BS | 1164 |
| 8 May 96 | 9:33:47 PM | 7F7A08023E | 41 | | | | | BS | 1166 |
| 8 May 96 | 9:33:47 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1167 |
| 8 May 96 | 9:34:41 PM | 7F7A08263E | 65 | | FISHC | 3 | 26 Aug 96 | BS | 1168 |
| 8 May 96 | 9:34:41 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1169 |
| 8 May 96 | 9:34:51 PM | 7F7A08023E | 41 | | | | | BS | 1170 |
| 8 May 96 | 9:34:52 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1171 |
| 8 May 96 | 9:34:57 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1173 |
| 8 May 96 | 9:34:57 PM | 7C7A08323E | 6E | | | | | BS | 1172 |
| 8 May 96 | 9:35:02 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1175 |
| 8 May 96 | 9:35:02 PM | 7F6208323E | 59 | | | | | BS | 1174 |
| 8 May 96 | 9:35:08 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1176 |
| 8 May 96 | 9:35:08 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1177 |
| 8 May 96 | 9:36:11 PM | 221D034D51 | E0 | | LOOII | 1 | 4 Apr 96 | | 1178 |
| 8 May 96 | 9:36:16 PM | 7F7C08323E | 73 | | | | | | 1179 |
| 8 May 96 | 9:36:16 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1180 |
| 8 May 96 | 9:36:44 PM | 7F7A0B591F | 7C | | | | | BS | 1181 |
| 8 May 96 | 9:36:44 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1182 |
| 8 May 96 | 9:36:45 PM | 7F7A08023E | 41 | | | | | BS | 1183 |
| 8 May 96 | 9:37:40 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1185 |
| 8 May 96 | 9:37:40 PM | 7F7A08023E | 41 | | | | | BS | 1184 |
| 8 May 96 | 9:38:27 PM | 7F0208323E | F9 | | | | | BS | 1186 |
| 8 May 96 | 9:38:27 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1187 |
| 8 May 96 | 9:38:45 PM | 7F7A083E3E | 7D | | | | | BS | 1188 |
| 8 May 96 | 9:38:45 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1189 |
| 8 May 96 | 9:38:58 PM | 7F7A0D691F | BC | | | | | | 1190 |
| 8 May 96 | 9:38:58 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1191 |
| 8 May 96 | 9:39:40 PM | 7F7A08023E | 41 | | | | | BS | 1192 |
| 8 May 96 | 9:39:40 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1193 |
| 8 May 96 | 9:39:58 PM | 7F6208323E | 59 | | | | | BS | 1194 |
| 8 May 96 | 9:39:58 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1195 |
| 8 May 96 | 9:41:01 PM | 7F0208323E | F9 | | | | | BS | 1196 |
| 8 May 96 | 9:41:01 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1197 |
| 8 May 96 | 9:41:09 PM | 7C7A08323E | 6E | | | | | BS | 1198 |
| 8 May 96 | 9:41:09 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1199 |
| 8 May 96 | 9:41:24 PM | 7F7A083E3E | 7D | | | | | BS | 1200 |
| 8 May 96 | 9:41:24 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1201 |
| 8 May 96 | 9:43:36 PM | 7F6208323E | 59 | | | | | BS | 1202 |
| 8 May 96 | 9:43:36 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1203 |
| 8 May 96 | 9:43:51 PM | 7F7A08023E | 41 | | | | | BS | 1204 |
| 8 May 96 | 9:43:51 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1205 |
| 8 May 96 | 9:43:55 PM | 7C7A08323E | 6E | | | | | BS | 1206 |
| 8 May 96 | 9:43:55 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1207 |
| 8 May 96 | 9:43:59 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1209 |
| 8 May 96 | 9:43:59 PM | 7F0208323E | F9 | | | | | BS | 1208 |
| 8 May 96 | 9:46:14 PM | 7F6208323E | 59 | | | | | BS | 1210 |
| 8 May 96 | 9:46:15 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1211 |
| 8 May 96 | 9:46:37 PM | 7F7A08023E | 41 | | | | | BS | 1212 |
| 8 May 96 | 9:46:37 PM | 7F7A08323E | 71 | | RAPII | 1 | 4 Apr 96 | D | 1213 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 8 May 96 | 9:46:48 PM | 7F7A08023E | 41 | | | | | BS | 1214 |
| 8 May 96 | 9:46:48 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1215 |
| 8 May 96 | 9:46:57 PM | 7C7A08323E | 6E | | | | | BS | 1216 |
| 8 May 96 | 9:46:57 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1217 |
| 8 May 96 | 9:47:11 PM | 7F7A083E3E | 7D | | | | | BS | 1218 |
| 8 May 96 | 9:47:11 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1219 |
| 8 May 96 | 9:47:24 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1220 |
| 8 May 96 | 9:47:25 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1221 |
| 8 May 96 | 9:47:26 PM | 7F0208323E | F9 | | | | | BS | 1222 |
| 8 May 96 | 9:47:31 PM | 7C7A08323E | 6E | | | | | BS | 1223 |
| 8 May 96 | 9:47:31 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1224 |
| 8 May 96 | 9:47:35 PM | 707A08323E | 62 | | | | | BS | 1225 |
| 8 May 96 | 9:47:35 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1226 |
| 8 May 96 | 9:47:45 PM | 7F7A083E3E | 7D | | | | | BS | 1227 |
| 8 May 96 | 9:47:45 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1228 |
| 8 May 96 | 9:47:49 PM | 7C7A08323E | 6E | | | | | BS | 1229 |
| 8 May 96 | 9:47:49 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1230 |
| 8 May 96 | 9:50:21 PM | 1F716E4939 | 80 | | FISHC | 3 | 31 Aug 94 | | 1231 |
| 8 May 96 | 9:50:44 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1233 |
| 8 May 96 | 9:50:44 PM | 7F6208323E | 59 | | | | | BS | 1232 |
| 8 May 96 | 9:50:47 PM | 7F7A083E3E | 7D | | | | | BS | 1234 |
| 8 May 96 | 9:52:17 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1236 |
| 8 May 96 | 9:52:17 PM | 7F7A38323E | A1 | | | | | | 1235 |
| 8 May 96 | 9:53:19 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1237 |
| 8 May 96 | 9:53:41 PM | 7C7A08323E | 6E | | | | | BS | 1238 |
| 8 May 96 | 9:53:41 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1239 |
| 8 May 96 | 9:56:29 PM | 7F7A08023E | 41 | | | | | BS | 1240 |
| 8 May 96 | 9:56:29 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1241 |
| 8 May 96 | 9:58:10 PM | 7F6208323E | 59 | | | | | BS | 1242 |
| 8 May 96 | 9:58:10 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1243 |
| 8 May 96 | 9:58:17 PM | 407A08323E | 32 | | | | | BS | 1244 |
| 8 May 96 | 9:58:17 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1245 |
| 8 May 96 | 9:58:20 PM | 7F7A083220 | 53 | | | | | BS | 1246 |
| 8 May 96 | 9:58:21 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1247 |
| 8 May 96 | 9:58:31 PM | 7F7A08023E | 41 | | | | | BS | 1248 |
| 8 May 96 | 9:58:51 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1249 |
| 8 May 96 | 9:58:52 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1250 |
| 8 May 96 | 9:59:53 PM | 7F7A083E3E | 7D | | | | | BS | 1251 |
| 8 May 96 | 9:59:53 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1252 |
| 8 May 96 | 9:59:57 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1253 |
| 8 May 96 | 9:59:57 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1254 |
| 8 May 96 | 10:00:06 PM | 7F0208323E | F9 | | | | | BS | 1255 |
| 8 May 96 | 10:00:06 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1256 |
| 8 May 96 | 10:00:30 PM | 7F7A08023E | 41 | | | | | BS | 1257 |
| 8 May 96 | 10:00:30 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1258 |
| 8 May 96 | 10:00:39 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1260 |
| 8 May 96 | 10:00:39 PM | 7F7A08023E | 41 | | | | | BS | 1259 |
| 8 May 96 | 10:01:23 PM | 7F7A083220 | 53 | | | | | BS | 1261 |
| 8 May 96 | 10:01:23 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1262 |
| 8 May 96 | 10:01:37 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1263 |
| 8 May 96 | 10:01:37 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1264 |
| 8 May 96 | 10:01:43 PM | 7F6208323E | 59 | | | | | BS | 1265 |
| 8 May 96 | 10:01:43 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1266 |
| 8 May 96 | 10:02:11 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1268 |
| 8 May 96 | 10:02:11 PM | 7F7A08023E | 41 | | | | | BS | 1267 |
| 8 May 96 | 10:02:40 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1270 |
| 8 May 96 | 10:02:40 PM | 7F7A08023E | 41 | | | | | BS | 1269 |
| 8 May 96 | 10:03:01 PM | 7F7A08023E | 41 | | | | | BS | 1271 |
| 8 May 96 | 10:03:01 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1272 |
| 8 May 96 | 10:03:06 PM | 7F7A08023E | 41 | | | | | BS | 1273 |
| 8 May 96 | 10:03:06 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1274 |
| 8 May 96 | 10:04:50 PM | 7C7A08323E | 6E | | | | | BS | 1275 |
| 8 May 96 | 10:04:50 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1276 |
| 8 May 96 | 10:05:27 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1277 |
| 8 May 96 | 10:05:27 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1278 |
| 8 May 96 | 10:05:37 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1280 |
| 8 May 96 | 10:05:37 PM | 7C7A08323E | 6E | | | | | BS | 1279 |
| 8 May 96 | 10:07:05 PM | 7F6208323E | 59 | | | | | BS | 1281 |
| 8 May 96 | 10:07:05 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1282 |
| 8 May 96 | 10:07:27 PM | 407A08323E | 32 | | | | | BS | 1283 |
| 8 May 96 | 10:07:27 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1284 |
| 8 May 96 | 10:08:04 PM | 6E7A08323E | 60 | | | | | | 1285 |
| 8 May 96 | 10:08:04 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1286 |
| 8 May 96 | 10:09:08 PM | 7F7A083238 | 6B | | SIMP | 1 | | D | 1287 |
| 8 May 96 | 10:09:08 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1288 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 8 May 96 | 10:10:43 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1290 |
| 8 May 96 | 10:10:43 PM | 7F7A08323E | 6B | | SIMP | 1 | | D | 1289 |
| 8 May 96 | 10:11:30 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1292 |
| 8 May 96 | 10:11:30 PM | 707A08323E | 62 | | | | | BS | 1291 |
| 8 May 96 | 10:12:29 PM | 4167613448 | 85 | | LORRRR | 1 | 24 Apr 96 | | 1293 |
| 8 May 96 | 10:13:08 PM | 7F7A08023E | 41 | | | | | BS | 1294 |
| 8 May 96 | 10:13:08 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1295 |
| 8 May 96 | 10:13:13 PM | 7F7A08023E | 41 | | | | | BS | 1296 |
| 8 May 96 | 10:13:13 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1297 |
| 8 May 96 | 10:14:44 PM | 7F6208323E | 59 | | | | | BS | 1298 |
| 8 May 96 | 10:14:44 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1299 |
| 8 May 96 | 10:15:05 PM | 7F7A08723E | B1 | | | | | BS | 1300 |
| 8 May 96 | 10:15:05 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1301 |
| 8 May 96 | 10:15:21 PM | 407A08323E | 32 | | | | | BS | 1302 |
| 8 May 96 | 10:15:21 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1303 |
| 8 May 96 | 10:15:41 PM | 2219252A06 | 90 | | LORTAL | 3 | 27 Apr 96 | | 1304 |
| 8 May 96 | 10:16:07 PM | 416A2F5A35 | 69 | | LORRRR | 1 | 25 Apr 96 | | 1305 |
| 8 May 96 | 10:17:18 PM | 222A412342 | F2 | | | | | | 1307 |
| 8 May 96 | 10:17:18 PM | 222A41235F | 0F | | LORFBY | 3 | 26 Apr 96 | | 1306 |
| 8 May 96 | 10:18:27 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1308 |
| 8 May 96 | 10:20:28 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | | 1309 |
| 8 May 96 | 10:20:34 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1310 |
| 8 May 96 | 10:20:40 PM | 7F7A08023E | 41 | | | | | BS | 1311 |
| 8 May 96 | 10:20:40 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1312 |
| 8 May 96 | 10:21:32 PM | 7F7A08263E | 65 | | FISHC | 3 | 26 Aug 96 | BS | 1313 |
| 8 May 96 | 10:21:32 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1314 |
| 8 May 96 | 10:22:07 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1316 |
| 8 May 96 | 10:22:07 PM | 7F7A08723E | B1 | | | | | BS | 1315 |
| 8 May 96 | 10:22:44 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1318 |
| 8 May 96 | 10:22:44 PM | 7F7A083E3E | 7D | | | | | BS | 1317 |
| 8 May 96 | 10:22:48 PM | 7F7A08723E | B1 | | | | | BS | 1319 |
| 8 May 96 | 10:22:48 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1320 |
| 8 May 96 | 10:22:53 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1321 |
| 8 May 96 | 10:24:47 PM | 7F7A7D5377 | 40 | | | | | | 1322 |
| 8 May 96 | 10:25:16 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1323 |
| 8 May 96 | 10:25:47 PM | 7F7A155377 | D8 | | LORTAL | 1 | 9 May 95 | | 1324 |
| 8 May 96 | 10:25:51 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1325 |
| 8 May 96 | 10:27:53 PM | 7F7A155007 | 65 | | KNOXB | 1 | 11 Apr 96 | | 1326 |
| 8 May 96 | 10:27:54 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1327 |
| 8 May 96 | 10:28:06 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1329 |
| 8 May 96 | 10:28:06 PM | 7F7A151037 | 55 | | | | | | 1328 |
| 8 May 96 | 10:34:44 PM | 7F7A151037 | 55 | | | | | BS | 1330 |
| 8 May 96 | 10:34:44 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1331 |
| 8 May 96 | 10:34:59 PM | 4167470E3B | 38 | | LORRRR | 1 | 18 Apr 96 | | 1332 |
| 8 May 96 | 10:35:12 PM | 7F7A155007 | 65 | | KNOXB | 1 | 11 Apr 96 | D | 1333 |
| 8 May 96 | 10:35:12 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1334 |
| 8 May 96 | 10:36:14 PM | 7F7A08323E | 71 | | RAPH | 1 | 4 Apr 96 | D | 1335 |
| 8 May 96 | 10:36:15 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1336 |
| 8 May 96 | 10:36:22 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1337 |
| 8 May 96 | 10:37:05 PM | 7F7A155034 | 92 | | | | | | 1338 |
| 8 May 96 | 10:37:05 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1339 |
| 8 May 96 | 10:37:52 PM | 7F7A155034 | 92 | | | | | BS | 1340 |
| 8 May 96 | 10:37:52 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1341 |
| 8 May 96 | 10:39:27 PM | 767A155037 | 8C | | | | | | 1342 |
| 8 May 96 | 10:39:29 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1343 |
| 8 May 96 | 10:39:30 PM | 707A155037 | 86 | | | | | | 1344 |
| 8 May 96 | 10:40:52 PM | 7F62155037 | 7D | | | | | | 1345 |
| 8 May 96 | 10:40:52 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1346 |
| 8 May 96 | 10:40:58 PM | 7F62155037 | 7D | | | | | BS | 1347 |
| 8 May 96 | 10:40:59 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1348 |
| 8 May 96 | 10:41:26 PM | 7F62155037 | 7D | | | | | BS | 1349 |
| 8 May 96 | 10:41:26 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1350 |
| 8 May 96 | 10:43:25 PM | 7F7A155037 | 95 | | RAPH | 1 | 19 Mar 96 | D | 1351 |
| 8 May 96 | 10:43:34 PM | 2224243657 | F7 | | LORTAL | 3 | 27 Apr 96 | | 1352 |
| 8 May 96 | 10:48:15 PM | 22144C0B21 | AE | | LORTAL | 3 | 27 Apr 96 | | 1353 |
| 8 May 96 | 14:53:38 PM | 1F78715820 | 80 | | IMNAHR | 1 | 13 Sep 95 | | 1354 |
| 8 May 96 | 14:53:42 PM | 1F78715820 | 80 | | IMNAHR | 1 | 13 Sep 95 | D | 1355 |
| 8 May 96 | 15:10:33 PM | 2218076C45 | F2 | | LORFBY | 3 | 27 Apr 96 | | 1356 |
| 8 May 96 | 15:12:52 PM | 221E0E146F | D1 | | LORFBY | 3 | 24 Apr 96 | | 1357 |
| 8 May 96 | 15:26:26 PM | 4167245346 | 65 | | LORRBR | 1 | 5 May 96 | | 1358 |
| 8 May 96 | 15:33:03 PM | 222F533843 | 1F | | | 3 | | | 1359 |
| 8 May 96 | 15:35:58 PM | 416748236F | 82 | | LORRRR | 1 | 27 Apr 96 | | 1360 |
| 8 May 96 | 15:36:15 PM | 41673D2777 | 83 | | LORRBR | 1 | 5 May 96 | | 1361 |
| 8 May 96 | 16:00:03 PM | 222A696914 | 32 | | LORFBY | 3 | 27 Apr 96 | | 1362 |
| 8 May 96 | 16:00:03 PM | 22182D3A20 | DF | | LORTAL | 3 | 26 Apr 96 | | 1363 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 8 May 96 | 16:00:04 PM | 221E026F61 | 12 | | LGRTAL | 3 | 25 Apr 96 | | 1364 |
| 8 May 96 | 16:00:29 PM | 22181E2455 | D1 | | LGRTAL | 3 | 26 Apr 96 | | 1365 |
| 8 May 96 | 16:00:34 PM | 221D154510 | A9 | | SNAKER | 1 | 13 Apr 96 | | 1366 |
| 8 May 96 | 16:22:56 PM | 2218170415 | 6A | | LGRFBY | 3 | 25 Apr 96 | | 1367 |
| 8 May 96 | 16:22:59 PM | 2218170415 | 6A | | LGRFBY | 3 | 25 Apr 96 | D | 1368 |
| 8 May 96 | 16:23:24 PM | 2218170435 | 8A | | | | | | 1369 |
| 8 May 96 | 16:23:25 PM | 2218170415 | 6A | | LGRFBY | 3 | 25 Apr 96 | D | 1370 |
| 8 May 96 | 16:46:59 PM | 222434663C | 1C | | LGRFBY | 3 | 27 Apr 96 | | 1371 |
| 8 May 96 | 17:08:12 PM | 41693E144F | 4B | | LGRRBR | 1 | 6 May 96 | | 1372 |
| 8 May 96 | 17:13:26 PM | 2213084726 | A | | LGRFBY | 3 | 24 Apr 96 | | 1373 |
| 8 May 96 | 17:56:18 PM | 4151097240 | 4D | | LGRRBR | 1 | 4 May 96 | | 1374 |
| 8 May 96 | 17:56:34 PM | 22295C224C | 15 | | LGRTAL | 3 | 26 Apr 96 | | 1375 |
| 8 May 96 | 17:56:41 PM | 4151097240 | 4D | | LGRRBR | 1 | 4 May 96 | D | 1376 |
| 8 May 96 | 17:57:24 PM | 4151097240 | 4D | | LGRRBR | 1 | 4 May 96 | D | 1378 |
| 8 May 96 | 17:57:24 PM | 415109724F | 5C | | | | | BS | 1377 |
| 8 May 96 | 17:57:39 PM | 4151094240 | 1D | | | | | | 1379 |
| 8 May 96 | 17:57:39 PM | 4151097240 | 4D | | LGRRBR | 1 | 4 May 96 | D | 1380 |
| 8 May 96 | 17:57:43 PM | 4151097243 | 50 | | | | | | 1381 |
| 8 May 96 | 17:57:43 PM | 4151097240 | 4D | | LGRRBR | 1 | 4 May 96 | D | 1382 |
| 8 May 96 | 18:27:04 PM | 4151097240 | 4D | | LGRRBR | 1 | 4 May 96 | D | 1399 |
| 8 May 96 | 18:27:04 PM | 4151097240 | 4D | | LGRRBR | 1 | 4 May 96 | D | 1383 |
| 8 May 96 | 18:27:05 PM | 4151097243 | 50 | | | | | BS | 1384 |
| 8 May 96 | 18:27:05 PM | 4151097243 | 50 | | | | | BS | 1400 |
| 8 May 96 | 18:27:45 PM | 415109724F | 5C | | | | | BS | 1385 |
| 8 May 96 | 18:27:45 PM | 415109724F | 5C | | | | | BS | 1401 |
| 8 May 96 | 18:27:45 PM | 4151097240 | 4D | | LGRRBR | 1 | 4 May 96 | D | 1402 |
| 8 May 96 | 18:27:45 PM | 4151097240 | 4D | | LGRRBR | 1 | 4 May 96 | D | 1386 |
| 8 May 96 | 18:40:32 PM | 22181D7B6A | 3C | | | | | D | 1387 |
| 8 May 96 | 18:40:32 PM | 22181D7B6A | 3C | | | | | | 1403 |
| 8 May 96 | 18:40:37 PM | 22181D7B6A | 3C | | | | | D | 1404 |
| 8 May 96 | 18:40:37 PM | 22181D7B6A | 3C | | | | | D | 1388 |
| 8 May 96 | 18:45:17 PM | 2224247846 | 28 | | LGRTAL | 3 | 27 Apr 96 | | 1405 |
| 8 May 96 | 18:45:17 PM | 2224247846 | 28 | | LGRTAL | 3 | 27 Apr 96 | D | 1389 |
| 8 May 96 | 18:53:07 PM | 2236737946 | 8A | | LEAV | 1 | 15 Apr 96 | | 1406 |
| 8 May 96 | 18:53:07 PM | 2236737946 | 8A | | LEAV | 1 | 15 Apr 96 | D | 1390 |
| 8 May 96 | 18:56:56 PM | 413167752D | 7B | | LGRRBR | 1 | 5 May 96 | | 1407 |
| 8 May 96 | 18:56:56 PM | 413167752D | 7B | | LGRRBR | 1 | 5 May 96 | D | 1391 |
| 8 May 96 | 19:08:57 PM | 4168710B57 | 7C | | LGRRBR | 1 | 6 May 96 | D | 1392 |
| 8 May 96 | 19:08:57 PM | 4168710B57 | 7C | | LGRRBR | 1 | 6 May 96 | | 1408 |
| 8 May 96 | 19:21:58 PM | 22181A745E | 26 | | LGRTAL | 3 | 27 Apr 96 | D | 1393 |
| 8 May 96 | 19:21:58 PM | 22181A745E | 26 | | LGRTAL | 3 | 27 Apr 96 | | 1409 |
| 8 May 96 | 19:22:10 PM | 416A282B6D | 6B | | LGRRBR | 1 | 5 May 96 | D | 1394 |
| 8 May 96 | 19:22:10 PM | 416A282B6D | 6B | | LGRRBR | 1 | 5 May 96 | | 1410 |
| 8 May 96 | 19:33:46 PM | 200944385B | 00 | | SALTRP | 1 | 17 Mar 96 | D | 1395 |
| 8 May 96 | 19:33:46 PM | 200944385B | 00 | | SALTRP | 1 | 17 Mar 96 | | 1411 |
| 8 May 96 | 19:36:12 PM | 22191F0E54 | B | | LGRFBY | 3 | 25 Apr 96 | | 1412 |
| 8 May 96 | 19:36:12 PM | 22191F0E54 | B | | LGRFBY | 3 | 25 Apr 96 | D | 1396 |
| 8 May 96 | 19:36:29 PM | 222A6C1B3C | 0F | | LGRFBY | 3 | 27 Apr 96 | | 1413 |
| 8 May 96 | 19:36:29 PM | 222A6C1B3C | 0F | | LGRFBY | 3 | 27 Apr 96 | D | 1397 |
| 8 May 96 | 19:40:09 PM | 221E086C46 | FA | | SALTRP | 1 | 11 Apr 96 | D | 1398 |
| 8 May 96 | 19:40:09 PM | 221E086C46 | FA | | SALTRP | 1 | 11 Apr 96 | | 1414 |
| 8 May 96 | 19:55:11 PM | 41691F202B | 14 | | LGRRRR | 1 | 24 Apr 96 | | 1415 |
| 8 May 96 | 20:14:04 PM | 416A375E14 | 54 | | LGRRRR | 1 | 22 Apr 96 | | 1416 |
| 8 May 96 | 20:16:34 PM | 1F59583 17F | 80 | | IMNAHW | 1 | 24 Oct 95 | | 1417 |
| 8 May 96 | 20:16:38 PM | 1F59583 17F | 80 | | IMNAHW | 1 | 24 Oct 95 | D | 1418 |
| 8 May 96 | 20:20:30 PM | 41673F230A | 14 | | LGRRRR | 1 | 25 Apr 96 | | 1419 |
| 8 May 96 | 20:22:53 PM | 416A516406 | 66 | | LGRRRR | 1 | 18 Apr 96 | | 1420 |
| 8 May 96 | 20:27:22 PM | 41511A371F | 02 | | LGRRRR | 1 | 24 Apr 96 | | 1421 |
| 8 May 96 | 20:52:15 PM | 221C2A3B4B | EE | 10 | SNAKER | 1 | 13 Apr 96 | | 1706 |
| 8 May 96 | 21:07:12 PM | 1F57133C3B | 00 | 12 22 | IMNTRP | 1 | 7 Apr 96 | | 1707 |
| 8 May 96 | 21:19:58 PM | 7F7A07174A | 61 | 10 20 | SALRNF | 3 | 16 Apr 96 | | 1708 |
| 8 May 96 | 21:20:55 PM | 416706493A | 31 | 22 | LGRRRR | 1 | 25 Apr 96 | | 1709 |
| 8 May 96 | 21:37:38 PM | 22151E593C | EA | 10 | | | | | 1711 |
| 8 May 96 | 21:37:38 PM | 22151E591C | C | 10 | SNAKER | 3 | 23 Apr 96 | | 1710 |
| 8 May 96 | 21:42:19 PM | 7F7A101B0F | 33 | 10 | CLEARC | 1 | 12 Apr 96 | | 1712 |
| 8 May 96 | 21:42:24 PM | 7F7A101B0F | 33 | 20 | CLEARC | 1 | 12 Apr 96 | D | 1713 |
| 8 May 96 | 21:42:24 PM | 7F7A10030F | 1B | 20 | | | | BS | 1714 |
| 8 May 96 | 22:13:12 PM | 41697C794C | EB | 22 | LGRRBR | 1 | 26 Apr 96 | | 1715 |
| 8 May 96 | 23:57:39 PM | 20461D5E1F | 00 | | SNKTRP | 3 | 25 Apr 96 | | 1422 |
| 9 May 96 | 1:32:40 PM | 204807060B | 80 | | RAPH | 1 | 19 Mar 96 | | 1423 |
| 9 May 96 | 1:32:43 PM | 204807060B | 80 | | RAPH | 1 | 19 Mar 96 | D | 1424 |
| 9 May 96 | 1:35:35 PM | 4169114760 | 62 | | LGRRRR | 1 | 26 Apr 96 | | 1425 |
| 9 May 96 | 1:36:55 PM | 203F40530E | 00 | | SNAKER | 1 | 12 Apr 96 | | 1426 |
| 9 May 96 | 7:17:01 PM | 2218160E73 | D1 | 10 | LOOH | 1 | 4 Apr 96 | | 1427 |
| 9 May 96 | 7:29:43 PM | 222A5F4904 | F8 | 22 | | | | | 1428 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 9 May 96 | 7:29:43 PM | 222A5F4907 | FB | 22 | SNAKER | 3 | 21 Apr 96 | | 1429 |
| 9 May 96 | 7:40:30 PM | 41314B3A53 | 4A | 10 | LGRRBR | 1 | 6 May 96 | | 1430 |
| 9 May 96 | 7:50:05 PM | 4167230A5B | 30 | 10 | LGRRRR | 1 | 18 Apr 96 | | 1431 |
| 9 May 96 | 7:53:18 PM | 221C2F236B | FB | 22 | SNAKER | 1 | 13 Apr 96 | | 1432 |
| 9 May 96 | 7:55:14 PM | 221D331A2F | B | 10 | | | | | 1434 |
| 9 May 96 | 7:55:14 PM | 221D331A20 | A | 10 | SNAKER | 1 | 14 Apr 96 | | 1433 |
| 9 May 96 | 8:17:37 PM | 22144C2916 | C1 | 10 | SNAKER | 3 | 19 Apr 96 | | 1435 |
| 9 May 96 | 8:18:02 PM | 41690F574E | 5E | 10 20 | LGRRBR | 1 | 6 May 96 | | 1436 |
| 9 May 96 | 8:28:03 PM | 41516C6B35 | 9E | 22 | LGRRRR | 1 | 21 Apr 96 | | 1437 |
| 9 May 96 | 8:31:38 PM | 2043042C6D | 00 | 10 20 | LSHEEF | 3 | 29 Apr 96 | | 1438 |
| 9 May 96 | 8:42:25 PM | 222F2A381A | C | 10 | RAPH | 1 | 19 Mar 96 | | 1439 |
| 9 May 96 | 8:42:32 PM | 416A471E77 | 87 | 22 | LGRRBR | 1 | 6 May 96 | | 1440 |
| 9 May 96 | 8:43:03 PM | 222A030A3F | 98 | 10 | LGRFBY | 3 | 25 Apr 96 | | 1441 |
| 9 May 96 | 8:43:05 PM | 20073E514A | 00 | 10 | LOOH | 1 | 4 Apr 96 | | 1442 |
| 9 May 96 | 9:02:57 PM | 4168446526 | 78 | 10 | LGRRRR | 1 | 23 Apr 96 | | 1443 |
| 9 May 96 | 9:09:37 PM | 4168537B23 | 9A | 10 | LGRRRR | 1 | 25 Apr 96 | | 1444 |
| 9 May 96 | 9:11:27 PM | 221D0F7705 | C | 22 | SNAKER | 1 | 15 Apr 96 | | 1445 |
| 9 May 96 | 9:11:32 PM | 223B2D4E35 | 0D | 10 | IMNAHW | 1 | 2 Apr 96 | | 1446 |
| 9 May 96 | 9:12:29 PM | 223F436D37 | 48 | 22 | RIS | 1 | 25 Apr 96 | | 1447 |
| 9 May 96 | 9:12:33 PM | 4169531909 | 1F | 22 | LGRRRR | 1 | 26 Apr 96 | | 1448 |
| 9 May 96 | 9:23:59 PM | 223D1E183F | D4 | 10 | RIS | 3 | 29 Apr 96 | | 1449 |
| 9 May 96 | 9:32:29 PM | 222A4C5003 | EB | 10 | SNAKER | 3 | 3 May 96 | | 1450 |
| 9 May 96 | 10:35:29 PM | 22146A4362 | 45 | 10 | LGRFBY | 3 | 27 Apr 96 | | 1451 |
| 9 May 96 | 10:37:34 PM | 221C05660C | B5 | 10 | SNAKER | 1 | 13 Apr 96 | | 1452 |
| 9 May 96 | 10:39:41 PM | 22182A345C | F4 | 10 | LGRTAL | 3 | 24 Apr 96 | | 1453 |
| 9 May 96 | 10:39:45 PM | 22182A345C | F4 | 20 | LGRTAL | 3 | 24 Apr 96 | D | 1454 |
| 9 May 96 | 11:05:20 PM | 420F6B075B | 1E | 22 | DWOR | 3 | 29 Apr 96 | | 1455 |
| 9 May 96 | 11:05:20 PM | 420C6B075B | 1B | 22 | | | | | 1456 |
| 9 May 96 | 11:19:49 PM | 203C062E70 | 00 | 10 | RAPH | 1 | 19 Mar 96 | | 1457 |
| 9 May 96 | 11:19:49 PM | 203C062E73 | 03 | 10 | | | | | 1458 |
| 9 May 96 | 11:41:46 PM | 203E3F746F | 80 | 22 | RAPH | 1 | 19 Mar 96 | | 1459 |
| 9 May 96 | 11:47:51 PM | 4151014C02 | E1 | 22 | LGRRBR | 1 | 6 May 96 | | 1460 |
| 9 May 96 | 12:01:36 PM | 221C6C452D | 1C | 10 | SNAKER | 1 | 14 Apr 96 | | 1461 |
| 10 May 96 | 7:14:42 PM | 22144C7363 | 58 | 10 | LGRFBY | 3 | 25 Apr 96 | | 1462 |
| 10 May 96 | 7:32:47 PM | 224264055D | 2A | 10 | LOOH | 1 | 4 Apr 96 | | 1463 |
| 10 May 96 | 10:23:26 PM | 223F3E7825 | 3C | 10 | RIS | 4 | 25 Apr 96 | | 1464 |
| 10 May 96 | 10:27:13 PM | 4151211743 | 0D | 22 | LGRRBR | 1 | 7 May 96 | | 1465 |
| 10 May 96 | 10:29:02 PM | 7F7B0E453E | 8B | 22 | REDRSF | 3 | 2 Sep 93 | BS | 1466 |
| 10 May 96 | 10:30:28 PM | 221544745D | 4C | 22 | DUMMY | | 1 Jan 00 | | 1467 |
| 10 May 96 | 10:31:32 PM | 4167347878 | C | 10 10 | LGRRRR | 1 | 25 Apr 96 | | 1468 |
| 10 May 96 | 10:31:32 PM | 41673478 7B | CF | 10 | | | | | 1469 |
| 10 May 96 | 11:18:58 PM | 200317487E | 00 | 10 | SALEFW | 1 | 14 Oct 95 | | 1470 |
| 10 May 96 | 11:19:01 PM | 200317487E | 00 | 20 | SALEFW | 1 | 14 Oct 95 | D | 1471 |
| 10 May 96 | 11:23:07 PM | 20354A5D04 | 00 | 10 | RAPH | 1 | 3 Apr 96 | | 1472 |
| 10 May 96 | 11:23:11 PM | 20354A5D04 | 00 | 20 | RAPH | 1 | 3 Apr 96 | D | 1473 |
| 10 May 96 | 11:23:20 PM | 221E080559 | A6 | 22 | LGRFBY | 3 | 27 Apr 96 | | 1474 |
| 10 May 96 | 11:25:50 PM | 2218253640 | D5 | 10 | LGRTAL | 3 | 24 Apr 96 | | 1475 |
| 11 May 96 | 7:53:52 PM | 4152013B18 | E7 | 10 | LGRRBR | 1 | 9 May 96 | | 1476 |
| 11 May 96 | 7:53:52 PM | 4152013B1B | EA | 10 | | | | | 1477 |
| 11 May 96 | 8:22:07 PM | 4167395365 | 99 | 10 | LGRRRR | 1 | 25 Apr 96 | | 1478 |
| 11 May 96 | 9:16:53 PM | 221D037053 | 05 | 22 | SNAKER | 1 | 15 Apr 96 | | 1479 |
| 11 May 96 | 9:50:35 PM | 221400642A | C4 | 22 | LGRTAL | 3 | 26 Apr 96 | | 1480 |
| 11 May 96 | 10:13:55 PM | 200A437C17 | 00 | 12 22 | SALTRP | 1 | 17 Mar 96 | | 1481 |
| 11 May 96 | 10:14:56 PM | 2240295503 | E3 | 22 | CLEARC | 1 | 12 Apr 96 | | 1482 |
| 11 May 96 | 10:15:45 PM | 4166152B0F | F6 | 22 | LGRRBR | 1 | 7 May 96 | | 1483 |
| 11 May 96 | 10:40:28 PM | 203E38006A | 00 | 22 | HAZARC | 3 | 11 Apr 96 | | 1484 |
| 11 May 96 | 11:01:30 PM | 204B3A6B70 | 80 | 10 | CLEARC | 1 | 12 Apr 96 | | 1485 |
| 11 May 96 | 11:01:36 PM | 204B3A6B73 | 83 | 10 | | | | | 1486 |
| 11 May 96 | 11:01:36 PM | 204B3A6B70 | 80 | 10 | CLEARC | 1 | 12 Apr 96 | D | 1487 |
| 11 May 96 | 11:01:40 PM | 204B3A6B70 | 80 | 20 | CLEARC | 1 | 12 Apr 96 | D | 1488 |
| 11 May 96 | 11:06:50 PM | 416A253F46 | 55 | 22 | LGRRRR | 1 | 25 Apr 96 | | 1489 |
| 11 May 96 | 11:09:43 PM | 22295A752D | 47 | 22 | LGRTAL | 3 | 26 Apr 96 | | 1490 |
| 11 May 96 | 11:47:33 PM | 41674B1C2A | 39 | 22 | LGRRRR | 1 | 25 Apr 96 | | 1491 |
| 11 May 96 | 12:00:43 PM | 41685F6037 | BF | 10 | LGRRBR | 1 | 9 May 96 | | 1492 |
| 11 May 96 | 12:15:29 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | | 1493 |
| 11 May 96 | 12:46:20 PM | 221C32486F | 27 | 22 | | | | | 1494 |
| 11 May 96 | 12:46:20 PM | 221C324863 | 1B | 22 22 | SNAKER | 1 | 13 Apr 96 | D | 1495 |
| 11 May 96 | 12:46:20 PM | 221C624863 | 4B | 22 | | | | | 1496 |
| 11 May 96 | 12:50:04 PM | 221C32486F | 27 | 22 | | | | BS | 1497 |
| 11 May 96 | 12:50:05 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1498 |
| 11 May 96 | 12:50:56 PM | 221C324847 | FF | 22 | | | | | 1499 |
| 11 May 96 | 12:52:03 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1500 |
| 11 May 96 | 12:58:34 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1502 |
| 11 May 96 | 12:58:34 PM | 221C324860 | 18 | 22 | | | | | 1501 |
| 11 May 96 | 12:58:45 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1504 |

ppendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 1 May 96 | 12:58:45 PM | 261C324863 | 1F | 22 | | | | | 1503 |
| 1 May 96 | 12:59:09 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1506 |
| 1 May 96 | 12:59:09 PM | 241C324863 | 1D | 22 | | | | | 1505 |
| 1 May 96 | 12:59:17 PM | 221C321863 | EB | 22 | | | | | 1507 |
| 1 May 96 | 12:59:17 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1508 |
| 1 May 96 | 13:09:18 PM | 241C324863 | 1D | 22 | | | | BS | 1509 |
| 1 May 96 | 13:09:44 PM | 221C324863 | 1B | 22 22 | SNAKER | 1 | 13 Apr 96 | D | 1510 |
| 1 May 96 | 13:09:44 PM | 221C324860 | 18 | 22 | | | | BS | 1511 |
| 1 May 96 | 13:09:48 PM | 221C327863 | 4B | 22 | | | | | 1512 |
| 1 May 96 | 13:09:49 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1513 |
| 1 May 96 | 13:09:52 PM | 221C320063 | D3 | 22 | | | | | 1514 |
| 1 May 96 | 13:09:52 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1515 |
| 1 May 96 | 13:10:11 PM | 221C32486F | 27 | 22 | | | | BS | 1516 |
| 1 May 96 | 13:10:11 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1517 |
| 1 May 96 | 13:10:44 PM | 221C324860 | 18 | 22 | | | | BS | 1518 |
| 11 May 96 | 13:10:44 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1519 |
| 11 May 96 | 13:11:34 PM | 221C324863 | 1B | 22 22 | SNAKER | 1 | 13 Apr 96 | D | 1521 |
| 11 May 96 | 13:11:34 PM | 2E1C324863 | 27 | 22 | | | | BS | 1520 |
| 11 May 96 | 13:11:35 PM | 221C324800 | B8 | 22 | | | | | 1522 |
| 11 May 96 | 13:11:43 PM | 221C32486F | 27 | 22 | | | | BS | 1523 |
| 11 May 96 | 13:11:43 PM | 221C324863 | 1B | 22 22 | SNAKER | 1 | 13 Apr 96 | D | 1524 |
| 11 May 96 | 13:11:43 PM | 221C324803 | B | 22 | | | | | 1525 |
| 11 May 96 | 13:11:47 PM | 221C324860 | 18 | 22 | | | | BS | 1526 |
| 11 May 96 | 13:11:47 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1527 |
| 11 May 96 | 13:13:00 PM | 221C724863 | 5B | 22 | | | | | 1528 |
| 11 May 96 | 13:13:18 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1529 |
| 11 May 96 | 13:13:30 PM | 221C324860 | 18 | 22 | | | | BS | 1530 |
| 11 May 96 | 13:13:30 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1531 |
| 11 May 96 | 13:13:37 PM | 221C327863 | 4B | 22 | | | | BS | 1532 |
| 11 May 96 | 13:13:37 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1533 |
| 11 May 96 | 13:14:22 PM | 2210324863 | 0F | 22 | | | | | 1534 |
| 11 May 96 | 13:14:50 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1535 |
| 11 May 96 | 13:20:29 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1537 |
| 11 May 96 | 13:20:29 PM | 221C324803 | B | 22 | | | | BS | 1536 |
| 11 May 96 | 13:20:37 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1539 |
| 11 May 96 | 13:20:37 PM | 221C324860 | 18 | 22 | | | | BS | 1538 |
| 11 May 96 | 13:20:53 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1541 |
| 11 May 96 | 13:20:53 PM | 221C324860 | 18 | 22 | | | | BS | 1540 |
| 11 May 96 | 13:29:37 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1542 |
| 11 May 96 | 13:29:50 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1544 |
| 11 May 96 | 13:29:50 PM | 221C324803 | B | 22 | | | | BS | 1543 |
| 11 May 96 | 13:30:03 PM | 221C324860 | 18 | 22 | | | | BS | 1545 |
| 11 May 96 | 13:30:07 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1546 |
| 11 May 96 | 13:30:12 PM | 221C324803 | B | 22 | | | | BS | 1547 |
| 11 May 96 | 13:30:13 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1548 |
| 11 May 96 | 13:30:29 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1550 |
| 11 May 96 | 13:30:29 PM | 221C320863 | D | 22 | | | | | 1549 |
| 11 May 96 | 13:30:44 PM | 221C320863 | D | 22 | | | | BS | 1551 |
| 11 May 96 | 13:30:45 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1552 |
| 11 May 96 | 13:30:52 PM | 221C344863 | 1D | 22 | | | | BS | 1553 |
| 11 May 96 | 13:30:52 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1554 |
| 11 May 96 | 13:31:08 PM | 221C324863 | 1B | 22 22 | SNAKER | 1 | 13 Apr 96 | D | 1556 |
| 11 May 96 | 13:31:08 PM | 221C324860 | 18 | 22 | | | | BS | 1555 |
| 11 May 96 | 13:31:11 PM | 221C324860 | 18 | 22 | | | | BS | 1557 |
| 11 May 96 | 13:31:29 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1559 |
| 11 May 96 | 13:31:29 PM | 221C324860 | 18 | 22 | | | | BS | 1558 |
| 11 May 96 | 13:32:02 PM | 221C324860 | 18 | 22 | | | | BS | 1560 |
| 11 May 96 | 13:32:02 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1561 |
| 11 May 96 | 13:32:27 PM | 221C324860 | 18 | 22 | | | | BS | 1562 |
| 11 May 96 | 13:32:27 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1563 |
| 11 May 96 | 13:32:31 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1565 |
| 11 May 96 | 13:32:31 PM | 221C324860 | 18 | 22 | | | | BS | 1564 |
| 11 May 96 | 13:32:44 PM | 227C324863 | 7B | 22 | | | | | 1566 |
| 11 May 96 | 13:32:44 PM | 221C324863 | 1B | 22 22 | SNAKER | 1 | 13 Apr 96 | D | 1567 |
| 11 May 96 | 13:32:47 PM | 221C324860 | 18 | 22 22 | | | | BS | 1568 |
| 11 May 96 | 13:32:48 PM | 221C324863 | 1B | 22 22 | SNAKER | 1 | 13 Apr 96 | D | 1570 |
| 11 May 96 | 13:32:48 PM | 2210324863 | 0F | 22 | | | | BS | 1569 |
| 11 May 96 | 13:33:05 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1572 |
| 11 May 96 | 13:33:05 PM | 221C325063 | 23 | 22 | | | | | 1571 |
| 11 May 96 | 13:33:15 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1574 |
| 11 May 96 | 13:33:15 PM | 2210324863 | 0F | 22 | | | | BS | 1573 |
| 11 May 96 | 13:33:21 PM | 221C324803 | B | 22 | | | | BS | 1575 |
| 11 May 96 | 13:33:21 PM | 221C324863 | 1B | 22 | SNAKER | 1 | 13 Apr 96 | D | 1576 |
| 13 May 96 | 9:09:09 PM | 4151797557 | D7 | 22 | LGRRRR | 1 | 20 Apr 96 | | 1716 |
| 13 May 96 | 9:34:43 PM | 4167094F3C | 3C | 22 | LGRRRR | 1 | 24 Apr 96 | | 1717 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 13 May 96 | 9:57:07 PM | 416A777404 | 9A | 10 | LGRRBR | 1 | 9 May 96 | | 1718 |
| 13 May 96 | 12:03:31 PM | 2219371236 | B | 22 | SNAKER | 3 | 3 May 96 | | 1719 |
| 13 May 96 | 12:04:52 PM | 22405A2A25 | 0B | 10 | RIS | 3 | 1 May 96 | | 1720 |
| 13 May 96 | 12:34:35 PM | 204210543A | 00 | 22 | SALTRP | 1 | 3 Apr 96 | | 1721 |
| 13 May 96 | 13:32:51 PM | 201F1A4463 | 00 | 20 | SALTRP | 3 | 24 Apr 96 | | 1722 |
| 13 May 96 | 14:25:45 PM | 7F7E2F3028 | 84 | 22 | Test tag | | | | 1723 |
| 13 May 96 | 14:25:49 PM | 7F7E2F3028 | 84 | 12 | Test tag | | | | 1724 |
| 13 May 96 | 14:26:25 PM | 7F7E2F3028 | 84 | 20 10 | Test tag | | | | 1725 |
| 13 May 96 | 14:26:53 PM | 7F7E2F302B | 87 | 12 | COLR | 3 | | | 1726 |
| 13 May 96 | 14:26:53 PM | 7F7E2F3028 | 84 | 12 | Test tag | | | | 1727 |
| 13 May 96 | 14:27:08 PM | 7F7E2F302B | 87 | 20 10 | COLR | 3 | | D | 1728 |
| 13 May 96 | 14:27:10 PM | 7F7E2F3028 | 84 | 10 20 | Test tag | | | | 1729 |
| 13 May 96 | 14:27:12 PM | 7F7E2F302B | 87 | 20 | COLR | 3 | | D | 1730 |
| 13 May 96 | 14:32:03 PM | 7F7E4A583A | D9 | 22 | Test tag | | | | 1731 |
| 13 May 96 | 14:32:37 PM | 7F7E4A583A | D9 | 12 | Test tag | | | | 1732 |
| 13 May 96 | 14:32:54 PM | 7F7E4A5822 | C1 | 22 | | | | | 1733 |
| 13 May 96 | 14:32:56 PM | 7F7E4A583A | D9 | 10 | Test tag | | | | 1734 |
| 13 May 96 | 14:35:44 PM | 7F7E4A583A | D9 | 22 22 | Test tag | | | | 1735 |
| 13 May 96 | 14:35:45 PM | 4001252C5D | EF | 22 | | | | | 1736 |
| 13 May 96 | 14:37:26 PM | 7F7E4A583A | D9 | 20 | Test tag | | | | 1737 |
| 13 May 96 | 14:40:00 PM | 4001252C5D | EF | 12 | | | | D | 1738 |
| 13 May 96 | 14:40:00 PM | 7F7E4A583A | D9 | 12 12 | Test tag | | | | 1739 |
| 13 May 96 | 14:40:00 PM | 7F004A583A | 5B | 12 | | | | | 1740 |
| 13 May 96 | 14:40:51 PM | 7F7E4A5822 | C1 | 20 | | | | D | 1741 |
| 13 May 96 | 14:58:54 PM | 41686A6117 | 8B | 10 | LGRRRR | 1 | 30 Apr 96 | | 1742 |
| 13 May 96 | 15:02:42 PM | 1F621A0C59 | 00 | 10 20 | SNKTRP | 3 | 26 Apr 96 | | 1743 |
| 13 May 96 | 15:22:45 PM | 7F7A11345E | 9C | 10 | RAPH | 1 | 19 Mar 96 | | 1744 |
| 13 May 96 | 15:22:48 PM | 7F7A11345E | 9C | 20 | RAPH | 1 | 19 Mar 96 | D | 1745 |
| 13 May 96 | 19:15:39 PM | 7F7E495A77 | 17 | 20 | | | | | 1746 |
| 13 May 96 | 20:28:51 PM | 2047110B7D | 00 | 22 | HAZARC | 3 | 11 Apr 96 | | 1747 |
| 13 May 96 | 20:40:45 PM | 200A3F3A5D | 00 | 22 | DUMMY | | 1 Jan 00 | | 1748 |
| 13 May 96 | 21:22:48 PM | 41684F4F73 | B | 10 | LGRRRR | 1 | 3 May 96 | | 1749 |
| 13 May 96 | 21:53:40 PM | 221E07516C | 04 | 10 | DESCHR | 1 | 23 Apr 96 | | 1750 |
| 17 May 96 | 6:56:30 PM | 7F7A100077 | 80 | 10 | SNAKER | 1 | 12 Apr 96 | | 1751 |
| 17 May 96 | 6:56:36 PM | 7F7A100077 | 80 | 20 20 | SNAKER | 1 | 12 Apr 96 | D | 1752 |
| 17 May 96 | 6:56:36 PM | 7F7A100074 | 7D | 20 | SNAKER | 1 | 12 Apr 96 | | 1753 |
| 17 May 96 | 6:56:43 PM | 7F7A700077 | E0 | 20 | | | | | 1754 |
| 17 May 96 | 6:56:43 PM | 7F7A100077 | 80 | 20 20 | SNAKER | 1 | 12 Apr 96 | D | 1755 |
| 17 May 96 | 6:56:44 PM | 7F7A100074 | 7D | 20 | SNAKER | 1 | 12 Apr 96 | D | 1756 |
| 17 May 96 | 8:39:50 PM | 223D240575 | FD | 20 | RIS | 1 | 25 Apr 96 | | 1757 |
| 17 May 96 | 8:40:09 PM | 41680D0669 | 25 | 22 | LGRRBR | 1 | 7 May 96 | | 1758 |
| 17 May 96 | 11:18:56 PM | 4168012859 | 2B | 22 | LGRRBR | 1 | 14 May 96 | | 1759 |
| 17 May 96 | 11:41:35 PM | 204B75762A | 80 | 10 20 | CLEARC | 1 | 12 Apr 96 | | 1760 |
| 17 May 96 | 12:07:00 PM | 22367B2469 | 60 | 22 | LEAV | 1 | 15 Apr 96 | | 1761 |
| 17 May 96 | 12:07:38 PM | 4153146E36 | 4C | 10 | LGRRBR | 1 | 12 May 96 | | 1762 |
| 17 May 96 | 12:07:42 PM | 4153146E36 | 4C | 20 | LGRRBR | 1 | 12 May 96 | D | 1763 |
| 17 May 96 | 13:11:03 PM | 41670E684D | 6B | 22 | LGRRRR | 1 | 25 Apr 96 | | 1764 |
| 17 May 96 | 13:12:39 PM | 221A085C03 | A3 | 10 | | | | | 1765 |
| 17 May 96 | 13:12:39 PM | 221B085C03 | A4 | 10 | LOOH | 1 | 4 Apr 96 | | 1766 |
| 18 May 96 | 6:44:16 PM | 4152406D44 | 84 | 10 | LGRRBR | 1 | 15 May 96 | | 1767 |
| 18 May 96 | 7:06:56 PM | 7F7A15455A | A | 12 22 | RAPH | 1 | 19 Mar 96 | | 1768 |
| 18 May 96 | 7:35:14 PM | 203F4E567D | 80 | 10 20 | RAPH | 1 | 19 Mar 96 | | 1769 |
| 18 May 96 | 8:25:16 PM | 1F62721776 | 80 | 10 20 | MARTRP | 1 | 19 Oct 95 | | 1770 |
| 18 May 96 | 8:26:17 PM | 416A75083B | 63 | 20 | LGRRBR | 1 | 15 May 96 | | 1771 |
| 18 May 96 | 8:26:22 PM | 413143231F | F7 | 10 20 | LGRRRR | 1 | 27 Apr 96 | | 1772 |
| 18 May 96 | 8:26:24 PM | 413143237F | 57 | 20 | | | | | 1773 |
| 18 May 96 | 8:27:52 PM | 416937471C | 44 | 10 | LGRRBR | 1 | 15 May 96 | | 1774 |
| 18 May 96 | 9:22:21 PM | 416869157A | A1 | 22 | LGRRBR | 1 | 15 May 96 | | 1775 |
| 18 May 96 | 9:22:50 PM | 7F7A1C0375 | 8D | 10 20 | CLEARC | 1 | 12 Apr 96 | | 1776 |
| 18 May 96 | 10:09:06 PM | 41507D7311 | 92 | 20 | LGRRBR | 1 | 15 May 96 | | 1777 |
| 20 May 96 | 6:55:06 PM | 222D376621 | 0D | 20 | DWOR | 3 | 3 May 96 | | 1778 |
| 20 May 96 | 7:23:10 PM | 7F7A102C36 | 6B | 10 20 | CLEARC | 1 | 12 Apr 96 | | 1779 |
| 20 May 96 | 7:23:17 PM | 7F7A246A07 | 8E | 10 | CLEARC | 1 | 12 Apr 96 | | 1780 |
| 20 May 96 | 7:23:45 PM | 204318661F | 00 | 10 10 | CURP | 1 | 10 Apr 96 | | 1781 |
| 20 May 96 | 7:23:45 PM | 2043186610 | F1 | 10 | | | | | 1782 |
| 20 May 96 | 7:24:08 PM | 20093352B77 | 00 | 10 | RAPH | 1 | 19 Mar 96 | | 1783 |
| 20 May 96 | 7:45:31 PM | 4166476E25 | 81 | 22 | LGRRRR | 1 | 1 May 96 | | 1784 |
| 20 May 96 | 7:51:56 PM | 41680C775A | 86 | 22 | LGRRBR | 1 | 17 May 96 | | 1785 |
| 20 May 96 | 8:18:13 PM | 4169091172 | 36 | 22 | LGRRBR | 1 | 17 May 96 | | 1786 |
| 20 May 96 | 8:44:24 PM | 2007416C2C | 00 | 10 20 | SAWTRP | 1 | 10 Apr 96 | | 1787 |
| 20 May 96 | 8:47:10 PM | 4154721412 | 2D | 12 | DWOR | 3 | 29 Apr 96 | | 1788 |
| 20 May 96 | 8:48:10 PM | 4154722412 | 3D | 12 | | | | | 1789 |
| 20 May 96 | 8:48:10 PM | 4154721412 | 2D | 12 | DWOR | 3 | 29 Apr 96 | D | 1790 |
| 20 May 96 | 9:16:03 PM | 4154721412 | 2D | 12 | DWOR | 3 | 29 Apr 96 | D | 1791 |
| 20 May 96 | 10:03:16 PM | 221B05300B | 7A | 20 | | | | | 1792 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 20 May 96 | 10:03:16 PM | 2218053A0B | 84 | 20 | DESCHR | 1 | 23 Apr 96 | | 1793 |
| 20 May 96 | 10:03:37 PM | 41506C6E68 | D3 | 10 | LGRRRR | 1 | 25 Apr 96 | | 1794 |
| 20 May 96 | 10:03:46 PM | 20090F2523 | 80 | 12 22 | LOOH | 1 | 4 Apr 96 | | 1795 |
| 20 May 96 | 10:03:47 PM | 41506C6E68 | D3 | 20 20 | LGRRRR | 1 | 25 Apr 96 | D | 1796 |
| 20 May 96 | 10:03:48 PM | 41506C6E6B | D6 | 20 20 | | | | | 1797 |
| 20 May 96 | 10:03:50 PM | 41506C6868 | C | 20 | | | | | 1798 |
| 20 May 96 | 10:03:50 PM | 41506C6E68 | D3 | 20 20 | LGRRRR | 1 | 25 Apr 96 | D | 1799 |
| 20 May 96 | 10:03:52 PM | 41506C6E6B | D6 | 20 | | | | BS | 1800 |
| 20 May 96 | 10:04:00 PM | 41106C6E68 | 93 | 20 | | | | | 1801 |
| 20 May 96 | 10:04:00 PM | 41506C6E68 | D3 | 20 | LGRRRR | 1 | 25 Apr 96 | D | 1802 |
| 20 May 96 | 10:04:07 PM | 41506C6E6B | D6 | 20 | | | | BS | 1803 |
| 20 May 96 | 10:04:07 PM | 41506C6E68 | D3 | 20 | LGRRRR | 1 | 25 Apr 96 | D | 1804 |
| 20 May 96 | 10:04:11 PM | 47506C6E68 | D9 | 20 | | | | | 1805 |
| 20 May 96 | 10:04:11 PM | 41506C6E68 | D3 | 20 20 | LGRRRR | 1 | 25 Apr 96 | D | 1806 |
| 20 May 96 | 10:04:11 PM | 41506C6E6B | D6 | 20 20 | | | | BS | 1807 |
| 20 May 96 | 10:04:12 PM | 41500C6E68 | 73 | 20 20 | | | | | 1808 |
| 20 May 96 | 10:04:14 PM | 41506C6E68 | D3 | 20 20 | LGRRRR | 1 | 25 Apr 96 | D | 1809 |
| 20 May 96 | 10:04:15 PM | 41506C6E08 | 73 | 20 | | | | | 1810 |
| 20 May 96 | 10:04:24 PM | 41506C6E6B | D6 | 20 20 | | | | BS | 1811 |
| 20 May 96 | 10:04:24 PM | 41506C6E68 | D3 | 20 20 | LGRRRR | 1 | 25 Apr 96 | D | 1812 |
| 20 May 96 | 10:04:28 PM | 41506C6E6B | D6 | 20 | | | | BS | 1813 |
| 20 May 96 | 10:04:28 PM | 41506C6E68 | D3 | 20 | LGRRRR | 1 | 25 Apr 96 | D | 1814 |
| 20 May 96 | 10:04:38 PM | 4152517427 | 7F | 22 | LGRRRR | 1 | 23 Apr 96 | | 1815 |
| 20 May 96 | 10:25:39 PM | 7F7A076671 | D7 | 10 20 | DWOR | 3 | 29 Apr 96 | | 1816 |
| 20 May 96 | 10:27:23 PM | 4154721412 | 2D | 10 | DWOR | 3 | 29 Apr 96 | D | 1817 |
| 20 May 96 | 10:28:13 PM | 7F7D074361 | A5 | 10 20 | CROOKR | 3 | 15 Apr 96 | | 1818 |
| 20 May 96 | 10:29:09 PM | 4168674078 | C8 | 22 | LGRRBR | 1 | 16 May 96 | | 1819 |
| 20 May 96 | 10:29:55 PM | 203F450359 | 00 | 22 | KNOXB | 1 | 11 Apr 96 | | 1820 |
| 20 May 96 | 10:52:46 PM | 4166501C06 | 19 | 22 | LGRRRR | 1 | 24 Apr 96 | | 1821 |
| 20 May 96 | 10:52:58 PM | 417037317E | 97 | 22 | LGRRRR | 1 | 24 Apr 96 | | 1822 |
| 20 May 96 | 10:53:27 PM | 41681A044E | 15 | 10 20 | LGRRRR | 1 | 3 May 96 | | 1823 |
| 20 May 96 | 10:53:46 PM | 4150757A23 | A3 | 22 | LGRRRR | 1 | 2 May 96 | | 1824 |
| 21 May 96 | 6:39:43 PM | 20434E153A | 00 | 10 | IMNTRP | 3 | 6 May 96 | | 1825 |
| 21 May 96 | 6:39:48 PM | 20434E153A | 00 | 20 | IMNTRP | 3 | 6 May 96 | D | 1826 |
| 21 May 96 | 6:42:02 PM | 4167734A2F | 94 | 22 | LGRRRR | 1 | 4 May 96 | | 1827 |
| 21 May 96 | 6:44:49 PM | 204938035C | 00 | 10 | IMNTRP | 3 | 22 Apr 96 | | 1828 |
| 21 May 96 | 6:44:53 PM | 204938035C | 00 | 20 | IMNTRP | 3 | 22 Apr 96 | D | 1829 |
| 21 May 96 | 6:49:01 PM | 200901785E | 00 | 10 | SNKTRP | 1 | 26 Apr 96 | | 1830 |
| 21 May 96 | 7:11:41 PM | 4152344600 | 0D | 22 | LGRRBR | 1 | 19 May 96 | | 1831 |
| 21 May 96 | 7:11:45 PM | 4131691266 | 53 | 10 20 | LGRRRR | 1 | 4 May 96 | | 1832 |
| 21 May 96 | 7:11:59 PM | 416A61001D | 29 | 10 | LGRRRR | 1 | 25 Apr 96 | | 1833 |
| 21 May 96 | 7:12:04 PM | 416A61001D | 29 | 20 | LGRRRR | 1 | 25 Apr 96 | D | 1834 |
| 21 May 96 | 7:12:11 PM | 222F761E61 | 46 | 10 | RAPH | 1 | 19 Mar 96 | | 1835 |
| 21 May 96 | 7:43:04 PM | 203C10474D | 00 | 12 22 | SNKTRP | 1 | 30 Apr 96 | | 1836 |
| 21 May 96 | 7:43:06 PM | 203C10440D | B | 22 | | | | | 1837 |
| 21 May 96 | 8:00:30 PM | 41697F4861 | D2 | 10 | LGRRRR | 1 | 5 May 96 | | 1838 |
| 21 May 96 | 8:01:47 PM | 221B157F34 | 05 | 20 | LGRFBY | 3 | 24 Apr 96 | | 1839 |
| 21 May 96 | 8:01:50 PM | 4168164B27 | 31 | 22 | LGRRRR | 1 | 20 Apr 96 | | 1840 |
| 21 May 96 | 8:02:49 PM | 20031F5767 | 00 | 10 20 | IMNAHW | 1 | 2 Apr 96 | | 1841 |
| 21 May 96 | 8:27:51 PM | 200F093216 | 80 | 22 | CLEARC | 1 | 12 Apr 96 | | 1850 |
| 21 May 96 | 8:27:51 PM | 200F093216 | 80 | 22 | CLEARC | 1 | 12 Apr 96 | D | 1842 |
| 21 May 96 | 8:27:52 PM | 41522F3B33 | 30 | 20 | LGRRRR | 1 | 7 May 96 | D | 1851 |
| 21 May 96 | 8:27:52 PM | 41522F3B33 | 30 | 20 | LGRRRR | 1 | 7 May 96 | | 1843 |
| 21 May 96 | 8:28:47 PM | 4131665237 | 61 | 22 | LGRRRR | 1 | 5 May 96 | | 1844 |
| 21 May 96 | 8:28:47 PM | 4131665237 | 61 | 22 | LGRRRR | 1 | 5 May 96 | D | 1852 |
| 21 May 96 | 8:29:13 PM | 201D7B497F | 80 | 22 | LSHEEF | 3 | 29 Apr 96 | D | 1853 |
| 21 May 96 | 8:29:13 PM | 201D7B497F | 80 | 22 | LSHEEF | 3 | 29 Apr 96 | | 1845 |
| 21 May 96 | 8:30:02 PM | 2218113637 | B8 | 10 20 | LOOH | 1 | 4 Apr 96 | | 1846 |
| 21 May 96 | 8:30:02 PM | 2218113637 | B8 | 10 20 | LOOH | 1 | 4 Apr 96 | D | 1854 |
| 21 May 96 | 8:30:05 PM | 2237740A4E | 25 | 10 | LEAV | 1 | 15 Apr 96 | D | 1847 |
| 21 May 96 | 8:30:05 PM | 2237740A4E | 25 | 10 | LEAV | 1 | 15 Apr 96 | | 1855 |
| 21 May 96 | 9:12:27 PM | 223D173B68 | 19 | 10 | RIS | 3 | 7 May 96 | | 1848 |
| 21 May 96 | 9:12:27 PM | 223D173B68 | 19 | 10 | RIS | 3 | 7 May 96 | D | 1856 |
| 21 May 96 | 9:12:30 PM | 223D173B68 | 19 | 20 | RIS | 3 | 7 May 96 | D | 1849 |
| 21 May 96 | 9:12:30 PM | 223D173B68 | 19 | 20 | RIS | 3 | 7 May 96 | D | 1857 |
| 21 May 96 | 9:39:41 PM | 416A05130E | D1 | 10 20 | LGRRRR | 1 | 30 Apr 96 | | 1858 |
| 21 May 96 | 9:41:51 PM | 22426F0163 | 37 | 22 | CLEARC | 1 | 12 Apr 96 | | 1859 |
| 21 May 96 | 9:46:54 PM | 4153097D7C | 96 | 22 | LGRRRR | 1 | 4 May 96 | | 1860 |
| 21 May 96 | 10:08:09 PM | 7F7A102A47 | 7A | 22 | CLEARC | 1 | 12 Apr 96 | | 1861 |
| 21 May 96 | 10:08:28 PM | 4152165103 | FD | 10 20 | LGRRRR | 1 | 29 Apr 96 | | 1862 |
| 21 May 96 | 10:09:02 PM | 417022694B | 87 | 10 | LGRRRR | 1 | 29 Apr 96 | | 1863 |
| 21 May 96 | 10:10:04 PM | 202E387208 | 00 | 10 20 | RAPH | 1 | 19 Mar 96 | | 1864 |
| 21 May 96 | 10:10:04 PM | 202E38720B | 03 | 10 | | | | | 1865 |
| 21 May 96 | 10:10:05 PM | 200A4D1475 | 00 | 10 10 | RAPH | 1 | 19 Mar 96 | | 1866 |
| 21 May 96 | 10:10:06 PM | 200A4D2475 | 10 | 10 | | | | | 1867 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 21 May 96 | 10:10:08 PM | 200A4D1475 | 00 | 20 | RAPH | 1 | 19 Mar 96 | D | 1868 |
| 21 May 96 | 10:13:53 PM | 200A4C7713 | 00 | 10 | SALTRP | 1 | 21 Mar 96 | | 1869 |
| 21 May 96 | 10:16:54 PM | 2044437A5F | 80 | 20 | LSALR | 3 | 26 Mar 96 | | 1870 |
| 21 May 96 | 10:27:45 PM | 200C243A76 | 00 | 22 | CLWRNF | 1 | 11 Apr 96 | | 1871 |
| 21 May 96 | 10:36:33 PM | 4151443D5C | 6F | 22 | LGRRRR | 1 | 15 May 96 | | 1872 |
| 21 May 96 | 10:36:43 PM | 222D71515B | 6C | 22 | RAPH | 1 | 19 Mar 96 | | 1873 |
| 21 May 96 | 10:36:51 PM | 41526E4F58 | A8 | 22 | LGRRRR | 1 | 26 Apr 96 | | 1874 |
| 21 May 96 | 10:36:54 PM | 41693B5323 | 5B | 22 | LGRRBR | 1 | 19 May 96 | | 1875 |
| 21 May 96 | 10:37:31 PM | 41673D7544 | 9E | 10 20 | LGRRRR | 1 | 12 May 96 | | 1876 |
| 21 May 96 | 10:38:02 PM | 4131325B53 | 52 | 22 | LGRRRR | 1 | 2 May 96 | | 1877 |
| 21 May 96 | 10:40:07 PM | 416A703A6A | BF | 22 | LGRRRR | 1 | 8 May 96 | | 1878 |
| 21 May 96 | 10:40:21 PM | 4168455658 | 9C | 22 | LGRRRR | 1 | 24 Apr 96 | | 1879 |
| 21 May 96 | 10:40:21 PM | 416845565B | 9F | 22 | | | | | 1880 |
| 21 May 96 | 10:42:11 PM | 201F041D20 | 80 | 10 20 | BCANF | 3 | 17 Apr 96 | | 1881 |
| 21 May 96 | 11:00:23 PM | 4151017865 | 70 | 22 | LGRRRR | 1 | 3 May 96 | | 1882 |
| 21 May 96 | 11:01:37 PM | 2232651236 | 01 | 20 | RAPH | 1 | 19 Mar 96 | | 1883 |
| 21 May 96 | 11:02:41 PM | 415315573A | 3A | 22 | LGRRRR | 1 | 4 May 96 | | 1884 |
| 21 May 96 | 11:03:14 PM | 2048105632 | 00 | 22 | RAPH | 1 | 19 Mar 96 | | 1885 |
| 21 May 96 | 11:03:16 PM | 4131331829 | E6 | 22 | LGRRRR | 1 | 7 May 96 | | 1886 |
| 21 May 96 | 11:07:03 PM | 41314E7D3F | 7C | 10 20 | LGRRRR | 1 | 30 Apr 96 | | 1887 |
| 21 May 96 | 11:07:37 PM | 7F7A10116A | 84 | 22 | CLEARC | 1 | 12 Apr 96 | | 1888 |
| 21 May 96 | 16:22:10 PM | 1F52397462 | 80 | 10 20 | CLEARC | 1 | 12 Apr 96 | | 1889 |
| 21 May 96 | 16:22:41 PM | 7F7A094202 | 46 | 10 20 | CLEARC | 1 | 12 Apr 96 | | 1890 |
| 21 May 96 | 16:42:56 PM | 20451C037C | 00 | 10 20 | SIMP | 1 | | | 1891 |
| 21 May 96 | 16:44:58 PM | 22334D3332 | 07 | 10 | LGRTAL | 3 | 27 Apr 96 | | 1892 |
| 21 May 96 | 17:00:12 PM | 1F762A5B66 | 80 | 22 | IMNAHW | 1 | 2 Apr 96 | | 1893 |
| 21 May 96 | 17:18:15 PM | 20110D7C46 | 00 | 22 | SALTRP | 1 | 25 Mar 96 | | 1894 |
| 21 May 96 | 17:35:29 PM | 1F5B033B4B | 00 | 10 | CLEARC | 1 | 12 Apr 96 | | 1895 |
| 21 May 96 | 18:23:21 PM | 4131452C3F | 22 | 10 | LGRRRR | 1 | 6 May 96 | | 1896 |
| 21 May 96 | 18:23:28 PM | 4131452C3F | 22 | 20 | LGRRRR | 1 | 6 May 96 | D | 1897 |
| 21 May 96 | 18:47:11 PM | 222F4D6937 | 3E | 22 | POWP | 1 | 11 Apr 96 | | 1898 |
| 21 May 96 | 19:12:45 PM | 4168504368 | A7 | 22 22 | LGRRRR | 1 | 1 May 96 | | 1899 |
| 21 May 96 | 19:12:45 PM | 4168504368 | A4 | 22 22 | | | | | 1900 |
| 21 May 96 | 20:18:28 PM | 7F7A1A1E3B | 6C | 22 | CLEARC | 1 | 12 Apr 96 | | 1901 |
| 22 May 96 | 7:09:00 PM | 2232620F48 | 0D | 22 | | 3 | | | 1902 |
| 22 May 96 | 7:34:09 PM | 221D264215 | B | 10 | DUMMY | | 1 Jan 00 | | 1903 |
| 22 May 96 | 7:52:57 PM | 7F7A116842 | B4 | 20 | IMNTRP | 3 | 6 May 96 | | 1904 |
| 22 May 96 | 8:17:10 PM | 4168160536 | FA | 10 | LGRRRR | 1 | 7 May 96 | | 1905 |
| 22 May 96 | 8:18:28 PM | 413205106C | F4 | 20 | LGRRRR | 1 | 1 May 96 | | 1906 |
| 22 May 96 | 8:48:02 PM | 4151311F69 | 4B | 22 | LGRRBR | 1 | 20 May 96 | | 1907 |
| 22 May 96 | 9:10:15 PM | 22243F4C69 | 3A | 20 | SNAKER | 1 | 8 Apr 96 | | 1908 |
| 22 May 96 | 9:40:04 PM | 22154A3A70 | 2B | 20 | SNAKER | 3 | 25 Apr 96 | | 1909 |
| 22 May 96 | 9:40:31 PM | 20445B1031 | 00 | 10 | LOOH | 1 | 4 Apr 96 | | 1910 |
| 22 May 96 | 9:42:03 PM | 204844587C | 80 | 12 | CLEARC | 1 | 12 Apr 96 | | 1911 |
| 22 May 96 | 9:42:06 PM | 204844587C | 80 | 22 | CLEARC | 1 | 12 Apr 96 | D | 1912 |
| 22 May 96 | 9:42:22 PM | 222E36396A | 29 | 22 | RAPH | 1 | 19 Mar 96 | | 1913 |
| 22 May 96 | 9:45:27 PM | 1F57347066 | 80 | 10 20 | LOSTIR | 1 | 14 Aug 95 | | 1914 |
| 22 May 96 | 15:29:24 PM | 7F7A08231C | 40 | 22 | SIMP | 1 | | | 1915 |
| 22 May 96 | 15:57:11 PM | 7F7F741112 | 95 | 10 20 | LGRTAL | 3 | 29 Apr 96 | | 1916 |
| 22 May 96 | 15:58:33 PM | 203C6D7D3A | 80 | 10 | SNKTRP | 3 | 2 May 96 | | 1917 |
| 22 May 96 | 15:58:36 PM | 203C6D7D3A | 80 | 20 | SNKTRP | 3 | 2 May 96 | D | 1918 |
| 22 May 96 | 16:29:43 PM | 41506C507D | C | 10 | LGRRRR | 1 | 4 May 96 | | 1919 |
| 22 May 96 | 16:47:19 PM | 414C20304D | 2A | 22 | LGRRRR | 1 | 4 May 96 | | 1920 |
| 22 May 96 | 16:50:34 PM | 41664D183F | 4B | 22 | LGRRRR | 1 | 7 May 96 | | 1921 |
| 22 May 96 | 20:18:40 PM | 203E11127F | 00 | 10 20 | RAPH | 1 | 19 Mar 96 | | 1922 |
| 22 May 96 | 20:19:13 PM | 4169356362 | A4 | 22 | LGRRRR | 1 | 7 May 96 | | 1923 |
| 22 May 96 | 20:19:26 PM | 1F580B2C52 | 00 | 10 20 | IMNTRP | 1 | 5 Apr 96 | | 1924 |
| 22 May 96 | 20:19:58 PM | 22146F625A | 61 | 22 | SNAKER | 1 | 24 Apr 96 | | 1925 |
| 22 May 96 | 20:20:56 PM | 41664D0D78 | 79 | 20 | LGRRRR | 1 | 2 May 96 | | 1926 |
| 22 May 96 | 20:20:57 PM | 4150640720 | 1C | 20 | LGRRRR | 1 | 5 May 96 | | 1927 |
| 22 May 96 | 20:21:00 PM | 7F7E4B133E | 99 | 10 | Test tag | | | | 1928 |
| 22 May 96 | 20:21:39 PM | 7F7E4F1F62 | C | 22 | Test tag | | | | 1929 |
| 23 May 96 | 0:21:51 PM | 7F7E4F1F62 | C | 22 | Test tag | | | | 1930 |
| 23 May 96 | 0:21:55 PM | 7F7E4F1F62 | C | 12 | Test tag | | | | 1931 |
| 23 May 96 | 0:22:23 PM | 7F7E4F1F62 | C | 20 10 | Test tag | | | | 1932 |
| 23 May 96 | 0:23:32 PM | 7F7E4B133E | 99 | 12 | Test tag | | | | 1933 |
| 23 May 96 | 0:33:28 PM | 4152486B3D | 83 | 10 20 | LGRRRR | 1 | 13 May 96 | | 1934 |
| 23 May 96 | 6:41:24 PM | 222A516C01 | 0A | 22 | LGRTAL | 3 | 27 Apr 96 | | 1935 |
| 23 May 96 | 6:41:25 PM | 204B71485C | 80 | 10 20 | CLEARC | 1 | 12 Apr 96 | | 1936 |
| 23 May 96 | 6:42:36 PM | 4131403F4E | 3F | 10 20 | LGRRRR | 1 | 3 May 96 | | 1937 |
| 23 May 96 | 6:46:09 PM | 7F7A081179 | 8B | 10 20 | RAPH | 1 | 2 Apr 96 | | 1938 |
| 23 May 96 | 6:54:24 PM | 223C465C62 | 62 | 10 | RIS | 3 | 13 May 96 | | 1939 |
| 24 May 96 | 7:03:38 PM | 416E726D5B | E9 | 22 | LGSFBY | 3 | 18 May 96 | | 1940 |
| 24 May 96 | 7:04:03 PM | 2043165631 | 00 | 12 22 | IMNAHW | 1 | 2 Apr 96 | | 1941 |
| 24 May 96 | 7:04:13 PM | 221438090D | 7A | 10 20 | SNAKER | 3 | 1 May 96 | | 1942 |

ppendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| May 96 | 7:04:25 PM | 7F7B0B031D | 25 | 12 22 | KOOS | 3 | 10 May 96 | | 1943 |
| May 96 | 7:31:22 PM | 7F7A070602 | 08 | 10 20 | SALR | 3 | 28 Apr 96 | | 1944 |
| May 96 | 7:32:02 PM | 41694A532D | 74 | 20 | LGRRBR | 1 | 21 May 96 | | 1945 |
| May 96 | 7:55:29 PM | 4166636933 | A6 | 22 | LGRRRR | 1 | 13 May 96 | | 1946 |
| May 96 | 7:55:48 PM | 2214562C73 | 2B | 20 | SNAKER | 3 | 1 May 96 | | 1947 |
| May 96 | 8:18:59 PM | 4131734C55 | 86 | 20 | LGRRRR | 1 | 6 May 96 | | 1948 |
| May 96 | 8:19:00 PM | 415216305A | 33 | 10 | LGRRRR | 1 | 14 May 96 | | 1949 |
| May 96 | 8:19:01 PM | 1F6217491F | 00 | 22 | CROTRP | 3 | 19 Apr 96 | | 1950 |
| May 96 | 8:46:52 PM | 222F2F7B6C | 67 | 20 | REDR | 3 | 17 Apr 96 | | 1951 |
| May 96 | 8:47:26 PM | 41684A6100 | 54 | 10 | LGRRRR | 1 | 14 May 96 | | 1952 |
| May 96 | 9:11:41 PM | 41663B5245 | 79 | 22 | LGRRRR | 1 | 12 May 96 | | 1953 |
| May 96 | 9:11:52 PM | 41663E2259 | 60 | 10 | LGRRRR | 1 | 8 May 96 | | 1954 |
| May 96 | 9:12:18 PM | 416A28457F | 97 | 10 20 | LGRRRR | 1 | 12 May 96 | | 1955 |
| May 96 | 9:12:29 PM | 22293F783C | 3E | 22 | LGRTAL | 3 | 25 Apr 96 | | 1956 |
| May 96 | 9:13:48 PM | 41522E5416 | 2B | 10 20 | LGRRBR | 1 | 21 May 96 | | 1957 |
| May 96 | 9:13:55 PM | 2009510B7B | 00 | 22 | RAPII | 1 | 19 Mar 96 | | 1958 |
| May 96 | 9:34:09 PM | 41513C0A61 | 39 | 22 | LGRRRR | 1 | 11 May 96 | | 1959 |
| May 96 | 9:34:30 PM | 20490C5E2D | 00 | 12 22 | RAPII | 1 | 19 Mar 96 | | 1960 |
| May 96 | 9:34:33 PM | 22333D6735 | 2E | 12 | LGRFBY | 3 | 26 Apr 96 | | 1961 |
| May 96 | 9:37:28 PM | 41516E0A0B | 15 | 22 | LGRRRR | 1 | 12 May 96 | | 1962 |
| May 96 | 9:59:58 PM | 203E2D4134 | 00 | 20 | REDP | 1 | 10 Apr 96 | | 1963 |
| May 96 | 10:02:08 PM | 4166166C08 | 31 | 20 | LGRRRR | 1 | 11 May 96 | | 1964 |
| May 96 | 10:02:17 PM | 416708030D | C0 | 22 | LGRRRR | 1 | 4 May 96 | | 1965 |
| May 96 | 10:12:46 PM | 7F7A0F7978 | F9 | 10 10 | PAHTRP | 3 | 18 Apr 96 | | 1966 |
| May 96 | 10:12:46 PM | 7F7A0F797B | FC | 10 10 | | | | | 1967 |
| May 96 | 10:13:31 PM | 7F7A0F7978 | F9 | 12 | PAHTRP | 3 | 18 Apr 96 | D | 1968 |
| May 96 | 10:20:36 PM | 7F7A114336 | 83 | 10 | KNOXB | 1 | 11 Apr 96 | | 1969 |
| May 96 | 10:20:39 PM | 7F7A114336 | 83 | 20 | KNOXB | 1 | 11 Apr 96 | D | 1970 |
| May 96 | 10:26:11 PM | 4168014B34 | 29 | 22 | LGRRRR | 1 | 12 May 96 | | 1971 |
| May 96 | 10:27:38 PM | 204413414B | 00 | 20 | SNKTRP | 1 | 25 Apr 96 | | 1972 |
| May 96 | 10:27:39 PM | 204413414B | 03 | 20 | | | | | 1973 |
| May 96 | 10:49:37 PM | 221E124803 | 9D | 22 | KNOXB | 1 | 11 Apr 96 | | 1974 |
| May 96 | 10:50:44 PM | 4152345B01 | 23 | 10 | LGRRBR | 1 | 22 May 96 | | 1975 |
| May 96 | 10:54:52 PM | 20416C595A | 80 | 10 | BCANF | 3 | 16 Apr 96 | | 1976 |
| May 96 | 10:54:56 PM | 20416C595A | 80 | 20 | BCANF | 3 | 16 Apr 96 | D | 1977 |
| May 96 | 11:06:29 PM | 413159186F | 52 | 10 | LGRRRR | 1 | 12 May 96 | | 1978 |
| May 96 | 11:06:35 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 1979 |
| May 96 | 11:06:41 PM | 413159186C | 4F | 20 | | | | | 1980 |
| May 96 | 11:06:41 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 1981 |
| May 96 | 11:06:41 PM | 4131591860 | 43 | 20 | | | | | 1982 |
| May 96 | 11:06:45 PM | 4131591860 | 43 | 20 | | | | BS | 1983 |
| May 96 | 11:06:45 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 1984 |
| May 96 | 11:06:47 PM | 413159186C | 4F | 20 | | | | BS | 1985 |
| May 96 | 11:06:51 PM | 4131591860 | 43 | 20 | | | | BS | 1986 |
| May 96 | 11:06:51 PM | 413159186C | 4F | 20 | | | | BS | 1989 |
| May 96 | 11:06:51 PM | 413159180F | F2 | 20 | | | | | 1988 |
| May 96 | 11:06:51 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 1987 |
| May 96 | 11:06:59 PM | 413159186C | 4F | 20 | | | | BS | 1990 |
| May 96 | 11:06:59 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 1991 |
| May 96 | 11:07:03 PM | 413159186C | 4F | 20 | | | | BS | 1992 |
| May 96 | 11:07:03 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 1993 |
| May 96 | 11:07:07 PM | 413159186C | 4F | 20 | | | | BS | 1994 |
| May 96 | 11:07:07 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 1995 |
| May 96 | 11:07:26 PM | 413159186C | 4F | 20 | | | | BS | 1996 |
| May 96 | 11:07:26 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 1997 |
| May 96 | 11:07:29 PM | 4131591860 | 43 | 20 | | | | BS | 1998 |
| May 96 | 11:07:31 PM | 413159186C | 4F | 20 | | | | BS | 1999 |
| May 96 | 11:07:31 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2000 |
| May 96 | 11:07:39 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2002 |
| May 96 | 11:07:39 PM | 013159186F | 12 | 20 | | | | | 2001 |
| May 96 | 11:07:40 PM | 410159186F | 22 | 20 | | | | | 2003 |
| May 96 | 11:07:40 PM | 473159186F | 58 | 20 | | | | | 2004 |
| May 96 | 11:07:41 PM | 5F3159186F | 70 | 20 | | | | | 2005 |
| May 96 | 11:07:49 PM | 4131591860 | 43 | 20 | | | | BS | 2006 |
| May 96 | 11:07:50 PM | 413159386F | 72 | 20 | | | | | 2007 |
| May 96 | 11:07:50 PM | 410159186F | 22 | 20 | | | | BS | 2008 |
| May 96 | 11:07:50 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2009 |
| May 96 | 11:07:54 PM | 413159186C | 4F | 20 20 | | | | BS | 2010 |
| May 96 | 11:07:54 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2011 |
| May 96 | 11:07:59 PM | 413759186F | 58 | 20 | | | | | 2012 |
| May 96 | 11:08:00 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2013 |
| May 96 | 11:08:01 PM | 413159180F | F2 | 20 | | | | BS | 2014 |
| May 96 | 11:08:07 PM | 4131591860 | 43 | 20 | | | | BS | 2015 |
| May 96 | 11:08:07 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2016 |
| May 96 | 11:08:11 PM | 413159186C | 4F | 20 20 | | | | BS | 2017 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 24 May 96 | 11:08:11 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2018 |
| 24 May 96 | 11:08:19 PM | 413159186C | 4F | 20 20 | | | | BS | 2019 |
| 24 May 96 | 11:08:19 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2020 |
| 24 May 96 | 11:08:37 PM | 413159186C | 4F | 20 20 | | | | BS | 2021 |
| 24 May 96 | 11:08:37 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2022 |
| 24 May 96 | 11:08:46 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2024 |
| 24 May 96 | 11:08:46 PM | 413159186C | 4F | 20 20 | | | | BS | 2023 |
| 24 May 96 | 11:08:52 PM | 413159186C | 4F | 20 | | | | BS | 2025 |
| 24 May 96 | 11:08:52 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2026 |
| 24 May 96 | 11:08:59 PM | 413119186F | 12 | 20 | | | | | 2027 |
| 24 May 96 | 11:08:59 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2028 |
| 24 May 96 | 11:09:00 PM | 413159186C | 4F | 20 | | | | BS | 2029 |
| 24 May 96 | 11:09:00 PM | 413159786F | B2 | 20 | | | | | 2030 |
| 24 May 96 | 11:09:01 PM | 413141186F | 3A | 20 | | | | | 2031 |
| 24 May 96 | 11:09:03 PM | 4131591860 | 43 | 20 | | | | BS | 2033 |
| 24 May 96 | 11:09:03 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2032 |
| 24 May 96 | 11:09:04 PM | 413159186C | 4F | 20 | | | | BS | 2034 |
| 24 May 96 | 11:09:08 PM | 013159186F | 12 | 20 | | | | BS | 2035 |
| 24 May 96 | 11:09:08 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2036 |
| 24 May 96 | 11:09:08 PM | 413159186C | 4F | 20 20 | | | | BS | 2037 |
| 24 May 96 | 11:09:15 PM | 413159186C | 4F | 20 20 | | | | BS | 2038 |
| 24 May 96 | 11:09:15 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2039 |
| 24 May 96 | 11:09:18 PM | 4131591860 | 43 | 20 | | | | BS | 2040 |
| 24 May 96 | 11:09:18 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2041 |
| 24 May 96 | 11:09:22 PM | 413159186C | 4F | 20 20 | | | | BS | 2042 |
| 24 May 96 | 11:09:23 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2043 |
| 24 May 96 | 11:09:26 PM | 413159186C | 4F | 20 20 | | | | BS | 2044 |
| 24 May 96 | 11:09:26 PM | 4131591860 | 43 | 20 | | | | BS | 2045 |
| 24 May 96 | 11:09:26 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2046 |
| 24 May 96 | 11:09:31 PM | 413159180F | F2 | 20 | | | | BS | 2047 |
| 24 May 96 | 11:09:31 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2048 |
| 24 May 96 | 11:09:32 PM | 417159186F | 92 | 20 | | | | | 2049 |
| 24 May 96 | 11:09:33 PM | 413159186C | 4F | 20 | | | | BS | 2050 |
| 24 May 96 | 11:09:34 PM | 410159186F | 22 | 20 | | | | BS | 2051 |
| 24 May 96 | 11:09:34 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2052 |
| 24 May 96 | 11:09:38 PM | 413159186C | 4F | 20 | | | | BS | 2053 |
| 24 May 96 | 11:09:38 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2054 |
| 24 May 96 | 11:09:41 PM | 413159186C | 4F | 20 20 | | | | BS | 2055 |
| 24 May 96 | 11:09:42 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2056 |
| 24 May 96 | 11:09:45 PM | 413159180F | F2 | 20 20 | | | | BS | 2057 |
| 24 May 96 | 11:09:45 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2058 |
| 24 May 96 | 11:09:46 PM | 413159186C | 4F | 20 | | | | BS | 2059 |
| 24 May 96 | 11:09:49 PM | 413159180F | F2 | 20 | | | | BS | 2060 |
| 24 May 96 | 11:09:49 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2061 |
| 24 May 96 | 11:09:49 PM | 4131591860 | 43 | 20 20 | | | | BS | 2062 |
| 24 May 96 | 11:09:49 PM | 413159186C | 4F | 20 | | | | BS | 2063 |
| 24 May 96 | 11:09:53 PM | 4131591860 | 43 | 20 | | | | BS | 2064 |
| 24 May 96 | 11:09:53 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2065 |
| 24 May 96 | 11:09:53 PM | 413153186F | 4C | 20 | | | | | 2066 |
| 24 May 96 | 11:09:56 PM | 013159186F | 12 | 20 | | | | BS | 2067 |
| 24 May 96 | 11:09:56 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2068 |
| 24 May 96 | 11:09:57 PM | 413159186C | 4F | 20 20 | | | | BS | 2069 |
| 24 May 96 | 11:09:59 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2070 |
| 24 May 96 | 11:10:04 PM | 413159786F | B2 | 20 | | | | BS | 2071 |
| 24 May 96 | 11:10:04 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2072 |
| 24 May 96 | 11:10:13 PM | 413159180F | F2 | 20 | | | | BS | 2073 |
| 24 May 96 | 11:10:13 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2074 |
| 24 May 96 | 11:10:15 PM | 41315F186F | 58 | 20 | | | | | 2075 |
| 24 May 96 | 11:10:16 PM | 413159186C | 4F | 20 | | | | BS | 2076 |
| 24 May 96 | 11:10:16 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2077 |
| 24 May 96 | 11:10:18 PM | 4131591863 | 46 | 20 | | | | | 2078 |
| 24 May 96 | 11:10:21 PM | 413119186F | 12 | 20 | | | | BS | 2079 |
| 24 May 96 | 11:10:22 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2080 |
| 24 May 96 | 11:10:29 PM | 413159186C | 4F | 20 | | | | BS | 2081 |
| 24 May 96 | 11:10:30 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2082 |
| 24 May 96 | 11:10:36 PM | 413159186C | 4F | 20 20 | | | | BS | 2083 |
| 24 May 96 | 11:10:36 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2084 |
| 24 May 96 | 11:10:37 PM | 473159186F | 58 | 20 | | | | BS | 2085 |
| 24 May 96 | 11:10:39 PM | 413159180F | F2 | 20 | | | | BS | 2086 |
| 24 May 96 | 11:10:40 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2087 |
| 24 May 96 | 11:10:40 PM | 413159186C | 4F | 20 | | | | BS | 2088 |
| 24 May 96 | 11:10:46 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2090 |
| 24 May 96 | 11:10:46 PM | 4131591860 | 43 | 20 | | | | BS | 2089 |
| 24 May 96 | 11:10:54 PM | 413159186C | 4F | 20 | | | | BS | 2091 |
| 24 May 96 | 11:10:54 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2092 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 24 May 96 | 11:10:57 PM | 413159186C | 4F | 20 | | | | BS | 2093 |
| 24 May 96 | 11:10:57 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2094 |
| 24 May 96 | 11:11:01 PM | 413159186C | 4F | 20 20 | | | | BS | 2095 |
| 24 May 96 | 11:11:01 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2096 |
| 24 May 96 | 11:11:04 PM | 413159186C | 4F | 20 20 | | | | BS | 2097 |
| 24 May 96 | 11:11:04 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2098 |
| 24 May 96 | 11:11:10 PM | 413159186C | 4F | 20 | | | | BS | 2099 |
| 24 May 96 | 11:11:10 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2100 |
| 24 May 96 | 11:11:12 PM | 413159180F | F2 | 20 | | | | BS | 2101 |
| 24 May 96 | 11:11:14 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2103 |
| 24 May 96 | 11:11:14 PM | 410159186F | 22 | 20 | | | | BS | 2102 |
| 24 May 96 | 11:11:17 PM | 413159186C | 4F | 20 20 | | | | BS | 2104 |
| 24 May 96 | 11:11:17 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2105 |
| 24 May 96 | 11:11:23 PM | 413159186C | 4F | 20 | | | | BS | 2106 |
| 24 May 96 | 11:11:23 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2107 |
| 24 May 96 | 11:11:30 PM | 4131591860 | 43 | 20 | | | | BS | 2108 |
| 24 May 96 | 11:11:30 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2109 |
| 24 May 96 | 11:11:30 PM | 413119186F | 12 | 20 | | | | BS | 2110 |
| 24 May 96 | 11:11:36 PM | 413159186C | 4F | 20 | | | | BS | 2111 |
| 24 May 96 | 11:11:36 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2112 |
| 24 May 96 | 11:11:37 PM | 4131591860 | 43 | 20 | | | | BS | 2113 |
| 24 May 96 | 11:11:39 PM | 413153186F | 4C | 20 | | | | BS | 2114 |
| 24 May 96 | 11:11:39 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2115 |
| 24 May 96 | 11:11:40 PM | 4131591860 | 43 | 20 | | | | BS | 2116 |
| 24 May 96 | 11:11:40 PM | 413159180F | F2 | 20 | | | | BS | 2117 |
| 24 May 96 | 11:11:48 PM | 4131591860 | 43 | 20 | | | | BS | 2118 |
| 24 May 96 | 11:11:48 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2119 |
| 24 May 96 | 11:11:50 PM | 413159186C | 4F | 20 | | | | BS | 2120 |
| 24 May 96 | 11:11:50 PM | 013159186F | 12 | 20 | | | | BS | 2121 |
| 24 May 96 | 11:11:52 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2123 |
| 24 May 96 | 11:11:52 PM | 413119186F | 12 | 20 | | | | BS | 2122 |
| 24 May 96 | 11:11:57 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2125 |
| 24 May 96 | 11:11:57 PM | 413159186C | 4F | 20 | | | | BS | 2124 |
| 24 May 96 | 11:11:58 PM | 41315B186F | 54 | 20 | | | | | 2126 |
| 24 May 96 | 11:12:00 PM | 413159180F | F2 | 20 | | | | BS | 2127 |
| 24 May 96 | 11:12:00 PM | 4131591860 | 43 | 20 | | | | BS | 2128 |
| 24 May 96 | 11:12:00 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2129 |
| 24 May 96 | 11:12:03 PM | 413159184F | 32 | 20 | | | | BS | 2130 |
| 24 May 96 | 11:12:03 PM | 4131591860 | 43 | 20 | | | | BS | 2131 |
| 24 May 96 | 11:12:08 PM | 413159186C | 4F | 20 | | | | BS | 2132 |
| 24 May 96 | 11:12:08 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2133 |
| 24 May 96 | 11:12:12 PM | 413159186C | 4F | 20 | | | | BS | 2134 |
| 24 May 96 | 11:12:12 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2135 |
| 24 May 96 | 11:12:21 PM | 4131591860 | 43 | 20 | | | | BS | 2136 |
| 24 May 96 | 11:12:21 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2137 |
| 24 May 96 | 11:12:26 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2139 |
| 24 May 96 | 11:12:26 PM | 410159186F | 22 | 20 | | | | BS | 2138 |
| 24 May 96 | 11:12:27 PM | 413159186C | 4F | 20 | | | | BS | 2140 |
| 24 May 96 | 11:12:30 PM | 413159006F | 3A | 20 | | | | | 2141 |
| 24 May 96 | 11:12:31 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2142 |
| 24 May 96 | 11:12:33 PM | 413119186F | 12 | 20 | | | | BS | 2143 |
| 24 May 96 | 11:12:42 PM | 4131591860 | 43 | 20 | | | | BS | 2144 |
| 24 May 96 | 11:12:42 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2145 |
| 24 May 96 | 11:12:43 PM | 413159186C | 4F | 20 | | | | BS | 2146 |
| 24 May 96 | 11:12:45 PM | 013159186F | 12 | 20 20 | | | | BS | 2147 |
| 24 May 96 | 11:12:45 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2148 |
| 24 May 96 | 11:12:48 PM | 413159180F | F2 | 20 | | | | BS | 2149 |
| 24 May 96 | 11:12:48 PM | 413159186C | 4F | 20 | | | | BS | 2150 |
| 24 May 96 | 11:12:48 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2151 |
| 24 May 96 | 11:13:00 PM | 4131591860 | 43 | 20 20 | | | | BS | 2152 |
| 24 May 96 | 11:13:00 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2153 |
| 24 May 96 | 11:13:01 PM | 41311B186F | 14 | 20 | | | | | 2154 |
| 24 May 96 | 11:13:01 PM | 413119186F | 12 | 20 | | | | BS | 2155 |
| 24 May 96 | 11:13:06 PM | 4131591860 | 43 | 20 | | | | BS | 2156 |
| 24 May 96 | 11:13:06 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2157 |
| 24 May 96 | 11:13:10 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2159 |
| 24 May 96 | 11:13:10 PM | 413159186C | 4F | 20 | | | | BS | 2158 |
| 24 May 96 | 11:13:13 PM | 413141186F | 3A | 20 | | | | BS | 2160 |
| 24 May 96 | 11:13:14 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2161 |
| 24 May 96 | 11:13:19 PM | 413159186C | 4F | 20 | | | | BS | 2162 |
| 24 May 96 | 11:13:19 PM | 413159186F | 52 | 20 | LGRRRR | 1 | 12 May 96 | D | 2163 |
| 24 May 96 | 11:13:30 PM | 7F7A113F6D | B6 | 10 | RAPII | 1 | 19 Mar 96 | | 2164 |
| 24 May 96 | 11:13:32 PM | 413159386F | 72 | 20 | | | | BS | 2165 |
| 24 May 96 | 11:13:32 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2166 |
| 24 May 96 | 11:13:33 PM | 413159186C | 4F | 20 | | | | BS | 2167 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 24 May 96 | 11:13:33 PM | 4131591860 | 43 | 20 | | | | BS | 2168 |
| 24 May 96 | 11:13:38 PM | 413119186F | 12 | 20 | | | | BS | 2169 |
| 24 May 96 | 11:13:38 PM | 413159186F | 52 | 20 20 | LGRRRR | 1 | 12 May 96 | D | 2170 |
| 24 May 96 | 11:13:39 PM | 413159186C | 4F | 20 20 | | | | BS | 2171 |
| 24 May 96 | 11:13:55 PM | 4151181658 | 18 | 22 | LGRRRR | 1 | 14 May 96 | | 2172 |
| 24 May 96 | 11:14:15 PM | 203F4C3B1A | 00 | 10 | SNKTRP | 1 | 25 Apr 96 | | 2173 |
| 24 May 96 | 11:14:18 PM | 4169521B3E | 52 | 10 | LGRRRR | 1 | 12 May 96 | | 2174 |
| 24 May 96 | 11:14:19 PM | 203F4C3B1A | 00 | 20 | SNKTRP | 1 | 25 Apr 96 | D | 2175 |
| 24 May 96 | 11:15:12 PM | 7F7A126E51 | C | 10 | KNOXB | 1 | 11 Apr 96 | | 2176 |
| 24 May 96 | 11:15:15 PM | 7F7A126E51 | C | 20 | KNOXB | 1 | 11 Apr 96 | D | 2177 |
| 24 May 96 | 11:15:22 PM | 20095C6417 | 00 | 10 20 | IMNAHW | 1 | 2 Apr 96 | | 2178 |
| 24 May 96 | 11:15:27 PM | 201A576807 | 00 | 10 20 | CLWRNF | 1 | 11 Apr 96 | | 2179 |
| 24 May 96 | 11:15:55 PM | 1F5B2F0651 | 00 | 10 20 | CLEARC | 1 | 12 Apr 96 | | 2180 |
| 24 May 96 | 11:15:56 PM | 223C7E4A1E | 44 | 12 22 | RIS | 4 | 9 May 96 | | 2181 |
| 24 May 96 | 11:16:00 PM | 221B60170A | BE | 20 | SNKTRP | 3 | 14 May 96 | | 2182 |
| 25 May 96 | 6:33:00 PM | 2047216513 | 00 | 10 | SALR | 3 | 18 Apr 96 | | 2183 |
| 25 May 96 | 6:45:25 PM | 4169035C44 | 4D | 20 | LGRRRR | 1 | 11 May 96 | | 2184 |
| 25 May 96 | 6:45:56 PM | 2049471040 | 00 | 10 20 | KNOXB | 1 | 11 Apr 96 | | 2185 |
| 25 May 96 | 7:11:52 PM | 20417A061F | 00 | 10 20 | IMNAHW | 1 | 2 Apr 96 | | 2186 |
| 25 May 96 | 7:49:10 PM | 2046185032 | 00 | 10 20 | SNKTRP | 3 | 15 May 96 | | 2187 |
| 25 May 96 | 7:49:42 PM | 201E13416E | 00 | 10 20 | LSHEEF | 3 | 29 Apr 96 | | 2188 |
| 25 May 96 | 8:11:40 PM | 4152643F6C | A2 | 22 | LGRRRR | 1 | 13 May 96 | | 2189 |
| 25 May 96 | 8:12:27 PM | 7F7A06180E | 25 | 20 | RAPII | 1 | 4 Apr 96 | | 2190 |
| 25 May 96 | 8:12:52 PM | 411C243275 | 28 | 20 | | | | | 2192 |
| 25 May 96 | 8:12:52 PM | 414C243275 | 58 | 20 20 | LGRRDR | 1 | 23 May 96 | | 2191 |
| 25 May 96 | 8:13:42 PM | 7F7A0F2601 | 2F | 22 | SAWTRP | 3 | 16 Apr 96 | | 2193 |
| 25 May 96 | 8:13:49 PM | 222F362718 | C6 | 20 | RAPII | 1 | 19 Mar 96 | | 2194 |
| 25 May 96 | 8:37:23 PM | 20431E7E01 | 00 | 12 | TUCII | 1 | 16 Mar 96 | | 2195 |
| 25 May 96 | 9:05:43 PM | 4168095E24 | 34 | 20 | LGRRRR | 1 | 13 May 96 | | 2196 |
| 25 May 96 | 10:20:21 PM | 41514A4716 | 39 | 10 | LGRRRR | 1 | 12 May 96 | | 2197 |
| 25 May 96 | 10:42:46 PM | 416A7B0F0A | 3F | 20 | LGRRRR | 1 | 4 May 96 | | 2198 |
| 25 May 96 | 10:43:49 PM | 416B2A674B | 88 | 22 | LGRRRR | 1 | 6 May 96 | | 2199 |
| 25 May 96 | 10:44:17 PM | 7F7B093772 | A | 10 | CLWRNF | 1 | 11 Apr 96 | | 2200 |
| 28 May 96 | 7:04:36 PM | 223151655B | 64 | 20 | DWOR | 3 | 29 Apr 96 | | 2201 |
| 28 May 96 | 7:31:07 PM | 4168695119 | 7C | 20 | LGRRRR | 1 | 16 May 96 | | 2202 |
| 28 May 96 | 7:59:38 PM | 22400A3941 | E6 | 22 | CLEARC | 1 | 12 Apr 96 | | 2203 |
| 28 May 96 | 8:21:28 PM | 41673C6300 | 47 | 20 | LGRRRR | 1 | 18 Apr 96 | | 2204 |
| 28 May 96 | 8:43:52 PM | 4152395526 | 47 | 22 | LGRRRR | 1 | 12 May 96 | | 2205 |
| 28 May 96 | 9:09:44 PM | 203E2D0174 | 00 | 10 20 | POWP | 1 | 11 Apr 96 | | 2206 |
| 28 May 96 | 9:37:07 PM | 4151307662 | 9A | 22 22 | LGRRRR | 1 | 12 May 96 | | 2207 |
| 28 May 96 | 9:37:08 PM | 4151307667 | 9F | 22 | | | | | 2208 |
| 28 May 96 | 9:37:11 PM | 4151044668 | 44 | 10 | LGRRRR | 1 | 2 May 96 | | 2209 |
| 28 May 96 | 9:37:31 PM | 4167240678 | 4A | 22 | LGRRRR | 1 | 3 May 96 | | 2210 |
| 28 May 96 | 9:37:39 PM | 7F7D0F3A17 | 5C | 10 | CLWRNF | 1 | 11 Apr 96 | | 2211 |
| 28 May 96 | 9:37:42 PM | 7F7D0F3A17 | 5C | 20 20 | CLWRNF | 1 | 11 Apr 96 | D | 2212 |
| 28 May 96 | 9:37:43 PM | 7F7D0F3A14 | 59 | 20 | | | | | 2213 |
| 28 May 96 | 9:38:31 PM | 223263614E | 66 | 20 | REDR | 3 | 17 Apr 96 | | 2214 |
| 28 May 96 | 9:39:27 PM | 222F417B26 | 33 | 20 | SAWT | 3 | 16 May 96 | | 2215 |
| 28 May 96 | 9:39:40 PM | 7F7A135C64 | C | 12 22 | IMNTRP | 1 | 8 May 96 | | 2216 |
| 28 May 96 | 9:39:40 PM | 201D7A2524 | 00 | 22 | LSHEEF | 3 | 29 Apr 96 | | 2217 |
| 28 May 96 | 9:39:42 PM | 222F47513C | 25 | 10 | REDR | 3 | 17 Apr 96 | | 2218 |
| 28 May 96 | 11:19:26 PM | 416836355C | 70 | 10 | LGRRRR | 1 | 8 May 96 | | 2219 |
| 28 May 96 | 11:19:30 PM | 416836355C | 70 | 20 | LGRRRR | 1 | 8 May 96 | D | 2220 |
| 28 May 96 | 11:19:38 PM | 415215067A | 28 | 10 20 | LGRRRR | 1 | 11 May 96 | | 2221 |
| 28 May 96 | 11:21:01 PM | 2235603810 | FF | 22 | REDR | 3 | 17 Apr 96 | | 2222 |
| 28 May 96 | 11:46:17 PM | 41530A3F42 | 1F | 22 | LGRRRR | 1 | 8 May 96 | | 2223 |
| 28 May 96 | 11:48:00 PM | 41522D7C20 | 5C | 22 | LGRRRR | 1 | 10 May 96 | | 2224 |
| 28 May 96 | 12:12:05 PM | 420F227915 | 01 | 10 | LGSFBY | 3 | 22 May 96 | | 2225 |
| 28 May 96 | 12:12:16 PM | 7F7A1A3009 | 4C | 22 | CLEARC | 1 | 12 Apr 96 | | 2226 |
| 29 May 96 | 6:35:17 PM | 20353D600E | 00 | 12 22 | CLWRNF | 1 | 11 Apr 96 | | 2227 |
| 29 May 96 | 6:42:34 PM | 5047420833 | 14 | 10 20 | SALTRP | 1 | 14 May 96 | | 2228 |
| 29 May 96 | 7:00:36 PM | 20164A4F31 | 00 | 22 | CLWRNF | 1 | 11 Apr 96 | | 2229 |
| 29 May 96 | 7:57:43 PM | 200E0F764D | 00 | 22 | CROOKR | 3 | 15 Apr 96 | | 2230 |
| 29 May 96 | 7:59:09 PM | 221C1F5C5F | 18 | 22 | KNOXB | 1 | 11 Apr 96 | | 2231 |
| 29 May 96 | 8:00:34 PM | 222D173C43 | E5 | 22 | DWOR | 3 | 30 Apr 96 | | 2232 |
| 29 May 96 | 8:00:34 PM | 2221173C43 | D9 | 22 | | | | | 2233 |
| 29 May 96 | 8:03:07 PM | 7F7A133C06 | 4E | 22 | KNOXB | 1 | 13 Apr 96 | | 2234 |
| 29 May 96 | 8:52:01 PM | 7F7A0F2C7D | B1 | 22 | KNOXB | 1 | 11 Apr 96 | | 2235 |
| 29 May 96 | 9:21:10 PM | 2036074B58 | 00 | 22 22 | LOLOC | 2 | 2 May 96 | | 2236 |
| 29 May 96 | 9:21:10 PM | 2036074B5B | 03 | 22 | | | | | 2237 |
| 29 May 96 | 9:22:00 PM | 20221B396A | 00 | 22 | RAPII | 1 | 4 Apr 96 | | 2238 |
| 29 May 96 | 10:25:05 PM | 41665B5D78 | D7 | 22 | LGRRRR | 1 | 18 May 96 | | 2239 |
| 29 May 96 | 10:25:52 PM | 7F7A070F0C | 1B | 10 | LSALR | 3 | 12 Apr 96 | | 2240 |
| 29 May 96 | 10:28:24 PM | 4152710174 | 79 | 22 | | | | | 2242 |
| 29 May 96 | 10:28:24 PM | 4152714174 | B9 | 22 | LGRRRR | 1 | 13 May 96 | | 2241 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 29 May 96 | 13:06:15 PM | 223D1F0F58 | E5 | 22 | RIS | 1 | 13 May 96 | | 2243 |
| 29 May 96 | 15:12:09 PM | 41692C0020 | F6 | 10 20 | LGRRRR | 1 | 30 Apr 96 | | 2244 |
| 29 May 96 | 15:12:10 PM | 4169200020 | EA | 20 | | | | | 2245 |
| 29 May 96 | 16:03:52 PM | 7F7A187950 | D | 10 20 | CLEARC | 1 | 12 Apr 96 | | 2246 |
| 29 May 96 | 17:20:08 PM | 4170340267 | 4E | 22 | LGRRRR | 1 | 12 May 96 | | 2247 |
| 29 May 96 | 17:20:09 PM | 7F7A11584A | A | 22 | SNKTRP | 1 | 26 Apr 96 | | 2248 |
| 29 May 96 | 17:20:25 PM | 41692F7C0B | 60 | 22 | LGRRRR | 1 | 18 May 96 | | 2249 |
| 29 May 96 | 17:21:03 PM | 221D296B5B | 2E | 22 | SALTRP | 1 | 19 Apr 96 | | 2250 |
| 29 May 96 | 17:47:29 PM | 2036056342 | 00 | 10 20 | DRYP | 1 | | | 2251 |
| 29 May 96 | 17:47:30 PM | 203605634E | 0C | 10 | | | | | 2252 |
| 29 May 96 | 17:47:38 PM | 20477E6E2D | 80 | 10 20 | POWP | 1 | 11 Apr 96 | | 2253 |
| 29 May 96 | 17:47:45 PM | 204D0D4046 | 00 | 20 | LSALR | 3 | 12 Apr 96 | | 2254 |
| 29 May 96 | 17:47:49 PM | 4170244923 | 41 | 22 | LGRRRR | 1 | 12 May 96 | | 2255 |
| 29 May 96 | 17:49:17 PM | 7F7D294219 | 80 | 22 | RLCTRP | 4 | 2 May 96 | | 2256 |
| 29 May 96 | 17:51:51 PM | 204B43163C | 00 | 10 20 | KNOXB | 1 | 11 Apr 96 | | 2257 |
| 29 May 96 | 18:13:45 PM | 7F7B0A2318 | 3F | 10 | CLWRNF | 1 | 11 Apr 96 | | 2258 |
| 29 May 96 | 18:13:48 PM | 7F7B0A2318 | 3F | 20 | CLWRNF | 1 | 11 Apr 96 | D | 2259 |
| 29 May 96 | 18:13:51 PM | 4151295254 | 61 | 10 20 | LGRRRR | 1 | 14 May 96 | | 2260 |
| 29 May 96 | 18:14:06 PM | 414C005337 | 17 | 10 | LGRRRR | 1 | 14 May 96 | | 2261 |
| 29 May 96 | 18:14:06 PM | 414C005334 | 14 | 10 | | | | | 2262 |
| 29 May 96 | 18:14:14 PM | 203E1D7015 | 00 | 10 20 | KNOXB | 1 | 11 Apr 96 | | 2263 |
| 29 May 96 | 21:09:42 PM | 7F7E6A5562 | 1E | 20 | Test tag | | | | 2264 |
| 29 May 96 | 21:17:42 PM | 7F7A08333D | 71 | 10 10 | CHIP | 1 | | | 2265 |
| 29 May 96 | 21:17:43 PM | 7F7A08303D | 6E | 10 | RAPH | 1 | 2 Apr 96 | | 2266 |
| 29 May 96 | 21:33:12 PM | 7F7A07586F | C7 | 20 | CHIP | 1 | | | 2267 |
| 29 May 96 | 21:36:47 PM | 204F0D384C | 00 | 20 | KNOXB | 1 | 11 Apr 96 | | 2268 |
| 29 May 96 | 22:57:51 PM | 4151570A33 | 26 | 22 | LGRRRR | 1 | 19 May 96 | | 2269 |
| 30 May 96 | 7:03:38 PM | 7F7E4A583A | D9 | 22 | Test tag | | | | 2270 |
| 30 May 96 | 7:05:53 PM | 203F341657 | 00 | 10 20 | POWP | 1 | 11 Apr 96 | | 2271 |
| 30 May 96 | 7:05:58 PM | 416A044707 | FD | 10 | LGRRRR | 1 | 30 Apr 96 | | 2272 |
| 30 May 96 | 7:36:06 PM | 7F7A074C15 | 61 | 10 20 | POWP | 1 | 11 Apr 96 | | 2273 |
| 30 May 96 | 8:24:17 PM | 7F7D2F274C | 9E | 20 | RLCTRP | 4 | 2 May 96 | | 2274 |
| 30 May 96 | 9:14:41 PM | 10011F651C | B1 | 12 | | | | | 2275 |
| 30 May 96 | 9:14:42 PM | 1F411F651C | 00 | 22 | IMNTRP | 1 | 6 May 96 | | 2276 |
| 30 May 96 | 9:15:53 PM | 7F7A113D29 | 70 | 10 20 | KNOXB | 1 | 11 Apr 96 | | 2277 |
| 30 May 96 | 12:19:59 PM | 221D103116 | 96 | 22 | RAPH | 1 | 19 Mar 96 | | 2278 |
| 30 May 96 | 12:20:04 PM | 7F7A114029 | 73 | 12 22 | KNOXB | 1 | 11 Apr 96 | | 2279 |
| 30 May 96 | 12:45:21 PM | 201B4B0674 | 00 | 12 22 | POWP | 1 | 11 Apr 96 | | 2280 |
| 30 May 96 | 12:45:28 PM | 200A2F7D2A | 00 | 12 22 | SNKTRP | 1 | 14 May 96 | | 2281 |
| 30 May 96 | 12:45:57 PM | 4152554456 | 82 | 22 | LGRRRR | 1 | 13 May 96 | | 2282 |
| 30 May 96 | 12:49:15 PM | 4151245338 | 41 | 20 20 | LGRRRR | 1 | 17 May 96 | | 2283 |
| 30 May 96 | 12:49:17 PM | 415124533B | 44 | 20 | | | | | 2284 |
| 30 May 96 | 13:10:19 PM | 1F580E2D4E | 00 | 20 | LOSTIR | 1 | 14 Aug 95 | | 2285 |
| 30 May 96 | 13:11:55 PM | 204A325C08 | 00 | 12 12 | POWP | 1 | 11 Apr 96 | | 2286 |
| 30 May 96 | 13:11:56 PM | 204A325C0B | 03 | 12 | | | | | 2287 |
| 30 May 96 | 13:34:37 PM | 204B185627 | 00 | 12 22 | KNOXB | 1 | 11 Apr 96 | | 2288 |
| 30 May 96 | 14:01:37 PM | 2043514903 | 00 | 22 | RAPH | 1 | 19 Mar 96 | | 2289 |
| 30 May 96 | 14:59:34 PM | 223D253863 | 1F | 10 | RIS | 3 | 21 May 96 | | 2290 |
| 30 May 96 | 14:59:38 PM | 223D253863 | 1F | 20 | RIS | 3 | 21 May 96 | D | 2291 |
| 30 May 96 | 14:59:44 PM | 7F7A115003 | 5D | 12 | SNAKER | 1 | 15 Apr 96 | | 2292 |
| 30 May 96 | 14:59:47 PM | 20232D622E | 00 | 12 | SIMP | 1 | | | 2293 |
| 30 May 96 | 14:59:49 PM | 22327A3271 | 71 | 12 | POWP | 1 | 11 Apr 96 | | 2294 |
| 30 May 96 | 14:59:52 PM | 203F2A4532 | 00 | 10 | RAPH | 1 | 19 Mar 96 | | 2295 |
| 30 May 96 | 15:00:34 PM | 7F7A12633B | A9 | 20 | KNOXB | 1 | 11 Apr 96 | | 2296 |
| 30 May 96 | 15:28:11 PM | 7F7A1A3134 | 78 | 12 | CLEARC | 1 | 12 Apr 96 | | 2297 |
| 30 May 96 | 15:31:54 PM | 7F7D3C6102 | 9B | 10 20 | CLEARC | 1 | 12 Apr 96 | | 2298 |
| 30 May 96 | 15:31:57 PM | 7F7D3C6104 | 9D | 20 | LOOKGC | 1 | 22 Sep 93 | BS | 2299 |
| 30 May 96 | 15:32:07 PM | 204A325C08 | 00 | 12 | POWP | 1 | 11 Apr 96 | D | 2300 |
| 30 May 96 | 15:32:39 PM | 200A536221 | 00 | 12 | RAPH | 1 | 19 Mar 96 | | 2301 |
| 30 May 96 | 16:04:18 PM | 1F4E772A72 | 80 | 10 | POWP | 1 | 11 Apr 96 | | 2302 |
| 30 May 96 | 16:05:19 PM | 1F4E772A72 | 80 | 20 | POWP | 1 | 11 Apr 96 | D | 2303 |
| 30 May 96 | 16:09:41 PM | 2044051F78 | 00 | 10 10 | POWP | 1 | 11 Apr 96 | | 2304 |
| 30 May 96 | 16:09:41 PM | 2044051F7B | 03 | 10 10 | DUMMY | | 1 Jan 00 | | 2305 |
| 30 May 96 | 16:09:44 PM | 2044051F78 | 00 | 20 | POWP | 1 | 11 Apr 96 | D | 2306 |
| 30 May 96 | 16:32:30 PM | 7F7A062241 | 62 | 10 | SIMP | 1 | | | 2307 |
| 30 May 96 | 16:32:35 PM | 7F7A062247 | 68 | 10 | POWP | 1 | 11 Apr 96 | | 2308 |
| 30 May 96 | 16:32:35 PM | 7F7A062241 | 62 | 10 20 | SIMP | 1 | | D | 2309 |
| 30 May 96 | 16:49:38 PM | 4166275272 | 92 | 10 | LGRRRR | 1 | 19 May 96 | | 2310 |
| 30 May 96 | 17:02:32 PM | 203E485F7B | 80 | 10 20 | REDF | 1 | 10 Apr 96 | | 2311 |
| 30 May 96 | 17:49:53 PM | 7F7A091277 | 8B | 10 | HCD | 3 | 2 Apr 96 | | 2312 |
| 30 May 96 | 18:04:34 PM | 41513F6634 | 6B | 12 | LGRRRR | 1 | 13 May 96 | | 2313 |
| 30 May 96 | 18:06:13 PM | 2240191038 | C3 | 10 20 | CLEARC | 1 | 12 Apr 96 | | 2314 |
| 30 May 96 | 18:06:19 PM | 4152644865 | A4 | 20 | LGRRRR | 1 | 10 May 96 | | 2315 |
| 31 May 96 | 7:13:31 PM | 7F7A074F4E | 9D | 22 | DRYP | 1 | | | 2316 |
| 31 May 96 | 7:38:53 PM | 7F7A11431F | 6C | 20 | KNOXB | 1 | 11 Apr 96 | | 2317 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Pariety | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 31 May 96 | 7:40:00 PM | 415235566A | 88 | 22 | LGRRRR | 1 | 17 May 96 | | 2318 |
| 31 May 96 | 7:42:10 PM | 41516A5365 | B4 | 20 | LGRRRR | 1 | 11 May 96 | | 2319 |
| 31 May 96 | 8:04:46 PM | 7F7A175A2E | 98 | 22 | KNOXB | 1 | 11 Apr 96 | | 2320 |
| 31 May 96 | 8:59:52 PM | 7F7A155A1F | 87 | 20 | IMNTRP | 3 | 13 May 96 | | 2321 |
| 31 May 96 | 9:26:30 PM | 222F4A386C | 3F | 22 | SAWT | 3 | 16 May 96 | | 2322 |
| 31 May 96 | 9:26:32 PM | 200F235955 | 00 | 20 | IMNTRP | 1 | 3 May 96 | | 2323 |
| 31 May 96 | 9:29:01 PM | 204102F5016 | 00 | 10 20 | KNOXB | 1 | 11 Apr 96 | | 2324 |
| 31 May 96 | 13:28:03 PM | 2046122662 | 00 | 10 | SALTRP | 1 | 16 Apr 96 | | 2325 |
| 31 May 96 | 13:52:24 PM | 7F7A15707F | FD | 10 | KNOXB | 1 | 11 Apr 96 | | 2326 |
| 31 May 96 | 14:42:10 PM | 223C4B6D73 | 89 | 20 | RIS | 4 | 22 May 96 | | 2327 |
| 31 May 96 | 14:46:30 PM | 221C326B77 | 52 | 10 | KNOXB | 1 | 11 Apr 96 | | 2328 |
| 31 May 96 | 15:34:30 PM | 4150640F66 | 6A | 12 | LGRRRR | 1 | 18 May 96 | | 2329 |
| 31 May 96 | 15:35:08 PM | 204F0D5133 | 00 | 10 20 | KNOXB | 1 | 13 Apr 96 | | 2330 |
| 31 May 96 | 17:02:40 PM | 4150690A10 | 14 | 20 | LGRRRR | 1 | 19 May 96 | | 2331 |
| 31 May 96 | 19:01:39 PM | 2043490450 | 00 | 20 | CLEARC | 1 | 12 Apr 96 | | 2332 |
| 31 May 96 | 19:16:37 PM | 203F420F50 | 00 | 10 | KNOXB | 1 | 11 Apr 96 | | 2333 |
| 31 May 96 | 19:16:40 PM | 203F420F50 | 00 | 20 | KNOXB | 1 | 11 Apr 96 | D | 2334 |
| 31 May 96 | 19:27:59 PM | 204F082069 | 00 | 10 | DUMMY | | 1 Jan 00 | | 2335 |
| 3 Jun 96 | 8:19:21 PM | 7F7E6A5562 | 1E | 22 | Test tag | | | | 2336 |
| 3 Jun 96 | 10:40:30 PM | 7F7E6A5562 | 1E | 10 20 | Test tag | | | | 2337 |
| 4 Jun 96 | 9:02:49 PM | 203F4A292E | 00 | 10 20 | KNOXB | 1 | 11 Apr 96 | | 2338 |
| 4 Jun 96 | 9:52:11 PM | 7F7A114C7A | D0 | 10 20 | KNOXB | 1 | 11 Apr 96 | | 2339 |
| 4 Jun 96 | 9:53:36 PM | 2046226D0B | 00 | 10 20 | KNOXB | 1 | 11 Apr 96 | | 2340 |
| 5 Jun 96 | 11:40:36 PM | 7F7E49554A | E5 | 22 | Test tag | | | | 2341 |
| 5 Jun 96 | 12:12:50 PM | 7F7E4C677A | 2A | 10 20 | JBA1 | 1 | 5 Jun 96 | | 2342 |
| 5 Jun 96 | 12:45:09 PM | 7F7E6A5973 | 33 | 10 20 | JBB1 | 1 | 5 Jun 96 | | 2343 |
| 5 Jun 96 | 12:45:12 PM | 7F7E704F29 | E5 | 12 | JBB1 | 1 | 5 Jun 96 | | 2344 |
| 5 Jun 96 | 12:45:18 PM | 7F7E4A703B | F2 | 20 | JBB1 | 1 | 5 Jun 96 | | 2345 |
| 5 Jun 96 | 12:47:18 PM | 7F7E4D714A | 05 | 10 | JBB1 | 1 | 5 Jun 96 | | 2346 |
| 5 Jun 96 | 12:48:46 PM | 7F7E5C6555 | 13 | 10 | JBB1 | 1 | 5 Jun 96 | | 2347 |
| 5 Jun 96 | 12:49:00 PM | 7F7E4E727C | 39 | 12 | JBA1 | 1 | 5 Jun 96 | | 2348 |
| 5 Jun 96 | 13:13:23 PM | 7F7E6A6858 | 27 | 10 20 | JBB1 | 1 | 5 Jun 96 | | 2349 |
| 5 Jun 96 | 13:14:27 PM | 7F7E4D340E | 8C | 12 | JBB1 | 1 | 5 Jun 96 | | 2350 |
| 5 Jun 96 | 13:20:33 PM | 7F7E4B1A18 | 7A | 10 10 | JBB1 | 1 | 5 Jun 96 | | 2351 |
| 5 Jun 96 | 13:20:33 PM | 7F7E4B1A1B | 7D | 10 | PKELLY | 3 | 23 May 89 | BS | 2352 |
| 5 Jun 96 | 13:42:11 PM | 20363E4C20 | 00 | 12 | REDFL | 4 | 5 Oct 95 | | 2353 |
| 5 Jun 96 | 14:09:40 PM | 7F7E4F1336 | 95 | 10 20 | JBC1 | 1 | 5 Jun 96 | | 2354 |
| 5 Jun 96 | 14:34:22 PM | 7F7F18367A | C6 | 10 | JBD1 | 1 | 5 Jun 96 | | 2355 |
| 5 Jun 96 | 14:35:17 PM | 7F7F183273 | B | 10 | JBD1 | 1 | 5 Jun 96 | | 2356 |
| 5 Jun 96 | 14:35:25 PM | 7F7F193136 | 7E | 10 | JBC1 | 1 | 5 Jun 96 | | 2357 |
| 5 Jun 96 | 14:37:01 PM | 7F7F16366A | B4 | 12 | JBD1 | 1 | 5 Jun 96 | | 2358 |
| 5 Jun 96 | 15:23:34 PM | 7F7A11251D | 4C | 12 | KNOXB | 1 | 11 Apr 96 | | 2359 |
| 5 Jun 96 | 15:29:06 PM | 7F7F183160 | A7 | 10 | | | | | 2360 |
| 5 Jun 96 | 15:29:06 PM | 7F7F183163 | A | 10 | JBC1 | 1 | 5 Jun 96 | | 2361 |
| 5 Jun 96 | 15:29:07 PM | 7F7F16371A | 65 | 20 | JBD1 | 1 | 5 Jun 96 | | 2362 |
| 6 Jun 96 | 8:24:05 PM | 7F7E494C00 | 92 | 20 | Test tag | | | | 2363 |
| 6 Jun 96 | 8:25:15 PM | 7F7E4F1F62 | C | 12 | Test tag | | | | 2364 |
| 6 Jun 96 | 8:25:28 PM | 7F7E4B133E | 99 | 12 | Test tag | | | | 2365 |
| 6 Jun 96 | 8:25:45 PM | 7F7E4F1F62 | C | 20 10 | Test tag | | | | 2366 |
| 6 Jun 96 | 8:25:58 PM | 7F7E4B133E | 99 | 20 10 | Test tag | | | | 2367 |
| 6 Jun 96 | 8:27:33 PM | 7F7E4F1F62 | C | 12 | Test tag | | | | 2368 |
| 6 Jun 96 | 8:27:51 PM | 7F7E4B323E | B8 | 20 | | | | | 2369 |
| 6 Jun 96 | 8:27:56 PM | 7F7E4F1F62 | C | 20 10 | Test tag | | | | 2370 |
| 6 Jun 96 | 8:49:01 PM | 7F7F153024 | 67 | 12 | JBA2 | 1 | 6 Jun 96 | | 2371 |
| 6 Jun 96 | 9:00:54 PM | 7F7F162C0D | 4D | 10 20 | JBA2 | 1 | 6 Jun 96 | | 2372 |
| 6 Jun 96 | 9:00:58 PM | 7F7F183155 | 9C | 12 | JBA2 | 1 | 6 Jun 96 | | 2373 |
| 6 Jun 96 | 9:01:39 PM | 7F7F183054 | 9A | 10 20 | JBA2 | 1 | 6 Jun 96 | | 2374 |
| 6 Jun 96 | 9:31:39 PM | 7F7F18306E | B4 | 10 20 | JBA2 | 1 | 6 Jun 96 | | 2375 |
| 6 Jun 96 | 9:32:14 PM | 202E621A36 | 00 | 10 20 | RAPH | 1 | 19 Mar 96 | | 2376 |
| 6 Jun 96 | 9:33:53 PM | 7F7F182F41 | 86 | 10 20 | JBA2 | 1 | 6 Jun 96 | | 2377 |
| 6 Jun 96 | 9:33:54 PM | 7F7F183231 | 79 | 10 20 | JBA2 | 1 | 6 Jun 96 | | 2378 |
| 6 Jun 96 | 9:34:30 PM | 7F7F163672 | B | 10 20 | JBA2 | 1 | 6 Jun 96 | | 2379 |
| 6 Jun 96 | 9:57:34 PM | 7F7F163201 | 47 | 10 | JBA2 | 1 | 6 Jun 96 | | 2380 |
| 6 Jun 96 | 9:57:35 PM | 7F7F183161 | A8 | 10 10 | JBA2 | 1 | 6 Jun 96 | | 2381 |
| 6 Jun 96 | 9:57:35 PM | 7F7F183730 | 7D | 10 | JBC2 | 1 | 6 Jun 96 | | 2382 |
| 6 Jun 96 | 10:28:25 PM | 7F7F183077 | B | 10 20 | JBB2 | 1 | 6 Jun 96 | | 2383 |
| 6 Jun 96 | 10:35:32 PM | 7F7F18366F | B | 10 | JBB2 | 1 | 6 Jun 96 | | 2384 |
| 6 Jun 96 | 10:35:38 PM | 7F7F18366F | B | 20 | JBB2 | 1 | 6 Jun 96 | D | 2385 |
| 6 Jun 96 | 10:35:42 PM | 407F18366F | 7C | 20 | | | | | 2386 |
| 6 Jun 96 | 10:35:44 PM | 7F7F18366F | B | 20 | JBB2 | 1 | 6 Jun 96 | D | 2387 |
| 6 Jun 96 | 11:00:52 PM | 7F7F16395E | A | 10 20 | JBC2 | 1 | 6 Jun 96 | | 2388 |
| 6 Jun 96 | 11:20:00 PM | 7F7E4D2679 | E9 | 12 | JBD2 | 1 | 6 Jun 96 | | 2389 |
| 6 Jun 96 | 11:22:17 PM | 7F7F16476D | C8 | 10 20 | JBC2 | 1 | 6 Jun 96 | | 2390 |
| 6 Jun 96 | 11:23:26 PM | 7F7E4A793E | FE | 12 | JBD2 | 1 | 6 Jun 96 | | 2391 |
| 7 Jun 96 | 8:49:17 PM | 7F7A117B72 | F7 | 12 | KNOXB | 1 | 11 Apr 96 | | 2392 |

Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 7 Jun 96 | 10:46:56 PM | 7F7A24776E | 02 | 12 | CLEARC | 1 | 12 Apr 96 | | 2393 |
| 7 Jun 96 | 11:38:29 PM | 20493C4615 | 00 | 10 20 | KNOXB | 1 | 11 Apr 96 | | 2394 |
| 7 Jun 96 | 12:21:40 PM | 7F7F164718 | 73 | 10 | JBD2 | 1 | 6 Jun 96 | | 2395 |
| 7 Jun 96 | 12:21:45 PM | 7F7F164718 | 73 | 20 | JBD2 | 1 | 6 Jun 96 | D | 2396 |
| 7 Jun 96 | 15:15:26 PM | 7F7E4F1F62 | C | 10 | Test tag | | | | 2397 |
| 7 Jun 96 | 15:15:46 PM | 7F7E4B133E | 99 | 10 | Test tag | | | | 2398 |
| 7 Jun 96 | 15:16:32 PM | 7F7E4F1F62 | C | 10 | Test tag | | | | 2399 |
| 7 Jun 96 | 15:17:18 PM | 7F7E4B133E | 99 | 10 | Test tag | | | | 2400 |
| 7 Jun 96 | 15:24:58 PM | 7F7E4F1F62 | C | 20 | Test tag | | | | 2401 |
| 7 Jun 96 | 15:25:01 PM | 7F7E4F1F62 | C | 10 | Test tag | | | | 2402 |
| 7 Jun 96 | 15:25:10 PM | 7F7E4F1F62 | C | 22 | Test tag | | | | 2403 |
| 7 Jun 96 | 15:25:58 PM | 7F7E4B133E | 99 | 20 | Test tag | | | | 2404 |
| 7 Jun 96 | 15:26:01 PM | 7F7E4F1F62 | C | 20 | Test tag | | | | 2405 |
| 7 Jun 96 | 15:27:18 PM | 7F7E4B133E | 99 | 20 | Test tag | | | | 2406 |
| 7 Jun 96 | 15:27:21 PM | 7F7E4F1F62 | C | 20 | Test tag | | | | 2407 |
| 7 Jun 96 | 15:27:36 PM | 7F7E4F1C62 | C | 22 | ALTULC | 1 | 18 Aug 88 | BS | 2408 |
| 7 Jun 96 | 15:27:49 PM | 7F7E4F1F62 | C | 22 | Test tag | | | | 2409 |
| 7 Jun 96 | 15:29:55 PM | 7F7E4F1F62 | C | 22 12 | Test tag | | | | 2410 |
| 7 Jun 96 | 15:30:17 PM | 7F7E4F1F62 | C | 20 10 | Test tag | | | | 2411 |
| 7 Jun 96 | 15:30:25 PM | 7F7E4B133E | 99 | 20 | Test tag | | | | 2412 |
| 7 Jun 96 | 15:30:28 PM | 7F7E4C1F62 | C | 20 | | | | | 2414 |
| 7 Jun 96 | 15:30:28 PM | 7F7E4F1F62 | C | 20 20 | Test tag | | | | 2413 |
| 7 Jun 96 | 15:30:43 PM | 7F5C4B133E | 77 | 22 | | | | | 2415 |
| 7 Jun 96 | 15:30:43 PM | 7F7E4B133E | 99 | 22 | Test tag | | | | 2416 |
| 7 Jun 96 | 15:31:00 PM | 7F7E4F1F62 | C | 22 | Test tag | | | | 2417 |
| 7 Jun 96 | 15:32:32 PM | 7F7E4B133E | 99 | 20 | Test tag | | | | 2418 |
| 7 Jun 96 | 15:41:42 PM | 7F7E4D113F | 9A | 12 | Test tag | | | | 2419 |
| 7 Jun 96 | 15:42:03 PM | 7F7E4D113F | 9A | 20 20 | Test tag | | | | 2421 |
| 7 Jun 96 | 15:42:03 PM | 7F7E4D1130 | 8B | 20 20 | COLR | 1 | | | 2420 |
| 7 Jun 96 | 15:42:25 PM | 7F7E4D113F | 9A | 22 | Test tag | | | | 2422 |
| 7 Jun 96 | 15:42:33 PM | 7F7E4D113F | 9A | 22 | Test tag | | | | 2424 |
| 7 Jun 96 | 15:42:33 PM | 7F7E4D113C | 97 | 22 | MCN | 1 | | | 2423 |
| 7 Jun 96 | 15:42:44 PM | 7F7E4D1130 | 8B | 22 | COLR | 1 | | D | 2425 |
| 7 Jun 96 | 15:42:44 PM | 7F7E4D113F | 9A | 22 | Test tag | | | | 2426 |
| 7 Jun 96 | 15:43:27 PM | 7F7E4B133E | 99 | 20 | Test tag | | | | 2427 |
| 7 Jun 96 | 15:43:36 PM | 7F7E4D113F | 9A | 20 | Test tag | | | | 2428 |
| 7 Jun 96 | 15:44:06 PM | 7F7E4B133E | 99 | 20 | Test tag | | | | 2429 |
| 7 Jun 96 | 15:44:11 PM | 7F7E4D113F | 9A | 20 20 | Test tag | | | | 2430 |
| 7 Jun 96 | 15:44:12 PM | 7F7E4D1130 | 8B | 20 | COLR | 1 | | D | 2431 |
| 11 Jun 96 | 9:13:14 PM | 7F7E4A5651 | EE | 22 | Test tag | | | | 2432 |
| 11 Jun 96 | 9:24:21 PM | 7F7E4B133E | 99 | 10 | Test tag | | | | 2433 |
| 11 Jun 96 | 9:24:27 PM | 7F7E4B103E | 96 | 10 | COLR | 3 | | | 2434 |
| 11 Jun 96 | 9:24:27 PM | 7F7E4B133E | 99 | 10 20 | Test tag | | | | 2435 |
| 11 Jun 96 | 9:24:33 PM | 7F7E4D113F | 9A | 10 | Test tag | | | | 2436 |
| 11 Jun 96 | 9:24:44 PM | 7F7E4B133E | 99 | 22 12 | Test tag | | | | 2437 |
| 11 Jun 96 | 9:25:07 PM | 7F7E4D113F | 9A | 22 12 | Test tag | | | | 2438 |
| 11 Jun 96 | 10:18:43 PM | 7F784D113F | 94 | 12 | | | | | 2439 |
| 11 Jun 96 | 10:18:43 PM | 7F7E4D113F | 9A | 12 | Test tag | | | | 2440 |
| 11 Jun 96 | 10:19:01 PM | 7F7E4B133E | 99 | 22 12 | Test tag | | | | 2441 |
| 11 Jun 96 | 10:19:21 PM | 7F7E4D113F | 9A | 22 12 | Test tag | | | | 2442 |
| 11 Jun 96 | 10:19:41 PM | 7F7E4D1130 | 8B | 22 | COLR | 1 | | D | 2443 |
| 11 Jun 96 | 10:19:41 PM | 7F7E4D113F | 9A | 22 | Test tag | | | | 2444 |
| 11 Jun 96 | 10:19:56 PM | 7F7E4B133E | 99 | 10 | Test tag | | | | 2445 |
| 11 Jun 96 | 10:20:15 PM | 7F7E4D113F | 9A | 20 10 | Test tag | | | | 2446 |
| 11 Jun 96 | 10:20:29 PM | 7F7E4B133E | 99 | 20 10 | Test tag | | | | 2447 |
| 12 Jun 96 | 10:14:40 PM | 7F7E4B133E | 99 | 12 | Test tag | | | | 2448 |
| 12 Jun 96 | 10:14:57 PM | 7F7E4D113F | 9A | 12 22 | Test tag | | | | 2449 |
| 12 Jun 96 | 10:15:08 PM | 7F7E4B133E | 99 | 22 | Test tag | | | | 2450 |
| 12 Jun 96 | 10:15:11 PM | 7F7E4B133E | 99 | 12 | Test tag | | | | 2451 |
| 12 Jun 96 | 10:15:25 PM | 7F7E4D113F | 9A | 20 10 | Test tag | | | | 2452 |
| 12 Jun 96 | 10:15:37 PM | 7F7E4B133E | 99 | 10 | Test tag | | | | 2453 |
| 12 Jun 96 | 10:15:42 PM | 7F7E4B133E | 99 | 20 20 | Test tag | | | | 2454 |
| 12 Jun 96 | 10:15:42 PM | 7F7E0A133E | 58 | 20 | | | | | 2455 |
| 12 Jun 96 | 10:15:42 PM | 7F7E0B133E | 59 | 20 | | | | | 2456 |
| 12 Jun 96 | 10:15:47 PM | 7F7E4D113F | 9A | 20 10 | Test tag | | | | 2457 |
| 12 Jun 96 | 10:32:24 PM | 7F7E4D113F | 9A | 22 12 | Test tag | | | | 2458 |
| 12 Jun 96 | 10:33:25 PM | 7F7E4D113F | 9A | 22 | Test tag | | | | 2459 |
| 12 Jun 96 | 10:34:10 PM | 7F7E4D113F | 9A | 20 10 | Test tag | | | | 2460 |
| 12 Jun 96 | 10:34:14 PM | 7F7E4D113C | 97 | 20 | MCN | 1 | | D | 2461 |
| 12 Jun 96 | 10:34:15 PM | 7F7E4D113F | 9A | 20 | Test tag | | | | 2462 |
| 12 Jun 96 | 10:36:46 PM | 7F7E4D113F | 9A | 22 12 | Test tag | | | | 2463 |
| 12 Jun 96 | 10:38:26 PM | 7F7E4D1100 | 5B | 20 | MCN | 1 | | | 2465 |
| 12 Jun 96 | 10:38:26 PM | 7F7E4D113F | 9A | 20 20 | Test tag | | | | 2464 |
| 12 Jun 96 | 10:38:29 PM | 7F7E4D113F | 9A | 10 | Test tag | | | | 2466 |
| 12 Jun 96 | 10:46:31 PM | 7F7E4B7141 | FA | 22 12 | Test tag | | | | 2467 |



Appendix Table A3.--Continued

| PIT-tag detection information | | | | | PIT-tag release information | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Time | Pit-tag code | Parity | Detector Coils | Site code | Species code | Date | Record status | Entry no. |
| 12 Jun 96 | 10:46:55 PM | 7F7E4E3B33 | B9 | 22 12 | Test tag | | | | 2468 |
| 12 Jun 96 | 10:47:15 PM | 7F7E4B7141 | FA | 20 10 | Test tag | | | | 2469 |
| 12 Jun 96 | 10:47:35 PM | 7F7E4E3B33 | B9 | 20 20 | Test tag | | | | 2470 |
| 12 Jun 96 | 10:47:36 PM | 7F7E4E3B36 | B | 20 | | | | | 2471 |
| 12 Jun 96 | 10:47:36 PM | 7F7E4E3B03 | 89 | 20 | | | | | 2472 |
| 12 Jun 96 | 10:47:38 PM | 7F7E4E3B33 | B9 | 10 | Test tag | | | | 2473 |
| 12 Jun 96 | 10:47:42 PM | 7F7E4E3B33 | B9 | 10 | Test tag | | | | 2475 |
| 12 Jun 96 | 10:47:42 PM | 7F7E4E3B30 | B6 | 10 | | | | | 2474 |
| 12 Jun 96 | 12:39:47 PM | 7F7E4E3B33 | B9 | 20 20 | Test tag | | | | 2476 |
| 12 Jun 96 | 12:39:49 PM | 7F7E4E3B30 | B6 | 20 | | | | BS | 2477 |
| 12 Jun 96 | 12:40:00 PM | 7F7E4B7141 | FA | 20 10 | Test tag | | | | 2478 |
| 12 Jun 96 | 12:40:04 PM | 7F7E4B7101 | B | 20 | MCN | 1 | | | 2479 |
| 12 Jun 96 | 12:40:04 PM | 7F7E4B7141 | FA | 20 | Test tag | | | | 2480 |
| 12 Jun 96 | 12:40:42 PM | 7F7E4E3B33 | B9 | 12 | Test tag | | | | 2481 |
| 12 Jun 96 | 12:41:04 PM | 7F7E4B7141 | FA | 12 | Test tag | | | | 2482 |
| 12 Jun 96 | 12:50:34 PM | 7F7E4B7141 | FA | 12 | Test tag | | | | 2483 |
| 12 Jun 96 | 12:53:22 PM | 7F7E495D1F | C2 | 10 | | | | | 2484 |
| 12 Jun 96 | 12:57:39 PM | 7F7E4F0762 | B5 | 12 | | | | | 2485 |
| 12 Jun 96 | 12:58:43 PM | 7F7E4F0762 | B5 | 20 10 | | | | D | 2486 |
| 12 Jun 96 | 13:00:15 PM | 7F7E400762 | A6 | 10 | | | | | 2487 |
| 12 Jun 96 | 13:00:15 PM | 7F7E4F0762 | B5 | 10 | | | | D | 2488 |
| 12 Jun 96 | 13:13:57 PM | 7F7E4F0762 | B5 | 12 | | | | D | 2489 |
| 12 Jun 96 | 13:14:36 PM | 7F7E4E3B33 | B9 | 20 | Test tag | | | | 2490 |
| 12 Jun 96 | 13:16:55 PM | 7F7E4F0762 | B5 | 20 | | | | D | 2491 |
| 12 Jun 96 | 13:25:47 PM | 7F7E4F0762 | B5 | 12 | | | | D | 2492 |
| 12 Jun 96 | 13:26:18 PM | 7F7E4F0762 | B5 | 20 10 | | | | D | 2493 |
| 12 Jun 96 | 13:26:51 PM | 7F7E4F0762 | B5 | 12 | | | | D | 2494 |
| 12 Jun 96 | 13:27:56 PM | 7F7E4F0762 | B5 | 12 | | | | D | 2495 |
| 12 Jun 96 | 13:35:08 PM | 7F7E4F0762 | B5 | 12 12 | | | | D | 2496 |
| 12 Jun 96 | 13:35:08 PM | 7F7E4F076E | C1 | 12 | | | | | 2497 |
| 12 Jun 96 | 13:36:08 PM | 7F7E4F0762 | B5 | 20 10 | | | | D | 2498 |
| 13 Jun 96 | 10:07:31 PM | 7F7E4A547E | 19 | 22 | Test tag | | | | 2499 |
| 13 Jun 96 | 10:13:57 PM | 7F7E4A547E | 19 | 12 | Test tag | | | | 2500 |

**Grand Total:** 2499

**Appendix Table A4. Detections of PIT-tags and associated release information, Jones Beach, Columbia River Kilometer 75, 1996.**

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| 4 | **REDFL: REDFISH L** | | | | | | | | |
| | 5 Jun 96 | 13:42 | 20363E4C20 | 5 Oct 95 | 64 | | 244 | 6 | 2353 |
| | Subtotal this release site: REDFL | | | 1 Means: | 64 | | 244 | 6 | |
| 4 | **RIS: ROCK ISLAND D** | | | | | | | | |
| | 10 May 96 | 10:23 | 223F3E7825 | 25 Apr 96 | 117 | W | 15 | 44 | 1464 |
| | 24 May 96 | 11:15 | 223C7E4A1E | 9 May 96 | 158 | W | 15 | 45 | 2181 |
| | 31 May 96 | 14:42 | 223C4B6D73 | 22 May 96 | 126 | W | 9 | 74 | 2327 |
| | Subtotal this release site: RIS | | | 3 Means: | 134 | | 13 | 54 | |
| 4 | **RLCTRP: REDFISH L C T** | | | | | | | | |
| | 29 May 96 | 17:49 | 7F7D294219 | 2 May 96 | 147 | H | 27 | 51 | 2256 |
| | 30 May 96 | 08:24 | 7F7D2F274C | 2 May 96 | 159 | H | 28 | 50 | 2274 |
| | Subtotal this release site: RLCTRP | | | 2 Means: | 153 | | 27 | 50 | |
| | **Subtotal this species code: 4** | | | **6 Means:** | **129** | | **56** | **45** | |
| 3 | **BCANF: BIG CANYON FACILITY** | | | | | | | | |
| | 7 May 96 | 20:54 | 201E1A5F49 | 17 Apr 96 | 150 | H | 20 | 43 | 938 |
| | 21 May 96 | 10:42 | 201F041D20 | 17 Apr 96 | 160 | H | 34 | 26 | 1881 |
| | 24 May 96 | 10:54 | 20416C595A | 16 Apr 96 | 193 | H | 38 | 23 | 1976 |
| | Subtotal this release site: BCANF | | | 3 Means: | 168 | | 31 | 30 | |
| 3 | **BIGCAC: BIG CANYON C** | | | | | | | | |
| | 7 May 96 | 22:12 | 2036045155 | 22 Apr 96 | 191 | W | 16 | 47 | 947 |
| | Subtotal this release site: BIGCAC | | | 1 Means: | 191 | | 16 | 47 | |
| 3 | **COLR: COLUMBIA R** | | | | | | | | |
| | 3 May 96 | 07:56 | 7F7E4B1125 | | 218 | | | | 728 |
| | 13 May 96 | 14:26 | 7F7E2F302B | | 167 | | | | 1726 |
| | 11 Jun 96 | 09:24 | 7F7E4B103E | | 218 | | | | 2434 |
| | Subtotal this release site: COLR | | | 3 Means: | 201 | | | | |
| 3 | **CROOKR: CROOKED R** | | | | | | | | |
| | 3 May 96 | 00:19 | 22383D293D | 15 Apr 96 | 186 | H | 18 | 51 | 724 |
| | 20 May 96 | 10:28 | 7F7B074361 | 15 Apr 96 | 194 | H | 35 | 26 | 1818 |
| | 29 May 96 | 07:57 | 200E0F764D | 15 Apr 96 | 191 | | 44 | 20 | 2230 |
| | Subtotal this release site: CROOKR | | | 3 Means: | 190 | | 32 | 32 | |
| 3 | **CROTRP: CROOKED RIVER T** | | | | | | | | |
| | 24 May 96 | 08:19 | 1F6217491F | 19 Apr 96 | 170 | H | 35 | 26 | 1950 |
| | Subtotal this release site: CROTRP | | | 1 Means: | 170 | | 35 | 26 | |
| 3 | **DWOR: DWORSHAK H** | | | | | | | | |
| | 7 May 96 | 07:12 | 223144152B | 29 Apr 96 | 202 | H | 8 | 94 | 866 |
| | 8 May 96 | 08:53 | 223149493F | 29 Apr 96 | 204 | H | 9 | 82 | 1009 |
| | 9 May 96 | 11:05 | 420F6B075B | 29 Apr 96 | 187 | H | 10 | 74 | 1455 |
| | 20 May 96 | 06:55 | 222D376621 | 3 May 96 | 174 | H | 17 | 44 | 1778 |
| | 20 May 96 | 08:47 | 4154721412 | 29 Apr 96 | 179 | H | 21 | 35 | 1788 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 20 May 96 | 10:25 | 7F7A076671 | 29 Apr 96 | 183 | H | 21 | 35 | 1816 |
| | 28 May 96 | 07:04 | 223151655B | 29 Apr 96 | 216 | H | 29 | 26 | 2201 |
| | 29 May 96 | 08:00 | 222D173C43 | 30 Apr 96 | 217 | H | 29 | 26 | 2232 |
| | Subtotal this release site: DWOR | | | 8 Means: | 195 | | 18 | 52 | |
| 3 | FISHC: FISH C | | | | | | | | |
| | 8 May 96 | 09:50 | 1F716E4939 | 31 Aug 94 | 95 | | 616 | 1 | 1231 |
| | Subtotal this release site: FISHC | | | 1 Means: | 95 | | 616 | 1 | |
| 3 | HAZARC: HAZARD C | | | | | | | | |
| | 11 May 96 | 10:40 | 203E38006A | 11 Apr 96 | 204 | H | 30 | 31 | 1484 |
| | 13 May 96 | 20:28 | 2047110B7D | 11 Apr 96 | 194 | H | 32 | 29 | 1747 |
| | Subtotal this release site: HAZARC | | | 2 Means: | 199 | | 31 | 30 | |
| 3 | HCD: HELLS CANYON D | | | | | | | | |
| | 1 May 96 | 08:11 | 2046223C3C | 2 Apr 96 | 231 | H | 29 | 29 | 613 |
| | 4 May 96 | 07:18 | 20494B0844 | 2 Apr 96 | 197 | H | 32 | 27 | 813 |
| | 30 May 96 | 17:49 | 7F7A091277 | 2 Apr 96 | 237 | H | 58 | 15 | 2312 |
| | Subtotal this release site: HCD | | | 3 Means: | 222 | | 39 | 24 | |
| 3 | IMNTRP: IMNAHA T | | | | | | | | |
| | 30 Apr 96 | 08:23 | 20443D0A55 | 16 Apr 96 | 174 | W | 14 | 55 | 470 |
| | 7 May 96 | 07:40 | 7F7A100025 | 26 Apr 96 | 172 | W | 11 | 71 | 880 |
| | 7 May 96 | 09:06 | 2046003961 | 19 Apr 96 | 192 | W | 18 | 43 | 895 |
| | 21 May 96 | 06:39 | 20434E153A | 6 May 96 | 170 | W | 15 | 52 | 1825 |
| | 21 May 96 | 06:44 | 204938035C | 22 Apr 96 | 183 | W | 29 | 26 | 1828 |
| | 22 May 96 | 07:52 | 7F7A116842 | 6 May 96 | 212 | H | 16 | 48 | 1904 |
| | 31 May 96 | 08:59 | 7F7A155A1F | 13 May 96 | 216 | W | 18 | 43 | 2321 |
| | Subtotal this release site: IMNTRP | | | 7 Means: | 188 | | 17 | 48 | |
| 3 | KOOS: KOOSKIA H | | | | | | | | |
| | 24 May 96 | 07:04 | 7F7B0B031D | 10 May 96 | 156 | W | 14 | 58 | 1943 |
| | Subtotal this release site: KOOS | | | 1 Means: | 156 | | 14 | 58 | |
| 3 | LGRFBY: RELEASE INTO FOREBAY WITHIN 0.5 KM UPSTREAM OF DAM | | | | | | | | |
| | 3 May 96 | 08:19 | 221E20481F | 24 Apr 96 | 185 | H | 9 | 71 | 731 |
| | 3 May 96 | 10:21 | 2218126760 | 24 Apr 96 | 178 | H | 9 | 71 | 796 |
| | 4 May 96 | 09:01 | 22181E0662 | 24 Apr 96 | 162 | H | 10 | 64 | 828 |
| | 4 May 96 | 11:31 | 2212443548 | 24 Apr 96 | 166 | H | 10 | 63 | 859 |
| | 4 May 96 | 12:17 | 221B067254 | 25 Apr 96 | 200 | H | 9 | 68 | 862 |
| | 7 May 96 | 09:07 | 22140A4A71 | 25 Apr 96 | 228 | H | 12 | 52 | 896 |
| | 7 May 96 | 09:53 | 221501666E | 25 Apr 96 | 179 | H | 12 | 52 | 898 |
| | 7 May 96 | 10:22 | 222A604205 | 26 Apr 96 | 192 | H | 11 | 56 | 903 |
| | 7 May 96 | 10:25 | 2214314565 | 26 Apr 96 | 175 | H | 11 | 56 | 904 |
| | 7 May 96 | 11:07 | 2215042215 | 26 Apr 96 | 182 | H | 11 | 56 | 908 |
| | 7 May 96 | 11:56 | 2214534574 | 25 Apr 96 | 195 | H | 12 | 51 | 919 |
| | 7 May 96 | 18:30 | 2214604166 | 27 Apr 96 | 224 | H | 10 | 60 | 926 |
| | 7 May 96 | 22:06 | 222A522340 | 27 Apr 96 | 212 | H | 11 | 59 | 944 |
| | 8 May 96 | 10:17 | 222A41235F | 26 Apr 96 | 181 | H | 12 | 51 | 1306 |
| | 8 May 96 | 15:10 | 2218076C45 | 27 Apr 96 | 208 | H | 11 | 55 | 1356 |
| | 8 May 96 | 15:12 | 221E0E146F | 24 Apr 96 | 186 | H | 14 | 44 | 1357 |
| | 8 May 96 | 16:00 | 222A696914 | 27 Apr 96 | 185 | H | 11 | 55 | 1362 |
| | 8 May 96 | 16:22 | 2218170415 | 25 Apr 96 | 173 | H | 13 | 47 | 1367 |
| | 8 May 96 | 16:46 | 222434663C | 27 Apr 96 | 209 | H | 11 | 55 | 1371 |
| | 8 May 96 | 17:13 | 2213084726 | 24 Apr 96 | 234 | H | 14 | 44 | 1373 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 8 May 96 | 19:36 | 22191F0E54 | 25 Apr 96 | 168 | H | 13 | 46 | 1412 |
| | 8 May 96 | 19:36 | 222A6C1B3C | 27 Apr 96 | 208 | H | 11 | 54 | 1413 |
| | 9 May 96 | 08:43 | 222A030A3F | 25 Apr 96 | 215 | H | 14 | 44 | 1441 |
| | 9 May 96 | 10:35 | 22146A4362 | 27 Apr 96 | 219 | H | 12 | 51 | 1451 |
| | 10 May 96 | 07:14 | 22144C7363 | 25 Apr 96 | 176 | H | 15 | 42 | 1462 |
| | 10 May 96 | 11:23 | 221E080559 | 27 Apr 96 | 191 | H | 13 | 47 | 1474 |
| | 21 May 96 | 08:01 | 221B157F34 | 24 Apr 96 | 182 | H | 27 | 23 | 1839 |
| | 24 May 96 | 09:34 | 22333D6735 | 26 Apr 96 | 179 | H | 28 | 22 | 1961 |
| | Subtotal this release site: LGRFBY | | | 28 | Means: | 193 | | 13 | 52 |
| 3 | LGRTAL: RELEASE INTO THE TAILRACE WITHIN 0.5 KM DOWNSTREAM OF DAM | | | | | | | | |
| | 4 May 96 | 10:33 | 22180E0103 | 25 Apr 96 | 179 | H | 9 | 69 | 847 |
| | 4 May 96 | 11:02 | 2218245D7F | 24 Apr 96 | 168 | H | 10 | 63 | 854 |
| | 7 May 96 | 07:57 | 2214642324 | 26 Apr 96 | 176 | H | 11 | 57 | 882 |
| | 7 May 96 | 11:31 | 22326A2679 | 26 Apr 96 | 188 | H | 11 | 56 | 910 |
| | 7 May 96 | 18:26 | 22295E2C43 | 27 Apr 96 | 200 | H | 10 | 60 | 921 |
| | 7 May 96 | 19:47 | 2229473F05 | 26 Apr 96 | 183 | H | 11 | 54 | 931 |
| | 7 May 96 | 20:57 | 2214695C24 | 27 Apr 96 | 209 | H | 10 | 59 | 939 |
| | 7 May 96 | 23:28 | 221B2B3C1D | 26 Apr 96 | 181 | H | 12 | 53 | 951 |
| | 8 May 96 | 07:38 | 2229571F6A | 27 Apr 96 | 200 | H | 11 | 57 | 962 |
| | 8 May 96 | 07:38 | 2214701C72 | 26 Apr 96 | 190 | H | 12 | 52 | 963 |
| | 8 May 96 | 08:02 | 7F7D125D0A | 29 Apr 96 | 212 | H | 9 | 70 | 967 |
| | 8 May 96 | 08:43 | 222433540A | 27 Apr 96 | 187 | H | 11 | 56 | 982 |
| | 8 May 96 | 10:15 | 2219252A06 | 27 Apr 96 | 183 | H | 11 | 56 | 1304 |
| | 8 May 96 | 10:43 | 2224243657 | 27 Apr 96 | 203 | H | 11 | 56 | 1352 |
| | 8 May 96 | 10:48 | 22144C0B21 | 27 Apr 96 | 170 | H | 11 | 56 | 1353 |
| | 8 May 96 | 16:00 | 22182B3A20 | 26 Apr 96 | 218 | H | 12 | 50 | 1363 |
| | 8 May 96 | 16:00 | 221E026F61 | 25 Apr 96 | 195 | H | 13 | 47 | 1364 |
| | 8 May 96 | 16:00 | 22181E2455 | 26 Apr 96 | 199 | H | 12 | 50 | 1365 |
| | 8 May 96 | 17:56 | 22295C224C | 26 Apr 96 | 179 | H | 12 | 50 | 1375 |
| | 8 May 96 | 18:45 | 2224247846 | 27 Apr 96 | 256 | H | 11 | 54 | 1405 |
| | 8 May 96 | 19:21 | 22181A745E | 27 Apr 96 | 185 | H | 11 | 54 | 1409 |
| | 9 May 96 | 10:39 | 22182A345C | 24 Apr 96 | 210 | H | 15 | 42 | 1453 |
| | 10 May 96 | 11:25 | 2218253640 | 24 Apr 96 | 189 | H | 16 | 39 | 1475 |
| | 11 May 96 | 09:50 | 221400642A | 26 Apr 96 | 182 | H | 15 | 41 | 1480 |
| | 11 May 96 | 11:09 | 22295A752D | 26 Apr 96 | 190 | H | 15 | 41 | 1490 |
| | 21 May 96 | 16:44 | 22334D3332 | 27 Apr 96 | 203 | H | 24 | 26 | 1892 |
| | 22 May 96 | 15:57 | 7F7F741112 | 29 Apr 96 | 243 | H | 23 | 27 | 1916 |
| | 23 May 96 | 06:41 | 222A516C01 | 27 Apr 96 | 200 | H | 26 | 24 | 1935 |
| | 24 May 96 | 09:12 | 22293F783C | 25 Apr 96 | 194 | H | 29 | 21 | 1956 |
| | Subtotal this release site: LGRTAL | | | 29 | Means: | 196 | | 14 | 50 |
| 3 | LGSFBY: RELEASE INTO FOREBAY WITHIN 0.5 KM UPSTREAM OF DAM | | | | | | | | |
| | 24 May 96 | 07:03 | 416E726D5B | 18 May 96 | 233 | H | 6 | 101 | 1940 |
| | 28 May 96 | 12:12 | 420F227915 | 22 May 96 | 188 | H | 6 | 97 | 2225 |
| | Subtotal this release site: LGSFBY | | | 2 | Means: | 211 | | 6 | 99 |
| 3 | LSALR: LITTLE SALMON R | | | | | | | | |
| | 21 May 96 | 10:16 | 2044437A5F | 26 Mar 96 | 166 | H | 56 | 14 | 1870 |
| | 29 May 96 | 10:25 | 7F7A070F0C | 12 Apr 96 | 180 | H | 47 | 17 | 2240 |
| | 29 May 96 | 17:47 | 204D0D4046 | 12 Apr 96 | 149 | H | 47 | 17 | 2254 |
| | Subtotal this release site: LSALR | | | 3 | Means: | 165 | | 50 | 16 |
| 3 | LSHEEF: LITTLE SHEEP FACILITY | | | | | | | | |
| | 9 May 96 | 08:31 | 2043042C6D | 29 Apr 96 | 153 | H | 10 | 82 | 1438 |
| | 21 May 96 | 08:29 | 201D7B497F | 29 Apr 96 | 160 | H | 22 | 37 | 1845 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 25 May 96 | 07:49 | 201E13416E | 29 Apr 96 | 178 | H | 26 | 31 | 2188 |
| | 28 May 96 | 09:39 | 201D7A2524 | 29 Apr 96 | 145 | H | 29 | 28 | 2217 |
| | Subtotal this release site: LSHEEF | | | 4 Means: | 159 | | 21 | 44 | |
| 3 | PAHTRP: PAHSIMEROI R T | | | | | | | | |
| | 24 May 96 | 10:12 | 7F7A0F7978 | 18 Apr 96 | 178 | H | 36 | 35 | 1966 |
| | Subtotal this release site: PAHTRP | | | 1 Means: | 178 | | 36 | 35 | |
| 3 | REDR: RED R | | | | | | | | |
| | 24 May 96 | 08:46 | 222F2F7B6C | 17 Apr 96 | 176 | H | 37 | 25 | 1951 |
| | 28 May 96 | 09:38 | 223263614E | 17 Apr 96 | 182 | H | 41 | 23 | 2214 |
| | 28 May 96 | 09:39 | 222F47513C | 17 Apr 96 | 174 | H | 41 | 23 | 2218 |
| | 28 May 96 | 11:21 | 2235603810 | 17 Apr 96 | 178 | H | 41 | 23 | 2222 |
| | Subtotal this release site: REDR | | | 4 Means: | 178 | | 40 | 23 | |
| 3 | RIS: ROCK ISLAND D | | | | | | | | |
| | 9 May 96 | 09:23 | 223D1E183F | 29 Apr 96 | 211 | W | 10 | 68 | 1449 |
| | 13 May 96 | 12:04 | 22405A2A25 | 1 May 96 | 197 | W | 12 | 56 | 1720 |
| | 21 May 96 | 09:12 | 223D173B68 | 7 May 96 | 177 | W | 14 | 48 | 1848 |
| | 23 May 96 | 06:54 | 223C465C62 | 13 May 96 | 202 | H | 10 | 69 | 1939 |
| | 30 May 96 | 14:59 | 223D253863 | 21 May 96 | 190 | W | 9 | 73 | 2290 |
| | Subtotal this release site: RIS | | | 5 Means: | 195 | | 11 | 63 | |
| 3 | RUNNIC: RUNNING C | | | | | | | | |
| | 30 Apr 96 | 07:07 | 7F7D7F6806 | 19 Oct 95 | 164 | | 194 | 6 | 450 |
| | 2 May 96 | 08:57 | 7F7B116158 | 13 Oct 95 | 162 | | 202 | 5 | 638 |
| | Subtotal this release site: RUNNIC | | | 2 Means: | 163 | | 198 | 5 | |
| 3 | SALR: SALMON R | | | | | | | | |
| | 24 May 96 | 07:31 | 7F7A070602 | 28 Apr 96 | 169 | H | 26 | 32 | 1944 |
| | 25 May 96 | 06:33 | 2047216513 | 18 Apr 96 | 198 | H | 37 | 34 | 2183 |
| | Subtotal this release site: SALR | | | 2 Means: | 184 | | 31 | 33 | |
| 3 | SALRNF: SALMON R N FK | | | | | | | | |
| | 8 May 96 | 21:19 | 7F7A07174A | 16 Apr 96 | 210 | H | 22 | 51 | 1708 |
| | Subtotal this release site: SALRNF | | | 1 Means: | 210 | | 22 | 51 | |
| 3 | SALTRP: SALMON T | | | | | | | | |
| | 2 May 96 | 08:58 | 221C765E5E | 15 Apr 96 | 219 | H | 17 | 50 | 640 |
| | 13 May 96 | 13:32 | 201F1A4463 | 24 Apr 96 | 199 | H | 19 | 44 | 1722 |
| | Subtotal this release site: SALTRP | | | 2 Means: | 209 | | 18 | 47 | |
| 3 | SAWT: SAWTOOTH H | | | | | | | | |
| | 28 May 96 | 09:39 | 222F417B26 | 16 May 96 | 202 | H | 12 | 115 | 2215 |
| | 31 May 96 | 09:26 | 222F4A386C | 16 May 96 | 172 | H | 15 | 92 | 2322 |
| | Subtotal this release site: SAWT | | | 2 Means: | 187 | | 13 | 103 | |
| 3 | SAWTRP: SAWTOOTH T | | | | | | | | |
| | 25 May 96 | 08:13 | 7F7A0F2601 | 16 Apr 96 | 185 | H | 39 | 35 | 2193 |
| | Subtotal this release site: SAWTRP | | | 1 Means: | 185 | | 39 | 35 | |
| 3 | SNAKER: SNAKE R | | | | | | | | |
| | 2 May 96 | 09:24 | 22142B7653 | 19 Apr 96 | 233 | H | 13 | 52 | 641 |
| | 4 May 96 | 07:19 | 22143A1546 | 21 Apr 96 | 167 | H | 13 | 52 | 815 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 7 May 96 | 07:27 | 22155D7472 | 23 Apr 96 | 175 | H | 14 | 48 | 868 |
| | 7 May 96 | 10:47 | 22143E296B | 23 Apr 96 | 198 | H | 14 | 48 | 907 |
| | 8 May 96 | 07:40 | 221535780F | 21 Apr 96 | 190 | H | 17 | 40 | 964 |
| | 8 May 96 | 21:37 | 22151E591C | 23 Apr 96 | 178 | H | 15 | 43 | 1710 |
| | 9 May 96 | 07:29 | 222A5F4907 | 21 Apr 96 | 204 | H | 18 | 38 | 1429 |
| | 9 May 96 | 08:17 | 22144C2916 | 19 Apr 96 | 224 | H | 20 | 34 | 1435 |
| | 9 May 96 | 09:32 | 222A4C5003 | 3 May 96 | 182 | H | 6 | 113 | 1450 |
| | 13 May 96 | 12:03 | 2219371236 | 3 May 96 | 176 | H | 10 | 67 | 1719 |
| | 22 May 96 | 09:40 | 22154A3A70 | 25 Apr 96 | 181 | H | 27 | 25 | 1909 |
| | 24 May 96 | 07:04 | 2214380903 | 1 May 96 | 189 | H | 23 | 29 | 1942 |
| | 24 May 96 | 07:55 | 2214562C73 | 1 May 96 | 167 | H | 23 | 29 | 1947 |
| | Subtotal this release site: SNAKER | | | 13 | Means: | 190 | | 16 | 48 |
| 3 | SNKTRP: SNAKE T | | | | | | | | |
| | 27 Apr 96 | 13:12 | 221C111351 | 9 Apr 96 | 192 | H | 18 | 37 | 449 |
| | 1 May 96 | 11:18 | 221D267446 | 15 Apr 96 | 217 | H | 16 | 42 | 620 |
| | 4 May 96 | 07:19 | 20420B3B58 | 22 Apr 96 | 228 | H | 12 | 57 | 816 |
| | 8 May 96 | 23:57 | 20461D5E1F | 25 Apr 96 | 202 | H | 14 | 48 | 1422 |
| | 13 May 96 | 15:02 | 1F621A0C59 | 26 Apr 96 | 172 | W | 17 | 39 | 1743 |
| | 22 May 96 | 15:58 | 203C6D7D3A | 2 May 96 | 197 | W | 20 | 33 | 1917 |
| | 24 May 96 | 11:16 | 221B60170A | 14 May 96 | 185 | W | 10 | 68 | 2182 |
| | 25 May 96 | 07:49 | 2046185032 | 15 May 96 | 174 | W | 10 | 69 | 2187 |
| | Subtotal this release site: SNKTRP | | | 8 | Means: | 196 | | 15 | 49 |
| 3 | TUCR: TUCANNON R | | | | | | | | |
| | 26 Apr 96 | 07:59 | 20446B2908 | 15 Apr 96 | 201 | H | 11 | 51 | 1578 |
| | 4 May 96 | 07:55 | 201D7C7750 | 15 Apr 96 | 202 | H | 19 | 29 | 821 |
| | Subtotal this release site: TUCR | | | 2 | Means: | 202 | | 15 | 40 |
| | **Subtotal this species code: 3** | | | **142** | **Means:** | **190** | | **25** | **47** |
| 2 | LOLOC: LOLO C | | | | | | | | |
| | 29 May 96 | 09:21 | 2036074B58 | 2 May 96 | 117 | H | 27 | 30 | 2236 |
| | Subtotal this release site: LOLOC | | | 1 | Means: | 117 | | 27 | 30 |
| | **Subtotal this species code: 2** | | | **1** | **Means:** | **117** | | **27** | **30** |
| 1 | CATHEC: CATHERINE C | | | | | | | | |
| | 1 May 96 | 16:28 | 1F5766396B | 29 Aug 95 | 90 | | 246 | 4 | 631 |
| | Subtotal this release site: CATHEC | | | 1 | Means: | 90 | | 246 | 4 |
| 1 | CHIP: CHIWAWA REARING P | | | | | | | | |
| | 29 May 96 | 21:17 | 7F7A08333D | | 124 | | | | 2265 |
| | 29 May 96 | 21:33 | 7F7A07586F | | 124 | | | | 2267 |
| | Subtotal this release site: CHIP | | | 2 | Means: | 124 | | | |
| 1 | CLEARC: CLEAR C | | | | | | | | |
| | 1 May 96 | 16:11 | 1F6B1E1E3A | 12 Apr 96 | 127 | H | 19 | 42 | 629 |
| | 3 May 96 | 09:39 | 7F7A1B7A7F | 12 Apr 96 | 120 | H | 21 | 38 | 793 |
| | 7 May 96 | 07:31 | 7F7A1A2C4F | 12 Apr 96 | 131 | H | 25 | 32 | 872 |
| | 7 May 96 | 08:05 | 204B3F4412 | 12 Apr 96 | 124 | H | 25 | 32 | 886 |
| | 8 May 96 | 07:16 | 7F7A24607C | 12 Apr 96 | 118 | H | 26 | 31 | 957 |
| | 8 May 96 | 21:42 | 7F7A101B0F | 12 Apr 96 | 124 | H | 26 | 30 | 1712 |
| | 11 May 96 | 10:14 | 2240295503 | 12 Apr 96 | 113 | H | 29 | 28 | 1482 |
| | 11 May 96 | 11:01 | 204B3A6B70 | 12 Apr 96 | 126 | H | 29 | 28 | 1485 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 17 May 96 | 11:41 | 204B75762A | 12 Apr 96 | 119 | H | 35 | 23 | 1760 |
| | 18 May 96 | 09:22 | 7F7A1C0375 | 12 Apr 96 | 113 | H | 36 | 22 | 1776 |
| | 20 May 96 | 07:23 | 7F7A102C36 | 12 Apr 96 | 126 | H | 38 | 21 | 1779 |
| | 20 May 96 | 07:23 | 7F7A246A07 | 12 Apr 96 | 125 | H | 38 | 21 | 1780 |
| | 21 May 96 | 08:27 | 200F093216 | 12 Apr 96 | 111 | H | 39 | 21 | 1850 |
| | 21 May 96 | 09:41 | 22426F0163 | 12 Apr 96 | 118 | H | 39 | 21 | 1859 |
| | 21 May 96 | 10:08 | 7F7A102A47 | 12 Apr 96 | 118 | H | 39 | 21 | 1861 |
| | 21 May 96 | 11:07 | 7F7A10116A | 12 Apr 96 | 129 | H | 39 | 21 | 1888 |
| | 21 May 96 | 16:22 | 1F52397462 | 12 Apr 96 | 116 | H | 39 | 20 | 1889 |
| | 21 May 96 | 16:22 | 7F7A094202 | 12 Apr 96 | 115 | H | 39 | 20 | 1890 |
| | 21 May 96 | 17:35 | 1F5B033B48 | 12 Apr 96 | 110 | H | 39 | 20 | 1895 |
| | 21 May 96 | 20:18 | 7F7A1A1E3B | 12 Apr 96 | 113 | H | 39 | 20 | 1901 |
| | 22 May 96 | 09:42 | 204844587C | 12 Apr 96 | 114 | H | 40 | 20 | 1911 |
| | 23 May 96 | 06:41 | 204B71485C | 12 Apr 96 | 115 | H | 41 | 20 | 1936 |
| | 24 May 96 | 11:15 | 1F5B2F0651 | 12 Apr 96 | 114 | H | 42 | 19 | 2180 |
| | 28 May 96 | 07:59 | 22400A3941 | 12 Apr 96 | 119 | H | 46 | 17 | 2203 |
| | 28 May 96 | 12:12 | 7F7A1A3009 | 12 Apr 96 | 116 | H | 46 | 17 | 2226 |
| | 29 May 96 | 16:03 | 7F7A187950 | 12 Apr 96 | 107 | H | 47 | 17 | 2246 |
| | 30 May 96 | 15:28 | 7F7A1A3134 | 12 Apr 96 | 119 | H | 48 | 17 | 2297 |
| | 30 May 96 | 15:31 | 7F7D3C6102 | 12 Apr 96 | 118 | H | 48 | 17 | 2298 |
| | 30 May 96 | 18:06 | 2240191038 | 12 Apr 96 | 115 | H | 48 | 16 | 2314 |
| | 31 May 96 | 19:01 | 2043490450 | 12 Apr 96 | 118 | H | 49 | 16 | 2332 |
| | 7 Jun 96 | 10:46 | 7F7A24776E | 12 Apr 96 | 113 | H | 56 | 14 | 2393 |
| | Subtotal this release site: CLEARC | | | 31 | Means: | 118 | | 38 | 23 |
| 1 | CLWRNF: CLEARWATER R N FK | | | | | | | | |
| | 30 Apr 96 | 09:58 | 7F7B08340C | 11 Apr 96 | 154 | H | 19 | 40 | 605 |
| | 4 May 96 | 07:18 | 7F7B0A2E27 | 11 Apr 96 | 172 | H | 22 | 33 | 810 |
| | 21 May 96 | 10:27 | 200C243A76 | 11 Apr 96 | 201 | H | 40 | 19 | 1871 |
| | 24 May 96 | 11:15 | 201A576807 | 11 Apr 96 | 138 | H | 43 | 17 | 2179 |
| | 25 May 96 | 10:44 | 7F7B093772 | 11 Apr 96 | 124 | H | 44 | 17 | 2200 |
| | 28 May 96 | 09:37 | 7F7D0F3A17 | 11 Apr 96 | 120 | H | 47 | 16 | 2211 |
| | 29 May 96 | 06:35 | 20353D600E | 11 Apr 96 | 128 | H | 47 | 16 | 2227 |
| | 29 May 96 | 07:00 | 20164A4F31 | 11 Apr 96 | 139 | H | 47 | 16 | 2229 |
| | 29 May 96 | 18:13 | 7F7B0A2318 | 11 Apr 96 | 148 | H | 48 | 15 | 2258 |
| | Subtotal this release site: CLWRNF | | | 9 | Means: | 147 | | 40 | 21 |
| 1 | COLR: COLUMBIA R | | | | | | | | |
| | 7 Jun 96 | 15:42 | 7F7E4D1130 | | | 132 | | | 2420 |
| | Subtotal this release site: COLR | | | 1 | Means: | 132 | | | |
| 1 | CROTRP: CROOKED RIVER T | | | | | | | | |
| | 3 May 96 | 10:44 | 20012C250E | | 1 Jun 95 | 88 | | 337 | 3 | 800 |
| | Subtotal this release site: CROTRP | | | 1 | Means: | 88 | | 337 | 3 |
| 1 | CURP: CURL LAKE REARING P | | | | | | | | |
| | 20 May 96 | 07:23 | 204318661F | | 10 Apr 96 | 114 | H | 40 | 17 | 1781 |
| | Subtotal this release site: CURP | | | 1 | Means: | 114 | | 40 | 17 |
| 1 | DESCHR: DESCHUTES R | | | | | | | | |
| | 1 May 96 | 10:24 | 221E215A41 | | 23 Apr 96 | 146 | H | 8 | 53 | 616 |
| | 13 May 96 | 21:53 | 221E07516C | | 23 Apr 96 | 177 | H | 20 | 20 | 1750 |
| | 20 May 96 | 10:03 | 2218053A0B | | 23 Apr 96 | 167 | H | 27 | 15 | 1793 |
| | Subtotal this release site: DESCHR | | | 3 | Means: | 163 | | 18 | 30 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| 1 | **DRYP: DRYDEN ACCLIMATION P** | | | | | | | | |
| | 8 May 96 | 08:42 | 7F7A083207 | | 121 | | | | 980 |
| | 29 May 96 | 17:47 | 2036056342 | | 151 | | | | 2251 |
| | 31 May 96 | 07:13 | 7F7A074F4E | | 161 | | | | 2316 |
| | Subtotal this release site: DRYP | | | 3 Means: | 144 | | | | |
| 1 | **IMNAHR: IMNAHA R** | | | | | | | | |
| | 8 May 96 | 14:53 | 1F78715820 | 13 Sep 95 | 76 | | 238 | 3 | 1354 |
| | Subtotal this release site: IMNAHR | | | 1 Means: | 76 | | 238 | 3 | |
| 1 | **IMNAHW: IMNAHA R W** | | | | | | | | |
| | 2 May 96 | 13:21 | 1F5E2B1444 | 31 Oct 95 | 81 | | 184 | 5 | 643 |
| | 2 May 96 | 14:48 | 1F574C2B13 | 18 Oct 95 | 88 | | 197 | 4 | 651 |
| | 4 May 96 | 10:05 | 1F5E1C0C5B | 11 Oct 95 | 76 | | 206 | 4 | 839 |
| | 4 May 96 | 10:22 | 1F57015B2E | 1 Nov 95 | 89 | | 185 | 4 | 842 |
| | 7 May 96 | 07:45 | 223B1B2203 | 2 Apr 96 | 120 | H | 35 | 24 | 881 |
| | 8 May 96 | 20:16 | 1F5958317F | 24 Oct 95 | 83 | | 197 | 4 | 1417 |
| | 9 May 96 | 09:11 | 223B2D4E35 | 2 Apr 96 | 140 | H | 37 | 23 | 1446 |
| | 21 May 96 | 08:02 | 20031F5767 | 2 Apr 96 | 121 | H | 49 | 17 | 1841 |
| | 21 May 96 | 17:00 | 1F762A5B66 | 2 Apr 96 | 126 | H | 49 | 17 | 1893 |
| | 24 May 96 | 07:04 | 2043165631 | 2 Apr 96 | 128 | H | 52 | 16 | 1941 |
| | 24 May 96 | 11:15 | 20095C6417 | 2 Apr 96 | 119 | H | 52 | 16 | 2178 |
| | 25 May 96 | 07:11 | 20417A061F | 2 Apr 96 | 127 | H | 53 | 16 | 2186 |
| | Subtotal this release site: IMNAHW | | | 12 Means: | 108 | | 108 | 13 | |
| 1 | **IMNTRP: IMNAHA T** | | | | | | | | |
| | 30 Apr 96 | 10:44 | 1F57582A08 | 21 Mar 96 | 115 | W | 40 | 19 | 607 |
| | 30 Apr 96 | 10:44 | 1F622C371C | 20 Oct 95 | 99 | | 193 | 4 | 608 |
| | 1 May 96 | 08:10 | 1F596B6439 | 3 Nov 95 | 88 | | 180 | 4 | 611 |
| | 1 May 96 | 11:15 | 1F623C4F74 | 3 Apr 96 | 106 | W | 28 | 28 | 618 |
| | 2 May 96 | 07:45 | 1F623F2818 | 24 Oct 95 | 82 | | 191 | 4 | 634 |
| | 2 May 96 | 16:38 | 1F622F5E72 | 25 Oct 95 | 83 | | 190 | 4 | 718 |
| | 7 May 96 | 20:23 | 200F181F1A | 5 Apr 96 | 97 | W | 32 | 24 | 936 |
| | 8 May 96 | 06:56 | 1F5E7D582E | 19 Apr 96 | 106 | W | 19 | 41 | 954 |
| | 8 May 96 | 08:52 | 1F594A3D01 | 8 Apr 96 | 95 | W | 29 | 26 | 1005 |
| | 8 May 96 | 21:07 | 1F57133C3B | 7 Apr 96 | 100 | W | 31 | 25 | 1707 |
| | 22 May 96 | 20:19 | 1F580B2C52 | 5 Apr 96 | 99 | W | 47 | 16 | 1924 |
| | 28 May 96 | 09:39 | 7F7A135C64 | 8 May 96 | 133 | H | 20 | 38 | 2216 |
| | 30 May 96 | 09:14 | 1F411F651C | 6 May 96 | 95 | W | 23 | 32 | 2276 |
| | 31 May 96 | 09:26 | 200F235955 | 3 May 96 | 132 | H | 28 | 27 | 2323 |
| | Subtotal this release site: IMNTRP | | | 14 Means: | 102 | | 75 | 21 | |
| 1 | **KNOXB: KNOX BRIDGE** | | | | | | | | |
| | 8 May 96 | 10:27 | 7F7A155007 | 11 Apr 96 | 105 | H | 27 | 40 | 1326 |
| | 20 May 96 | 10:29 | 203F450359 | 11 Apr 96 | 126 | H | 39 | 28 | 1820 |
| | 24 May 96 | 10:20 | 7F7A114336 | 11 Apr 96 | 134 | H | 43 | 25 | 1969 |
| | 24 May 96 | 10:49 | 221E124803 | 11 Apr 96 | 127 | H | 43 | 25 | 1974 |
| | 24 May 96 | 11:15 | 7F7A126E51 | 11 Apr 96 | 117 | H | 43 | 25 | 2176 |
| | 25 May 96 | 06:45 | 2049471040 | 11 Apr 96 | 120 | H | 44 | 25 | 2185 |
| | 29 May 96 | 07:59 | 221C1F5C5F | 11 Apr 96 | 126 | H | 48 | 23 | 2231 |
| | 29 May 96 | 08:03 | 7F7A133C06 | 13 Apr 96 | 127 | H | 46 | 23 | 2234 |
| | 29 May 96 | 08:52 | 7F7A0F2C7D | 11 Apr 96 | 129 | H | 48 | 23 | 2235 |
| | 29 May 96 | 17:51 | 204B43163C | 11 Apr 96 | 125 | H | 48 | 22 | 2257 |
| | 29 May 96 | 18:14 | 203E1D7015 | 11 Apr 96 | 127 | H | 48 | 22 | 2263 |
| | 29 May 96 | 21:36 | 204F0D384C | 11 Apr 96 | 129 | H | 48 | 22 | 2268 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 30 May 96 | 09:15 | 7F7A113D29 | 11 Apr 96 | 119 | H | 49 | 22 | 2277 |
| | 30 May 96 | 12:20 | 7F7A114029 | 11 Apr 96 | 121 | H | 49 | 22 | 2279 |
| | 30 May 96 | 13:34 | 204B185627 | 11 Apr 96 | 124 | H | 49 | 22 | 2288 |
| | 30 May 96 | 15:00 | 7F7A12633B | 11 Apr 96 | 134 | H | 49 | 22 | 2296 |
| | 31 May 96 | 07:38 | 7F7A11431F | 11 Apr 96 | 123 | H | 50 | 22 | 2317 |
| | 31 May 96 | 08:04 | 7F7A175A2E | 11 Apr 96 | 130 | H | 50 | 22 | 2320 |
| | 31 May 96 | 09:29 | 204B2F5016 | 11 Apr 96 | 140 | H | 50 | 22 | 2324 |
| | 31 May 96 | 13:52 | 7F7A15707F | 11 Apr 96 | 121 | H | 50 | 22 | 2326 |
| | 31 May 96 | 14:46 | 221C326B77 | 11 Apr 96 | 132 | H | 50 | 22 | 2328 |
| | 31 May 96 | 15:35 | 204F0D5133 | 13 Apr 96 | 122 | H | 49 | 22 | 2330 |
| | 31 May 96 | 19:16 | 203F420F50 | 11 Apr 96 | 132 | H | 50 | 21 | 2333 |
| | 4 Jun 96 | 09:02 | 203F4A292E | 11 Apr 96 | 124 | H | 54 | 20 | 2338 |
| | 4 Jun 96 | 09:52 | 7F7A114C7A | 11 Apr 96 | 140 | H | 54 | 20 | 2339 |
| | 4 Jun 96 | 09:53 | 2046226D0B | 11 Apr 96 | 133 | H | 54 | 20 | 2340 |
| | 5 Jun 96 | 15:23 | 7F7A11251D | 11 Apr 96 | 142 | H | 55 | 20 | 2359 |
| | 7 Jun 96 | 08:49 | 7F7A117B72 | 11 Apr 96 | 127 | H | 57 | 19 | 2392 |
| | 7 Jun 96 | 11:38 | 20493C4615 | 11 Apr 96 | 131 | H | 57 | 19 | 2394 |
| | Subtotal this release site: KNOXB | | | 29 Means: | 127 | | 48 | 23 | |
| 1 | LEAV: LEAVENWORTH H | | | | | | | | |
| | 8 May 96 | 18:53 | 2236737946 | 15 Apr 96 | 140 | H | 23 | 32 | 1406 |
| | 17 May 96 | 12:07 | 22367B2469 | 15 Apr 96 | 151 | H | 32 | 23 | 1761 |
| | 21 May 96 | 08:30 | 2237740A4E | 15 Apr 96 | 115 | H | 36 | 20 | 1855 |
| | Subtotal this release site: LEAV | | | 3 Means: | 135 | | 30 | 25 | |
| 1 | LEMHIW: LEMHI W | | | | | | | | |
| | 2 May 96 | 23:24 | 1F7A48356A | 15 Oct 95 | 114 | | 201 | 6 | 720 |
| | Subtotal this release site: LEMHIW | | | 1 Means: | 114 | | 201 | 6 | |
| 1 | LGRRBR: BARGE TRANSPORT AND RELEASE DOWNSTREAM FROM BONNEVILLE DAM | | | | | | | | |
| | 24 Apr 96 | 09:05 | 4131376902 | 21 Apr 96 | 95 | W | 2 | 62 | 2 |
| | 24 Apr 96 | 11:09 | 4167496718 | 21 Apr 96 | 97 | W | 3 | 60 | 15 |
| | 27 Apr 96 | 11:56 | 41675E783E | 25 Apr 96 | 131 | H | 2 | 100 | 444 |
| | 27 Apr 96 | 13:11 | 415173505D | 25 Apr 96 | 146 | H | 2 | 97 | 448 |
| | 30 Apr 96 | 07:42 | 416B541064 | 27 Apr 96 | 133 | H | 2 | 64 | 468 |
| | 30 Apr 96 | 08:23 | 41691D2D33 | 27 Apr 96 | 106 | W | 2 | 64 | 469 |
| | 2 May 96 | 13:21 | 4153081E05 | 30 Apr 96 | 132 | H | 2 | 92 | 644 |
| | 2 May 96 | 13:22 | 41687F5D42 | 30 Apr 96 | 153 | H | 2 | 92 | 645 |
| | 2 May 96 | 14:44 | 4152212103 | 30 Apr 96 | 134 | H | 2 | 89 | 650 |
| | 2 May 96 | 23:45 | 416A4E543F | 29 Apr 96 | 126 | H | 3 | 50 | 723 |
| | 3 May 96 | 08:32 | 415067281B | 30 Apr 96 | 115 | H | 2 | 62 | 742 |
| | 3 May 96 | 09:12 | 417041067F | 30 Apr 96 | 130 | H | 2 | 62 | 786 |
| | 3 May 96 | 09:42 | 4151290F2C | 30 Apr 96 | 141 | H | 3 | 61 | 794 |
| | 3 May 96 | 10:44 | 41684B4951 | 30 Apr 96 | 149 | H | 3 | 60 | 801 |
| | 4 May 96 | 07:18 | 416B230546 | 29 Apr 96 | 135 | H | 4 | 35 | 807 |
| | 7 May 96 | 07:31 | 41506C370A | 3 May 96 | 141 | H | 3 | 46 | 870 |
| | 7 May 96 | 08:08 | 416604243C | 4 May 96 | 131 | H | 2 | 62 | 889 |
| | 7 May 96 | 09:53 | 416A611825 | 4 May 96 | 110 | W | 3 | 61 | 899 |
| | 7 May 96 | 09:55 | 41507B6409 | 4 May 96 | 148 | H | 3 | 61 | 901 |
| | 7 May 96 | 11:14 | 4167046C67 | 4 May 96 | 143 | H | 3 | 59 | 909 |
| | 7 May 96 | 11:39 | 414C095140 | 4 May 96 | 147 | H | 3 | 59 | 913 |
| | 7 May 96 | 11:51 | 4132080F16 | 4 May 96 | 146 | H | 3 | 59 | 914 |
| | 7 May 96 | 12:09 | 415235320A | 4 May 96 | 146 | H | 3 | 59 | 920 |
| | 7 May 96 | 21:37 | 41317F7B7E | 4 May 96 | 133 | H | 3 | 51 | 942 |
| | 8 May 96 | 07:14 | 416710117C | 5 May 96 | 139 | H | 2 | 63 | 955 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 8 May 96 | 07:38 | 4167096240 | 26 Apr 96 | 122 | H | 11 | 13 | 961 |
| | 8 May 96 | 08:01 | 4151046166 | 5 May 96 | 141 | H | 2 | 63 | 965 |
| | 8 May 96 | 08:02 | 4166404877 | 3 May 96 | 166 | H | 4 | 35 | 966 |
| | 8 May 96 | 08:02 | 4151076D49 | 5 May 96 | 155 | H | 2 | 63 | 968 |
| | 8 May 96 | 15:26 | 4167245346 | 5 May 96 | 122 | H | 3 | 56 | 1358 |
| | 8 May 96 | 15:36 | 41673D2777 | 5 May 96 | 144 | H | 3 | 55 | 1361 |
| | 8 May 96 | 17:08 | 41693E144F | 6 May 96 | 138 | H | 2 | 82 | 1372 |
| | 8 May 96 | 17:56 | 4151097240 | 4 May 96 | 130 | H | 4 | 40 | 1374 |
| | 8 May 96 | 18:56 | 413167752D | 5 May 96 | 133 | H | 3 | 53 | 1407 |
| | 8 May 96 | 19:08 | 4168710B57 | 6 May 96 | 144 | H | 2 | 79 | 1408 |
| | 8 May 96 | 19:22 | 416A282B6D | 5 May 96 | 131 | H | 3 | 53 | 1410 |
| | 8 May 96 | 22:13 | 41697C794C | 26 Apr 96 | 136 | H | 12 | 13 | 1715 |
| | 9 May 96 | 07:40 | 41314B3A53 | 6 May 96 | 157 | H | 2 | 62 | 1430 |
| | 9 May 96 | 08:18 | 41690F574E | 6 May 96 | 124 | H | 3 | 61 | 1436 |
| | 9 May 96 | 08:42 | 416A471E77 | 6 May 96 | 156 | H | 3 | 61 | 1440 |
| | 9 May 96 | 11:47 | 4151014C02 | 6 May 96 | 132 | H | 3 | 58 | 1460 |
| | 10 May 96 | 10:27 | 4151211743 | 7 May 96 | 131 | H | 3 | 60 | 1465 |
| | 11 May 96 | 07:53 | 4152013B18 | 9 May 96 | 162 | H | 2 | 78 | 1476 |
| | 11 May 96 | 10:15 | 4166152B0F | 7 May 96 | 143 | H | 4 | 43 | 1483 |
| | 11 May 96 | 12:00 | 41685F6057 | 9 May 96 | 124 | H | 2 | 72 | 1492 |
| | 13 May 96 | 09:57 | 416A777404 | 9 May 96 | 141 | H | 4 | 38 | 1718 |
| | 17 May 96 | 08:40 | 41680D0669 | 7 May 96 | 144 | H | 10 | 16 | 1758 |
| | 17 May 96 | 11:18 | 4168012859 | 14 May 96 | 123 | H | 3 | 60 | 1759 |
| | 17 May 96 | 12:07 | 4153146E36 | 12 May 96 | 130 | H | 5 | 33 | 1762 |
| | 18 May 96 | 06:44 | 4152406D44 | 15 May 96 | | H | 2 | 65 | 1767 |
| | 18 May 96 | 08:26 | 416A75083B | 15 May 96 | 132 | H | 2 | 63 | 1771 |
| | 18 May 96 | 08:27 | 416937471C | 15 May 96 | 129 | H | 2 | 63 | 1774 |
| | 18 May 96 | 09:22 | 416869157A | 15 May 96 | 155 | H | 2 | 62 | 1775 |
| | 18 May 96 | 10:09 | 41507D7311 | 15 May 96 | 137 | H | 3 | 61 | 1777 |
| | 20 May 96 | 07:51 | 41680C775A | 17 May 96 | 137 | H | 2 | 64 | 1785 |
| | 20 May 96 | 08:18 | 4169091172 | 17 May 96 | 130 | H | 2 | 63 | 1786 |
| | 20 May 96 | 10:29 | 4168674078 | 16 May 96 | 147 | H | 4 | 43 | 1819 |
| | 21 May 96 | 07:11 | 4152344600 | 19 May 96 | 131 | H | 1 | 107 | 1831 |
| | 21 May 96 | 10:36 | 41693B5323 | 19 May 96 | 127 | H | 2 | 66 | 1875 |
| | 22 May 96 | 08:48 | 4151311F69 | 20 May 96 | 137 | H | 2 | 103 | 1907 |
| | 24 May 96 | 07:32 | 41694A532D | 21 May 96 | 141 | H | 2 | 64 | 1945 |
| | 24 May 96 | 09:13 | 41522E5416 | 21 May 96 | 139 | H | 2 | 62 | 1957 |
| | 24 May 96 | 10:50 | 4152345B01 | 22 May 96 | 98 | W | 2 | 98 | 1975 |
| | 25 May 96 | 08:12 | 414C243275 | 23 May 96 | 122 | W | 1 | 104 | 2191 |
| | Subtotal this release site: LGRRBR | | | 64 | Means: | 135 | | 3 | 62 |
| 1 | LGRRRR: RELEASE BELOW THE PIT-TAG DIVERSION SYSTEM GATE | | | | | | | | |
| | 30 Apr 96 | 09:14 | 415177567F | 12 Apr 96 | 142 | H | 18 | 35 | 595 |
| | 1 May 96 | 14:55 | 416A647C5D | 19 Apr 96 | 136 | H | 12 | 51 | 625 |
| | 2 May 96 | 13:06 | 41684A7750 | 25 Apr 96 | 118 | W | 7 | 89 | 642 |
| | 2 May 96 | 14:43 | 4151265571 | 18 Apr 96 | 141 | H | 14 | 44 | 649 |
| | 3 May 96 | 09:11 | 4167302201 | 18 Apr 96 | 124 | H | 15 | 42 | 785 |
| | 3 May 96 | 09:45 | 416B47270B | 22 Apr 96 | 145 | H | 11 | 57 | 795 |
| | 4 May 96 | 07:09 | 41673E6E18 | 21 Apr 96 | 118 | W | 13 | 48 | 805 |
| | 4 May 96 | 07:18 | 416653256D | 18 Apr 96 | 103 | W | 16 | 39 | 806 |
| | 4 May 96 | 08:57 | 416B1A7A31 | 21 Apr 96 | 123 | W | 13 | 48 | 827 |
| | 4 May 96 | 09:47 | 416A59192A | 22 Apr 96 | 114 | W | 12 | 52 | 833 |
| | 4 May 96 | 09:48 | 416A32422E | 21 Apr 96 | 104 | W | 13 | 48 | 838 |
| | 4 May 96 | 10:25 | 41510D1418 | 16 Apr 96 | 107 | W | 18 | 34 | 844 |
| | 4 May 96 | 10:26 | 4131367700 | 24 Apr 96 | 105 | W | 10 | 63 | 845 |
| | 4 May 96 | 10:35 | 4151015214 | 20 Apr 96 | 100 | W | 14 | 45 | 848 |
| | 4 May 96 | 10:40 | 4168037F34 | 19 Apr 96 | 124 | H | 15 | 41 | 851 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 4 May 96 | 11:27 | 4168605079 | 18 Apr 96 | 136 | H | 16 | 39 | 856 |
| | 4 May 96 | 11:54 | 4167317026 | 22 Apr 96 | 107 | W | 12 | 52 | 860 |
| | 7 May 96 | 07:11 | 4167052810 | 18 Apr 96 | 109 | W | 19 | 33 | 865 |
| | 7 May 96 | 07:16 | 416665257D | 23 Apr 96 | | W | 14 | 45 | 867 |
| | 7 May 96 | 07:31 | 41664B1408 | 25 Apr 96 | 136 | H | 12 | 53 | 873 |
| | 7 May 96 | 07:59 | 41672D771C | 24 Apr 96 | 114 | W | 13 | 49 | 884 |
| | 7 May 96 | 09:53 | 4167327813 | 24 Apr 96 | 125 | H | 13 | 48 | 900 |
| | 7 May 96 | 10:07 | 4131760472 | 24 Apr 96 | 133 | H | 13 | 48 | 902 |
| | 7 May 96 | 11:38 | 41675E736F | 21 Apr 96 | 93 | W | 16 | 39 | 911 |
| | 7 May 96 | 11:39 | 41516D3831 | 18 Apr 96 | 108 | W | 19 | 33 | 912 |
| | 7 May 96 | 11:53 | 416B127E7C | 23 Apr 96 | 155 | H | 14 | 44 | 915 |
| | 7 May 96 | 11:54 | 4166750512 | 23 Apr 96 | 95 | W | 14 | 44 | 918 |
| | 7 May 96 | 21:46 | 41527A3831 | 23 Apr 96 | 137 | H | 14 | 43 | 943 |
| | 8 May 96 | 00:12 | 41513A3C59 | 21 Apr 96 | 100 | W | 17 | 37 | 952 |
| | 8 May 96 | 01:01 | 416B09526B | 24 Apr 96 | 138 | H | 13 | 46 | 953 |
| | 8 May 96 | 07:38 | 41696F6452 | 24 Apr 96 | 106 | W | 14 | 45 | 960 |
| | 8 May 96 | 09:10 | 41696C0924 | 25 Apr 96 | 108 | W | 13 | 48 | 1087 |
| | 8 May 96 | 10:12 | 4167613448 | 24 Apr 96 | 127 | H | 14 | 45 | 1293 |
| | 8 May 96 | 10:16 | 416A2F5A35 | 25 Apr 96 | 118 | W | 13 | 48 | 1305 |
| | 8 May 96 | 10:34 | 4167470E3B | 18 Apr 96 | 107 | W | 20 | 31 | 1332 |
| | 8 May 96 | 15:35 | 416748236F | 27 Apr 96 | 139 | H | 11 | 56 | 1360 |
| | 8 May 96 | 19:55 | 41691F202B | 24 Apr 96 | 103 | W | 14 | 43 | 1415 |
| | 8 May 96 | 20:14 | 416A375E14 | 22 Apr 96 | 119 | W | 16 | 38 | 1416 |
| | 8 May 96 | 20:20 | 41673F230A | 25 Apr 96 | 137 | H | 13 | 47 | 1419 |
| | 8 May 96 | 20:22 | 416A516406 | 18 Apr 96 | 101 | W | 20 | 31 | 1420 |
| | 8 May 96 | 20:27 | 41511A371F | 24 Apr 96 | 107 | W | 14 | 43 | 1421 |
| | 8 May 96 | 21:20 | 416706493A | 25 Apr 96 | 133 | H | 13 | 46 | 1709 |
| | 9 May 96 | 01:35 | 4169114760 | 26 Apr 96 | 108 | W | 12 | 50 | 1425 |
| | 9 May 96 | 07:50 | 4167230A5B | 18 Apr 96 | 98 | W | 21 | 30 | 1431 |
| | 9 May 96 | 08:28 | 41516C6B35 | 21 Apr 96 | 103 | W | 18 | 35 | 1437 |
| | 9 May 96 | 09:02 | 4168446526 | 23 Apr 96 | 107 | W | 16 | 39 | 1443 |
| | 9 May 96 | 09:09 | 4168537B23 | 25 Apr 96 | 137 | H | 14 | 45 | 1444 |
| | 9 May 96 | 09:12 | 4169531909 | 26 Apr 96 | 117 | W | 13 | 49 | 1448 |
| | 10 May 96 | 10:31 | 4167347878 | 25 Apr 96 | 117 | W | 15 | 42 | 1468 |
| | 11 May 96 | 08:22 | 4167395365 | 25 Apr 96 | 143 | H | 16 | 39 | 1478 |
| | 11 May 96 | 11:06 | 416A253F46 | 25 Apr 96 | 137 | H | 16 | 39 | 1489 |
| | 11 May 96 | 11:47 | 41674B1C2A | 25 Apr 96 | 129 | H | 16 | 39 | 1491 |
| | 13 May 96 | 09:09 | 4151797557 | 20 Apr 96 | 102 | W | 23 | 27 | 1716 |
| | 13 May 96 | 09:34 | 4167094F3C | 24 Apr 96 | 125 | H | 19 | 33 | 1717 |
| | 13 May 96 | 14:58 | 41686A6117 | 30 Apr 96 | 149 | H | 13 | 47 | 1742 |
| | 13 May 96 | 21:22 | 41684F4F73 | 3 May 96 | 133 | H | 10 | 59 | 1749 |
| | 17 May 96 | 13:11 | 41670E684D | 25 Apr 96 | 125 | H | 22 | 28 | 1764 |
| | 18 May 96 | 08:26 | 413143231F | 27 Apr 96 | 136 | H | 21 | 30 | 1772 |
| | 20 May 96 | 07:45 | 4166476E25 | 1 May 96 | 151 | H | 19 | 33 | 1784 |
| | 20 May 96 | 10:03 | 41506C6E68 | 25 Apr 96 | 134 | H | 25 | 25 | 1794 |
| | 20 May 96 | 10:04 | 4152517427 | 23 Apr 96 | 138 | H | 27 | 23 | 1815 |
| | 20 May 96 | 10:52 | 4166501C06 | 24 Apr 96 | 130 | H | 26 | 24 | 1821 |
| | 20 May 96 | 10:52 | 417037317E | 24 Apr 96 | 121 | H | 26 | 24 | 1822 |
| | 20 May 96 | 10:53 | 41681A044E | 3 May 96 | 140 | H | 17 | 36 | 1823 |
| | 20 May 96 | 10:53 | 4150757A23 | 2 May 96 | 127 | H | 18 | 35 | 1824 |
| | 21 May 96 | 06:42 | 4167734A2F | 4 May 96 | 191 | H | 17 | 37 | 1827 |
| | 21 May 96 | 07:11 | 4131691266 | 4 May 96 | 126 | H | 17 | 37 | 1832 |
| | 21 May 96 | 07:11 | 416A61001D | 25 Apr 96 | 130 | H | 26 | 24 | 1833 |
| | 21 May 96 | 08:00 | 41697F4861 | 5 May 96 | 127 | H | 16 | 39 | 1838 |
| | 21 May 96 | 08:01 | 4168164B27 | 20 Apr 96 | 102 | W | 31 | 20 | 1840 |
| | 21 May 96 | 08:27 | 41522F3B33 | 7 May 96 | 153 | H | 14 | 45 | 1843 |
| | 21 May 96 | 08:28 | 4131665237 | 5 May 96 | 146 | H | 16 | 39 | 1844 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 21 May 96 | 09:39 | 416A05130E | 30 Apr 96 | 147 | H | 21 | 30 | 1858 |
| | 21 May 96 | 09:46 | 4153097D7C | 4 May 96 | 137 | H | 17 | 37 | 1860 |
| | 21 May 96 | 10:08 | 4152165103 | 29 Apr 96 | 117 | W | 22 | 28 | 1862 |
| | 21 May 96 | 10:09 | 417022694B | 29 Apr 96 | 126 | H | 22 | 28 | 1863 |
| | 21 May 96 | 10:36 | 4151443D5C | 15 May 96 | 156 | H | 6 | 106 | 1872 |
| | 21 May 96 | 10:36 | 41526E4F58 | 26 Apr 96 | 123 | H | 25 | 25 | 1874 |
| | 21 May 96 | 10:37 | 41673D7544 | 12 May 96 | 131 | H | 9 | 70 | 1876 |
| | 21 May 96 | 10:38 | 4131325B53 | 2 May 96 | 148 | H | 19 | 33 | 1877 |
| | 21 May 96 | 10:40 | 416A703A6A | 8 May 96 | 147 | H | 13 | 48 | 1878 |
| | 21 May 96 | 10:40 | 4168455658 | 24 Apr 96 | 198 | H | 27 | 23 | 1879 |
| | 21 May 96 | 11:00 | 4151017865 | 3 May 96 | 139 | H | 18 | 34 | 1882 |
| | 21 May 96 | 11:02 | 415315573A | 4 May 96 | 154 | H | 17 | 37 | 1884 |
| | 21 May 96 | 11:03 | 4131331829 | 7 May 96 | 152 | H | 14 | 44 | 1886 |
| | 21 May 96 | 11:07 | 41314E7D3F | 30 Apr 96 | 131 | H | 21 | 29 | 1887 |
| | 21 May 96 | 18:23 | 4131452C3F | 6 May 96 | 127 | H | 15 | 40 | 1896 |
| | 21 May 96 | 19:12 | 416850436B | 1 May 96 | 164 | H | 20 | 31 | 1899 |
| | 22 May 96 | 08:17 | 4168160536 | 7 May 96 | 137 | H | 15 | 42 | 1905 |
| | 22 May 96 | 08:18 | 413205106C | 1 May 96 | 129 | H | 21 | 30 | 1906 |
| | 22 May 96 | 16:29 | 41506C507D | 4 May 96 | 137 | H | 18 | 34 | 1919 |
| | 22 May 96 | 16:47 | 414C20304D | 4 May 96 | 136 | H | 18 | 34 | 1920 |
| | 22 May 96 | 16:50 | 41664D183F | 7 May 96 | 127 | H | 15 | 41 | 1921 |
| | 22 May 96 | 20:19 | 4169356362 | 7 May 96 | 131 | H | 15 | 40 | 1923 |
| | 22 May 96 | 20:20 | 41664D0D78 | 2 May 96 | 127 | H | 20 | 31 | 1926 |
| | 22 May 96 | 20:20 | 4150640720 | 5 May 96 | 135 | H | 17 | 36 | 1927 |
| | 23 May 96 | 00:33 | 4152486B3D | 13 May 96 | | H | 9 | 66 | 1934 |
| | 23 May 96 | 06:42 | 4131403F4E | 3 May 96 | 134 | H | 20 | 31 | 1937 |
| | 24 May 96 | 07:55 | 4166636933 | 13 May 96 | 110 | W | 11 | 58 | 1946 |
| | 24 May 96 | 08:18 | 4131734C55 | 6 May 96 | 115 | W | 18 | 35 | 1948 |
| | 24 May 96 | 08:19 | 415216305A | 14 May 96 | 137 | H | 10 | 63 | 1949 |
| | 24 May 96 | 08:47 | 41684A6100 | 14 May 96 | 182 | H | 10 | 63 | 1952 |
| | 24 May 96 | 09:11 | 41663B5245 | 12 May 96 | 129 | H | 12 | 53 | 1953 |
| | 24 May 96 | 09:11 | 41663E2259 | 8 May 96 | 128 | H | 16 | 39 | 1954 |
| | 24 May 96 | 09:12 | 416A28457F | 12 May 96 | 154 | H | 12 | 53 | 1955 |
| | 24 May 96 | 09:34 | 41513C0A61 | 11 May 96 | 138 | H | 13 | 48 | 1959 |
| | 24 May 96 | 09:37 | 41516E0A0B | 12 May 96 | 145 | H | 12 | 53 | 1962 |
| | 24 May 96 | 10:02 | 4166166C08 | 11 May 96 | 137 | H | 13 | 48 | 1964 |
| | 24 May 96 | 10:02 | 416708030D | 4 May 96 | 122 | H | 20 | 31 | 1965 |
| | 24 May 96 | 10:26 | 4168014B34 | 12 May 96 | 171 | H | 12 | 52 | 1971 |
| | 24 May 96 | 11:06 | 413159186F | 12 May 96 | 142 | H | 12 | 52 | 1978 |
| | 24 May 96 | 11:13 | 4151181658 | 14 May 96 | 151 | H | 10 | 62 | 2172 |
| | 24 May 96 | 11:14 | 416952183E | 12 May 96 | 122 | H | 12 | 52 | 2174 |
| | 25 May 96 | 06:45 | 4169035C44 | 11 May 96 | 145 | H | 14 | 45 | 2184 |
| | 25 May 96 | 08:11 | 4152643F6C | 13 May 96 | 134 | H | 12 | 53 | 2189 |
| | 25 May 96 | 09:05 | 4168095E24 | 13 May 96 | 148 | H | 12 | 53 | 2196 |
| | 25 May 96 | 10:20 | 41514A4716 | 12 May 96 | 120 | H | 13 | 48 | 2197 |
| | 25 May 96 | 10:42 | 416A7B0F0A | 4 May 96 | 134 | H | 21 | 30 | 2198 |
| | 25 May 96 | 10:43 | 416B2A674B | 6 May 96 | 126 | H | 19 | 33 | 2199 |
| | 28 May 96 | 07:31 | 4168695119 | 16 May 96 | 116 | W | 12 | 52 | 2202 |
| | 28 May 96 | 08:21 | 41673C6300 | 18 Apr 96 | 135 | H | 40 | 16 | 2204 |
| | 28 May 96 | 08:43 | 4152395526 | 12 May 96 | 107 | W | 16 | 39 | 2205 |
| | 28 May 96 | 09:37 | 4151307662 | 12 May 96 | 115 | H | 16 | 39 | 2207 |
| | 28 May 96 | 09:37 | 4151044668 | 2 May 96 | 123 | W | 26 | 24 | 2209 |
| | 28 May 96 | 09:37 | 4167240678 | 3 May 96 | 145 | H | 25 | 25 | 2210 |
| | 28 May 96 | 11:19 | 416836355C | 8 May 96 | 137 | H | 20 | 31 | 2219 |
| | 28 May 96 | 11:19 | 415215067A | 11 May 96 | 164 | H | 17 | 37 | 2221 |
| | 28 May 96 | 11:46 | 41530A3F42 | 8 May 96 | 161 | H | 20 | 31 | 2223 |
| | 28 May 96 | 11:48 | 41522D7C20 | 10 May 96 | 137 | H | 18 | 34 | 2224 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 29 May 96 | 10:25 | 41665B5D78 | 18 May 96 | 149 | H | 11 | 56 | 2239 |
| | 29 May 96 | 10:28 | 4152714174 | 13 May 96 | 128 | H | 16 | 39 | 2241 |
| | 29 May 96 | 15:12 | 41692C0020 | 30 Apr 96 | 136 | H | 29 | 21 | 2244 |
| | 29 May 96 | 17:20 | 4170340267 | 12 May 96 | 130 | H | 17 | 36 | 2247 |
| | 29 May 96 | 17:20 | 41692F7C0B | 18 May 96 | 123 | H | 11 | 55 | 2249 |
| | 29 May 96 | 17:47 | 4170244923 | 12 May 96 | 121 | H | 17 | 36 | 2255 |
| | 29 May 96 | 18:13 | 4151295254 | 14 May 96 | 129 | H | 15 | 41 | 2260 |
| | 29 May 96 | 18:14 | 414C005337 | 14 May 96 | | H | 15 | 41 | 2261 |
| | 29 May 96 | 22:57 | 4151570A33 | 19 May 96 | 138 | H | 11 | 59 | 2269 |
| | 30 May 96 | 07:05 | 416A044707 | 30 Apr 96 | 126 | H | 30 | 21 | 2272 |
| | 30 May 96 | 12:45 | 4152554456 | 13 May 96 | 138 | H | 17 | 37 | 2282 |
| | 30 May 96 | 12:49 | 4151245338 | 17 May 96 | 137 | H | 13 | 48 | 2283 |
| | 30 May 96 | 16:49 | 4166275272 | 19 May 96 | 143 | H | 11 | 55 | 2310 |
| | 30 May 96 | 18:04 | 41513F6634 | 13 May 96 | 139 | H | 17 | 36 | 2313 |
| | 30 May 96 | 18:06 | 4152644865 | 10 May 96 | 147 | H | 20 | 31 | 2315 |
| | 31 May 96 | 07:40 | 415235566A | 17 May 96 | 137 | H | 14 | 45 | 2318 |
| | 31 May 96 | 07:42 | 41516A5365 | 11 May 96 | 146 | H | 20 | 31 | 2319 |
| | 31 May 96 | 15:34 | 4150640F66 | 18 May 96 | 156 | H | 13 | 47 | 2329 |
| | 31 May 96 | 17:02 | 4150690A10 | 19 May 96 | 149 | H | 12 | 51 | 2331 |
| | Subtotal this release site: LGRRRR | | | 148 Means: | 131 | | 16 | 42 | |
| 1 | LGRTAL: RELEASE INTO THE TAILRACE WITHIN 0.5 KM DOWNSTREAM OF DAM | | | | | | | | |
| | 8 May 96 | 10:25 | 7F7A155377 | 9 May 95 | 145 | | 365 | 2 | 1324 |
| | Subtotal this release site: LGRTAL | | | 1 Means: | 145 | | 365 | 2 | |
| 1 | LOOH: LOOKINGGLASS H | | | | | | | | |
| | 27 Apr 96 | 13:09 | 204459241F | 4 Apr 96 | 137 | H | 23 | 38 | 446 |
| | 1 May 96 | 11:20 | 1F77066F75 | 4 Apr 96 | 131 | H | 27 | 32 | 623 |
| | 2 May 96 | 14:51 | 2217197365 | 4 Apr 96 | 128 | H | 28 | 31 | 658 |
| | 7 May 96 | 19:29 | 22180E1818 | 4 Apr 96 | 112 | H | 33 | 26 | 929 |
| | 7 May 96 | 19:29 | 221B075C2B | 4 Apr 96 | 127 | H | 33 | 26 | 930 |
| | 8 May 96 | 09:36 | 221D034D51 | 4 Apr 96 | 118 | H | 34 | 26 | 1178 |
| | 9 May 96 | 07:17 | 2218160E73 | 4 Apr 96 | 124 | H | 35 | 25 | 1427 |
| | 9 May 96 | 08:43 | 20073E514A | 4 Apr 96 | 124 | H | 35 | 25 | 1442 |
| | 10 May 96 | 07:32 | 224264055D | 4 Apr 96 | 112 | H | 36 | 24 | 1463 |
| | 17 May 96 | 13:12 | 221B085C03 | 4 Apr 96 | 124 | H | 43 | 20 | 1766 |
| | 20 May 96 | 10:03 | 20090F2523 | 4 Apr 96 | 116 | H | 46 | 19 | 1795 |
| | 21 May 96 | 08:30 | 2218113637 | 4 Apr 96 | 121 | H | 47 | 18 | 1846 |
| | 22 May 96 | 09:40 | 20445B1031 | 4 Apr 96 | 131 | H | 48 | 18 | 1910 |
| | Subtotal this release site: LOOH | | | 13 Means: | 123 | | 36 | 25 | |
| 1 | LOSTIR: LOSTINE R | | | | | | | | |
| | 22 May 96 | 09:45 | 1F57347066 | 14 Aug 95 | 65 | | 282 | 3 | 1914 |
| | 30 May 96 | 13:10 | 1F580E2D4E | 14 Aug 95 | 69 | | 290 | 3 | 2285 |
| | Subtotal this release site: LOSTIR | | | 2 Means: | 67 | | 286 | 3 | |
| 1 | LYFE: LYONS FERRY H | | | | | | | | |
| | 1 May 96 | 16:14 | 2015743B1C | 9 Apr 96 | 125 | H | 22 | 25 | 630 |
| | 2 May 96 | 14:04 | 20197D7555 | 9 Apr 96 | 140 | H | 23 | 24 | 646 |
| | 2 May 96 | 16:03 | 20195E1B4E | 9 Apr 96 | 135 | H | 23 | 24 | 688 |
| | 4 May 96 | 11:59 | 1F61295B7C | 15 Apr 96 | 155 | H | 19 | 28 | 861 |
| | 4 May 96 | 12:17 | 2003442376 | 12 Apr 96 | 161 | H | 22 | 25 | 864 |
| | Subtotal this release site: LYFE | | | 5 Means: | 143 | | 22 | 25 | |
| 1 | MARTRP: MARSH C T | | | | | | | | |
| | 4 May 96 | 11:28 | 20083C6438 | 30 Sep 95 | 97 | | 217 | 6 | 857 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 18 May 96 | 08:25 | 1F62721776 | 19 Oct 95 | 99 | | 212 | 6 | 1770 |
| | Subtotal this release site: MARTRP | | | 2 Means: | 98 | | 214 | 6 | |
| 1 | MCN: MCNARY D | | | | | | | | |
| | 7 Jun 96 | 15:42 | 7F7E4D113C | | 205 | | | | 2423 |
| | 12 Jun 96 | 10:38 | 7F7E4D1100 | | 105 | | | | 2465 |
| | 12 Jun 96 | 12:40 | 7F7E4B7101 | | 94 | | | | 2479 |
| | Subtotal this release site: MCN | | | 3 Means: | 135 | | | | |
| 1 | MEADOC: MEADOW C | | | | | | | | |
| | 1 May 96 | 11:17 | 20373F7872 | 27 Oct 95 | 92 | | 187 | 5 | 619 |
| | Subtotal this release site: MEADOC | | | 1 Means: | 92 | | 187 | 5 | |
| 1 | PAHTRP: PAHSIMEROI R T | | | | | | | | |
| | 26 Apr 96 | 07:26 | 1F66730B7D | 11 Oct 95 | 116 | | 198 | 6 | 32 |
| | 4 May 96 | 09:48 | 1F68404475 | 2 Dec 95 | 111 | | 154 | 8 | 837 |
| | Subtotal this release site: PAHTRP | | | 2 Means: | 114 | | 176 | 7 | |
| 1 | POWP: POWELL REARING P | | | | | | | | |
| | 8 May 96 | 09:17 | 2048115037 | 11 Apr 96 | 135 | H | 27 | 35 | 1118 |
| | 21 May 96 | 18:47 | 222F4D6937 | 11 Apr 96 | 126 | H | 40 | 23 | 1898 |
| | 28 May 96 | 09:09 | 203E2D0174 | 11 Apr 96 | 126 | H | 47 | 20 | 2206 |
| | 29 May 96 | 17:47 | 20477E6E2D | 11 Apr 96 | 125 | H | 48 | 20 | 2253 |
| | 30 May 96 | 07:05 | 203F341657 | 11 Apr 96 | 112 | H | 49 | 19 | 2271 |
| | 30 May 96 | 07:36 | 7F7A074C15 | 11 Apr 96 | 116 | H | 49 | 19 | 2273 |
| | 30 May 96 | 12:45 | 201B4B0674 | 11 Apr 96 | 127 | H | 49 | 19 | 2280 |
| | 30 May 96 | 13:11 | 204A325C08 | 11 Apr 96 | 132 | H | 49 | 19 | 2286 |
| | 30 May 96 | 14:59 | 22327A3271 | 11 Apr 96 | 108 | H | 49 | 19 | 2294 |
| | 30 May 96 | 16:04 | 1F4E772A72 | 11 Apr 96 | 122 | H | 49 | 19 | 2302 |
| | 30 May 96 | 16:09 | 2044051F78 | 11 Apr 96 | 169 | H | 49 | 19 | 2304 |
| | 30 May 96 | 16:32 | 7F7A062247 | 11 Apr 96 | 145 | H | 49 | 19 | 2308 |
| | Subtotal this release site: POWP | | | 12 Means: | 129 | | 46 | 21 | |
| 1 | RAPH: RAPID R H | | | | | | | | |
| | 1 May 96 | 16:57 | 202E5D5500 | 19 Mar 96 | 127 | H | 43 | 21 | 632 |
| | 2 May 96 | 14:37 | 7F7A116D6D | 19 Mar 96 | 131 | H | 44 | 20 | 648 |
| | 2 May 96 | 16:10 | 221D03775E | 19 Mar 96 | 134 | H | 44 | 20 | 696 |
| | 3 May 96 | 07:45 | 202E3F7003 | 19 Mar 96 | 123 | H | 45 | 20 | 727 |
| | 3 May 96 | 08:17 | 7F7A134153 | 19 Mar 96 | 141 | H | 45 | 20 | 729 |
| | 4 May 96 | 07:18 | 2048116720 | 19 Mar 96 | 127 | H | 46 | 20 | 812 |
| | 4 May 96 | 10:58 | 222E297032 | 19 Mar 96 | 132 | H | 46 | 20 | 853 |
| | 7 May 96 | 07:30 | 221C131944 | 19 Mar 96 | 149 | H | 49 | 18 | 869 |
| | 7 May 96 | 07:34 | 7F7D411C16 | 19 Mar 96 | 122 | H | 49 | 18 | 876 |
| | 7 May 96 | 08:35 | 7F7A175A5F | 19 Mar 96 | 153 | H | 49 | 18 | 890 |
| | 7 May 96 | 22:58 | 222F67784D | 19 Mar 96 | 119 | H | 50 | 18 | 950 |
| | 8 May 96 | 07:17 | 7F7A09171C | 19 Mar 96 | 110 | H | 50 | 18 | 959 |
| | 8 May 96 | 08:32 | 7F7A08323E | 4 Apr 96 | 134 | H | 34 | 27 | 970 |
| | 8 May 96 | 10:20 | 7F7A155037 | 19 Mar 96 | 149 | H | 50 | 18 | 1309 |
| | 9 May 96 | 01:32 | 204807060B | 19 Mar 96 | 118 | H | 51 | 18 | 1423 |
| | 9 May 96 | 08:42 | 222F2A381A | 19 Mar 96 | 119 | H | 51 | 18 | 1439 |
| | 9 May 96 | 11:19 | 203C062E70 | 19 Mar 96 | 108 | H | 51 | 18 | 1457 |
| | 9 May 96 | 11:41 | 203E3F746F | 19 Mar 96 | 126 | H | 51 | 18 | 1459 |
| | 10 May 96 | 11:23 | 20354A5D04 | 3 Apr 96 | 134 | H | 37 | 24 | 1472 |
| | 13 May 96 | 15:22 | 7F7A11345E | 19 Mar 96 | 139 | H | 55 | 16 | 1744 |
| | 18 May 96 | 07:06 | 7F7A15455A | 19 Mar 96 | 129 | H | 60 | 15 | 1768 |
| | 18 May 96 | 07:35 | 203F4E567D | 19 Mar 96 | 116 | H | 60 | 15 | 1769 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 20 May 96 | 07:24 | 2009352B77 | 19 Mar 96 | 142 | H | 62 | 15 | 1783 |
| | 21 May 96 | 07:12 | 222F761E61 | 19 Mar 96 | 118 | H | 63 | 14 | 1835 |
| | 21 May 96 | 10:10 | 202E387208 | 19 Mar 96 | 120 | H | 63 | 14 | 1864 |
| | 21 May 96 | 10:10 | 200A4D1475 | 19 Mar 96 | 111 | H | 63 | 14 | 1866 |
| | 21 May 96 | 10:36 | 222D71515B | 19 Mar 96 | 110 | H | 63 | 14 | 1873 |
| | 21 May 96 | 11:01 | 2232651236 | 19 Mar 96 | 138 | H | 63 | 14 | 1883 |
| | 21 May 96 | 11:03 | 2048105632 | 19 Mar 96 | 120 | H | 63 | 14 | 1885 |
| | 22 May 96 | 09:42 | 222E36396A | 19 Mar 96 | 119 | H | 64 | 14 | 1913 |
| | 22 May 96 | 20:18 | 203E11127F | 19 Mar 96 | 123 | H | 64 | 14 | 1922 |
| | 23 May 96 | 06:46 | 7F7A081179 | 2 Apr 96 | 123 | H | 51 | 18 | 1938 |
| | 24 May 96 | 09:13 | 2009510B7B | 19 Mar 96 | 111 | H | 66 | 14 | 1958 |
| | 24 May 96 | 09:34 | 20490C5E2D | 19 Mar 96 | 128 | H | 66 | 14 | 1960 |
| | 24 May 96 | 11:13 | 7F7A113F6D | 19 Mar 96 | 117 | H | 66 | 14 | 2164 |
| | 25 May 96 | 08:12 | 7F7A06180E | 4 Apr 96 | 111 | H | 51 | 18 | 2190 |
| | 25 May 96 | 08:13 | 222F362718 | 19 Mar 96 | 122 | H | 67 | 13 | 2194 |
| | 29 May 96 | 09:22 | 20221B396A | 4 Apr 96 | 117 | H | 55 | 16 | 2238 |
| | 29 May 96 | 21:17 | 7F7A08303D | 2 Apr 96 | 129 | H | 58 | 16 | 2266 |
| | 30 May 96 | 12:19 | 221D103116 | 19 Mar 96 | 117 | H | 72 | 13 | 2278 |
| | 30 May 96 | 14:01 | 2043514903 | 19 Mar 96 | 117 | H | 72 | 13 | 2289 |
| | 30 May 96 | 14:59 | 203F2A4532 | 19 Mar 96 | 122 | H | 72 | 13 | 2295 |
| | 30 May 96 | 15:32 | 200A536221 | 19 Mar 96 | 121 | H | 72 | 13 | 2301 |
| | 6 Jun 96 | 09:32 | 202E621A36 | 19 Mar 96 | 129 | H | 79 | 11 | 2376 |
| | Subtotal this release site: RAPH | | | 44 Means: | 125 | | 56 | 17 | |
| 1 | **REDP: RED R REARING P** | | | | | | | | |
| | 24 May 96 | 09:59 | 203E2D4134 | 10 Apr 96 | 120 | H | 44 | 21 | 1963 |
| | 30 May 96 | 17:02 | 203E485F7B | 10 Apr 96 | 116 | H | 50 | 18 | 2311 |
| | Subtotal this release site: REDP | | | 2 Means: | 118 | | 47 | 20 | |
| 1 | **REDTRP: RED R T** | | | | | | | | |
| | 4 May 96 | 09:47 | 1F664C3877 | 15 Oct 95 | 82 | | 202 | 4 | 835 |
| | 4 May 96 | 10:14 | 20034E622D | 26 Oct 95 | 83 | | 191 | 5 | 841 |
| | Subtotal this release site: REDTRP | | | 2 Means: | 83 | | 196 | 5 | |
| 1 | **RIS: ROCK ISLAND D** | | | | | | | | |
| | 9 May 96 | 09:12 | 223F436D37 | 25 Apr 96 | 168 | H | 14 | 47 | 1447 |
| | 17 May 96 | 08:39 | 223D240575 | 25 Apr 96 | 142 | U | 22 | 30 | 1757 |
| | 29 May 96 | 13:06 | 223D1F0F58 | 13 May 96 | 119 | U | 16 | 41 | 2243 |
| | Subtotal this release site: RIS | | | 3 Means: | 143 | | 17 | 40 | |
| 1 | **SALEFW: SALMON R E FK W** | | | | | | | | |
| | 10 May 96 | 11:18 | 200317487E | 14 Oct 95 | 95 | | 209 | 6 | 1470 |
| | Subtotal this release site: SALEFW | | | 1 Means: | 95 | | 209 | 6 | |
| 1 | **SALTRP: SALMON T** | | | | | | | | |
| | 1 May 96 | 15:08 | 2047032D69 | 11 Apr 96 | 123 | W | 20 | 42 | 626 |
| | 1 May 96 | 16:10 | 204200227C | 16 Mar 96 | 98 | W | 46 | 18 | 628 |
| | 1 May 96 | 18:29 | 2011111529 | 20 Mar 96 | 91 | W | 42 | 20 | 633 |
| | 2 May 96 | 16:04 | 221D3F384C | 7 Apr 96 | 108 | W | 25 | 33 | 690 |
| | 3 May 96 | 11:16 | 200A4C5238 | 16 Mar 96 | 104 | W | 48 | 17 | 802 |
| | 4 May 96 | 07:18 | 221B5D1B62 | 7 Apr 96 | 97 | W | 27 | 31 | 808 |
| | 4 May 96 | 10:38 | 200A411500 | 18 Mar 96 | 90 | W | 47 | 18 | 850 |
| | 7 May 96 | 07:58 | 200A4F6F18 | 20 Mar 96 | 99 | W | 48 | 17 | 883 |
| | 7 May 96 | 22:42 | 2011163306 | 20 Mar 96 | 84 | W | 49 | 17 | 949 |
| | 8 May 96 | 19:33 | 200944385B | 17 Mar 96 | 97 | W | 52 | 16 | 1411 |
| | 8 May 96 | 19:40 | 221E086C46 | 11 Apr 96 | 104 | W | 27 | 31 | 1414 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 11 May 96 | 10:13 | 200A437C17 | 17 Mar 96 | 89 | W | 55 | 15 | 1481 |
| | 13 May 96 | 12:34 | 204210543A | 3 Apr 96 | 124 | H | 40 | 21 | 1721 |
| | 21 May 96 | 10:13 | 200A4C7713 | 21 Mar 96 | 114 | H | 61 | 14 | 1869 |
| | 21 May 96 | 17:18 | 20110D7C46 | 25 Mar 96 | 124 | H | 57 | 15 | 1894 |
| | 29 May 96 | 06:42 | 5047420833 | 14 May 96 | 145 | H | 15 | 56 | 2228 |
| | 29 May 96 | 17:21 | 221D296B5B | 19 Apr 96 | 143 | H | 40 | 21 | 2250 |
| | 31 May 96 | 13:28 | 2046122662 | 16 Apr 96 | 95 | W | 45 | 19 | 2325 |
| | Subtotal this release site: SALTRP | | | 18 Means: | 107 | | 41 | 23 | |
| 1 | SAWTRP: SAWTOOTH T | | | | | | | | |
| | 3 May 96 | 07:43 | 7F7A136F22 | 4 Nov 95 | 94 | | 181 | 8 | 726 |
| | 20 May 96 | 08:44 | 2007416C2C | 10 Apr 96 | 99 | W | 39 | 35 | 1787 |
| | Subtotal this release site: SAWTRP | | | 2 Means: | 97 | | 110 | 21 | |
| 1 | SIMP: SIMILKAMEEN P/H | | | | | | | | |
| | 8 May 96 | 08:45 | 7F7A083238 | | 120 | | | | 989 |
| | 21 May 96 | 16:42 | 20451C037C | | 106 | | | | 1891 |
| | 22 May 96 | 15:29 | 7F7A08231C | | 133 | | | | 1915 |
| | 30 May 96 | 14:59 | 20232D622E | | 120 | | | | 2293 |
| | 30 May 96 | 16:32 | 7F7A062241 | | 141 | | | | 2307 |
| | Subtotal this release site: SIMP | | | 5 Means: | 124 | | | | |
| 1 | SNAKER: SNAKE R | | | | | | | | |
| | 1 May 96 | 08:47 | 7F7A090767 | 13 Apr 96 | 169 | H | 18 | 45 | 615 |
| | 1 May 96 | 11:19 | 7F7A070B71 | 12 Apr 96 | 161 | H | 19 | 42 | 622 |
| | 2 May 96 | 15:58 | 221B62655D | 13 Apr 96 | 163 | H | 19 | 42 | 687 |
| | 3 May 96 | 00:51 | 221C0E3C5D | 14 Apr 96 | 122 | H | 18 | 43 | 725 |
| | 3 May 96 | 10:41 | 2237724517 | 15 Apr 96 | 166 | H | 18 | 45 | 799 |
| | 4 May 96 | 07:21 | 221D0F2E67 | 14 Apr 96 | 152 | H | 20 | 41 | 818 |
| | 4 May 96 | 08:20 | 22151D1150 | 13 Apr 96 | 163 | H | 21 | 39 | 822 |
| | 4 May 96 | 08:32 | 221B023302 | 15 Apr 96 | 161 | H | 19 | 43 | 826 |
| | 4 May 96 | 09:04 | 2215423176 | 15 Apr 96 | 172 | H | 19 | 43 | 831 |
| | 4 May 96 | 09:33 | 7F7A071F3D | 12 Apr 96 | 149 | H | 22 | 37 | 832 |
| | 7 May 96 | 08:06 | 2215427A5E | 13 Apr 96 | 165 | H | 24 | 34 | 888 |
| | 7 May 96 | 09:29 | 7F7A0F757D | 13 Apr 96 | 164 | H | 24 | 34 | 897 |
| | 7 May 96 | 10:45 | 20487F2C6D | 12 Apr 96 | 179 | H | 25 | 32 | 905 |
| | 7 May 96 | 19:14 | 221C2B623D | 13 Apr 96 | 162 | H | 24 | 33 | 928 |
| | 7 May 96 | 19:52 | 2215143D4C | 15 Apr 96 | 125 | H | 22 | 36 | 932 |
| | 7 May 96 | 20:12 | 221539252C | 13 Apr 96 | 166 | H | 24 | 33 | 935 |
| | 8 May 96 | 07:16 | 7F7A090621 | 12 Apr 96 | 160 | H | 26 | 31 | 956 |
| | 8 May 96 | 08:24 | 222A456F76 | 11 Apr 96 | 130 | H | 27 | 26 | 969 |
| | 8 May 96 | 16:00 | 221D154510 | 13 Apr 96 | 166 | H | 25 | 32 | 1366 |
| | 8 May 96 | 20:52 | 221C2A3B4B | 13 Apr 96 | 156 | H | 25 | 32 | 1706 |
| | 9 May 96 | 01:36 | 203F40530E | 12 Apr 96 | 169 | H | 26 | 30 | 1426 |
| | 9 May 96 | 07:53 | 221C2F236B | 13 Apr 96 | 171 | H | 26 | 31 | 1432 |
| | 9 May 96 | 07:55 | 221D331A20 | 14 Apr 96 | 169 | H | 25 | 32 | 1433 |
| | 9 May 96 | 09:11 | 221D0F7705 | 15 Apr 96 | 150 | H | 24 | 34 | 1445 |
| | 9 May 96 | 10:37 | 221C05660C | 13 Apr 96 | 164 | H | 26 | 31 | 1452 |
| | 9 May 96 | 12:01 | 221C6C452D | 14 Apr 96 | 158 | H | 25 | 32 | 1461 |
| | 11 May 96 | 09:16 | 221D037053 | 15 Apr 96 | 139 | H | 26 | 31 | 1479 |
| | 11 May 96 | 12:15 | 221C324863 | 13 Apr 96 | 171 | H | 28 | 29 | 1493 |
| | 17 May 96 | 06:56 | 7F7A100077 | 12 Apr 96 | 137 | H | 34 | 23 | 1751 |
| | 17 May 96 | 06:56 | 7F7A100074 | 12 Apr 96 | 140 | H | 34 | 23 | 1753 |
| | 22 May 96 | 09:10 | 22243F4C69 | 8 Apr 96 | 120 | H | 44 | 16 | 1908 |
| | 22 May 96 | 20:19 | 22146F625A | 24 Apr 96 | 123 | H | 28 | 25 | 1925 |
| | 30 May 96 | 14:59 | 7F7A115003 | 15 Apr 96 | 111 | H | 45 | 18 | 2292 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | Subtotal this release site: SNAKER | | | 33 Means: | 154 | | 25 | 33 | |
| 1 | SNKTRP: SNAKE T | | | | | | | | |
| | 4 May 96 | 07:49 | 221E013349 | 9 Apr 96 | 94 | W | 25 | 27 | 820 |
| | 7 May 96 | 07:33 | 20114E641D | 10 Apr 96 | 138 | H | 27 | 25 | 874 |
| | 7 May 96 | 08:48 | 2046054A4B | 10 Apr 96 | 117 | H | 27 | 25 | 893 |
| | 7 May 96 | 11:54 | 221C60561F | 19 Apr 96 | 173 | H | 18 | 37 | 916 |
| | 21 May 96 | 06:49 | 200901785E | 26 Apr 96 | 148 | H | 25 | 27 | 1830 |
| | 21 May 96 | 07:43 | 203C10474D | 30 Apr 96 | 146 | H | 21 | 32 | 1836 |
| | 24 May 96 | 10:27 | 2044134148 | 25 Apr 96 | 129 | H | 29 | 23 | 1972 |
| | 24 May 96 | 11:14 | 203F4C3B1A | 25 Apr 96 | 147 | H | 29 | 23 | 2173 |
| | 29 May 96 | 17:20 | 7F7A11584A | 26 Apr 96 | 92 | W | 33 | 20 | 2248 |
| | 30 May 96 | 12:45 | 200A2F7D2A | 14 May 96 | 107 | W | 16 | 43 | 2281 |
| | Subtotal this release site: SNKTRP | | | 10 Means: | 129 | | 25 | 28 | |
| 1 | TUCH: TUCANNON RIVER H | | | | | | | | |
| | 4 May 96 | 10:58 | 201E1B4A5D | 16 Mar 96 | 120 | H | 49 | 12 | 852 |
| | 25 May 96 | 08:37 | 20431E7E01 | 16 Mar 96 | 135 | H | 70 | 9 | 2195 |
| | Subtotal this release site: TUCH | | | 2 Means: | 128 | | 59 | 11 | |
| 1 | TUCR: TUCANNON R | | | | | | | | |
| | 8 May 96 | 08:39 | 201E1E782C | 27 Mar 96 | 147 | H | 42 | 17 | 975 |
| | Subtotal this release site: TUCR | | | 1 Means: | 147 | | 42 | 17 | |
| 1 | WELH: WELLS H | | | | | | | | |
| | 1 May 96 | 08:15 | 22367D7712 | 7 Apr 96 | 151 | H | 24 | 31 | 614 |
| | Subtotal this release site: WELH | | | 1 Means: | 151 | | 24 | 31 | |
| | **Subtotal this species code: 1** | | | **489 Means:** | **128** | | **37** | **33** | |
| | DUMMY: NO RELEASE INFORMATION AVAILABLE | | | | | | | | |
| | 24 Apr 96 | 09:14 | 7F7E6A5C4F | 1 Jan 00 | | | 35177 | | 4 |
| | 24 Apr 96 | 09:14 | 7F7E4E3B0D | 1 Jan 00 | | | 35177 | | 5 |
| | 24 Apr 96 | 09:15 | 7F7E0E3B0D | 1 Jan 00 | | | 35177 | | 9 |
| | 25 Apr 96 | 13:23 | 7F7E4D231C | 1 Jan 00 | | | 35178 | | 30 |
| | 26 Apr 96 | 06:58 | 7F7E4E1A12 | 1 Jan 00 | | | 35179 | | 31 |
| | 26 Apr 96 | 07:59 | 20446B290B | 1 Jan 00 | | | 35179 | | 1579 |
| | 26 Apr 96 | 07:59 | 20046B2908 | 1 Jan 00 | | | 35179 | | 1587 |
| | 26 Apr 96 | 08:00 | 20440B2908 | 1 Jan 00 | | | 35179 | | 1598 |
| | 26 Apr 96 | 08:02 | 20446B2F08 | 1 Jan 00 | | | 35179 | | 1630 |
| | 26 Apr 96 | 08:02 | 20446B297F | 1 Jan 00 | | | 35179 | | 1633 |
| | 26 Apr 96 | 08:02 | 20486B2908 | 1 Jan 00 | | | 35179 | | 1636 |
| | 26 Apr 96 | 08:04 | 2044682908 | 1 Jan 00 | | | 35179 | | 1651 |
| | 26 Apr 96 | 08:04 | 20446B4908 | 1 Jan 00 | | | 35179 | | 1665 |
| | 26 Apr 96 | 08:05 | 20446B2A08 | 1 Jan 00 | | | 35179 | | 1673 |
| | 26 Apr 96 | 08:05 | 20446B6908 | 1 Jan 00 | | | 35179 | | 1675 |
| | 26 Apr 96 | 08:05 | 20474B2908 | 1 Jan 00 | | | 35179 | | 1681 |
| | 26 Apr 96 | 08:12 | 20446B2938 | 1 Jan 00 | | | 35179 | | 38 |
| | 26 Apr 96 | 08:19 | 60446B2908 | 1 Jan 00 | | | 35179 | | 155 |
| | 26 Apr 96 | 08:41 | 2F446B2908 | 1 Jan 00 | | | 35179 | | 214 |
| | 26 Apr 96 | 08:54 | 2078565210 | 1 Jan 00 | | | 35179 | | 333 |
| | 27 Apr 96 | 11:50 | 7F7E6A1C4F | 1 Jan 00 | | | 35180 | | 441 |
| | 30 Apr 96 | 07:09 | 7F7E2E2D7B | 1 Jan 00 | | | 35183 | | 451 |
| | 30 Apr 96 | 07:26 | 7F7D7F687E | 1 Jan 00 | | | 35183 | | 454 |
| | 30 Apr 96 | 07:26 | 7F7D7F7906 | 1 Jan 00 | | | 35183 | | 456 |
| | 30 Apr 96 | 07:27 | 7F7D7F6833 | 1 Jan 00 | | | 35183 | | 457 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 30 Apr 96 | 07:37 | 70017F6806 | 1 Jan 00 | | | 35183 | | 463 |
| | 30 Apr 96 | 07:38 | 7F7D7F681B | 1 Jan 00 | | | 35183 | | 465 |
| | 30 Apr 96 | 07:38 | 7F7D7F683C | 1 Jan 00 | | | 35183 | | 467 |
| | 30 Apr 96 | 08:40 | 7F7E7F6806 | 1 Jan 00 | | | 35183 | | 472 |
| | 30 Apr 96 | 08:42 | 7F7D7F6805 | 1 Jan 00 | | | 35183 | | 474 |
| | 30 Apr 96 | 08:42 | 7F7D7F0806 | 1 Jan 00 | | | 35183 | | 476 |
| | 30 Apr 96 | 08:47 | 40017F6806 | 1 Jan 00 | | | 35183 | | 497 |
| | 30 Apr 96 | 08:47 | 7F7D706806 | 1 Jan 00 | | | 35183 | | 499 |
| | 30 Apr 96 | 08:50 | 7F7D7F2806 | 1 Jan 00 | | | 35183 | | 511 |
| | 30 Apr 96 | 08:51 | 7F717F6806 | 1 Jan 00 | | | 35183 | | 515 |
| | 30 Apr 96 | 08:51 | 7F7D7F683F | 1 Jan 00 | | | 35183 | | 519 |
| | 30 Apr 96 | 08:52 | 7F7D7F7006 | 1 Jan 00 | | | 35183 | | 525 |
| | 30 Apr 96 | 08:55 | 7F5F7F6806 | 1 Jan 00 | | | 35183 | | 533 |
| | 30 Apr 96 | 09:05 | 7F7D7F680C | 1 Jan 00 | | | 35183 | | 565 |
| | 30 Apr 96 | 09:12 | 7F697F6806 | 1 Jan 00 | | | 35183 | | 577 |
| | 30 Apr 96 | 09:12 | 1F7E3F7443 | 1 Jan 00 | | | 35183 | | 579 |
| | 30 Apr 96 | 09:12 | 7F7D7F6906 | 1 Jan 00 | | | 35183 | | 581 |
| | 30 Apr 96 | 09:12 | 7F7D7F6E06 | 1 Jan 00 | | | 35183 | | 583 |
| | 30 Apr 96 | 09:14 | 7F7D7F2906 | 1 Jan 00 | | | 35183 | | 591 |
| | 30 Apr 96 | 09:15 | 00017F6806 | 1 Jan 00 | | | 35183 | | 596 |
| | 30 Apr 96 | 10:44 | 1F622C3710 | 1 Jan 00 | | | 35183 | | 609 |
| | 1 May 96 | 11:15 | 1F623C4F04 | 1 Jan 00 | | | 35184 | | 617 |
| | 1 May 96 | 14:48 | 7F7E4B196C | 1 Jan 00 | | | 35184 | | 624 |
| | 2 May 96 | 07:45 | 1F623F281B | 1 Jan 00 | | | 35185 | | 635 |
| | 2 May 96 | 14:37 | 7F7A126D6D | 1 Jan 00 | | | 35185 | | 647 |
| | 2 May 96 | 14:48 | 1F577C2B13 | 1 Jan 00 | | | 35185 | | 652 |
| | 2 May 96 | 14:49 | 1F574C2B73 | 1 Jan 00 | | | 35185 | | 654 |
| | 2 May 96 | 14:50 | 1F574C2B16 | 1 Jan 00 | | | 35185 | | 656 |
| | 2 May 96 | 14:52 | 1F574C2B10 | 1 Jan 00 | | | 35185 | | 659 |
| | 2 May 96 | 14:55 | 1F544C2B13 | 1 Jan 00 | | | 35185 | | 667 |
| | 2 May 96 | 14:56 | 1F570C2B13 | 1 Jan 00 | | | 35185 | | 668 |
| | 2 May 96 | 14:57 | 1F374C2B13 | 1 Jan 00 | | | 35185 | | 672 |
| | 2 May 96 | 15:05 | 1F574C2813 | 1 Jan 00 | | | 35185 | | 675 |
| | 2 May 96 | 15:06 | 10574C2B13 | 1 Jan 00 | | | 35185 | | 677 |
| | 2 May 96 | 15:07 | 011F4C2B13 | 1 Jan 00 | | | 35185 | | 679 |
| | 2 May 96 | 15:07 | 1F574C4B16 | 1 Jan 00 | | | 35185 | | 681 |
| | 2 May 96 | 15:08 | 1F57402B13 | 1 Jan 00 | | | 35185 | | 683 |
| | 2 May 96 | 16:08 | 7F574C2B13 | 1 Jan 00 | | | 35185 | | 692 |
| | 2 May 96 | 16:10 | 1F674C2B13 | 1 Jan 00 | | | 35185 | | 697 |
| | 2 May 96 | 16:11 | 1F574C2B1F | 1 Jan 00 | | | 35185 | | 707 |
| | 2 May 96 | 23:38 | 7F7E4E033D | 1 Jan 00 | | | 35185 | | 721 |
| | 2 May 96 | 23:38 | 7F7E4E003D | 1 Jan 00 | | | 35185 | | 722 |
| | 3 May 96 | 08:19 | 221E20081F | 1 Jan 00 | | | 35186 | | 732 |
| | 3 May 96 | 08:29 | 220020481F | 1 Jan 00 | | | 35186 | | 734 |
| | 3 May 96 | 08:29 | 221E204810 | 1 Jan 00 | | | 35186 | | 735 |
| | 3 May 96 | 08:29 | 221E20483B | 1 Jan 00 | | | 35186 | | 737 |
| | 3 May 96 | 08:29 | 221E01481F | 1 Jan 00 | | | 35186 | | 739 |
| | 3 May 96 | 08:30 | 2E1E20481F | 1 Jan 00 | | | 35186 | | 741 |
| | 3 May 96 | 08:35 | 221E204838 | 1 Jan 00 | | | 35186 | | 744 |
| | 3 May 96 | 08:35 | 221E20485D | 1 Jan 00 | | | 35186 | | 746 |
| | 3 May 96 | 08:36 | 221E204808 | 1 Jan 00 | | | 35186 | | 750 |
| | 3 May 96 | 08:37 | 221820481F | 1 Jan 00 | | | 35186 | | 752 |
| | 3 May 96 | 08:38 | 301E20481F | 1 Jan 00 | | | 35186 | | 756 |
| | 3 May 96 | 08:39 | 221E204819 | 1 Jan 00 | | | 35186 | | 758 |
| | 3 May 96 | 08:39 | 221E60481F | 1 Jan 00 | | | 35186 | | 760 |
| | 3 May 96 | 08:39 | 221E20481C | 1 Jan 00 | | | 35186 | | 762 |
| | 3 May 96 | 08:40 | 220C20481F | 1 Jan 00 | | | 35186 | | 770 |

## Appendix Table A4. Continued

| Species code and Release Site | Jones Beach detection information | | | Release information | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Date | Time | Pit-tag code no. | Date of release | Length (mm) at tagging | Rear type | Travel time and speed to Jones Beach (d) | (km/d) | Record no. |
| | 3 May 96 | 09:12 | 417047067F | 1 Jan 00 | | | 35186 | | 788 |
| | 3 May 96 | 09:13 | 2042203E40 | 1 Jan 00 | | | 35186 | | 791 |
| | 3 May 96 | 10:21 | 221812676F | 1 Jan 00 | | | 35186 | | 798 |
| | 3 May 96 | 11:16 | 200A4C523B | 1 Jan 00 | | | 35186 | | 803 |
| | 4 May 96 | 07:18 | 221C6E7E60 | 1 Jan 00 | | | 35187 | | 809 |
| | 4 May 96 | 07:18 | 7F7E4B112F | 1 Jan 00 | | | 35187 | | 811 |
| | 4 May 96 | 07:19 | 20420B3B5B | 1 Jan 00 | | | 35187 | | 817 |
| | 4 May 96 | 07:21 | 221D0F2E64 | 1 Jan 00 | | | 35187 | | 819 |
| | 4 May 96 | 08:24 | 22151D1153 | 1 Jan 00 | | | 35187 | | 823 |
| | 4 May 96 | 09:01 | 22004F4331 | 1 Jan 00 | | | 35187 | | 829 |
| | 4 May 96 | 09:01 | 22181E3F31 | 1 Jan 00 | | | 35187 | | 830 |
| | 4 May 96 | 10:24 | 203F3B382E | 1 Jan 00 | | | 35187 | | 843 |
| | 4 May 96 | 10:26 | 413136773F | 1 Jan 00 | | | 35187 | | 846 |
| | 4 May 96 | 10:38 | 200A41153F | 1 Jan 00 | | | 35187 | | 849 |
| | 4 May 96 | 11:26 | 221D026C65 | 1 Jan 00 | | | 35187 | | 855 |
| | 4 May 96 | 11:28 | 20083C643B | 1 Jan 00 | | | 35187 | | 858 |
| | 8 May 96 | 09:17 | 202E5C1145 | 1 Jan 00 | | | 35191 | | 1119 |
| | 10 May 96 | 10:30 | 221544745D | 1 Jan 00 | | | 35193 | | 1467 |
| | 13 May 96 | 20:40 | 200A3F3A5D | 1 Jan 00 | | | 35196 | | 1748 |
| | 22 May 96 | 07:34 | 221D264215 | 1 Jan 00 | | | 35205 | | 1903 |
| | 30 May 96 | 16:09 | 2044051F7B | 1 Jan 00 | | | 35213 | | 2305 |
| | 31 May 96 | 19:27 | 204F082069 | 1 Jan 00 | | | 35214 | | 2335 |
| | **Subtotal this release site: DUMMY** | | | **105** | **Means:** | | **35185** | | |
| **Subtotal this species code:** | | | | **105** | **Means:** | | **35185** | | |
| | | | | **Grand Total all PIT-tags:** | | | **743** | | |

[a] Release information obtained from the Pacific States Marine Fisheries Commission, Portland, Oregon, PTAGIS database. Release site codes and related information are available in the PTAGIS, 1 Feb. 1996 "PIT-tag specification document" (C. Stein, ed., 50 p. plus appendixes). Species codes used are: 1 chinook salmon, 2 coho salmon, 3 steelhead, and 4 sockeye salmon.

Appendix Table A5. Diel sampling of juvenile spring/summer chinook salmon and steelhead using a PIT-tag detector/trawl at Jones Beach, Columbia River kilometer 75, May 1996.

| | Daily sample effort period 1[a] (decimal hours) | | | Period totals | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Total effort | Chinook salmon | | Steelhead | |
| Hour[b] | 1 May | 2 May | 3 May | (hours) | (n) | (n/h) | (n) | (n/h) |
| 6:00 | | | | 0.0000 | | ne[c] | | ne |
| 7:00 | 0.3156 | | 0.4550 | 0.7706 | 0 | 0.0000 | 0 | 0.0000 |
| 8:00 | 0.6564 | 0.7311 | 1.0000 | 2.3875 | 6 | 2.5131 | 3 | 1.2565 |
| 9:00 | 0.8314 | 0.8247 | 0.7294 | 2.3855 | 4 | 1.6768 | 3 | 1.2576 |
| 10:00 | 0.9156 | | 0.8911 | 1.8067 | 4 | 2.2140 | 1 | 0.5535 |
| 11:00 | 0.6428 | | 0.7789 | 1.4217 | 8 | 5.6272 | 1 | 0.7034 |
| 12:00 | 0.1575 | | | 0.1575 | 0 | 0.0000 | 0 | 0.0000 |
| 13:00 | | 0.7231 | | 0.7231 | 4 | 5.5321 | 0 | 0.0000 |
| 14:00 | 0.1228 | 0.7983 | | 0.9211 | 1 | 1.0857 | 0 | 0.0000 |
| 15:00 | 0.9347 | 0.8730 | | 1.8077 | 7 | 3.8723 | 0 | 0.0000 |
| 16:00 | 0.4578 | 0.9269 | | 1.3847 | 8 | 5.7772 | 0 | 0.0000 |
| 17:00 | 0.8456 | 0.1442 | | 0.9898 | 2 | 2.0207 | 0 | 0.0000 |
| 18:00 | 0.7156 | | | 0.7156 | 1 | 1.3975 | 0 | 0.0000 |
| 19:00 | 0.1536 | | | 0.1536 | 0 | 0.0000 | 0 | 0.0000 |
| 20:00 | | | | 0.0000 | | ne | | ne |
| 21:00 | | | | 0.0000 | | ne | | ne |
| 22:00 | | 0.6561 | | 0.6561 | 0 | 0.0000 | 0 | 0.0000 |
| 23:00 | | 1.0000 | | 1.0000 | 1 | 1.0000 | 0 | 0.0000 |
| 0:00 | | 0.5000 | 0.5000 | 1.0000 | 1 | 1.0000 | 1 | 1.0000 |
| 1:00 | | | 0.7431 | 0.7431 | 1 | 1.3458 | 0 | 0.0000 |
| 2:00 | | | | 0.0000 | | ne | | ne |
| 3:00 | | | | 0.0000 | | ne | | ne |
| 4:00 | | | | 0.0000 | | ne | | ne |
| 5:00 | | | | 0.0000 | | ne | | ne |

| | Daily sample effort period 2[a] (decimal hours) | | | Period totals | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Total effort | Chinook salmon | | Steelhead | |
| Hour[b] | 7 May | 8 May | 9 May | (hours) | (n) | (n/h) | (n) | (n/h) |
| 6:00 | | | | 0.0000 | | ne | | ne |
| 7:00 | 0.3367 | 0.4547 | 0.2886 | 1.0800 | 8 | 7.4076 | 3 | 2.7778 |
| 8:00 | 0.6379 | 1.0000 | 0.8033 | 2.4412 | 24 | 9.8312 | 7 | 2.8674 |
| 9:00 | 0.9719 | 0.9405 | 1.0000 | 2.9124 | 19 | 6.5237 | 7 | 2.4035 |
| 10:00 | 0.9367 | 1.0000 | 0.7839 | 2.7206 | 10 | 3.6757 | 7 | 2.5730 |
| 11:00 | 1.0000 | 0.3042 | 1.0000 | 2.3042 | 5 | 2.1700 | 7 | 3.0380 |
| 12:00 | 0.6528 | | 0.5386 | 1.1914 | 11 | 9.2329 | 2 | 1.6787 |
| 13:00 | | | | 0.0000 | | ne | | ne |
| 14:00 | | | | 0.0000 | | ne | | ne |
| 15:00 | | 0.6344 | | 0.6344 | 2 | 3.1524 | 2 | 3.1524 |
| 16:00 | | 0.7695 | | 0.7695 | 3 | 3.8986 | 5 | 6.4977 |
| 17:00 | | 0.8336 | | 0.8336 | 1 | 1.1996 | 2 | 2.3992 |

Appendix Table A5. Continued.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 18:00 | 0.5275 | 0.8608 | | 1.3883 | 1 | 0.7203 | 2 | 1.4406 |
| 19:00 | 0.3731 | 1.0000 | | 1.3731 | 7 | 5.0980 | 3 | 2.1848 |
| 20:00 | 1.0000 | 0.8317 | | 1.8317 | 11 | 6.0054 | 3 | 1.6378 |
| 21:00 | 1.0000 | 0.6836 | | 1.6836 | 3 | 1.7819 | 3 | 1.7819 |
| 22:00 | 1.0000 | 1.0000 | | 2.0000 | 4 | 2.0000 | 3 | 1.5000 |
| 23:00 | 1.0000 | 0.6425 | | 1.6425 | 2 | 1.2177 | 1 | 0.6088 |
| 0:00 | 0.4997 | 0.8216 | 0.3942 | 1.7155 | 1 | 0.5829 | 1 | 0.5829 |
| 1:00 | | 1.0000 | 1.0000 | 2.0000 | 1 | 0.5000 | | 0.0000 |
| 2:00 | | 0.2889 | 0.1153 | 0.4042 | 3 | 7.4227 | 0 | 0.0000 |
| 3:00 | | | | 0.0000 | | ne | | ne |
| 4:00 | | | | 0.0000 | | ne | | ne |
| 5:00 | | | | 0.0000 | | ne | | ne |

| | Daily sample effort period 3[a] (decimal hours) | | | Period totals | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Total effort | Chinook salmon | | Steelhead | |
| Hour[b] | 13 May | 14 May | 15 May | (hours) | (n) | (n/h) | (n) | (n/h) |
| 6:00 | | | | 0.0000 | | ne | | ne |
| 7:00 | | | | 0.0000 | | ne | | ne |
| 8:00 | | | | 0.0000 | | ne | | ne |
| 9:00 | 0.5381 | | | 0.5381 | 1 | 1.8584 | 0 | 0.0000 |
| 10:00 | 0.8250 | | | 0.8250 | 2 | 2.4242 | 0 | 0.0000 |
| 11:00 | 1.0000 | | | 1.0000 | 0 | 0.0000 | 0 | 0.0000 |
| 12:00 | 0.7603 | | | 0.7603 | 0 | 0.0000 | 2 | 2.6305 |
| 13:00 | 0.8367 | | | 0.8367 | 1 | 1.1952 | 0 | 0.0000 |
| 14:00 | 1.0000 | | | 1.0000 | 0 | 0.0000 | 2 | 2.0000 |
| 15:00 | 1.0000 | | | 1.0000 | 2 | 2.0000 | 1 | 1.0000 |
| 16:00 | 1.0000 | | | 1.0000 | 0 | 0.0000 | 0 | 0.0000 |
| 17:00 | 0.2872 | | | 0.2872 | 0 | 0.0000 | 0 | 0.0000 |
| 18:00 | | | | 0.0000 | | ne | | ne |
| 19:00 | 0.3808 | | | 0.3808 | 0 | 0.0000 | 0 | 0.0000 |
| 20:00 | 1.0000 | | | 1.0000 | 0 | 0.0000 | 1 | 1.0000 |
| 21:00 | 1.0000 | | | 1.0000 | 1 | 1.0000 | 0 | 0.0000 |
| 22:00 | 1.0000 | | | 1.0000 | 1 | 1.0000 | 0 | 0.0000 |
| 23:00 | 0.0372 | | | 0.0372 | 0 | 0.0000 | 0 | 0.0000 |
| 0:00 | | | | 0.0000 | | ne | | ne |
| 1:00 | | | | 0.0000 | | ne | | ne |
| 2:00 | | | | 0.0000 | | ne | | ne |
| 3:00 | | | | 0.0000 | | ne | | ne |
| 4:00 | | | | 0.0000 | | ne | | ne |
| 5:00 | | | | 0.0000 | | ne | | ne |

| | Daily sample effort period 4[a] (decimal hours) | | | | Period totals | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Total effort | Chinook salmon | | Steelhead | |
| Hour[b] | 21 May | 22 May | 23 May | 24 May | (hours) | (n) | (n/h) | (n) | (n/h) |
| 6:00 | | | 0.0308 | 0.1422 | 0.1731 | 0 | 0.0000 | 0 | 0.0000 |

Appendix Table A5. Continued.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7:00 | 0.8383 | 0.4583 | 0.9211 | 1.0000 | 3.2177 | 10 | 3.1078 | 7 | 2.1755 |
| 8:00 | 0.8388 | 0.9103 | 1.0000 | 0.9409 | 3.6900 | 13 | 3.5230 | 6 | 1.6260 |
| 9:00 | 0.8191 | 1.0000 | 0.7000 | 0.9289 | 3.4480 | 10 | 2.9002 | 2 | 0.5800 |
| 10:00 | 1.0000 | 0.9548 | 0.5339 | 1.0000 | 3.4887 | 23 | 6.5927 | 4 | 1.1466 |
| 11:00 | 0.6269 | 0.8092 | | 0.7667 | 2.2028 | 26 | 11.8031 | 3 | 1.3619 |
| 12:00 | | 0.0342 | | | 0.0342 | 0 | 0.0000 | 0 | 0.0000 |
| 13:00 | | | | | 0.0000 | | ne | | ne |
| 14:00 | | | | | 0.0000 | | ne | | ne |
| 15:00 | | 0.5864 | | | 0.5864 | 1 | 1.7053 | 0 | 0.0000 |
| 16:00 | 0.3422 | 1.0000 | | | 1.3422 | 3 | 2.2351 | 2 | 1.4901 |
| 17:00 | 0.8080 | 0.6764 | | | 1.4844 | 5 | 3.3684 | 1 | 0.6737 |
| 18:00 | 1.0000 | 1.0000 | | | 2.0000 | 2 | 1.0000 | 0 | 0.0000 |
| 19:00 | 0.9231 | | | | 0.9231 | 2 | 2.1666 | 0 | 0.0000 |
| 20:00 | 0.6022 | 0.7436 | | | 1.3458 | 7 | 5.2014 | 0 | 0.0000 |
| 21:00 | 1.0000 | | | | 1.0000 | | 0.0000 | | 0.0000 |
| 22:00 | 1.0000 | | | | 1.0000 | | 0.0000 | | 0.0000 |
| 23:00 | 0.2667 | | | | 0.2667 | | 0.0000 | | 0.0000 |
| 0:00 | | 0.6761 | | | 0.6761 | 0 | 0.0000 | 0 | 0.0000 |
| 1:00 | | 0.0578 | 0.7106 | | 0.7684 | 0 | 0.0000 | 0 | 0.0000 |
| 2:00 | | | 1.0000 | | 1.0000 | 0 | 0.0000 | 0 | 0.0000 |
| 3:00 | | | 0.4433 | | 0.4433 | 0 | 0.0000 | 0 | 0.0000 |
| 4:00 | | | | | 0.0000 | | ne | | ne |
| 5:00 | | | | | 0.0000 | | ne | | ne |

| | Daily sample effort period 5[a] (decimal hours) | | | Period totals | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Total effort | Chinook salmon | | Steelhead | |
| Hour[b] | 29 May | 30 May | 31 May | (hours) | (n) | (n/h) | (n) | (n/h) |
| 6:00 | 0.0794 | 0.0478 | | 0.1272 | 0 | 0.0000 | 0 | 0.0000 |
| 7:00 | 1.0000 | 1.0000 | 0.4608 | 2.4608 | 6 | 2.4382 | | 0.0000 |
| 8:00 | 1.0000 | 1.0000 | 1.0000 | 3.0000 | 7 | 2.3333 | 2 | 0.6667 |
| 9:00 | 1.0000 | 1.0000 | 1.0000 | 3.0000 | 6 | 2.0000 | 2 | 0.6667 |
| 10:00 | 0.7431 | 0.0317 | 1.0000 | 1.7748 | 2 | 1.1269 | 1 | 0.5635 |
| 11:00 | | | 0.0314 | 0.0314 | 0 | 0.0000 | 0 | 0.0000 |
| 12:00 | | 0.3803 | | 0.3803 | 2 | 5.2593 | 0 | 0.0000 |
| 13:00 | 0.5628 | 1.0000 | 0.3211 | 1.8839 | 7 | 3.7157 | 0 | 0.0000 |
| 14:00 | 1.0000 | 1.0000 | 1.0000 | 3.0000 | 3 | 1.0000 | 0 | 0.0000 |
| 15:00 | 0.9261 | 0.8653 | 1.0000 | 2.7914 | 7 | 2.5077 | 0 | 0.0000 |
| 16:00 | 1.0000 | 1.0000 | 0.9222 | 2.9222 | 7 | 2.3955 | 0 | 0.0000 |
| 17:00 | 1.0000 | 1.0000 | 0.9436 | 2.9436 | 9 | 3.0575 | 0 | 0.0000 |
| 18:00 | 0.7817 | 0.9655 | 1.0000 | 2.7472 | 10 | 3.6401 | 2 | 0.7280 |
| 19:00 | | 0.1667 | 0.8747 | 1.0414 | 2 | 1.9206 | 0 | 0.0000 |
| 20:00 | | | 0.2000 | 0.2000 | 0 | 0.0000 | 0 | 0.0000 |
| 21:00 | 0.4308 | | | 0.4308 | 2 | 4.6422 | 0 | 0.0000 |
| 22:00 | 1.0000 | | | 1.0000 | 2 | 2.0000 | 0 | 0.0000 |
| 23:00 | 1.0000 | | | 1.0000 | 1 | 1.0000 | 0 | 0.0000 |

Appendix Table A5. Continued.

| | | | | | | |
|---|---|---|---|---|---|---|
| 0:00 | 0.0833 | 0.0833 | 0 | 0.0000 | 0 | 0.0000 |
| 1:00 | | 0.0000 | | ne | | ne |
| 2:00 | | 0.0000 | | ne | | ne |
| 3:00 | | 0.0000 | | ne | | ne |
| 4:00 | | 0.0000 | | ne | | ne |
| 5:00 | | 0.0000 | | ne | | ne |

**Totals/averages for pooled data from all five diel sampling periods.**

| | Total effort | Chinook salmon | | Steelhead | |
|---|---|---|---|---|---|
| Hour | (dec hr.) | (n) | (n/hr) | (n) | (n/hr) |
| 6:00 | 0.3003 | 0 | 0.0000 | 0 | 0.0000 |
| 7:00 | 7.5291 | 24 | 3.1876 | 10 | 1.3282 |
| 8:00 | 11.5187 | 50 | 4.3408 | 18 | 1.5627 |
| 9:00 | 12.2840 | 40 | 3.2563 | 14 | 1.1397 |
| 10:00 | 10.6158 | 41 | 3.8622 | 13 | 1.2246 |
| 11:00 | 6.9600 | 39 | 5.6034 | 11 | 1.5805 |
| 12:00 | 2.5236 | 13 | 5.1513 | 4 | 1.5850 |
| 13:00 | 3.4436 | 12 | 3.4847 | 0 | 0.0000 |
| 14:00 | 4.9211 | 4 | 0.8128 | 2 | 0.4064 |
| 15:00 | 6.8199 | 19 | 2.7859 | 3 | 0.4399 |
| 16:00 | 7.4187 | 21 | 2.8307 | 7 | 0.9436 |
| 17:00 | 6.5386 | 17 | 2.5999 | 3 | 0.4588 |
| 18:00 | 6.8510 | 14 | 2.0435 | 4 | 0.5839 |
| 19:00 | 3.8720 | 11 | 2.8409 | 3 | 0.7748 |
| 20:00 | 4.3775 | 18 | 4.1119 | 4 | 0.9138 |
| 21:00 | 4.1144 | 6 | 1.4583 | 3 | 0.7291 |
| 22:00 | 5.6561 | 7 | 1.2376 | 3 | 0.5304 |
| 23:00 | 3.9464 | 4 | 1.0136 | 1 | 0.2534 |
| 0:00 | 3.4750 | 2 | 0.5755 | 2 | 0.5755 |
| 1:00 | 3.5114 | 2 | 0.5696 | 0 | 0.0000 |
| 2:00 | 1.4042 | 3 | 2.1365 | 0 | 0.0000 |
| 3:00 | 0.4433 | 0 | 0.0000 | 0 | 0.0000 |
| 4:00 | 0.0000 | 0 | ne | 0 | ne |
| 5:00 | 0.0000 | 0 | ne | 0 | ne |

[a] Blanks indicate no detector on time for the interval/date.

[b] Data shown were separated into hourly intervals beginning and ending on the half-hour, e.g., 05:31 to 06:30 interval grouped and plotted as 06:00

[c] ne = hourly interval with no detector on time during the sample period. No detection rate estimate is possible for no effort intervals compared to other intervals having sampling effort but no fish detections, a 0 detection rate.