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The Trade Wind Zone Oceanography Pilot Study Part VII: Observations of Sea Birds March 1964 to June 1965

By Warren B. King



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WARREN B. KING

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The Trade Wind Zone Oceanography Pilot Study Part VII: Observations of Sea Birds March 1964 to June 1965 ^{1/}

Ву

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ABSTRACT

Sea birds were observed by scientists of the Smithsonian Institution's Pacific Ocean Biological Survey Program on a systematic basis in the central Pacific Ocean for 15 months as part of the Trade Wind Zone Oceanography Program of the Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii. Two experienced observers alternated watches each day from sunrise to sunset. Every bird sighted was identified and logged, along with the time and location of observation, the number of birds in the sighting, and, when possible, their age, sex, plumage, molt, behavior, direction of flight, and any other information that might prove pertinent. Twenty-five birds that were captured alive were banded, and 18 birds were collected to help verify sight records of species seldom or never recorded previously in the central Pacific. In 3,561.1 hours of observation, 13,080 sightings were made of 65,707 birds along the replicate cruise track covering 34,384 nautical miles (63,610 km.)

The distribution and abundance of each of the 51 species or field-recognizable subspecies observed within the study area were treated on a monthly and seasonal basis and discussed in the light of the island of origin and breeding phenology of each species. The abundance of sea birds was examined in relation to environmental conditions to show the extent of their association. The composition, distribution, and abundance of flocks of sea birds were analyzed.

INTRODUCTION

From February 1964 through January 1966 the BCF (Bureau of Commercial Fisheries), Hawaii Area, conducted a pilot program as a precursor to a larger scale investigation of the oceanography of the Pacific Trade Wind Zone. Seventeen replicate cruises were made during this period on the BCF research vessel <u>Townsend Cromwell</u>. Each cruise lasted about 20 days and covered a fixed track of 4,460 nautical $2^{/}$ miles (8,264 km.) to the east, north, and south of the Hawaiian Islands. A report on the oceanography of the Trade Wind Zone Oceanography Program pilot study has been made elsewhere (Charnell, Au, and Seckel, 1967a-f). On 15 of the 17 cruises, scientists of the Smithsonian Institution's POBSP (Pacific Ocean Bio-

 $[\]frac{1}{Paper}$ No. 37, Pacific Ocean Biological Survey Program.

 $[\]frac{2}{Al1}$ distances and areas are given in nautical miles. One nautical mile equals 1.853 km.

logical Survey Program) made systematic sea bird observations over 34,384 miles (63,610 km.) for a total of 3,561.1 hours. This report summarizes the observations made on these cruises.

The outer perimeter of the cruise track bounds about 500,000 square miles (171.2 million ha.) of which 5,204 square miles (1.78 million ha.) are land (Hawaii, Maui, Lanai, Molokai, Kahoolawe). Figure 1 indicates the position of the nominal cruise track in the Pacific Ocean. All except two cruises started and ended at Honolulu, Hawaii; one started at Kauai and one at Maui. Cruises were made each month of the study period except August 1964 and from July to December 1965. No POBSP observer participated in the cruises of February 1964 or January 1966. Table 1 gives departure and arrival dates of the cruises on which POBSP observers were present. Cruises are referred to in the text by the month of departure.



Figure 1.--Replicate track in central Pacific Ocean followed during monthly cruises of the <u>Townsend Cromwell</u>, March 1964 to June 1965. Dots represent locations of oceanographic stations.

The study of the distribution of sea birds is an indirect but effective method for studying the distribution of fishes, since this study provides oceanographers with a visible biological link between the oceanographic phenomena, planktonic organisms, and the fishes of the sea.

Table 1.--Departure and arrival dates, and extent of observations of sea birds on TWZOP cruises of the <u>Townsend</u> <u>Cromwell</u>

Cruise number	Departure date	Arrival date	Hours of obs.	Miles of obs.
2	3/16/64	4/5/64	236.5	2,245
3	4/12/64	5/4/64	242.7	2,338
4	5/17/64	6/5/64	253.1	2,507
5	6/15/64	7/5/64	256.2	2,457
6	7/13/64	8/1/64	244.8	2,468
8	9/1/64	9/20/64	231.5	2,318
9	10/1/64	10/20/64	222.1	2,169
10	11/4/64	11/24/64	216.6	2,114
11	12/1/64	12/20/64	210.0	2,063
12	1/5/65	1/24/65	214.4	2,105
13	2/8/65	2/27/65	222.7	2,139
14	3/8/65	3/28/65	231.8	2,172
15	4/11/65	4/30/65	244.0	2,419
16	5/12/65	5/31/65	250.8	2,431
17	6/10/65	7/2/65	282.2	2,439

Methods of Observation

Observations were maintained continuously from sunrise to sunset, with at least one observer on watch at all times. The watch was held on the wings of the ship's bridge (eye level 7 m. above sea level), which permitted observations covering an arc of 270°. When wind and waves were low or running with the ship, observations were made on the bow from a height of 6 m. Although the arc of observation was wider from the bow, birds could be spotted more readily from the bridge. Bushnell^{3/} 7 x 35 extra wide angle (11° field) binoculars were used on all cruises. On 12 cruises two POBSP personnel alternated 2-hour watches; on 3 cruises during which only one POBSP observer was present, the ship's crewmember on watch spelled the observer during meal breaks. The POBSP personnel had previous observational experience in the central Pacific ranging from 72 to over 800 hours. Several members of the ship's crew learned to identify birds

 $[\]frac{3}{1}$ Trade names referred to in this publication do not imply endorsement of commercial products.

competently to species' level. Since ship's crewmembers were responsible for maintaining a bird watch of their own for BCF records, two observers were present most of the time.

Although the <u>Townsend</u> <u>Cromwell</u> followed a fixed track which prevented a close approach to most flocks, occasionally birds were collected from the bow with a shotgun.

No systematic nocturnal observations were made. One or two birds flew aboard at night during each cruise, and occasional observations in moonlight of individual birds or flocks indicated at least some nocturnal activity.

Eighteen birds of five species (table 2) were collected; these confirmed many of the sight identifications. Twenty-five birds of four species were banded with USFWS (Fish and Wildlife Service) bands (table 3). With the exception of a Black-footed Albatross banded March 17, 1965 and recovered the following day, none of these birds has been recovered.

Techniques of Data Recording

Because conditions for observation were seldom ideal, many birds were identified only to genus or family.

Observations were entered on a standardized form along with the time of observation to the

nearest minute of local time, number of birds of each species in each sighting, the direction the birds were headed, and other information pertinent to each sighting. The information included descriptions when identification was uncertain, behavior, bands or tags on birds, age, sex, presence of molt, color phase, whether or not a bird was collected, food association, unusual weather, and length of time that a bird was in sight. If an actual count was not possible, the estimated limits of accuracy were recorded. Birds that followed the ship were censused about every hour.

A sighting was defined arbitrarily as the observation of a single bird or a group of birds acting as a unit. A time was assigned to each sighting to make it distinct from other sightings. Thus, if different times were given for entries on the log, the entries were separate sightings and the birds in question were not associated. Multiple entries of the same time indicated a sighting composed of more than one bird.

On April 3, 1964 Sooty Shearwaters were encountered in such numbers that counts were recorded in 5-minute totals rather than by sightings.

For analysis, a flock was defined arbitrarily as a group of five or more birds.

Table 2.--Bird specimens collected on BCF <u>Townsend</u> <u>Cromwell</u> TWZOP cruises, March 1964 to May 1965

		USNM ¹			Loca	tion
Date	Time	number	Species	Sex	Lat. N.	Long. W.
3/29/64	0015	494233	Leach's Storm Petrel	M	11°30'	147°59'
6/18/64	0500	494193	Wedge-tailed Shearwater	F	11°53'	157°00'
7/4/64	1700	² 494194	do	F	22°52'	157°00'
7/4/64	1700	494926	Sooty Tern	F	22°52'	157°00'
7/4/64	1700	494937	Great Frigatebird	М	22°52'	157°00'
7/21/64	1335	493608	Juan Fernandez Petrel	М	22°06'	151°00'
7/22/64	1040	493610	do	М	18°51'	150°59'
7/22/64	1045	493611	do	М	18°50'	151°00'
7/22/64	1145	493612	do	F	18°40'	151°00'
7/22/64	1450	493609	do	F	18°05'	151°00'
7/22/64	1555	495247	do	F	17°53'	151°00'
11/19/64	1415	494234	Leach's Storm Petrel	М	21°27'	147°59'
11/22/64	2000	494242	do	М	24°58'	155°27'
12/6/64	0045	494235	do	?	13°30'	154°00'
1/6/65	2115	494236	do	М	17°30'	157°00'
4/17/65	1610	494237	do	M	19°48'	154°00'
4/19/65	1105	494238	do	F	22°22'	151°00'
5/24/65	1715	494228	Juan Fernandez Petrel	M	11°55'	148°00'

¹U.S. National Museum, Smithsonian Institution.

²Banded USFWS No. 615-15018.

The behavior of flocks was always noted, i.e., feeding, traveling, searching, sitting, dispersing.

The coordinates of each sighting were determined to the nearest minute on the basis of interpolations of preceding and succeeding ship's fixes or dead-reckoned positions.

The time and the location of the ship were recorded at sunrise and sunset, and the distance traveled during each day was measured on the ship's charts. These data were essential for calculation of relative density figures in terms of birds per nautical mile and birds per hour.

BCF scientists gathered environmental data concurrently with the observations of sea birds. They made bathythermograph casts every 30 miles (55.6 km.) along the cruise track and took water samples at various depths to 1,500 m. every 90 miles (166.8 km.). Climatological data were recorded at each bathythermograph cast. A more thorough standard marine weather report was made every 6 hours. Data included surface sea temperature, surface salinity, sea temperature at 10 m., wind speed, wind direction, barometric pressure, general weather description, state of seas, swell direction and period, visibility, wet and dry bulb air temperature, cloud type, and amount of cloud cover. A 25-minute surface plankton haul with a 1-m. net with 0.308-mm. terminal mesh was made every evening beginning at 2000 hours.

Storage and Analysis of Data

An ADP (automatic data processing) system was designed to store and analyze the data. Included in the system were the data pertaining to each sighting, the environmental data (both oceanographic and atmospheric) taken every 30 miles along the cruise track, and the data on the ship's positions and the duration of observations. The ADP system was described by King, Watson, and Gould (1967).

AVIFAUNA OF THE STUDY AREA

The avifauna of the area will be discussed on a general level with respect to the families of birds represented and then more specifically, first in terms of the numbers of species that were recorded seasonally, then in terms of distribution and abundance of the species in

USFWS band			Loca	tion	
number	Species	Age	Lat. N.	Long. W.	Date
757-60901	Black-footed Albatross	Adult	21°30'	157°15'	4/12/64
757-60902	do	do	21°30'	157°15'	4/12/64
757-60903	do	do	25°00'	157°00'	5/3/64
757-60904	do	do	23°30'	157°00'	6/4/64
757-60905	do	do	25°00'	154°00'	11/22/64
757-60906	do	do	25°00'	154°00'	11/22/64
757-60907	do	do	26°30'	148°00'	1/21/65
757-60908	do	do	26°30'	148°00'	1/21/65
757-60909	do	do	26°30'	148°00'	1/21/65
757-60910	do	do	19°00'	151°00'	3/17/65
757-60911	do	do	19°00'	151°00'	3/17/65
757-60912	do	do	19°00'	151°00'	3/17/65
757-60913	do	do	19°00'	151°00'	3/17/65
757-60914	do	do	19°00'	151°00'	3/17/65
757-60915	do	do	19°00'	151°00'	3/17/65
757-60916	do	do	16°00'	151°00'	3/18/65
757-60917	do	do	25°00'	151°00'	3/25/65
757-60918	do	do	25°00'	151°00'	3/25/65
757-60919	do	do	25°00'	151°00'	3/25/65
757-60920	do	do	25°00'	154°00'	3/26/65
757-60921	do	do	23°30'	157°00'	3/27/65
757-60922	Laysan Albatross	do	23°30'	157°00'	3/27/65
757-60942	Red-footed Booby	Immature	18°19'	157°00'	4/12/65
757-60943	Black-footed Albatross	Adult	23°30'	154°00'	4/18/65
757-60944	Blue-faced Booby	Subadult	13°00'	157°00'	6/13/65

Table 3.--Birds banded on BCF Townsend Cromwell TWZOP cruises, March 1964 to June 1965

relation to their breeding cycles. A monthly summary gives the temporal sequence of changes in abundance and distribution of the most important components of the avifauna.

Family Summary

Species from 12 families, the first 3 from the order Procellariiformes, the next 3 from Pelecaniformes, the next 5 from Charadriiformes, and the last 1 from Columbiformes, were recorded in the study area. All but the last are normally considered sea birds or shore birds; the last is a land-based group and the occurrence of a bird of this order at sea was accidental.

1. Diomedeidae

The albatrosses were represented by three species, Black-footed and Laysan Albatross, both of which breed during the winter on the leeward Hawaiian chain, and the Blackbrowed Albatross, a South Pacific breeder from south of New Zealand, which was tentatively identified for the first time in the area. The albatrosses were conspicuous members of the avifauna in the study area during the winter breeding season when they followed the ship readily. Although almost always restricted to the northern half of the cruise area, birds occasionally followed the ship south of lat. 18° N., and on one occasion south of lat. 11° N.

2. Procellariidae

The shearwaters and gadfly petrels were represented by 21 species or field-recognizable subspecies. One is a rare straggler from the North Pacific, six breed on the Hawaiian Islands and are absent in the nonbreeding season, seven breed in the South Pacific and winter in the study area, and seven migrate through the study area between their South Pacific breeding areas and wintering grounds north of the study area. All members of this family recorded are characterized by long migrations and by periods of abundance followed by periods of scarcity or absence. Although the shearwaters and gadfly petrels are less conspicuous than the albatrosses because they are smaller and usually do not follow ships, the family ranked second in total numbers seen and in some months ranked first.

3. Hydrobatidae

Only two species of storm petrels were identified with certainty. Leach's Storm Petrel, the most abundant, migrates south in the winter in large numbers from North Pacific breeding stations. Fork-tailed Petrel is a rare winter straggler from the North Pacific. Two others probably occur in the area, but, because of the possibility of confusion with other species, they must be considered hypothetical.

4. Phaethontidae

Tropicbirds were represented by two species, both of which were observed commonly in all months. They are attracted frequently to ships. Because of the even distribution of Red-tailed Tropicbirds, their islands of origin are in doubt. The Whitetailed Tropicbirds probably all came from the main Hawaiian islands.

5. Sulidae

The distribution of two of the three species of boobies in the study area was limited essentially to the area within 50 miles (92.7 km.) of the main Hawaiian islands. The third species occurred primarily in the southern half of the study area--a circumstance which indicates it was probably from the Line or Phoenix Islands.

6. Fregatidae

Great Frigatebirds, the only frigatebirds observed, were seen in all months, mainly within 300 miles (556 km.) of the Hawaiian Islands.

7. Charadriidae

One member of this family, the Golden Plover, was common in the fall during migration to Pacific islands from Siberia or Alaska.

8. Scolopacidae

Although all four sandpiper species observed were common on nearby Pacific islands, each was seen at sea only once.

9. Phalaropodidae

One phalarope species, probably the Red Phalarope, was seen commonly in the spring migrating north to the Arctic.

10. Stercorariidae

Two species of jaegers and one skua were recorded. The jaegers breed in the Arctic and migrate south, the skua breeds in the South Pacific and migrates north. Only the Pomarine Jaeger was observed regularly.

11. Laridae

Two or possibly three species of gulls and seven species of terns were recorded. The gulls were all stragglers from the North Pacific. One tern was a migrant on its way north to the Arctic in the spring. The islands of origin of the three species of tropical terns are in doubt, but the three species of noddy terns were observed almost entirely within 100 miles of the Hawaiian Islands. The tropical terns evidently migrate seasonally, but the noddies remain resident all year. The Sooty Tern was the most abundant species in the study area.

12. Columbidae

One Rock Dove was observed 10 miles (18.5 km.) from Oahu where the species breeds abundantly.

Diversity of Species

Forty-nine species and two field-recognizable subspecies were observed in the study area. The number recorded per month ranged from 32 (April 1965) to 17 (July 1964). The monthly average was 24.2 species. The number of species observed on any day ranged from 2 to 15 (mean 7.7). Numbers were usually highest within 50 miles (92.7 km.) of Oahu and lowest in the northeast corner of the area. Accidentals and stragglers caused the species-per-month figures to be higher, and more erratic, than the species-per-day figures.

Only a weak positive correlation existed between numbers of species and total numbers of birds per month. During migration months (April and May, October and November), when total numbers were highest, species diversity was also high (fig. 2). Species diversity was lowest during the summer (June-September), owing to the low frequency of migrants and accidentals, although numbers of birds were fairly high. The high diversity of species during the winter (December-February) compared with total numbers of birds can be accounted for by the higher incidence of accidentals at that time of year.

Species Accounts

Fifty-one species or field-recognizable subspecies were observed in the study area, and accounts have been prepared for each. The species accounts give first a general statement of the status of each species and stress the time of year that status changes occurred. The species accounts also give a tabulation of the numbers recorded on each cruise. All birds



Figure 2.--Numbers of species observed per day and per month and numbers of birds per hour in the study area, March 1964 to June 1965.

from a cruise were tallied under the month in which the cruise mainly took place, even though some may have been seen the first few days of the succeeding month. In the species accounts, and wherever else feasible, the numbers were tallied by hand from the raw data.

The totals in appendix table 2 came from the ADP system and the tables of the section "Components of abundance and distribution" are derived from the latter. There are discrepancies between these totals and the hand-tallied totals, but they are small and, I feel, do not detract appreciably from the accuracy of the text. A dash indicates no observations made; an x indicates that the species (or subspecies) was not distinguished from very similar forms during that cruise.

Relative monthly abundance is discussed in terms of known breeding locations and phenology.

A final section in the species account deals with the distribution of the species through space and time, again in relation to breeding locations and phenology. Included in this section are comments on behavior that might influence distribution, or at least the distribution of our sightings of the species.

From cruise to cruise the variation in the time of day that the ship was within 50 miles of Oahu led to fluctuations in the observed abundance of those species that occur mainly near Oahu (e.g., Red-footed Booby, Brown Noddy). Such fluctuations bore only a chance resemblance to actual fluctuations in the abundance of the species.

The following terms were used to describe relative abundance:

<u>abundant</u> - seen several times daily or in large numbers on a few days;

<u>common</u> - seen once or twice daily or in moderate numbers on a few days;

<u>uncommon</u> - seen regularly several times monthly;

 $\frac{rare}{ly}$ - seen irregularly once or twice month-

 $\frac{accidental}{study}$ - seen once or twice during the study.

The following terms were used to describe status:

<u>resident</u> - present all year or during the breeding season, breeds in main Hawaiian group; <u>visitor</u> - present during the nonbreeding season, does not breed in main Hawaiian group;

<u>migrant</u> - present only during passage to land masses or to oceanic areas distant from the study area;

<u>hypothetical</u> - occurrence in study area unconfirmed.

Black-footed Albatross <u>Diomedea</u> nigripes Audubon

<u>Status</u>: Common visitor November-May, rare or absent June-October

	Ye	ar
Months	1964	1965
January		82
February	-	92
March	66	76
April	37	26
May	20	3
June	1	2
July	0	-
August	-	-
September	0	-
October	0	-
November	40	-
December	55	-

This species, which ranges the entire North Pacific during its nonbreeding season, appeared in the <u>Townsend Cromwell</u> area on November 11, about 2 weeks after the arrival of the first birds on the leeward Hawaiian chain, the breeding grounds of the species. Numbers increased through February, when eggs were hatching on the Leewards. Thereafter, numbers declined until June, when all adults had left their breeding grounds. The last bird was seen June 12 in 1964 and June 29 in 1965. None was reported from June 30 to November 10.

Maximum numbers were seen on April 5, 1964 when 40 birds were gathered around the ship's stern about 100 miles (185.3 km.) north of Oahu, at the end of the March 1964 cruise. (These are included in the total for March 1964 above.)

Distribution: This species was most abundant at the northern end of the area. In November, it was not seen south of lat. 23° N. Thereafter its range extended southward each month until February when birds were seen as far south as lat. 10°49' N. (fig. 3a). Northward contraction



Figure 3a.--Expansion of the range of the Blackfooted Albatross in the study area. Birds were recorded at the northern end of the area all winter.

of the range began in March and continued through April and May (fig. 3b). In June only a few stragglers were left in the area.

The area covered by the species each month varied directly with the total numbers seen that month.

Birds were repeatedly seen farthest south on the third (long. 151° W.) leg of the cruise. These sightings may be explained only in part by the attraction of the ship, since birds were seldom attracted south of Oahu on the first (long. 157° W.) leg.

On only about one-half of the days in which Black-footed Albatrosses were seen was the maximum number seen at the end of the day. Generally the maximum number was seen at hydrographic stations, where the ship remained stationary for an hour. Birds that had dropped behind the ship evidently caught up with it at this time.



Figure 3b.--Contraction of the range of the Black-footed Albatross in the study area. Birds were recorded at the northern end of the area all spring.

Because this species is attracted to ships, numbers are probably more accurate for the area and monthly fluctuations in numbers probably are due less to chance than for those species that ignore or avoid the ship.

Total numbers given at the beginning of the species account are the totals of the highest numbers seen at any one time in a day. These figures are obviously lower than the actual numbers seen, since birds were certainly dropping behind and being replaced by others, but the possibility of counting any bird more than once in a day was avoided. Exceptions were made if distinction was possible on the basis of plumage differences or anatomical aberrations.

Miller (1942) recorded a marked Black-footed Albatross that followed his ship 60 miles (111.2 km.), the longest distance a Northern Hemisphere albatross has been known to follow a ship.

A bird that was banded at 1800 hours on

March 17, 1965 was recaptured at 1200 hours on March 18, 1965; it had followed the ship 18 hours and 180 miles (see table 2).

Laysan Albatross <u>Diomedea immutabilis</u> Rothschild

<u>Status</u>: Uncommon visitor February-April, rare or absent May-January.

	Year	
Months	1964	1965
January	_	0
February	-	4
March	10	11
April	3	3
May	0	0
June	0	0
July	0	-
August	-	-
September	0	-
October	0	-
November	1	-
December	0	-

Although one bird was seen on November 23, the species was not recorded regularly until after February 25, when adults on the breeding islands along the leeward Hawaiian chain were beginning to leave their chicks unattended most of the time. Numbers reached a peak in March and declined in April. The last birds of the season were seen on May 2, 1964 (at the end of the April 1964 cruise) and April 27, 1965. Adults were on the breeding islands as late as June, however.

Maximum number seen at one time was three on April 4, 1964, the last day of the March 1964 cruise.

Distribution: This species was found most frequently at the northern end of the area. As its numbers increased, its range extended southward, although greatest density was still in the north. On March 27, 1964 one bird was seen at lat. 11°30' N. and long. 151° W. Thompson (1951) recorded a Laysan Albatross from lat. 8°30' N., long. 163°35' W., 180 miles (333.5 km.) south of our record.

In April the reduction in numbers was accompanied by a contraction of range to the northern end of the study area. No bird was seen south of lat. 22° N. in April.

The general distribution was similar to that of the Black-footed Albatross, although the smaller numbers seen each month prevent as detailed an analysis. The area of greatest density, the northern edge of the study area, coincided with that of the Black-footed Albatross (fig. 4).

This species follows ships less frequently than does the Black-footed Albatross. On April 4, 1964, however, two Laysan Albatrosses followed the ship for over 11 hours, and on several occasions others followed for shorter periods. Birds that did not follow were attracted close to the ship as they passed by. Thus, the disparity between monthly totals of this species and of the Black-footed Albatross in the study area is probably real, although the former outnumbers the latter on their breeding grounds by 5 to 1 (Palmer, 1962). A breeding distribution closer to the breeding islands or north of the study area, rather than indifference to or repulsion from the ship, may explain the discrepancies in numbers.



Figure 4.--Distribution of Laysan Albatross.

Black-browed Albatross Diomedea melanophris Temminck

Status: Hypothetical, based on one sight record.

On January 23, 1965 an albatross, closely resembling a Laysan Albatross, but with a larger, yellow bill, was seen at close range at lat. 25° N., long. 156° W. by Patrick J. Gould. This species had not been previously recorded from the central Pacific Ocean, although several records exist for latitudes even farther north in the Atlantic Ocean (Palmer, 1962).

Fulmar Fulmarus glacialis (Linnaeus)

Status: Accidental.

One dark-phase Fulmar was observed at very close range for 1/2 hour on February 23, 1965 at lat. 23°30' N., long. 148° W.

Specimens of this species have been collected on several islands of the Hawaiian group (Clapp and Woodward, 1968).

Dark-rumped Petrel <u>Pterodroma phaeopygia</u> (Salvin)

<u>Status</u>: Rare, but possibly regular resident. Distinction was made between this species and \underline{P} . externa only after October 1964.

	Year	
Months	1964	1965
January	-	0
February	-	0
March	x	1
April	х	3
Мау	x	9
June	x	6
July	х	-
August	-	-
September	x	-
October	3	-
November	4	-
December	0	-

Although numbers seen in the study area were very low, a peak in May was suggested. This peak would coincide with egg dates on the breeding grounds on Maui and Hawaii (Richardson and Woodside, 1954). No birds were seen between December and February.

Scarce at sea, this species is also scarce on its known breeding grounds.

Distribution: The distribution map for the species for 9 months indicates a density center in the northwestern corner of the study area near lat. 25° N., long. 157° W. (fig. 5). Inclusion of about 10 less certain sightings does not appreciably alter the distribution picture. No indication of population movement or of marked habitat preference on a monthly basis can be inferred from this small total sample. Individuals were seen as far south as lat. 11° N., as far east as long. 148° W., and as far north as lat. 25° N. The range doubtless extends beyond the edges of the study area in all directions.



Figure 5.--Distribution of Dark-rumped Petrel.

Juan Fernandez Petrel	<u>Pterodroma externa</u>
and	<u>externa</u> (Salvin)
White-necked Petrel	<u>Pterodroma externa</u> <u>cervicalis</u> (Salvin)

<u>Status:</u> <u>P. e. externa</u> was an abundant visitor during its nonbreeding season, May-December, common or uncommon, January-April. <u>P. e.</u> <u>cervicalis</u> was probably an uncommon or rare visitor all year. No attempt was made to distinguish between these similar forms until October 1964.

P. externa total

	Year	
Months	1964	1965
January	-	51
February	-	2
March	18	40
April	20	21
May	160	277
June	210	699
July	647	-
August	-	-
September	611	-
October	1,206	-
November	301	-
December	169	-

P. e. cervicalis only

	Ye	ar
Months	1964	1965
January		
February	-	1
March	х	2
April	х	0
May	х	14
June	х	12
July	х	-
August	-	-
September	х	-
October	4	-
November	4	-
December	13	-

Both subspecies of <u>Pterodroma externa</u> were found in the study area. Even when the presence of both subspecies in the central Pacific was confirmed by the collection of specimens, it was possible to distinguish between them only under conditions favorable for observation. Frequently no assignment to subspecies was possible. Only 2 percent of all <u>P. externa ob-</u> served were assigned to <u>cervicalis</u> subspecies (largest proportion 16 percent in January 1965). The seven specimens collected in the study area were all <u>P. e. externa</u>.

Monthly fluctuation of numbers: Monthly totals from March 1964 through September 1964 included records of <u>P. e. cervicalis</u>. It is probable that a small percentage of <u>P. externa</u>, identified at a distance as <u>P. e. externa</u> (which come from Mas Afuera in the Juan Fernandez group, 500 miles west of the Chilean coast), were in reality <u>P. e. cervicalis</u> from the Kermadec Islands, 600 miles northeast of New Zealand, and, to a lesser extent, vice versa.

In February the species was represented only by a straggler or two. Numbers increased slightly in March and April, and rapidly in May. A nonbreeding season plateau was reached in July and maintained until October, when numbers reached their peak. Thereafter numbers declined rapidly each succeeding month as the birds migrated out of the study area back to the breeding grounds. The low point was reached at the same time that eggs were beginning to hatch on the breeding grounds.

Distribution: The species' distribution in the study area reflected its breeding phenology. In the months in which the species breeds in the Southern Hemisphere, P. externa was found mainly in the southeastern corner of the area (figs. 6a, 6b). During these months (February-April) not only was the range of the species in the area the most limited but numbers were also lowest. From May onward the limit of the range was pushed northwestward until September and October, when the species was found throughout the area. Its range contracted progressively in November and December. The distribution in January did not follow the same pattern: although numbers were greatly reduced from the previous month, birds were found throughout most of the area. Since the breeding season was already underway, these birds were probably nonbreeders spending at least a portion of the breeding season in their "wintering" area. January was the only month that lacked a defined center of density. In all other months greatest densities were in the southeastern portion of the area.

<u>P. e. cervicalis numbers and distribution</u>: Although data on this subspecies were incomplete, their numbers tended to parallel those of the species in general. February, March, and April were the low months for both subspecies. Owing to the small sample size, as well as the likelihood of confusion in distinguishing between the two forms of <u>P. externa</u> in the field, distributional differences cannot be determined. In general, <u>P. e. cervicalis</u> seemed to have a more northerly distribution only in December and January. In all other months the distribution of the two forms was apparently coincident.



Figure 6a.--Distribution of Juan Fernandez and White-necked Petrels, May-September 1964.

Solander's Petrel <u>Pterodroma solandri</u> (Gould)

<u>Status</u>: Hypothetical, based on several sight records.

Nine birds thought to be this species were seen in the study area: one in April 1964, seven in October 1964, and one in November 1964. The seven seen in October were all heading south, possibly migrating. The observers' lack of familiarity with the field characteristics of this species makes all identifications tentative. This species has not previously been reported from the central Pacific Ocean. Specimen records exist from the western Pacific near Japan (Kuroda, 1955), the only records at any great distance from its breeding grounds on Lord Howe Island (between Australia and New Zealand).

Tahiti Petrel orPterodroma rostrata (Peale)Phoenix PetrelPterodroma alba (Gmelin)

Status: Rare visitor.

Twelve sight records were made of either or both of these similar species; four in November 1964, one in December 1964, one in January 1965, two in March 1965, and four in June 1965.

Although no specimens of either species were taken in the study area, POBSP personnel have collected both species at comparable latitudes elsewhere in the central Pacific (Gould and King, 1967).

No particular distribution pattern was indicated by the records. Birds were seen from lat. 10° to 23° N. and from long. 148° to 157° W.

Either species could be expected to occur in the study area, but neither occurs regularly or in abundance.



Mottled Petrel <u>Pterodroma inexpectata</u> (Forster)

Status: Common spring and fall migrant.

	Ye	ar
Months	1964	1965
January	_	0
February	-	0
March	0	0
April	0	10
May	0	1
June	0	0
July	0	-
August	-	-
September	0	-
October	50	-
November	2	-
December	2	-

The Mottled Petrel first appeared on October 13, 1964. Peak numbers--22 birds--were seen on October 18, 1964. Only two were seen in November and two in December. All of these records were of birds heading south, flying in a manner that clearly suggested a direct migration. Several birds were in the company of migrating Sooty Shearwaters.

The return migration from New Zealand, where the species breeds during the Southern Hemisphere summer, was not as strong. Only 11 birds were seen, 10 in April 1965. The species was probably overlooked in 1964. POBSP has several specimen records for the central Pacific.

The distribution showed no particular pattern in the study area. Birds were seen from lat. 11° to 25° N. and from long. 148° to 157° W., indicating that they migrated along a broad front.



Figure 6b.--Distribution of Juan Fernandez and White-necked Petrels, October 1964 to January 1965.

Usually only one bird was seen at a time, and never more than two together.

The migration peaks for this species were similar to those of the Sooty Shearwater which also breeds in New Zealand.

Bonin Petrel <u>Pterodroma hypoleuca hypoleuca</u> (Salvin)

Status: Rare visitor.

	Year	
Months	1964	1965
January	_	3
February	-	0
March	х	0
April	х	1
Мау	х	1
June	х	0
July	х	-
August	-	-
September	х	-
October	3	-
November	2	-
December	3	-



Bonin Petrels were recorded from October through January and in April and May. No more than three were seen in any month. No attempt was made to separate this form from the abundant Black-winged Petrel until October 1964, and most identifications thereafter were only tentative.

The number of sightings was too small to allow an analysis of distribution, although the months in which the species was seen are those in which large numbers were on their breeding grounds in the leeward Hawaiian chain.

Most sightings were in the northwestern corner of the study area, although one tentative identification was made at lat. 14° N., long. 148° W. POBSP personnel collected a specimen at a comparable latitude (15° N.) west of the study area.

In view of the abundance of Bonin Petrels along the leeward Hawaiian chain just a few hundred miles west of the study area, it is surprising that very few individuals were seen. So little is known about the pelagic habitat requirements of this bird that theories about its distribution are speculative at best. Its pelagic range during the breeding season seems restricted to waters fairly close to its breeding grounds; its nonbreeding range is unknown. The low numbers suggest that it was merely a straggler.



Figure 7a.--Distribution of Black-winged Petrel, April-July 1964.

Black-winged Petrel <u>Pterodroma hypoleuca nigripennis</u> (Rothschild)

<u>Status</u>: Abundant visitor during nonbreeding season, May-November; uncommon or rare December-April.

	Year	
Months	1964	1965
January	-	4
February	-	0
March	4	0
April	2	1
May	69	147
June	176	130
July	116	-
August	-	-
September	92	-
October	1,033	-
November	268	-
December	19	-

Black-winged Petrel was first observed in the study area on March 17, 1964. Only an occasional bird was seen until May when numbers began to increase. Numbers were fairly stable from May through September but rose sharply in October. A decrease in November to a level somewhat higher than the May-September level was followed by a sharp reduction in December and January. No birds were seen in the 1965 season until April 24.

This bird attained its greatest density in October shortly before, or concurrent with, its reappearance on its breeding grounds on the Kermadec Islands. By the time eggs were laid (December) numbers in the study area were greatly reduced. No birds were seen in the study area from the time of hatching to fledging.

Distribution: In May birds appeared in the southeast third of the study area (figs. 7a, 7b).





In June, July, and September the entire study area was occupied, although somewhat sparsely in the northeast portion. In October and November the greatest densities were south of lat. 18° N., the southern half of the area, although no part of the area was without a few birds. By December birds left in the area were scattered but had a density center at the southern end of the area.

Data in figures 7a, 7b indicate a possible tendency for birds to enter the study area from the southeast and to exit toward the southwest. Analysis of the direction of movement from field notes bears out this suggestion.

Although no specimens of Black-winged Petrels were collected during the study, specimens taken at comparable latitudes west of the area, as well as one subsequently collected from the study area, make identifications of this bird fairly certain. Very small numbers of White-winged Petrels (see next species account), Bonin Petrels, and possibly Cook's Petrels <u>Pterodroma cookii</u> (Gray), may have been present, but they would have had little bearing on the numbers of Black-winged Petrels observed. Without doubt this form was by far the most abundant of the small <u>Pterodroma</u> in the study area.

White-winged Petrel <u>Pterodroma leucoptera</u> (Gould)

<u>Status</u>: Possibly uncommon visitor or migrant during nonbreeding season.

This species is included in the species account on the basis of the identification of at least three birds in June 1965 in the study area and the collection of specimens by POBSP personnel from comparable latitudes to the west of



Figure 7b.--Distribution of Black-winged Petrel, September-December 1964.

the study area. Owing to the similarity of this species to <u>Pterodroma hypoleuca</u>, it was probably overlooked in other months. If it migrates through the area it would probably be expected in October, November, May, and June on its way to and from its breeding grounds in the Southern Hemisphere.





Figure 8.--Distribution of Kermadec Petrel.

Kermadec Petrel <u>Pterodroma neglecta</u> (Schlegel)

Status: Rare or uncommon visitor.

	Year	
Months	1964	1965
January		16
February	-	1
March	0	0
April	0	1
May	0	3
June	0	8
July	4	-
August	-	-
September	11	-
October	4	-
November	9	-
December	9	-

This species occurred regularly but in low numbers. It was observed in all months except March, although it was least common from February through May. Light-phase birds were more plentiful than intermediate and dark-phase birds during most months. Its distribution appeared random throughout the study area (fig. 8). Several specimen records exist from comparable latitudes west of the study area (Gould and King, 1967).



Figure 9.--Distribution of Herald Petrel.

Herald Petrel <u>Pterodroma arminjoniana heraldica (Salvin)</u>

Status: Rare visito	r.
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	Year	
Months	1964	1965
January	-	2
February	-	1
March	0	0
April	0	1
May	2	0
June	0	0
July	0	-
August	-	-
September	0	-
October	4	-
November	3	-
December	6	-

This species occurred fairly regularly but never in large numbers. It was seen most consistently between October and February--peak numbers were in December. Its distribution appeared to be random (fig. 9). Birds were seen from lat. 10° to 25° N. and from long. 148° to 157° W. No density center was indicated.

Owing to possible confusion in identification between this species and the similar Kermadec Petrel, Phoenix Petrel, and Tahiti Petrel, most identifications were tentative.

POBSP personnel have collected specimens from comparable latitudes west of the study area (Gould and King, 1967).



Figure 10a.--Distribution of Bulwer's Petrel, March-June 1964.

Bulwer's Petrel Bulweria bulwerii (Jardine and Selby)

<u>Status</u>: Abundant resident during breeding season, April-September; rare or absent October-March.

Months	Year	
	1964	1965
January	_	1
February	-	1
March	6	0
April	28	96
May	178	97
June	50	94
July	58	-
August	-	-
September	11	-
October	4	-
November	4	-
December	0	-

Birds were first seen in March, but in small numbers. Numbers built to a peak in May concurrent with the beginning of egg laying along the leeward Hawaiian chain and on islets around the main Hawaiian islands. By September, when most adults and chicks were leaving the breeding grounds, pelagic numbers already had dropped considerably. After October no birds were seen in the area, with the exception of stragglers in January and February, until the beginning of the breeding season in April when numbers were large once again.

Distribution: The density center for Bulwer's Petrel in the study area was within 50 miles of the Hawaiian Islands (figs. 10a, 10b). Greatest numbers were usually seen just south of Lanai. In general the birds favored the western side of the study area.





The species entered the area from the southeast, and remained concentrated near the Hawaiian Islands during the breeding season, although it tended to extend its range during the period of peak numbers. It later withdrew from the area, again toward the southeast.

POBSP personnel have collected numerous specimens from comparable latitudes west of the study area.

Pale-footed Shearwater <u>Puffinus carneipes</u> Gould

Status: Uncommon spring and fall migrant.

Seven Pale-footed Shearwaters were identified in the study area: four in October 1964, one in December 1964, and two in April 1965. Probably others were overlooked, especially in the spring of 1964, before we realized that the species occurred in the area. The birds appeared to be migrating, usually in the company of Sooty Shearwaters. Only one of the seven sightings was made in a nonmigration month. Three of the four October birds were heading south, and both April birds were heading north. POBSP personnel have collected several specimens at comparable latitudes west of the study area.



Pink-footed Shearwater <u>Puffinus creatopus</u> Coues

Status: Accidental.

Two birds seen at close range on December 6, 1964 and one on January 16, 1965 were in all likelihood this species. The Pink-footed Shearwater may have occurred more frequently in the study area than records indicate, since its similarity to the Wedge-tailed Shearwater may have caused it to be overlooked. POBSP personnel collected one specimen just south of the study area (lat. 7° N., long. 152° W.).

Wedge-tailed Shearwater <u>Puffinus pacificus</u> (Gmelin)

<u>Status</u>: Abundant resident during breeding season, March-November; common or uncommon December-February.

Total birds

Months	Year	
	1964	1965
January		51
February	-	7
March	104	438
April	352	519
May	1,637	958
June	985	1,054
July	807	-
August	-	-
September	1,308	-
October	208	-
November	199	-
December	106	-

Dark-phase only

Months	Year	
	1964	1965
January	-	3
February	-	0
March	18	3
April	134	101
May	444	53
June	239	164
July	236	-
August	-	-
September	42	-
October	9	-
November	5	-
December	0	-

Wedge-tailed Shearwaters were in the study area all year but were scarce in winter. From the yearly low in February, numbers increased to a peak in May and June, roughly coincident with egg laying on the breeding grounds on islets of the main Hawaiian islands, and along the leeward Hawaiian chain. Numbers remained high through September (the total for September in the above table was inflated by one sighting of 700 birds a few miles from Oahu) but began to drop off in October, somewhat before chicks fledged on the breeding grounds. By February only a few stragglers remained.

At least two populations were represented in the study area; in most months a fairly sharp line of division existed between the light-phase birds of the Hawaiian group and the dark-phase birds from the southern islands (figs. 11a-d).

Distribution: A recurring density center of light-phase birds was located within 50 miles of the Hawaiian Islands during the breeding season and somewhat later (April-November). The rest of the study area, excluding the area occupied by dark-phase birds, maintained a fairly homogeneous density, bespeaking a random distribution (exception: May 1964, in which a large secondary density center developed at lat. 14° N., long. 151° W.).

The range of dark-phase birds was confined to the southern end of the area from March to May, shifting north to lat. 15° N' in June and to lat. 20° N. in July. Thereafter the range contracted back toward lat. 10° N. In all months the density center was at the southern end of the study area. The range of dark-phase birds covered the greatest area in July. We collected one dark-phase bird.

The light-phase birds represented a breeding population (one bird collected at sea July 4, 1964 at lat. 23° N., long. 157° W. had been banded in May 1964 on an islet off the coast of Oahu) and were much reduced in numbers during the nonbreeding season; the dark-phase birds represented a wintering population (fig. 12). They were most plentiful in May in the beginning of their nonbreeding season. It is not possible to indicate the island(s) of origin of the dark-phase population since several island groups would qualify if we assume a largescale migration of dark-phase birds similar to that of light-phase birds, which move at least 500 or 1,000 miles (925 or 1,850 km.) from their breeding islands.



Figure lla.--Distribution of Wedge-tailed Shearwater, March-June 1964. Lines mark the approximate separation between light-phase (open circle) and dark-phase (solid circle) birds.





Figure 11b.--Distribution of Wedge-tailed Shearwater, July-November 1964. Lines mark the approximate separation between light-phase (open circle) and dark-phase (solid circle) birds.





Figure llc.--Distribution of Wedge-tailed Shearwater, December 1964 to March 1965. Lines mark the approximate separation between light-phase (open circle) and dark-phase (solid circle) birds.




Figure lld.--Distribution of Wedge-tailed Shearwater, April-June 1965. Lines mark the approximate separation between light-phase (open circle) and dark-phase (solid circle) birds.



New Zealand Shearwater <u>Puffinus bulleri</u> Salvin

Status: Possibly rare migrant.

This species is included in the species account on the basis of three sight records--one each in March 1964, March 1965, and April 1965--all of which must be considered tentative. POBSP personnel collected one specimen at

a comparable latitude west of the study area.

Sooty Shearwater <u>Puffinus griseus</u> (Gmelin)

Status: Abundant migrant in spring and fall.

	Year	
Months	1964	1965
January	-	0
February	-	1
March	1,684	382
April	239	507
May	44	222
June	1	0
July	0	-
August	-	-
September	130	-
October	423	-
November	91	-
December	1	-

This species first appeared on March 19, 1964. The peak of the northward migration was toward the end of March. A fairly heavy movement was still underway through April, but by the end of May the species had all but disappeared from the study area. In 1965 the northward migration lasted slightly longer. Fairly large numbers were seen from March 19 through the end of May, although the greatest densities were recorded between March 19 and April 19.

The southward migration started on September 16 and ran sporadically until the end of November. The peak was in the first week of October.

Their behavior was typical of sea birds on migration. Most birds traveled singly and showed little inclination to feed or rest. In spring the most frequently observed direction of flight was northwest. In fall the direction was due south.



Figure 12.--Monthly abundance of Wedge-tailed Shearwaters: total--solid line; dark-phase--broken line.

<u>Distribution</u>: Individuals were seen from lat. 10° to 26° N. and from long. 148° to 157° W. Birds were observed migrating past Oahu at a distance of 1 mile or less. No distribution pattern was observed within the area.

POBSP personnel have collected specimens west and south of the study area.

Slender-billed Shearwater <u>Puffinus tenuirostris</u> (Temminck)

Status: Abundant migrant in fall.

	Ye	ear
Months	1964	1965
January	_	3
February	-	0
March	0	1
April	0	0
May	0	0
June	0	0
July	0	-
August	-	-
September	0	-
October	0	-
November	871	-
December	15	-

Slender-billed Shearwaters were first seen on November 9, 1964. They were migrating south, usually in flocks of 5 to 40 birds. The migration peak was short and well-defined; it began on November 9 and was completed on November 13. Over 96 percent of the birds seen in the area were recorded on these 5 days. Thereafter only stragglers were observed.

This species was difficult to distinguish from the similar Sooty Shearwater when only small numbers of one or both species were present. Thus, although a few of each species may have been identified as the other, the totals in the monthly abundance table for this species would not be altered significantly.

Owing to the short duration of the migration, a distribution analysis would have little meaning. A second migration wave may well have occurred when the ship was in port between cruises.

If a northward migration had taken place through the area in the spring we would have seen more than one bird, even if there had been a peak of migration as sharp as the fall peak.

POBSP personnel have collected specimens at comparable latitudes west of the study area.

Christmas Shearwater Puffinus nativitatis Streets

Status: Uncommon resident.

	Year	
Months	1964	1965
January	-	0
February	-	2
March	1	1
April	1	4
May	2	0
June	0	0
July	2	-
August	-	-
September	6	-
October	0	-
November	3	-
December	1	-

Christmas Shearwaters were evidently present in the area in most, perhaps all, months of the study. The low numbers observed prevent any precise placement of population peaks.

Distribution: The fact that no Christmas Shearwaters were seen between long. 17° and 21° N. (fig. 13) may be due to chance. It might also be explained by the presence in the study area of two populations of this species--one northern, presumably breeding along the leeward Hawaiian chain, and the other southern, presumably breeding in the Line or Phoenix groups or elsewhere to the south.

No birds were seen in the northern half of the area in January, February, or March, although birds first appear on their breeding grounds in the leeward Hawaiian chain in early March (Richardson, 1957).



Figure 13.--Distribution of Christmas Shearwater.



Figure 14a.--Distribution of Newell's Shearwater, March-June 1964.

Newell's Shearwater <u>Puffinus puffinus newelli</u> Henshaw

<u>Status</u>: Common resident during breeding season in March-September; uncommon October-February.

	Year	
Months	1964	1965
January	_	3
February	-	1
March	13	0
April	12	26
May	66	49
June	15	23
July	21	-
August	-	-
September	23	-
October	7	-
November	4	-
December	4	-

Newell's Shearwater was first observed in the study area on March 16, 1964, and was seen regularly each month thereafter except March 1965. Peak numbers were in May of both years. From June through September numbers were lower but nearly constant. A decline that began in October reached a low point in February and the first half of March when the species was nearly absent from the area.

Distribution: Two density centers were noted for this species: one within 200 miles of the Hawaiian Islands, especially north of Oahu, and one at the southern end of the study area below lat. 14° N. (figs. 14a, 14b). Relatively few sightings were made in the area between lat. 14° and 19° N.

In March and April, when the species was evidently heading toward its breeding grounds in the Hawaiian Islands from its wintering area



which is not known, birds were seen in a broad diagonal band from the southeast corner of the study area to the Hawaiian Islands. With the beginning of egg laying in May most birds were either fairly close to the Hawaiian Islands or at the southern end of the area. This distribution pattern prevailed through October, when most chicks were fledged, to January, although after October numbers were greatly reduced.

POBSP personnel have collected specimens south and west of the study area.

Fork-tailed Petrel Oceanodroma <u>furcata</u> (Gmelin)

Status: Rare winter visitor.

The species account is based on four sight records--three from November 1964 and one from December 1964. All were at the northern end of the study area. This species was previously unrecorded in the central Pacific Ocean.



Figure 14b.--Distribution of Newell's Shearwater, July-November 1964.



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Figure 15a.--Distribution of Leach's Storm Petrel, September 1964 to January 1965.

Leach's Storm Petrel Oceanodroma leucorhoa (Vieillot)

<u>Status</u>: Abundant visitor during nonbreeding season, September-May; uncommon June-July.

	Year	
Months	1964	1965
January	-	81
February	-	83
March	59	81
April	129	297
May	64	32
June	7	1
July	2	-
August	-	-
September	21	-
October	44	-
November	96	-
December	53	-

Upon completion of the breeding season on islands in the North Pacific Ocean in September, Leach's Storm Petrels increased in abundance in the study area. The plateau maintained from November through March indicated that the winter population in the area was nearly constant. Numbers increased in April to a peak as birds began to head north to their breeding grounds. The increase was probably the result of birds entering the study area from the south while local birds were still present. In May numbers decreased, and by June almost all birds had returned to their breeding area.

Distribution: No density centers can be demonstrated for this species (figs. 15a, 15b). We collected seven specimens. POBSP personnel have collected many others south and west of the area. A very small number of the birds



identified as Leach's Storm Petrel or species of storm petrel may actually have been Harcourt's Storm Petrel, which breeds in small numbers in the main Hawaiian islands. POBSP personnel have collected three specimens of the latter species southwest of the study area.



Figure 15b.--Distribution of Leach's Storm Petrel, February-May 1965.



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Figure 16.--Distribution of White-tailed Tropicbird.

White-tailed Tropicbird Phaethon lepturus Daudin

Status:	Common	resident.

Months	Year	
	1964	1965
January	-	9
February	-	10
March	2	1
April	4	8
May	24	14
June	7	23
July	11	-
August	-	-
September	9	-
October	2	-
November	9	-
December	17	-

This species was present in small numbers every month of the year. A prolonged breeding season, such as that of the birds in the Hawaiian Islands, would account for the relative regularity of sightings.

Distribution: Birds were frequently observed near the main Hawaiian islands (fig. 16). Otherwise, distribution was random throughout the study area north of lat. 15° N. The southern third of the area accounted for only 15 birds (10 percent), even though roughly one-third of the observation time was spent there. All birds recorded south of lat. 15° N. were seen between February and June.

Red-tailed Tropicbird Phaethon rubricauda Boddaert

Status: Common resident.

	Year	
Months	1964	1965
January	_	8
February	-	3
March	20	13
April	7	19
May	25	13
June	15	34
July	22	-
August	-	-
September	26	-
October	38	-
November	14	-
December	6	-

The numbers of Red-tailed Tropicbirds were nearly constant from March 1964 through November 1964; they decreased in December, and remained low in January and February. Numbers increased again in March 1965 and remained at the higher level until the end of the study.

The breeding season begins in late February, and chicks are fledged by November on both the leeward Hawaiian chain and the Phoenix and Line groups. The population at these breeding sites is smallest December through February. Since fewer birds were seen at sea during these 3 months than during the rest of the year, a postbreeding dispersal out of the study area is indicated.

<u>Distribution</u>: Red-tailed Tropicbirds were distributed evenly throughout the study area in all months (fig. 17).



Figure 17.--Distribution of Red-tailed Tropicbird.

Blue-faced Booby Sula dactylatra Lesson

<u>Status</u>: Uncommon visitor January-June; absent July-December.

	Year	
Months	1964	1965
January	-	3
February	-	4
March	5	3
April	4	5
May	9	5
June	1	6
July	0	-
August	-	-
September	0	-
October	0	-
November	0	-
December	0	-



Figure 18.--Distribution of Blue-faced Booby.

Blue-faced Boobies were observed in small numbers every month from January through June. The species was apparently absent from the area from July through December. It was not possible to determine a population peak because of the small sample size.

<u>Distribution</u>: Only 6 of 45 Blue-faced Boobies were found north of lat. 15° N. (fig. 18). Probably three seen 200 miles north of Oahu were from the leeward Hawaiian chain and the rest were from the Line Islands.

Every bird observed had immature or subadult plumage except one that appeared to have adult plumage.



Figure 19.--Distribution of Brown Booby.

Brown Booby Sula leucogaster Boddaert

Status: Locally common resident.

	Year	
Months	1964	1965
January	_	8
February	-	12
March	0	12
April	4	5
May	2	5
June	1	2
July	2	-
August	-	-
September	8	-
October	18	-
November	1	-
December	1	-

The number of Brown Boobies recorded in any given month depended more on the number of hours of observation within 50 miles of Oahu than on the relative seasonal abundance of the bird. It is present year round on its breeding grounds, the nearest of which to the study area is Moku Manu, offshore Oahu (Richardson and Fisher, 1950); no determination of population peaks in the study area was possible.

Distribution: As can clearly be seen in figure 19, Brown Boobies tended to stay very close to their breeding grounds. Of 81 birds observed, all but 7 were within 50 miles of Oahu. The other seven were scattered throughout the southern third of the area. Birds were seen away from Oahu only in October 1964 and February and March 1965.

Red-footed Booby Sula sula Linnaeus

Status: Locally abundant resident.

	Year	
Months	1964	1965
January		22
February	-	106
March	10	114
April	71	46
May	108	114
June	6	221
July	17	-
August	-	-
September	68	-
October	79	-
November	24	-
December	77	-

Since monthly fluctuations in recorded numbers of Red-footed Boobies in the study area probably reflected the number of hours of daylight, and hence of observations, near Oahu (where the species breeds), rather than actual seasonal increases and decreases, I did not attempt to determine population peaks.

Distribution: Only 22 of 1,082 Red-footed Boobies (1.9 percent) were found more than 50 miles from Oahu (fig. 20). Of these 22, 11 were immatures and 4 were adults (no age data for 7). All four adults were seen north of Oahu. The immature birds were spread at random through the area. Most birds seen near Oahu were adults.



Figure 20.--Distribution of Red-footed Booby.

Great Frigatebird <u>Fregata minor</u> (Gmelin)

Status: Common resident.

	Year	
Months	1964	1965
January	-	19
February	-	15
March	4	19
April	2	26
May	11	48
June	6	62
July	14	-
August	-	-
September	19	-
October	28	-
November	22	-
December	9	-

No identifiable trends in monthly fluctuations of numbers of this species can be found on the basis of available data. No reason can be given for the apparent increase in numbers from March through June 1965 and the absence of such an increase in the same months of 1964.

<u>Distribution</u>: Densities were greatest within 50 miles from land and decreased gradually in direct relation to distance from land. Individuals were observed up to 700 miles from land.

Although the range of the Great Frigatebird undoubtedly exceeds the limits of the study area in all directions, only 9 of 304 birds (3.0 percent) were seen south of lat. 15° N., and only 47 (15.5 percent) were seen in the southern half of the area (south of lat. 18° N.).

One specimen, an adult male, was collected 75 miles north of Oahu on July 4, 1964.

The Lesser Frigatebird <u>Fregata</u> ariel was not identified in the area but probably occurs there occasionally. POBSP personnel have identified Lesser Frigatebirds at sea as far north as lat. 18° N., just west of the study area.

Golden Plover Pluvialis dominica (Mueller)

Status: Common fall migrant.

	Year					
Months	1964	1965				
January	_	0				
February	-	0				
March	0	0				
April	0	0				
May	0	0				
June	0	0				
July	1	-				
August	-	-				
September	4	-				
October	159	-				
November	0	-				
December	0	-				

Golden Plover was seen abundantly only in October 1964, at the height of its migration south from Siberia to the islands of the central and South Pacific Ocean. Evidence of a return migration in the spring was completely lacking.

Peak numbers were seen a month after the birds became plentiful on the main Hawaiian islands. The species arrives from the north in August and September (Munro, 1960). Ruddy Turnstone Arenaria interpres (Linnaeus)

Status: Rare migrant.

Only one Ruddy Turnstone was observed, about 250 miles south of Oahu on October 30, 1964, heading south. Either the ship was in port during a migration wave in the study area or the species is less frequently observed in the study area than it is farther west where it has been noted by POBSP personnel.

Bristle~thighed Curlew Numenius tahitiensis (Gmelin)

Status: Accidental.

One bird was observed on February 9, 1965 at lat. 17°30' N., long. 156°59' W. It called twice and continued on its southeasterly course.

Wandering Tattler Heteroscelus incanum (Gmelin)

Status: Accidental.

One bird was observed on May 29, 1965 at lat. 25° N., long. $152^{\circ}30'$ W. It circled the ship twice and headed south.

Sanderling Crocethia alba (Pallas)

Status: Accidental.

On November 8, 1964 at lat. 11°30' N., long. 154° W., a Sanderling circled the ship many times before departing in an undetermined direction.

[Red] Phalarope <u>Phalaropus fulicarius</u> (Linnaeus)

Status: Common spring migrant.

	Year						
Months	1964	1965					
January	_	0					
February	-	8					
March	29	53					
April	9	4					
May	0	0					
June	0	0					
July	0	-					
August	-	-					
September	0	-					
October	0	-					
November	0	-					
December	0	-					

Phalaropes--presumably Red Phalaropes-reached peak numbers in their northward migration in March of both years, although a few birds were seen in February and April as well.

<u>Distribution</u>: Only 9 of 103 phalaropes (8.7 percent) were observed along the long. 157° W. leg; the other 94 birds were evenly distributed along the other three longitudinal legs.

It is likely that the main spring migration path of this bird lies to the east of the Hawaiian Islands. This contention is supported by the relatively low number of sightings west of the study area by POBSP personnel.

Pomarine Jaeger <u>Stercorarius pomarinus</u> (Temminck)

<u>Status</u>: Common winter visitor December-April; uncommon to rare May-November.

	Year						
Months	1964	1965					
January	_	15					
February	-	3					
March	22	13					
April	14	60					
May	2	4					
June	2	1					
July	0	-					
August	-	-					
September	3?	-					
October	0	-					
November	5	-					
December	20	-					



Figure 21.--Distribution of Pomarine Jaeger, spring migration months and winter months.

During the summer and fall (May-October) Pomarine Jaegers were nearly or completely absent from the study area (identification of the three birds recorded in September was not certain). They began to appear in the area in November, after their breeding season in Alaska and Siberia. Numbers increased in December and remained constant until March, except for a possible decline in February. Monthly fluctuations in numbers of this species, especially during the winter (December-March), were as much a reflection of the short period of observation in the bird's area of greatest density (usually 2 half days per month, sometimes less) as of actual increases or decreases in population. The high total for April 1965 was probably the result of the presence in the area of migrants from the south and Hawaiian Islandsbased birds at the same time. By May most birds had already begun their northward migration.

Distribution: This species exhibits two distribution patterns (fig. 21). During the winter nearly all the birds (42 of 43) were within 50 miles of the Hawaiian Islands. In the months of northbound migration (April-May) they were still concentrated around the Hawaiian Islands, but slightly more than half (47 of 91) were seen farther than 50 miles from land. Observations on the long. 148° W. leg accounted for fewest of these migrants (only 2 of 47).

Either the birds returned from their breeding areas during the period the ship was in port, or a different route was used.



Figure 22a.--Distribution of Sooty Tern, March-June 1964.

[Long-tailed] Jaeger Stercorarius longicaudus Vieillot

Status: Rare spring and fall migrant.

Four small jaegers, in all likelihood Longtailed Jaegers, were seen, two each in April and May 1965.

Many of the 15 jaegers observed but not identified to species were probably Long-tailed Jaegers. Ten of these were seen in April 1965, two in September 1964, and three in October 1964.

This species occurs in the study area only as a migrant. The observations from April and May were probably of birds migrating northward through the study area to their breeding grounds in Alaska or Siberia from an unknown wintering area, presumably in the Southern Hemisphere. The observations from September and October may well indicate a return migration through the area.

Although four specimens taken by POBSP personnel south and west of the study area were of this species, some of the observations of small jaegers not identified to species may have been of Parasitic Jaegers. The latter species has not yet been collected in the central Pacific Ocean.





Skua <u>Catharacta</u> skua Bruennich

Status: Rare visitor or migrant.

	Year						
Months	1964	1965					
January	-	0					
February	-	0					
March	0	0					
April	0	0					
May	2	1					
June	1	0					
July	0	-					
August	-	-					
September	1						
October	3	-					
November	0	-					
December	0	-					

This species appeared during months when other species were migrating; however, so few were seen that no conclusive evidence of migration can be given.

Presumably the birds recorded in the area were Southern Hemisphere breeders and not North Atlantic breeders that traveled across the continent.

No specimen exists for the central Pacific, although POBSP has one specimen from lat. 45° N., long. 173° E.

Two color phases were noted--one a lighter brown than the other.



Figure 22b.--Distribution of Sooty Tern, July-November 1964.

[Glaucous-winged] Gull Larus glaucescens Naumann

Status: Accidental.

One bird thought to be this species was observed on October 19, 1964 at lat. 24°45' N., long. 157° W., about 300 miles north of Oahu.

Three additional gulls of undetermined species were seen as the ship left Oahu on the first day of both the December 1964 and January 1965 cruises. Unidentified gulls were also seen on March 22, 1964 near Hawaii and on April 22, 1965 at the southeastern corner of the area.

Gulls are evidently least likely to be observed during the summer (April-September).

[Arctic] Tern <u>Sterna paradisaea</u> Pontoppidan

Status: Common spring migrant.

	Year					
Months	1964	1965				
January	-	0				
February	-	0				
March	-	0				
April	12	27				
May	0	6				
June	0	0				
July	0	-				
August	-	-				
September	0	-				
October	0	-				
November	0	-				
December	0	-				



Arctic Terns or possibly Common Terns <u>Sterna hirundo</u> Linnaeus were first observed in the study area on April 23, 1964. None was seen after May 2, 1964 until the spring of 1965. The 1965 migration ran from April 21 to May 30, considerably longer than the 1964 migration.

All birds seen in both years were heading north. No return migration was noted.

Although the sighting of as many birds along the 157° W. leg as along the other three indicates a fairly equal migratory movement across the entire width of the study area, the smaller number of sightings of this species west of the area by POBSP personnel indicates that the western margin of the area may define the western limit of its migration route.

POBSP personnel have collected specimens of S. paradisaea west of the area.

Sooty Tern <u>Sterna fuscata</u> Linnaeus

Status: Abundant resident.

	Year						
Months	1964	1965					
January		2,354					
February	-	1,796					
March	1,261	2,395					
April	1,633	1,655					
May	3,117	5,020					
June	2,413	2,557					
July	2,555	-					
August	-	-					
September	589	-					
October	2,334	_					
November	557						
December	566	-					



Figure 22c.--Distribution of Sooty Tern, December 1964 to March 1965.

Sooty Terns were present in large numbers every month of the year (figs. 22a-d). The pattern of distribution is somewhat clarified if the birds are divided into two groups, one with a southerly distribution and a density center usually at the southeast corner, and the other with a northerly distribution and a density center within 50 miles of the Hawaiian Islands. If the division is made along lat. 16° N., which roughly corresponds to the line of least density between the two density centers, figure 23 expresses monthly abundance of the two groups. They may be separate populations or different age groups of the same populations. The peaks and declines in abundance of the two groups were clearly out of phase with each other.

The abundance pattern of the northern population appeared to be directly related to the breeding cycle of the Sooty Terns on islets off Oahu. In general, the northern half of the study area had large numbers when breeding was underway. At the conclusion of the breeding cycle the Sooty Terns left the islets and the pelagic area around them. Numbers remained low from September through December but increased again in January and remained high until June, when the study ended.

The abundance changes in the southern half of the study area were less clear-cut, perhaps because the birds that constitute a large part of the population may come from the Line Islands, where breeding cycles are on a 6-month schedule (Ashmole, 1963). A peak occurred in May 1964, followed 5 months later by one in October. A subsequent decline was followed by two lesser peaks in January and April 1965. In May 1965 numbers in the southern half were at a record low, in contrast to May 1964. Although the data indicate some cycle other than an annual one, it is not possible to ascribe a 6-month cycle to





the population, since peaks seem to come more frequently.

In general, Sooty Terns preferred the northwestern and southeastern corners of the area. The northeastern corner consistently had the lowest densities. In addition to the primary density centers around Oahu and in the southeastern corner, secondary centers appeared in most months, although not consistently.

Because of the tendency of this species to flock in large numbers, considerable differences in total numbers for any month could result from the oversight of one or two large flocks, and monthly trends in abundance could be altered somewhat.

We collected one specimen on July 4, 1964 about 75 miles north of Oahu. Gray-backed Tern <u>Sterna lunata</u> Peale

Status: Rare resident?

On June 5, 1964 two Gray-backed Terns were observed within 10 miles of Oahu. This species breeds in very small numbers on Moku Manu off Oahu (Richardson and Fisher, 1950). The two birds observed were heading for their breeding islets.

This species undoubtedly occurred in very small numbers with fair regularity, usually close to land, but was not observed more frequently because of the small size of the breeding population.



Figure 22d.--Distribution of Sooty Tern, April-June 1965.

Blue-gray Noddy <u>Procelsterna</u> cerulea (Bennett)

Status: Accidental.

On April 11, 1965 one Blue-gray Noddy and possibly two more were observed just south of Kauai, less than 50 miles from Kaula Rock where the species is presumed to breed (Caum, 1936). The regular occurrence of this species in the study area is considered unlikely; birds may stray there occasionally.

Brown Noddy Anous stolidus (Linnaeus)

Status: Abundant local resident.

	Year						
Months	1964	1965					
January	-	73					
February	-	167					
March	4	177					
April	165	420					
May	304	1,516					
June	23	55					
July	308	-					
August	-	-					
September	476	-					
October	138	-					
November	2	-					
December	109	-					



Sightings varied more with time of day and length of time the ship spent near Oahu, where the species breeds or roosts year round, than with actual variation in the size of population.

The lower numbers observed between October and March may have been the result of a reduction in population in the area during the nonbreeding season.

<u>Distribution</u>: Only 1.7 percent (66 of 3,937) of all Brown Noddies observed were more than 50 miles from land. No bird was seen farther than 300 miles from land. Black Noddy Anous tenuirostris (Temminck)

Status: Abundant local resident.

	Year					
Months	1964	1965				
January	-	6				
February	-	0				
March	1	0				
April	420	0				
May	7	0				
June	0	0				
July	0	-				
August	-	-				
September	0	-				
October	0	-				
November	0	-				
December	1	-				

The large numbers of Black Noddies recorded in April 1964 were 10 miles from the island of Hawaii, along the precipitous shores of which this species breeds in fair numbers. Only one bird, in December 1964, was found farther than 50 miles from land.

White Tern Gygis alba (Sparrman)

Status: Common resident.

	Year						
Months	1964	1965					
January	_	23					
February	-	18					
larch	7	23					
April	0	24					
lay	7	13					
lune	18	22					
July	23	-					
August	-	-					
September	2	-					
October	23	-					
November	16	-					
December	8	-					

No indication of a population peak can be determined from monthly fluctuations in numbers. The population of White Terns in the area was believed to be nearly constant from month to month. The fact that no bird was seen in April 1964 was probably attributable as much to chance as to an actual population decrease.



Figure 23.--Monthly abundance of northern and southern populations of Sooty Terns.

Distribution: Although the distribution in any given month appeared to be random, a tendency to favor certain parts of the area and to avoid others became apparent when White Tern sightings on all 15 cruises were plotted together (fig. 24). Density centers were noted between 50 and 100 miles east and southwest of Hawaii. The northeastern portion of the study area was avoided rather consistently.

Rock Dove <u>Co</u>lumba livia Gmelin

Status: Accidental.

On May 4, 1964 a lone Rock Dove circled the ship twice 10 miles north of Oahu, where the species is abundant.

Monthly Summary

<u>March 1964</u>

Sooty Shearwaters, migrating north for the summer, were the most numerous species in March. Sooty Terns were the second most abundant, concentrating north of Oahu where their breeding season was getting underway. These two species accounted for 83.1 percent of all birds seen. Wedge-tailed Shearwaters had not yet entered the study area in large numbers. Black-footed Albatrosses were still present in fair numbers near their breeding islands in the leeward Hawaiian chain. Numbers of Leach's Storm Petrels were still at their winter level before the spring buildup.

April 1964

Total density remained relatively unchanged. Migration of Sooty Shearwaters had slowed down considerably although fair numbers were still seen each day. Sooty Terns predominated, especially within 100 miles of their breeding islets off Oahu. Wedge-tailed Shearwaters increased as their breeding season began in the Hawaiian Islands. Leach's Storm Petrels attained peak numbers this month as they began their northward movement to their breeding grounds in the Aleutians. Albatrosses declined, and their range retracted northward.



Figure 24.--Distribution of White Tern.

May 1964

Density of birds was high because large numbers of breeding Sooty Terns and Wedgetailed Shearwaters were in the area. Both were at their annual peak during this month. In addition, Newell's Shearwaters and Bulwer's Petrels were most abundant in May, but albatross numbers declined still further and Leach's Storm Petrels and Sooty Shearwaters had nearly finished their northward movement through the area. Increasing numbers of Juan Fernandez Petrels and Black-winged Petrels began to appear in the area as their breeding seasons drew to a close in the Southern Hemisphere. Two density centers were evident: one within 100 miles of Oahu made up mainly of Sooty Terns and light-phase Wedge-tailed Shearwaters, and one in the southeast corner of the area composed of Sooty Terns, darkphase Wedge-tailed Shearwaters from areas south of the study area, and the newly appeared Juan Fernandez Petrels and Black-winged Petrels.

<u>June 1964</u>

Sooty Terns and Wedge-tailed Shearwaters predominated as in May, although their numbers decreased somewhat. Migrants were absent entirely, as were albatrosses, but the Southern Hemisphere visitors--Juan Fernandez Petrels and Black-winged Petrels--increased somewhat and moved farther north into the study area. Two density centers prevailed again, the one around Oahu mainly of breeding birds, the southern one of Sooty Terns, darkphase Wedge-tailed Shearwaters, and the southern petrels.

July 1964

Total density remained unchanged from June. Again, Sooty Terns and Wedge-tailed Shearwaters predominated, the dark-phase birds of the latter attaining their farthest northward range, the southern end of the main Hawaiian islands. Similarly, Juan Fernandez Petrels and Black-winged Petrels moved farther north. The former increased considerably in numbers and was found everywhere except in the northwest corner of the area.

September 1964

Total density was slightly reduced from July. Data are not available for August but I assume that density for that month did not differ appreciably from the months before and after. The Wedge-tailed Shearwater was the most abundant species in September as the birds that bred around Oahu gathered before migrating out of the area. Sooty Terns had already completed their breeding season and were represented by fewer birds, all in the southern half of the study area. Sooty Shearwaters appeared on their southward migration, although not yet in peak numbers. Juan Fernandez Petrels and Black-winged Petrels maintained fairly high numbers and were found throughout the area, although their greatest concentration was still at the southern end.

October 1964

Total density increased in October to a fall peak as several species reached peak numbers. Juan Fernandez Petrels and Black-winged Petrels were both abundant, especially in the southern end of the area, as numbers built up just before the southward migrations to the breeding islands. Sooty Terns were the most abundant species as usual. Few were seen near Oahu this month; almost all were in the southern half of the area. Sooty Shearwaters moved through the area in the highest numbers seen during the fall migration, although these were lower by half than those observed in the spring migration. Small numbers of migrant Mottled Petrels were noted as well. A small population of light-phase Wedge-tailed Shearwaters still remained near Oahu, but the range of the darkphase birds continued to contract southwards. Only a few of the latter were seen at the southeastern corner.

November 1964

Total density dropped considerably from October, owing mainly to large decreases in Juan Fernandez and Black-winged Petrels (although the northern limits of their ranges remained unchanged). Wedge-tailed Shearwaters remained unchanged in abundance and distribution. Slender-billed Shearwaters appeared for the first time, and their short migration peak accounted for 32.5 percent of the birds seen. Black-footed Albatrosses reappeared, and Leach's Storm Petrels attained their normal winter abundance.

December 1964

December was the month of lowest avian density in the study area. All major species, i.e., Wedge-tailed Shearwater, Juan Fernandez Petrel, Black-winged Petrel, and Sooty Tern, were reduced in numbers. The southward migration of Sooty and Slender-billed Shearwaters had all but ended. Only albatrosses and Leach's Storm Petrel remained in large numbers, but their relatively small populations in the study area played a minor role in determining total density.

January 1965

Total density increased over the low December figure. Sooty Terns accounted for 79.5 percent of the total population in the area, as large flocks were seen once more near Oahu at the beginning of their breeding season there. Wedge-tailed Shearwaters and Juan Fernandez Petrels decreased in abundance. Black-footed Albatrosses and Leach's Storm Petrels maintained their numbers.

February 1965

The total density remained nearly constant. Sooty Terns accounted for the greatest part of the total population (73.5 percent). Large concentrations of this species were found around Oahu and at the southeastern corner of the study area. Wedge-tailed Shearwaters and Juan Fernandez Petrels were rare.

March 1965

The total density of birds increased as Sooty Terns became very abundant around Oahu. They were much less abundant in the southern end of the study area than in previous months. Wedgetailed Shearwaters reappeared around Oahu. Sooty Shearwaters began their northward migration, although not in peak numbers. Blackfooted Albatrosses and Leach's Storm Petrels maintained constant populations.

April 1965

No change occurred in total density. Sooty Terns declined somewhat and were spread more evenly between Oahu and the southeastern corner than in March. The increase in the numbers of Wedge-tailed Shearwaters was mainly the result of the penetration of darkphase birds into the southern end of the area. Numbers of Black-footed Albatross dropped as its breeding cycle drew to a close. Leach's Storm Petrels rose sharply in abundance before the northward migration to breeding glounds. Sooty Shearwaters rose to maximum migration numbers. The migration peak in 1965 was less pronounced and somewhat later than in 1964. Bulwer's Petrels reappeared in the area after several months' absence.

May 1965

The highest general density of the study was recorded in May 1965--mostly because of the very large numbers of Sooty Terns observed north of Oahu. In addition, numbers of Wedgetailed Shearwaters increased in the Oahu area. The Sooty Shearwater migration ran its final month. Juan Fernandez Petrels and Blackwinged Petrels reappeared in fair numbers at the southern end of the study area. Blackfooted Albatrosses and Leach's Storm Petrels declined in numbers in the study area as they headed north for the summer. Several large flocks of Brown Noddies were seen just north of Oahu.

	1964							1965							
Species	Mar.	Apr.	Мау	June	July	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Black-footed Albatross	1.0	0.5	0.1	0.1	0.0	0.0	0.0	0.4	1.3	2.3	1.8	0.6	0.3	0.1	0.1
Laysan Albatross	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0
Wedge-tailed Shearwater	0.4	1.4	6.4	4.2	3.2	5.6	0.9	0.9	0.5	0.2	0.1	1.8	2.1	3.4	3.7
Sooty Shearwater	7.0	0.9	0.1	0.1	0.0	0.5	1.9	0.4	0.1	0.0	0.1	1.6	2.0	0.9	0.0
Slender-billed Shearwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0
Christmas Shearwater	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0
Newell's Shearwater	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1
Dark-rumped Petrel	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1
Juan Fernandez Petrel	0.1	0.1	0.5	0.7	2.4	1.8	5.4	1.3	0.7	0.2	0.1	0.1	0.1	1.0	2.4
White-necked Petrel	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
Mottled Petrel	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0
Black-winged Petrel	0.1	0.1	0.2	0.6	0.4	0.3	4.6	1.2	0.1	0.1	0.0	0.0	0.1	0.5	0.4
Kermadec Petrel	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1
Bulwer's Petrel	0.1	0.1	0.7	0.1	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.3	0.3	0.3
Leach's Storm Petrel	0.2	0.5	0.2	0.1	0.1	0.1	0.2	0.4	0.2	0.3	0.3	0.3	1.2	0.1	0.1
Red-tailed Tropicbird	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
White-tailed Tropicbird	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Blue-faced Booby	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Red-footed Booby	0.1	0.2	0.4	0.1	0.1	0.2	0.3	0.1	0.3	0.1	0.4	0.4	0.1	0.3	0.7
Brown Booby	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Great Frigatebird	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Pomarine Jaeger	0.1	0.1	0.1		0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.2	0.1	0.1
Sooty Tern	5.3	6.7	12.3		10.4	2.5	10.0	2.5	2.7	9.6	8.0	10.0	6.4	19.9	8.7
Brown Noddy	0.1	0.6	1.2	0.1	1.2	2.0	0.6	0.1	0.5	0.3	0.7	0.7	1.7	5.5	0.1
Black Noddy	0.0	1.7	0.1	0.0		0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
White Tern	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Table 4.--Number of sea birds of different species seen per hour in theTownsendCromwellTWZOPstudy area, March 1964 to June 1965



Figure 25.--Monthly abundance of species groups in birds per hour of observation.

June 1965

Although total density decreased considerably from May 1965, it still was higher than in June 1964. Sooty Terns and Wedge-tailed Shearwaters accounted for 64.6 percent of the total population. Most of these species were in the high-density center around Oahu, although numbers of dark-phase Wedge-tailed Shearwaters were seen at the southeastern corner. Numbers of Juan Fernandez Petrels increased considerably over May 1965 and were far ahead of their total in June 1964. Black-winged Petrels remained constant. No migrants were reported.

Table 4 and figure 25 show the monthly abundance of species or species groups in the study area in terms of birds per hour of observation.

COMPONENTS OF ABUNDANCE AND DISTRIBUTION

The abundance and distribution of sea birds at sea are governed by the interplay of an unknown number of environmental factors. Investigation of the relative abundance and distribution of species under several environmental conditions at one time is beyond the scope of the present work; however, it may prove fruitful to document the abundance and distribution of each species relative to a single environmental variable. Such treatment may suggest meaningful relations involving several variables that can be subjected to more analytical scrutiny at a later date. I have chosen to examine the following categories: the islands of origin of sea birds in the study area and the ways in which sea birds utilize the area; the abundance of various species relative to distance from nearest land; the abundance of various species in different portions of the study area; the direction of flight of various species; the daily cycles of activity; the abundance of species relative to five climatic parameters; and the participation of various species in flocks.

Islands of Origin of Sea Birds Recorded in the Study Area and Modes of Utilization of the Area

The avifauna of the study area is a composite of birds that breed throughout the Pacific Ocean. Several species breed in only one known locality and leave no doubt about their provenance; however, most have populations that breed on more than one island group. To establish a probable point of origin, factors such as breeding phenology, behavior in the study area, and extent of orientation to land must be considered. At least two populations from different islands of origin of the two most abundant species, Sooty Tern and Wedge-tailed Shearwater, are present at certain times of the year.

It is useful to distinguish between two basic patterns of utilization of the study area by the species that breed north or south of the central Pacific--direct migration and "wintering." Direct migrants seldom feed in the study area but pass through rapidly as they travel between temperate climatic zones. Wintering birds remain in the study area during all or part of their nonbreeding season and depend upon the waters of the study area for their food supply. I have set up for analysis the following seven categories of birds, based on origin and mode of utilization of study area: birds breeding in the main Hawaiian islands; birds breeding in the leeward Hawaiian islands; birds breeding in the South Pacific and wintering in the study area; birds breeding in the South Pacific and migrating through the study area; birds breeding in the North Pacific and wintering in the study area; birds breeding in the North Pacific and migrating through the study area; and birds recorded in the study area only rarely.

1. Birds breeding in the main Hawaiian islands.

Dark-rumped Petrel Bulwer's Petrel Wedge-tailed Shearwater (light-phase) Newell's Shearwater White-tailed Tropicbird Brown Booby Red-footed Booby Sooty Tern Brown Noddy Black Noddy

Most of these species breed in the spring and summer. Two possible exceptions are the White-tailed Tropicbirds and Black Noddies; their breeding cycles in the main Hawaiian islands have not been accurately described, although there is some evidence that their breeding seasons are long. The petrels, shearwaters, and Sooty Terns migrate annually and are absent, or scarce, during the fall and early winter in the study area within 100 miles of their breeding grounds. The boobies and noddies are land-oriented and remain near the breeding islands all year, foraging out to sea usually no farther than 100 miles.

Probably most birds of these species observed in spring and summer in the study area within 100 miles of the main Hawaiian islands originate on those islands; their densities within this distance are consonant with estimates of populations breeding on these islands.

Several other species with very small populations in the main Hawaiian islands (Christmas Shearwater, Red-tailed Tropicbird, Blue-faced Booby, White Tern, Gray-backed Tern, Bluegray Noddy) were observed in the study area. The first four were observed with far greater regularity and in greater numbers than could be expected from the main Hawaiian populations. The Gray-backed Tern and Blue-gray Noddy were seen on only one occasion each; they are considered rare in the study area and probably originate on islets off the main Hawaiian islands that support small populations of the species.

2. Birds breeding in the leeward Hawaiian islands.

Black-footed Albatross Laysan Albatross Bonin Petrel Bulwer's Petrel Wedge-tailed Shearwater (light-phase) Christmas Shearwater Red-tailed Tropicbird Blue-faced Booby Brown Booby Red-footed Booby Great Frigatebird Sooty Tern White Tern

Only the albatrosses, Red-tailed Tropicbird, Great Frigatebird, and White Tern contribute appreciably to the avifauna of the study area. To this group might be added Bulwer's Petrel and Christmas Shearwater, which may enter the study area from the leeward Hawaiian chain, but probably not frequently or regularly. The remaining species more likely originate on the main Hawaiian islands, especially those observed within 100 miles of land, although individuals from the Leewards undoubtedly enter the area on occasion. The occurrence of lightphase Wedge-tailed Shearwaters and Sooty Terns in the southern half of the study area could as well be attributed to migration from the Leewards, from the main Hawaiian islands, or from other Pacific islands.

Bonin Petrel is an uncommon visitor from the Leewards to the northern half of the study area.

3. Birds breeding in the South Pacific and wintering in the study area.

Juan Fernandez Petrel White-necked Petrel Tahiti or Phoenix Petrel Black-winged Petrel Kermadec Petrel Herald Petrel Bulwer's Petrel Wedge-tailed Shearwater (dark-phase) Christmas Shearwater Red-tailed Tropicbird Blue-faced Booby

Sooty Tern White Tern

These species breed on tropical and subtropical islands in the central or South Pacific and migrate northward into the study area where they are observed regularly enough to say that the study area constitutes a part of their normal winter or prebreeding range. The islands of origin can be specified only for Juan Fernandez Petrel (Mas Afuera of the Juan Fernandez group, 500 miles west of Chile) and for White-necked and Black-winged Petrels (Kermadec Islands, 600 miles northeast of New Zealand). The other species each breed on many island groups so it is impossible to determine their islands of origin. Birds in this category are usually more abundant at the southern end of the study area and usually attain highest densities during the summer and fall.

4. Birds breeding in the South Pacific and migrating through the study area.

Mottled Petrel White-winged Petrel Pale-footed Shearwater New Zealand Shearwater Sooty Shearwater Slender-billed Shearwater Skua

All but one species in this category breed in the temperate zone in the New Zealand-Australia region and migrate north in the spring to the equivalent water zone in the North Pacific. The exception, White-winged Petrel, breeds in a marginally subtropical or tropical climate and migrates to a transitional area (subtropical-temperate) in the North Pacific. Skuas and Sooty Shearwaters might also originate on the South American side of the Pacific, although this is not likely. Birds in this category reach greatest abundance in spring (April-May) and fall (September-November) and are totally or nearly absent in summer and winter. One species, Slender-billed Shearwater, migrates south through the study area only in the fall. Its spring migration is restricted almost entirely to the western Pacific.

- 5. Birds breeding in the North Pacific and wintering in the study area.
 - Leach's Storm Petrel Pomarine Jaeger

These species breed in the subarctic and arctic North Pacific in the summer and migrate to, and through, the study area in the fall. A substantial number remain in the study area throughout the winter, although evidence is clear that this wintering population is joined in early spring, just before the return to their northern breeding grounds, by birds that have wintered farther south.

6. Birds breeding in the North Pacific and migrating through the study area.

Golden Plover Ruddy Turnstone Bristle-thighed Curlew Wandering Tattler Sanderling Red Phalarope Pomarine Jaeger Long-tailed Jaeger Arctic Tern

These species migrate through the study area in spring or fall between arctic breeding grounds and islands (shore birds) or oceanic areas (phalarope, jaeger, and tern) south of the study area. Several species (shore birds and Pomarine Jaeger) also winter on or near the main Hawaiian islands as well. None of the shore birds observed in the study area was headed toward the Hawaiian group. During spring migration months, about half of the Pomarine Jaegers were heading north from areas south of the study area.

- 7. Birds recorded in the study area only rarely.
 - Black-browed Albatross Fulmar Solander's Petrel Pink-footed Shearwater Fork-tailed Petrel Gull sp. Gray-backed Tern Blue-gray Noddy Rock Dove

These species are stragglers and were not regularly recorded. Black-browed Albatross and Solander's Petrel originate on islands south of New Zealand and Lord Howe Island, respectively; Fulmar, Fork-tailed Petrel, and the gull species originate in the North Pacific; Pinkfooted Shearwater comes from the temperate coast of South America, straggling west to the



Figure 26a.--Relative composition of avifauna by species group, March-September 1964. Numbers in parentheses in each sector indicate the percentages of total birds in each category.

study area on its northward migration to the North Pacific; Gray-backed Tern, Blue-gray Noddy, and Rock Dove originate on the main Hawaiian islands.

If we subdivide the species occurring in the study area somewhat more broadly into breeding birds (of the central Pacific, including Hawaiian, Line, and Phoenix Islands), wintering birds from the North or South Pacific, and direct migrants through the study area from the North or South Pacific, we can show the relative abundance of each of these groups, and, thus, the patterns of utilization of the study area as they relate to the location of breeding areas and breeding phenology (figs. 26a-c). Figure 26b.--Relative composition of avifauna by species group, October 1964 to March 1965. Numbers in parentheses in each sector indicate percentages of total birds in each category.

Generally, the species in the area during their breeding season have breeding grounds within 1,000 miles of the study area; those that occur during their nonbreeding season come from more than 1,000 miles away.

Resident in Breeding Season.

Black-footed Albatross Laysan Albatross Dark-rumped Petrel Bulwer's Petrel Wedge-tailed Shearwater Christmas Shearwater Newell's Shearwater White-tailed Tropicbird



Figure 26c.--Relative composition of avifauna by species group, April-June 1965. Numbers in parentheses in each sector indicate the percentages of total birds in each category.

Red-tailed Tropicbird Blue-faced Booby Brown Booby Red-footed Booby Great Frigatebird Brown Noddy Black Noddy Sooty Tern White Tern

Resident in Nonbreeding Season.

Juan Fernandez Petrel White-necked Petrel Black-winged Petrel Kermadec Petrel Leach's Storm Petrel Pomarine Jaeger Direct Migrants.

Mottled Petrel Pale-footed Shearwater Sooty Shearwater Slender-billed Shearwater Golden Plover Red Phalarope Long-tailed Jaeger Arctic Tern

Breeding birds dominated in all months except March and November 1964. In January and February 1965, breeding birds exceeded 90 percent, even though total population during these 2 months was low. The height of the breeding season in the Hawaiian area is indicated both by the large total population and by the high percentage of breeding birds during May 1964 (89 percent) and May 1965 (86 percent). Migrants were relatively numerous in the area only in March and April and from September through November. Wintering birds were well represented from June through December even though two of the wintering species, Leach's Storm Petrel and Pomarine Jaeger, were breeding in Alaska during at least the first 3 months of this period. The greatest representation of birds wintering in the area (36 percent) came in October 1964 when both Juan Fernandez Petrels and Black-winged Petrels, the two most abundant wintering forms, were at peak numbers just before their return to the Southern Hemisphere for the beginning of their breeding season.

Distance from Land

Birds of species that occurred in the study area in significant numbers were tallied, according to the distance from nearest land at the time of observation, in increments of 50 and 100 miles from nearest land. Figure 27 shows these distance-from-nearest-land isopleths superimposed on the nominal cruise track. The miles traveled while observations were underway were divided into the numbers of birds observed to yield a birds-per-mile figure. Table 5 illustrates the abundance of the more common species in relation to miles from nearest land.

Five patterns of distribution were noted:

 Species that were observed predominantly within 50 miles of land:
Brown Booby Red-footed Booby Pomarine Jaeger Brown Noddy Black Noddy

All the birds in this category except the Pomarine Jaeger breed in the main Hawaiian islands and are land-dependent to the extent that they normally do not fly out from their roosting area farther than 1/2 day's flight in search of food so that they can return to their roosts nightly. A substantial population is present in the breeding area all year. The Pomarine Jaeger is common off the main Hawaiian islands only during the winter. In the spring, birds wintering farther south join the wintering Hawaiian population, and both groups migrate north in May and June. Pomarine Jaegers are absent from the study area during the summer.

 Species whose numbers decreased gradually with increasing distance from land:

> Dark-rumped Petrel Bulwer's Petrel White-tailed Tropicbird Great Frigatebird White Tern

This category comprises three birds that breed in the main Hawaiian islands--two procellariids and a tropicbird--and two wideranging birds that breed in the leeward Hawaiian chain, in the Line and Phoenix Islands, and in many other tropical Pacific island groups. They travel farther from land during their breeding season than those in the preceding category. The two petrels become more highly land-oriented during the breeding peak, but since they range more widely at sea at the beginning and end of their breeding cycles, the net effect is one of decreased land-orientation compared with the species in category 1. The other three species are present all year in the study area. They range far more widely in search of food than birds in category 1 and must frequently spend the night at sea, which for the frigatebird and the tern is remarkable since neither was observed to sit on the water in the 15 months of the pilot program, and they have very rarely been observed on the water elsewhere in the central Pacific by POBSP personnel. They show a general orientation toward land, however, unlike birds in the succeeding categories. This general orientation



Figure 27.--Distance-from-nearest-land isopleths superimposed on the theoretical cruise track. Palmyra Island of the Line group is the closest point of land from the southwestern part of the study area.

toward land is weak evidence that the Hawaiian Islands are the islands of origin for the birds of these species found in the study area.

 Species that were observed less frequently within 50 miles of land than over 100 from land:

> Juan Fernandez Petrel White-necked Petrel Mottled Petrel Black-winged Petrel Kermadec Petrel Herald Petrel Sooty Shearwater Slender-billed Shearwater Christmas Shearwater Blue-faced Booby Golden Plover

Red Phalarope Long-tailed Jaeger Skua Arctic Tern

Birds in this category include: first, migrants from the South or North Pacific that pass through the area rapidly on their way to or from more northerly or more southerly waters, and, second, birds that breed to the south of the area and winter mainly in the central Pacific (between the Equatorial Countercurrent and the Hawaiian Islands). Direct migrants demonstrate no marked distribution pattern in the study area that indicates orientation or navigation based on the position of the islands of the Hawaiian group. Birds that breed south of the area slowly infiltrate into it during the nonbreeding season so that the net effect is one of greatest abundance at the southern end, even though some birds, such as Juan Fernandez Petrel, are in all parts of the study area during peak months.

 Species that were observed in roughly the same density regardless of distance from land:

> Black-footed Albatross Laysan Albatross Leach's Storm Petrel Red-tailed Tropicbird

Table 5Numbers	of	sea	birds	seen	per	10	linear	miles	(18.5	km.)	of	observation	at
			varying	g dist	ance	es :	from nea	arest 1	Land				

	Miles from land										
Species	Period	50	100	200	300	400	500	600	700		
Black-footed Albatross	Total	1.12	0.37	0.74	0.76	0.83	0.23	0.50	0.01		
Wedge-tailed Shearwater dark-phase	Total	0.11	0.08	0.03	0.07	0.10	0.72	0.38	1.84		
Wedge-tailed Shearwater light-phase	Total	15.88	4.98	2.85	0.56	0.79	0.84	0.33	1.43		
Sooty Shearwater	Spring Fall	1.96 2.95	2.48 0.24	1.46 0.36	4.92 1.12	0.80 0.53	1.23 1.13	0.95 0.66	2.24 1.70		
Slender-billed Shearwater	Nov.	9.43	15.60	2.96	8.23	1.29	0.02	0.00	0.21		
Newell's Shearwater	Total	0.20	0.09	0.11	0.05	0.02	0.08	0.08	0.10		
Juan Fernandez, White- necked Petrel	Total	0.26	0.38	0.44	0.66	1.39	1.72	2.02	4.47		
Black-winged Petrel	Total	0.32	0.47	0.34	0.42	0.62	0.98	0.47	0.99		
Bulwer's Petrel	Total	0.87	0.29	0.20	0.12	0.07	0.15	0.05	0.06		
Leach's Storm Petrel	Total	0.17	0.35	0.23	0.25	0.25	0.36	0.40	0.55		
Red-tailed Tropicbird	Total	0.06	0.06	0.09	0.09	0.06	0.06	0.07	0.06		
White-tailed Tropicbird	Total	0.11	0.08	0.06	0.04	0.04	0.01	0.01	0.01		
Blue-faced Booby	Total	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.07		
Red-footed Booby	Total	5.17	0.05	0.03	0.01	0.01	0.01	0.00	0.00		
Brown Booby	Total	0.37	0.00	0.00	0.01	0.01	0.01	0.01	0.01		
Great Frigatebird	Total	0.51	0.20	0.18	0.10	0.03	0.02	0.01	0.01		
Pomarine Jaeger	Total	0.49	0.01	0.01	0.03	0.01	0.02	0.00	0.01		
Sooty Tern	Spring Summer Fall Winter Total	68.60 42.78 0.19 23.89 40.65	17.39 39.89 1.29 15.67 19.08	14.69 15.73 0.92 8.99 11.68	5.64 7.08 4.25 2.80 5.09	2.82 4.89 22.07 2.04 6.32	3.73 3.30 7.08 2.46 4.13	3.99 0.55 3.86 9.38 4.35	17.13 3.08 2.74 16.39 11.35		
Brown Noddy	Total	19.01	0.19	0.04	0.01	0.00	0.01	0.00	0.00		
White Tern	Total	0.15	0.24	0.10	0.05	0.02	0.04	0.05	0.03		

Birds in this category are distributed at random in the study area from the standpoint of miles from land. Albatrosses were recorded mainly in the northern half of the area, which suggests that albatross distribution shows a closer correlation with latitude-dependent factors--probably temperature and salinity--than land-dependent factors.

5. Species that demonstrated a bimodal distribution, i.e., high densities within 100 miles of land and more than 400 miles from land, but with low density between 100 and 400 miles:

> Wedge-tailed Shearwater Newell's Shearwater Sooty Tern

Wedge-tailed Shearwaters and Sooty Terns are the two most abundant species in the study area. Their distribution is complex. During the breeding season high densities of Sooty Terns and light-phase Wedge-tailed Shearwaters are found within 100 miles of the Hawaiian Islands. The peaks disappear during the nonbreeding season when these populations migrate to their wintering grounds. A second density center, at the southern end of the area, contains mainly dark-phase Wedge-tailed Shearwaters which come from unknown Southern Hemisphere breeding populations. The cycle of this southern density center is roughly in synchrony with the one in the north. If birds from the Southern Hemisphere have breeding cycles 6 months before and after the cycle of northern birds--which probably holds true for colonies in subtropical areas but probably not for those in the tropics where breeding cycles may be of extended length--then these birds represent a wintering population rather than foragers from nearby colonies. The cycle of the Sooty Terns in the south is not sufficiently regular to warrant an analysis. It is clear that at least two populations of each species are encountered, a nearby breeding population and a foreign wintering population, of which only the former shows orientation to land. Newell's Shearwaters at the southern end are mainly subadults or nonbreeding adults.

Analysis of Density

Density was analyzed after consideration was given to the maximum distances at which various types of birds could be identified and counted. To test the data for patterns of relative density, a further study was made of the distribution of birds in subareas.

Maximum distances of observation .-- Distances at sea are notoriously difficult to estimate. Even when observers become familiar with the shape, build, behavior, and pattern of markings of sea birds, they can often mistake a species for a similar species of different size because no scale is afforded by the ocean surface. The distance at which a given species will be observed most of the time, or overlooked most of the time, is an essential element in the computation of population estimates based on samples made along transects at sea. Several factors interact to produce a maximum observation distance. This maximum observation distance changes from species to species, from day to day, from ship to ship, and from observer to observer. Species-variable factors include size of bird, height at which a bird is flying, flight speed and behavior, color or pattern, tendency to flock, and how much a ship attracts or repels the birds. Wind speed and direction, sea state, atmospheric visibility, and amount and direction of glare are among the factors which change from day to day, or even from hour to hour. The size of the ship is important; small ships tend to repel birds less than large ones, but large ships can be seen at a greater distance by birds that are attracted to ships. The height of the observation platform and the extent to which observations are impaired by ships' structures are important. An observer can see high-flying birds, such as terns, more readily from a high platform and can see low-flying birds, such as storm petrels, more readily from a low platform. Observers differ in the degree and length of their concentration, visual acuity, and familiarity with the techniques of observation and identification.

It is impossible to take all these factors into consideration in the determination of maximum observation distances. To do so would be to reappraise a list of many variables almost continuously. Some of these factors cancel out others, however; some can be disregarded under normal conditions; and the effects of some can be minimized by standardization of observation techniques, by the repetition of one cruise track over a long timespan, and by use of experienced observers only.

Our experience suggests that the following maximum ranges of observations from the

				e area of for each
Species groups	Ran of o	0	Mile traveled	Km. traveled
	Miles	Km.	<u>Sq. miles</u>	Ha.
Albatrosses	4	7.41	8	2,747.2
Shearwaters/ petrels	1	1.85	2	686.8
Storm petrels Bulwer's Petrel	1/4	0.46	1/2	171.7
Tropicbirds	1	1.85	2	686.8
Boobies	1	1.85	2	686,8
Frigatebirds	2	3.71	4	1,373.6
Shore birds	1/2	0.93	1	343.4
Jaegers	1	1.85	2	686.8
Terns	1-1/2	2.78	3	1,030.2
Noddies	1	1.85	2	686.8

<u>Townsend</u> <u>Cromwell</u> are applicable to these species groups:

Most birds of these groups will be observed at these distances. Some farther from the ship than the stated distance will be seen, but others that are nearer will probably be missed.

Overestimates of maximum distances of observation result in calculated population estimates that are conservative.

Table 6 gives population estimates of each species for the study area during the cruise on which each species was most abundant. The figure for birds per linear mile was weighted by the effective area of survey per linear mile of observation of each species group, and the resulting value for birds per square mile was multiplied by the approximate area covered by the study to yield a population estimate for each species.

Analysis of density by subareas.--Depending upon its islands of origin, breeding schedule, and pelagic habitat "preference," each species should show distinctive patterns of relative density in various parts of the study area in different seasons. To test the data for such patterns so that they can be demonstrated numerically as well as visually, the study area was divided into eight subareas of about equal size. A visual appraisal of distribution patterns indicated that the land masses of the Hawaiian



Figure 28.--Location of eight 5° x 4° subdivisions of the study area. Each subdivision contains ca. 72,000 square miles (24.6 million ha.).

group should be included in one subarea, that an area of low density east of the Hawaiian group should be in another, and that areas of relatively high density to the south should be in still others. Accordingly, quadrangles of 5° latitude by 4° longitude (ca. 72,000 sq. miles or 24.6 million ha.) were selected as being probably the most meaningful in terms of homogeneity of distribution within each subarea (fig. 28). Densities in terms of birds per linear mile of observations for the more numerous regularly occurring species were calculated for the four seasons, rather than for each month, to minimize inequalities in sampling and to simplify the presentation of the data. Spring was taken to mean March-May; summer, June-August; fall, September-November; and winter, December-February.

Species	Maximum number of sea birds observed	Month and year	Birds per 10 linear miles	Weighted population estimate
	Number		Number	Number
Black-footed Albatross	92	February 1965	0.43	2,688
Laysan Albatross	11	March 1965	0.05	312
Dark-rumped Petrel	9	May 1965	0.03	750
Juan Fernandez Petrel	1,206	October 1964	5.56	139,000
White-necked Petrel	14	May 1965	0.05	1,250
Mottled Petrel	50	October 1964	0.23	5,750
Black-winged Petrel	1,033	October 1964	4.76	119,000
Kermadec Petrel	16	January 1965	0.07	1,750
Herald Petrel	6	December 1964	0.02	500
Bulwer's Petrel	178	May 1964	0.71	71,000
Wedge-tailed Shearwater				
(light-phase) (dark-phase)	1,637 444	May 1964 May 1964	6.52 1.77	163,000 44,250
Sooty Shearwater	1,684	March 1964	7.50	187,500
Slender-billed Shearwater	871	November 1964	4.12	103,000
Christmas Shearwater	6	September 1964	0.02	500
Newell's Shearwater	66	May 1964	0.26	6,500
Leach's Storm Petrel	297	April 1965	1.22	122,000
White-tailed Tropicbird	24	May 1964	0.09	2,250
Red-tailed Tropicbird	38	October 1964	0.17	4,250
Blue-faced Booby	9	May 1964	0.03	750
Brown Booby	18	October 1964	0.08	¹ 2,000
Red-footed Booby	221	June 1965	0.90	¹ 22,500
Great Frigatebird	62	June 1965	0.25	3,125
Golden Plover	159	October 1964	0.73	36,500
Red Phalarope	53	March 1965	0.24	12,000
Pomarine Jaeger	60	April 1965	0.24	¹ 6,000
Skua	3	October 1964	0.01	250
Arctic Tern	27	April 1965	0.11	2,063
Sooty Tern	5,020	May 1965	20.64	387,000
Brown Noddy	1,516	May 1965	6.23	¹ 155,750
White Tern	24	April 1965	0.09	1,687

Table 6.--Weighted estimates of maximum monthly populations of sea birds in the study area

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¹Estimate exaggerated by local nature of distribution.

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Total abundance for each species was estimated on the basis of linear densities, taking into account the effective range of observation for each species and the area of the octants. Figure 29 shows the densities of birds per 10 linear miles in each octant and the estimated daily population in a given season within that octant. The estimates of population in table 5 are for maximum numbers encountered in any one month, whereas the estimates in figure 29 are averaged for a whole season. Albatross density was based on cumulative totals through the day rather than the highest number at one time, the value used in the species account.

Densities of total avifauna were highest in spring, slightly lower in summer and fall, and substantially lower in winter. The distribution of high and low densities appears not to be at random. Octant 6, which contained the land masses, consistently contained the highest density of birds in all seasons but summer, when it was second by a narrow margin. Octant 5, the northwestern corner, varied considerably. It ranked sixth in the fall after it ranked first in the summer--which may well indicate that Sooty Terns and Wedge-tailed Shearwaters breeding in the main Hawaiian area do not disperse in a northerly direction after their breeding seasons.

Octant 4, and to a lesser extent octant 8, at the southern end of the study area, show consistently high densities, especially in fall, caused presumably by the attractiveness of the area of relatively high productivity near lat. 10° N. where an underlying cold water dome comes very close to the surface. Nonbreeding populations of Sooty Terns, Wedge-tailed Shearwaters, Juan Fernandez Petrels, and Blackwinged Petrels make up the bulk of the populations in octants 4 and 8. Octants 1, 2, and 3 were consistently low in avian density--especially octant 2, which ranked last or next to last in all seasons.

The following general patterns may be seen in the analysis of density by octant:

- 1. Birds that breed in the main or leeward Hawaiian group in the spring and summer are most abundant in octants 5 and 6 in spring and summer.
- 2. Birds that breed in the leeward Hawaiian group in the winter attain highest densities in octants 5 and 1 in winter and spring.

- 3. Birds that migrate rapidly in waves show high densities in one or two octants and low densities in all others.
- 4. Birds that breed at a distance from the study area and spend their nonbreeding seasons in the study area attain highest densities in octants 4 and 8.

The estimates of total populations permit the calculation of total bird-days, from which, with certain assumptions about the food requirements of sea birds, can be derived the annual consumption by sea birds in the study area. To simplify calculations, two categories of body weights were assumed, 180 g. (terns, noddies, Bulwer's Petrels, and Leach's Storm Petrels), and 400 g. (all others). Many species, especially boobies, frigatebirds, and albatrosses, weighed far more than 400 g. but did not occur in substantial numbers. Most of the shearwaters and petrels that did occur in substantial numbers weighed about 400 g. Direct migrants (Sooty and Slender-billed Shearwaters) were omitted from the calculations.

Jordán (1959) studied the daily consumption of the Guanay Cormorant <u>Phalacrocorax bougainvillii</u> Linnaeus. He found that the average Guanay weighed 2,000 g. and daily ate 430 g., or 21.5 percent of its body weight. Lack (1954) stated that daily food consumption of land birds is tied directly to body weight, regardless of the kind of food taken. The average daily consumption of several species of land birds weighing between 100 and 1,000 g. was between 5 and 9 percent, and land birds weighing less than 100 g. consumed 10 or more percent of their body weight daily.

The difference in the average daily food intake of sea birds and land birds may be explained in part by the relatively greater amount of water infish than in seeds or insects. Taking Jordán's daily consumption figure of 21.5 percent, tern-sized sea birds weighing 180 g. would eat 38.7 g. of food daily, and shearwatersized sea birds weighing 400 g. would eat 86 g. of food daily.

In one year in the study area tern-sized (180 g.) birds ate 3,069.7 metric tons of food in 79,313,614 bird-days, and shearwater-sized (400 g.) birds ate 4,316.9 metric tons in 50,196,912 bird-days for a total of 7,386.6 metric tons. I assumed that birds larger than shearwaters eat only as much as shearwaters, so these figures are conservative.

ALL SPECIES

S	pring	Sun	mer	Fa	11	Wir	nter
42.18	4.46	53.89 129,336	5.49	8.30	4.94	14.61	6.92
	10,704		13,176	19,920	11,856	35,064	16,608
87.98 211,152	2.24 5,376	50.00 120,000	8.67 20,808	42.05 100,920	4.60 11,040	40.92 98,208	1.50 3,600
10.83	3.71	9.68	14.77	22.26	22.31	7.18	3.98
25,992	8,904	23,232	35,448	53,424	53,544	17,232	9,552
12.13	30.79	15.21	17.11	36.52	30.09	7.04	26.61
29,112	73,896	36,504	41,064	87,648	72,216	16,896	63,864
Totals	466,368		419,568		410,568		261,024

BLACK-FOOTED ALBATROSS

Sp	ring	Summ	er	Fal	Fall		Winter	
3.04	1.62		0.01	1.03	0.14	7.51	5.33	
2,736	1,458	0.00	9	927	126	6,759	4,797	
1.13	0.23	0.01				1.97	0.15	
1,017	207	9	0.00	0.00	0.00	1,773	135	
	0.05		0.01					
0.00	45	0.00	9	0.00	0.00	0.00	0.00	
0.01	0.12						0.28	
9	108	0.00	0.00	0.00	0.00	0.00	252	
Totals	5,580		27		1,053		13,716	

WEDGE-TAILED SHEARWATER

Sp	ring	Sum	mer	Fa	11	Wi	nter
3.59	0.12	8.93	0.26	1.09	0.15	0.38	0.03
12,924	432	32,148	936	3,924	540	1,368	108
11.06	0.30	12.49	0.49	18.18	0.12	0.68	0.07
40,816	1,080	44,964	1,764	65,448	432	2,448	252
1.66	0.71	4.14	0.40	0.82	0.66	0.19	0.05
5,976	2,556	14,904	1,440	2,952	2,376	684	180
2.40	5.60	5.27	2.17	0.82	1.31	0.18	0.78
8,640	20,160	18,972	7,812	2,952	4,716	648	2,808
Totals	92,584	L	122,940		83,340		8,496

Figure 29.--Sea bird abundance in subareas in the study area. The squares of the table repeat the geographical layout of figure 28. The upper figure in each square is the density in birds per 10 linear miles (18.5 km.) of observation; the lower figure is the estimated population, weighted by the effective range of observation of each species. Density and population figures are daily averages during each season.

SOOTY SHEARWATER

S	pring	Summ	er	Fa	11	Win	ter
10.31 37,116	1.35 4,860	0.00	0.00	0.82 2,952	0.56 2,160	0.01 36	0.00
2.23 8,028	0.34 1,224	0.00	0.00	1.68 6,048	0.31 1,116	0.03 103	0.01 36
1.28 4,608	0.57 2,052	0.00	0.01 36	1.47 5,292	0.32 1,152	0.00	0.00
1.00 3,600	1.68 6,048	0.00	0.00	1.81 6,516	1.23 4,428	0.01 36	0.00
Totals	67,536		36		29,664		216

SLENDER-BILLED SHEARWATER

Sp	oring	Summ	er	Fall		Win	ter
	0.01				1.02	0.03	0.02
0.00	36	0.00	0.00	0.00	3,672	108	72
				4.62	0.15	0.12	0.01
0.00	0.00	0.00	0.00	16,632	540	432	36
				5.37	0.04	0.01	0.01
0.00	0.00	0.00	0.00	19,332	144	36	36
					0.03	0.01	0.03
0.00	0.00	0.00	0.00	0.00	108	36	108
Totals	36	h	0	······································	40,428	.	864

NEWELL'S SHEARWATER

Sp	ring	Summ	er	Fal	.1	Win	ter
0.22	0.03	0.12	0.01	0.21	0.04	0.03	0.01
792	108	432	36	756	144	108	36
0.25	0.01	0.20	0.03	0.07	0.01		
900	36	720	108	252	36	0.00	0.00
0.05	0.05	0.04	0.04	0.01	0.01		
180	180	144	144	36	36	0.00	0.00
0.20	0.18	0.22	0.06		0.06	0.04	0.03
720	648	792	216	0.00	216	144	108
Totals	3,564		2,592		1,476	-	396

Figure 29.--Sea bird abundance in subareas in the study area. The squares of the table repeat the geographical layout of figure 28. The upper figure in each square is the density in birds per 10 linear miles (18.5 km.) of observation; the lower figure is the estimated population, weighted by the effective range of observation of each species. Density and population figures are daily averages during each season.--Continued.

JUAN FERNANDEZ, WHITE-NECKED PETRELS

SI	oring	Sum	mer	Fa	11	Wi	nter
0.03	0.01	0.08	0.66	0.34	0.52	0.13	0.10
	36	288	2,376	1,224	1,872	468	360
0.04	0.40	0.77	2.20	0.85	0.43	0.17	0.10
144	1,800	2,772	7,920	3,060	1,548	612	360
0.04	0.39	1.81	3.42	2.90	4.38	0.16	0.20
144	1,404	6,516	12,312	10,440	15,768	576	720
0.16	2.27	2.38	6.32	6.92	10.62	0.48	1.84
5,760	8,172	8,568	22,752	24,912	38,232	1,728	6,624
Totals	17,568		63,504		97,056		11,448

BLACK-WINGED PETREL

Sp	ring	Summ	ner	F	all	Wir	nter
0.01	0.01	0.56	0.15	0.71	1.01	0.04	0.02
36	36	2,016	540	2,556	3,636	144	72
0.02	0.01	0.50	0.29	1.48	0.93	0.03	0.01
72	36	1,800	1,044	5,328	3,348	108	36
0.09	0.10	0.73	0.40	2.79	2.55	0.03	0.01
324	360	2,628	1,440	10,044	9,180	108	36
0.72	0.20	0.84	1.23	5.06	2.78	0.11	0.04
2,592	720	3,024	4,428	18,216	10,008	396	144
Totals	4,500		16,920	.	62,316		1,044

BULWER'S PETREL

Sp	ring	Sum	mer	Fa	11	Win	ter
0.29	0.09	0.55	0.28	0.01			
4,176	1,296	7,920	4,036	144	0.00	0.00	0.00
1.08	0.04	0.92	0.07	0.12		0.01	
15,552	576	13,248	1,008	1,728	0.00	144	0.00
0.27	0.09	0.20	0.11	0.01			0.01
3,888	1,296	2,880	1,584	144	0.00	0.00	144
0.42	0.22	0.07	0.06	0.05		0.01	
6,048	3,168	1,008	864	120	0.00	144	0.00
Totals	36,000	**************************************	32,544		2,736	· · · · · · · · · · · · · · · · · · ·	432

Figure 29.--Sea bird abundance in subareas in the study area. The squares of the table repeat the geographical layout of figure 28. The upper figure in each square is the density in birds per 10 linear miles (18.5 km.) of observation; the lower figure is the estimated population, weighted by the effective range of observation of each species. Density and population figures are daily averages during each season.--Continued.

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LEACH'S STORM PETREL

5	Spring	Sum	ner	H	all	Wi	nter
0.66 9,504	0.74 10,656	0.05 720	0.01 144	0.26 3,744	0.20 2,880	0.15 2,160	0.34 4,896
0.40 5,760	0.23 3,312	0.00	0.00	0.11 1,584	0.13 1,872	0.50 7,200	0.30 4,320
0.38 5,472	0.31 4,464	0.02 288	0.02 288	0.05 720	0.15 2,160	0.34 4,896	0.27 3,888
0.38	0.76 10,944	0.00	0.00	0.33 4,752	0.84 12,096	0.26 3,744	0.67 9,648
Totals	55,584	نا	1,440	μ	29,808	L	40,752

RED-TAILED TROPICBIRD

Sp	ring	Summ	ner	Fa	a 11	Wir	nter
0.16	0.08	0.15	0.10	0.18	0.14	0.01	0.02
576	288	540	360	648	504	36	72
0.06	0.03	0.13	0.08	0.03	0.13	0.03	0.01
216	108	468	288	108	468	108	36
0.09	0.01	0.13	0.08	0.15	0.13	0.04	0.01
324	36	468	288	540	468	144	36
0.03	0.10	0.02	0.10	0.13	0.03	0.07	0.03
108	360	72	360	468	108	252	108
Totals	2,016		2,844		3,312		792

WHITE-TAILED TROPIC BIRD

Sp	ring	Sum	ner	F	all	Wir	nter
0.07	0.02	0.12	0.06	0.05	0.03	0.13	0.04
252	72	432	216	180	108	468	144
0.12	0.03	0.09	0.04	0.08	0.06	0.17	0.05
432	108	324	144	288	216	612	180
0.04	0.02	0.05	0.04	0.00	0.01	0.05	0.02
144	72	180	144		36	180	72
0.03	0.01	0.00	0.02	0.00	0.00	0.00	0.00
108	36		72				
Totals	1,224		1,512		828		1,656

Figure 29.--Sea bird abundance in subareas in the study area. The squares of the table repeat the geographical layout of figure 28. The upper figure in each square is the density in birds per 10 linear miles (18.5 km.) of observation; the lower figure is the estimated population, weighted by the effective range of observation of each species. Density and population figures are daily averages during each season.--Continued.

GREAT FRIGATEBIRD

SI	pring	Summ	ner	Fall		Wir	nter
0.16	0.03	0.29	0.02	0.39	0.03	0.07	0.03
288	54	522	36	702	54	126	54
0.34	0.03	0.32	0.07	0.30	0.05	0.27	0.01
612	54	576	126	540	90	486	18
0.08	0.01	0.04		0.12	0.05	0.03	0.01
144	18	72	0.00	216	90	54	18
0.01				0.04		0_0	0.07
18	0.00	0.00	0.00	72	0.00	180	126
Totals	1,188	<u> </u>	1,332		1,764	4	1,062

SOOTY TERN

S	pring	Sun	mer	1	Fall	Wa	inter
22.04	0.19	40.76	2.64	0.69	0.01	5.31	0.67
52,896	456	97,824	6,336	1,656	24	12,744	1,608
45.11	0.25	25.27	3.98	0.44	1.16	24.35	0.52
108,264	600	60,648	9,552	1,056	2,880	58,440	1,248
5.82	0.77	1.82	5.55	5.74	9.94	5.49	2.52
13,968	1,848	4,368	13,320	13,776	23,856	13,176	6,048
5.46	16.12	4.25	1.86	18.02	7.34	5.08	18.92
13,104	38,688	10,200	4,488	43,248	17,616	12,192	45,408
Totals	229,824		206,712		104,112		150,864

BROWN NODDY

Sp	ring	Sum	mer	Fa	11	Wi	nter
0.20	0.01	0.19					
720	36	684	0.00	0.00	0.00	0.00	0.00
16.01		4.53		8.40		4.90	·····
57,636	0.00	16,308	0.00	30,240	0.00	17,640	0.00
0.03				0.03		0.14	
108	0.00	0.00	0.00	108	0.00	504	0.00
0.01							
36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Totals	58,536		16,992		30,348	· · · · · · · · · · · · · · · · · · ·	18,144

Figure 29.--Sea bird abundance in subareas in the study area. The squares of the table repeat the geographical layout of figure 28. The upper figure in each square is the density in birds per 10 linear miles (18.5 km.) of observation; the lower figure is the estimated population, weighted by the effective range of observation of each species. Density and population figures are daily averages during each season.--Continued.

Spi	ing	Summ	ner	Fa	11	Wir	ter
0.08		0.16	0.02	0.05	0.01	0.06	
192	0.00	384	48	120	24	144	0.00
0.26		0.33	0.04	0.30		0.23	0.01
624	0.00	792	96	720	0.00	552	24
0.06		0.02	0.03	0.05	0.17	0.23	
144	0.00	48	72	120	408	552	0.00
0.03	0.04	0.09		0.04	0.17	0.06	0.09
72	96	216	0.00	96	408	144	216
Totals	1,128		1,656		1,896	······································	1,632

Figure 29.--Sea bird abundance in subareas in the study area. The squares of the table repeat the geographical layout of figure 28. The upper figure in each square is the density in birds per 10 linear miles (18.5 km.) of observation; the lower figure is the estimated population, weighted by the effective range of observation of each species. Density and population figures are daily averages during each season.--Continued.

Direction of Movement

The direction in which birds were flying was noted at the time of each sighting. Often it was not possible to assign one particular direction of movement because many species, especially some of the shearwaters and petrels, have a meandering flight that is probably indicative of random searching for food. Figure 30 shows the percentage of birds of different species seen flying in each direction during each season. The data are most conclusive for species that migrate directly through the study area, e.g., Sooty and Slender-billed Shearwaters. Direction of movement of albatrosses almost always coincided with that of the ship, so they were not included in the figure. Biases to the data include alterations in course as a reaction to the ship, and the tendency of birds breeding in the main Hawaiian group to radiate out from land in the morning and to return to land in the evening. Because the ship normally spent little time near land, records of direction of movement of species that breed in substantial numbers in the main Hawaiian group, e.g., lightphase Wedge-tailed Shearwaters and Sooty Terns, may be biased by the chance arrival of the ship in that area in the morning or afternoon.

Certain trends are probably significant, however. Species that breed in the main Hawaiian group generally tend to fly north (or northeast or northwest) in spring and summer, and east to southwest in fall and winter. Direct migrants head north or northwest in the spring in convincing numbers, and south in the fall in equally convincing numbers. Species that breed in the South or North Pacific and winter in the study area, e.g., Juan Fernandez Petrel and Leach's Storm Petrel, fly north to west in the spring and summer and south to east in the fall and winter.

Daily Cycles of Activity

I totaled numbers of each of the more common species, according to the number of hours between sunrise and sunset they were observed, to indicate their activity cycles (fig. 31). For some, e.g., Laysan Albatross, the small sample size and the large erratic fluctuations in numbers indicate insufficient data. Others show fairly smooth curves that comply with the general impression of activity I have formed from many hours of observation. Hours six and seven after sunrise overlap hours seven and six before sunset in figure 31 as a compromise solution to the problem of including some birds in both a.m. and p.m. totals on short (11-hour) winter days, but not on long summer days of 13 hours or more.

Four basic patterns of activity are evident:

1. Peak activity near mealtimes aboard the ship. The Black-footed Albatross showed this pattern--which is not unexpected because this bird is a scavenger. Wedge-tailed Shearwater (light phase)



Wedge-tailed Shearwater (dark phase)



Sooty Shearwater



Figure 30.--Percent of sea birds seen flying in various directions in different seasons. The outer circle represents 20 percent of the total; the second circle 10 percent. If birds flying in one direction exceeded 20 percent, the bar extends past the outer circle and the percentage is indicated at the end of the bar. The sample size is given in parentheses under each figure.

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Juan Fernandez, White-necked Petrels





Figure 30.--Percent of sea birds seen flying in various directions in different seasons. The outer circle represents 20 percent of the total; the second circle 10 percent. If birds flying in one direction exceeded 20 percent, the bar extends past the outer circle and the percentage is indicated at the end of the bar. The sample size is given in parentheses under each figure.--Con.



Figure 30.--Percent of sea birds seen flying in various directions in different seasons. The outer circle represents 20 percent of the total; the second circle 10 percent. If birds flying in one direction exceeded 20 percent, the bar extends past the outer circle and the percentage is indicated at the end of the bar. The sample size is given in parentheses under each figure.--Con.



Figure 31.--Percentage of sea birds observed during each hour, 1 to 7 hours after sumrise and 1 to 7 hours before sunset. The dashed line indicates the theoretical line if birds were observed in equal numbers each hour. The number in parentheses after the species' name indicates the sample size. The numbers in parentheses after a.m. or p.m. are the percentages of total birds seen in the morning or afternoon.



Figure 31.--Percentage of sea birds observed during each hour, 1 to 7 hours after sunrise and 1 to 7 hours before sunset. The dashed line indicates the theoretical line if birds were observed in equal numbers each hour. The number in parentheses after the species' name indicates the sample size. The numbers in parentheses after a.m. or p.m. are the percentages of total birds seen in the morning or afternoon.--Continued.

- 2. Peaks in the morning and late afternoon. Juan Fernandez and Black-winged Petrels showed this activity cycle most clearly.
- 3. Peak in the middle of the day. Leach's Storm Petrels, Red-tailed Tropicbirds, Brown Noddies, and White Terns appeared most often in the middle of the day.
- 4. Peak activity at noon or late morning and again late in the afternoon. This pattern was followed by Sooty Terns, Bulwer's Petrels, and, to a lesser extent, Wedgetailed Shearwaters.

It is difficult to assess the meaning of these data in terms of what birds are actually doing. Theoretically, if movement is sporadic and unmotivated, fewer birds will be observed and more will be sitting on the water; conversely, if there is a heightened urge to feed or travel, activity should increase and a greater number of birds should be seen. The similarity in the activity cycles of species related systematically or by similar feeding habits, e.g., Juan Fernandez and Black-winged Petrels, lends some support to the data as a measure of avian activity.

Environmental Influences

A preliminary analysis of how wind direction, wind speed, air temperature, surface water temperature, and surface salinity affect the density of the more common sea bird species is presented below. The environmental data are arbitrarily applied to all sightings made in the period from one environmental observation to the next. Because environmental observations were made every 3 hours or less, the greatest distance a bird might have been seen from the site of the environmental observation within which it was included was about 30 miles. Environmental observations were grouped arbitrarily to yield from 5 to 10 incremental categories. Only observations taken between hours 0500 and 1900 were tallied. The number of birds recorded under each category was divided by the number of environmental observations made in that category. Since the environment was sampled every 30 miles the resulting figure of birds per sample is equivalent to birds per 30 miles of observation.

<u>Wind direction</u>.--Relative densities of birds at various wind directions (table 7) showed no conclusive relations, although the relatively high numbers of tropicbirds and Great Frigatebirds observed when the wind was from the west or southwest may be significant. A west wind could blow these species to the study area from the main or leeward Hawaiian islands.

Wind speed.--The numbers of birds observed at various wind speeds is believed to be a measure of the effect of wind on the observability of the birds, rather than an indication of movement of birds to avoid or to take advantage of the winds. Figure 32 shows densities of the more common species at various wind speeds in increments of 4 knots. Several basic patterns are evident. The first, typified by Leach's Storm Petrel and Bulwer's Petrel, has two peaks--a high peak when the wind is calm, or nearly so, making small, low-flying birds visible at a greater distance, and a lower peak at the greater wind speeds, when they arc higher than normal (reach the high point in an undulating flight). The second pattern, typified by Sooty and Slender-billed Shearwaters, has a single peak at medium to high winds. As winds increase, these species arc higher and are visible at a greater distance. Albatrosses are seen most often during strong winds because they are higher with increasing wind speeds and their large size makes them visible at a distance. Tropicbirds are observed most often during light winds; they are most often seen sitting on the water or are spotted directly above the ship because their call attracts the observer's attention. Waves obscure sitting birds from view, and the noise of the wind makes it difficult to hear them calling.

<u>Air temperature</u>.--Avian densities calculated for each of seven categories of air temperature at 2° increments between 16° and 30° C. are presented in figure 33. Several species show remarkably well-defined "preferences" for certain air temperatures. Even though the numbers of environmental samples at the lowest and highest categories were low (three and nine, respectively), it is probably significant that only albatrosses were seen at temperatures in the lowest category and that they were most abundant at those temperatures. No albatrosses were observed at the temperatures in the highest category.

Several species were observed in greatest densities at 26° to 27° C. These included the two most abundant breeders in the main Ha-

Table 7.--Birds seen per 30 linear miles (55.6 km.) of observation at various wind directions

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					Wind d	irection			
Species	Season	N.	NE.	Ε.	SE.	s.	SW.	w.	NW.
		I			Number o	f birds			.L
Black-footed Albatross	Spring	1.16	0.24	0.34	0.96	1.21	0.00	2.30	2.65
	Summer	0.00	0.01	0.00	0.00	0.00	-	-	-
	Fall	0.00	0.00	0.01	0.00	0.83	1.39	0.00	0.00
	Winter	5.33	0.54	0.42	0.17	1.25	10.50	0.90	3.15
Laysan Albatross	Total	6.49	0.78	0.78	1.13	3.29	11.95	3.20	5.80
	Spring	0.11	0.01	0.01	0.07	0.05	0.00	0.35	0.08
	Summer	0.00	0.00	0.00	0.00	0.00	-	-	-
	Fall	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
	Winter	0.05	0.01	0.01	0.00	0.00	0.00	0.00	0.04
	Total	0.16	0.01	0.02	0.07	0.06	0.00	0.35	0.12
Wedge-tailed Shearwater	Spring Summer Fall Winter Total	0.67 1.46 0.18 0.03 2.34	1.78 3.75 0.52 0.13 6.18	3.70 2.01 1.67 0.12 7.50	2.13 0.43 0.24 0.17 2.97	1.82 0.18 1.21 0.18 3.39	0.89 - 0.17 0.33 1.39	4.55 - 11.60 0.05 16.20	10.42 0.04 0.00 10.46
Sooty Shearwater	Spring	0.20	0.32	1.45	15.67	1.23	0.11	4.80	4.65
	Summer	0.00	0.00	0.17	0.00	0.00	-	-	-
	Fall	0.31	0.16	0.59	0.00	0.20	0.56	0.40	0.08
	Winter	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00
	Total	0.51	0.49	2.22	15.67	1.43	0.67	5.20	4.73
Slender-billed Shearwater	Fall	0.00	0.02	1.20	0.05	0.03	0.17	0.05	0.04
	Winter	0.00	0.02	0.01	0.00	0.03	0.11	0.05	0.00
	Total	0.00	0.04	1.21	0.05	0.06	0.28	0.10	0.04
Newell's Shearwater	Spring	0.03	0.08	0.15	0.10	0.11	0.22	0.05	0.19
	Summer	0.02	0.05	0.06	0.00	0.03	-	-	-
	Fall	0.00	0.03	0.03	0.00	0.04	0.00	0.00	0.04
	Winter	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
	Total	0.07	0.17	0.25	0.11	0.19	0.22	0.05	0.23
Juan Fernandez,White- necked Petrel	Spring Summer Fall Winter Total	0.02 1.51 0.08 0.12 1.63	0.73 2.33 0.96 0.11 4.13	0.48 0.97 2.02 0.20 3.67	0.01 0.16 0.25 0.23 0.65	0.01 0.00 3.48 0.23 3.72	0.06 - 0.44 0.44 0.94	0.05 - 0.00 0.00 0.05	0.31 - 2.50 0.00 2.81
Black-winged Petrel	Spring	0.02	0.19	0.20	0.15	0.00	0.00	0.00	0.04
	Summer	0.07	0.48	0.33	0.18	0.00	_	-	-
	Fall	0.44	0.71	1.39	0.35	1.32	0.50	0.00	0.12
	Winter	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00
	Total	0.55	1.40	1.94	0.70	1.32	0.50	0.00	0.16
Bulwer's Petrel	Spring	0.10	0.16	0.35	0.45	0.39	0.83	0.35	0.31
	Summer	0.07	0.18	0.17	0.04	0.10	-	_	-
	Fall	0.00	0.01	0.01	0.02	0.03	0.00	0.05	0.00
	Total	0.17	0.35	0.53	0.51	0.42	0.83	0.40	0.31
Leach's Storm Petrel	Spring	0.87	0.36	0.44	0.48	0.54	0.44	0.80	0.35
	Summer	0.05	0.00	0.01	0.01	0.01	-	-	-
	Fall	0.18	0.10	0.09	0.10	0.24	0.39	0.00	0.58
	Winter	0.36	0.18	0.08	0.46	0.34	0.22	0.20	0.04
	Total	1.46	0.64	0.62	1.05	1.13	1.05	1.00	0.97

					Wind dim	ection			
Species	Season	N.	NE.	Е.	SE.	s.	SW.	w.	NW.
		L		·	Number o	of birds			
Red-tailed Tropicbird	Spring	0.08	0.05	0.06	0.07	0.06	0.11	0.75	0.12
-	Summer	0.02	0.08	0.06	0.00	0.01	-	-	-
	Fall	0.00	0.06	0.07	0.03	0.07	0.06	0.00	0.00
	Winter	0.02	0.02	0.01	0.00	0.01	0.00	0.00	0.00
	Total	0.12	0.21	0.20	0.10	0.15	0.17	0.75	0.12
White-tailed Tropicbird	Spring	0.02	0.01	0.03	0.01	0.01	0.06	0.00	0.12
	Summer	0.03	0.04	0.03	0.00	0.01	-	-	-
	Fall	0.00	0.01	0.02	0.00	0.01	0.00	0.10	0.00
	Winter	0.08	0.04	0.01	0.02	0.06	0.28	0.05	0.00
	Total	0.13	0.10	0.09	0.03	0.09	0.34	0.15	0.12
Great Frigatebird	Spring	0.13	0.02	0.05	0.15	0.10	0.17	0.30	0.12
	Summer	0.00	0.11	0.08	0.03	0.16	-	-	-
	Fall	0.11	0.04	0.05	0.00	0.14	0.11	0.30	0.00
	Winter	0.03	0.04	0.03	0.02	0.01	0.17	0.00	0.04
	Total	0.27	0.21	0.21	0.20	0.31	0.45	0.60	0.16
Sooty Tern	Spring	3.08	5.92	14.00	7.47	13.20	4.61	22.75	27.69
booty rem	Summer	11.61	8.74	4.74	0.22	0.11	-	-	-
	Fall	0.08	2.18	3.48	0.08	3.87	0.00	0.00	0.00
	Winter	6.13	2.14	3.27	6.40	3.72	4.50	1.70	0.04
	Total	20.90	18.98	25.49	14.17	20.90	9.11	24.45	27.73
Brown Noddy	Spring	0.00	0.14	2.77	3.27	2.93	0.00	0.00	1.00
brown noddy	Summer	0.00	0.26	0.42	0.00	0.00	-	-	-
	Fall	0.00	0.01	0.36	0.00	0.00	0.00	18.05	0.00
	Winter	0.11	0.03	0.28	0.01	2.48	0.00		1.00
	Total	0.11	0.44	3.83	3.28	5.41	0.00	18.05	2.00
White Tern	Spring	0.10	0.04	0.04	0.03	0.28	0.11	0.05	0.04
MILLE TELL	Summer	0.05	0.06	0.05	0.01	0.01	-	-	-
	Fall	0.31	0.07	0.02	0.08	0.04	0.00	0.00	0.00
	Winter	0.03	0.02	0.04	0.02	0.21	0.11	0.05	0.04
	Total	0.49	0.19	0.15	0.14	0.54	0.22	0.10	0.08
Number of environmental o	bservations	N.	NE.	Е.	SE.	s.	sw.	Ψ.	NW.
	Spring	14	86	325	54	16	6	12	18
	Summer	8	107	160	7	10	0		10
	Fall	7	67	140	13	22	4		3
	Winter	32	76	85	28	32	4	0.30 - 0.30 0.60 22.75 - 0.00 1.70 24.45 0.00 - 18.05 0.00 18.05 0.05 - 0.00 0.05 0.10	5
	Total	61	336	710	102	52 71	18		26
	IULAL	01			102	/1	TO	20	20

Table 7.--Birds seen per 30 linear miles (55.6 km.) of observation at various wind directions.--Con.





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Figure 32.--Number of birds per 30 linear miles (55.6 km.) of observation at various wind speeds in increments of 4 knots (2 m. per second). The number of samples at each increment shown in parentheses below the upper figures applies to all figures.



Figure 32.--Number of birds per 30 linear miles (55.6 km.) of observation at various wind speeds in increments of 4 knots (2 m. per second). The number of samples at each increment shown in parentheses below the upper figures applies to all figures.--Continued.



Figure 33.--Number of birds seen per 30 linear miles (55.6 km.) of observation at various air temperatures in increments of 2° C. The number of samples at each increment is in parentheses under the upper figures, but pertains to all figures.



Figure 33.--Number of birds seen per 30 linear miles (55.6 km.) of observation at various air temperatures in increments of 2° C. The number of samples at each increment is in parentheses under the upper figures, but pertains to all figures.--Continued.

waiian island group, the Wedge-tailed Shearwater and Sooty Tern, as well as the two that winter in large numbers in the South Pacific, the Juan Fernandez and Black-winged Petrel. The "winterers" reach peak density in the fall at the southern end of the study area, whereas the breeders reach their peak density in the spring at the northern end.

Red-tailed Tropicbirds were associated with slightly warmer air on the average than were White-tailed Tropicbirds. Leach's Storm Petrels showed increasing densities at the lower temperatures and Bulwer's Petrels at the higher temperatures.

As would be expected for a direct migrant, Sooty Shearwaters showed no clearcut association with a particular temperature. The high density of Slender-billed Shearwaters at temperatures from 24° to 26° C. is undoubtedly a coincidence, reflecting the "wave" migration of this species (96 percent of all birds were observed in a 5-day period).

The relative randomness in the abundance of Great Frigatebirds and White Terns at different air temperatures is more difficult to explain. Possibly the sample size of species that show a spotty distribution and are in low abundance would have to be larger to show any clearcut association. A second possibility is that other conditions, environmental or otherwise, have an overriding effect on the distribution of these species.

The marked association that some species have with certain air temperatures suggest that air temperature may be a contributing factor in the north-south distribution of birds in the study area.

Surface water temperature.--Many species showed clear-cut associations with certain water temperatures (fig. 34). Albatrosses were seldom found over water warmer than 23° C., whereas Juan Fernandez Petrels, Black-winged Petreis, and dark-phase Wedge-tailed Shearwaters were seldom found over water colder than 23° C. Sooty Terns were most dense at 24° and 25°, and also at 27°, a reflection of their bimodal distribution discussed in the species accounts. In general, the species that were distributed predominantly in the north or the south of the study area showed associations with colder or warmer water, whereas the species that were distributed at random showed no particular temperature associations. These patterns would be expected since water temperature is directly related to latitude in the study area. Brown Noddy distribution was unchanged regardless of seasonal change of water temperature.

Surface salinity .-- Sea bird densities at various salinity categories in increments of 0.30 p.p.t. (parts per thousand) showed several poorly defined patterns (table 8). The most notable were in the albatrosses, which tended to be most numerous over high-salinity water, and the wintering southern petrels--Juan Fernandez and Black-winged--which were generally in less saline water. These patterns undoubtedly reflect the difference in geographical ranges of these species, however, because the water was less saline toward the southern end of the study area than at the northern end. A much clearer picture is presented in the sea surface-temperature analysis, which is more directly a factor of latitude. From the present arbitrarily chosen set of increments it appears unlikely that surface salinity is a significant limiting factor in the distribution of sea birds in the study area.

From the data presented here it cannot be said that temperature actually limits distribution, but it is clear that relative densities of many sea birds are associated much more closely with air and surface water temperatures than with wind direction, wind speed, and surface salinity.

Flock Analysis

For this analysis a flock is regarded as a group of five or more birds acting as a unit. Flocks of direct migrants, e.g., Sooty Shearwaters or Golden Plovers, are excluded from consideration because they use airspace only. Exceptions are the few Sooty Shearwaters (53 of 3,725, or 1.4 percent) observed feeding in flocks. Included in the analysis are flocks of birds not observed feeding but which probably fed in the study area during the 24-hour period in which observations took place. This analysis deals with the abundance, distribution, composition, species participation and tendency to flock of 893 flocks.

Flock abundance.--Birds in flocks accounted for 69.5 percent of the total birds observed (table 9). The 3 months which fell substantially below this percentage--March 1964, November 1964, and April 1965--were months of heavy



Figure 34.--Number of birds seen per 30 linear miles (55.6 km.) of observation at various water temperatures in increments of 1° C. The number of samples in each increment is given below the temperature.



Figure 34.--Number of birds seen per 30 linear miles (55.6 km.) of observation at various water temperatures in increments of 1° C. The number of samples in each increment is given below the temperature.--Continued.



Figure 34.--Number of birds seen per 30 linear miles (55.6 km.) of observation at various water temperatures in increments of 1° C. The number of samples in each increment is given below the temperature.--Continued.



Figure 34.--Number of birds seen per 30 linear miles (55.6 km.) of observation at various water temperatures in increments of 1° C. The number of samples in each increment is given below the temperature.--Continued.

migration. The numbers of migrants increased the totals in these months and caused a decrease in the relative abundance of flocking birds.

The greatest numbers of birds in flocks were in May of both years. Sooty Terns, Wedgetailed Shearwaters, and Brown Noddies feeding in the main Hawaiian area accounted for the large numbers. A high plateau was maintained from June to September, and a second peak was recorded in October. Numbers in flocks were lowest in November and December, when breeding activity was almost nil in the main Hawaiian area. In November 1964 the number of birds in flocks (925) was second lowest, and the mean number per flock (27.2) was lowest for the 15 months of the study. In December 1964 21 flocks had only 880 birds--the lowest monthly total recorded. Birds in flocks increased in January as Sooty Terns returned to the Hawaiian Islands and remained steady until May, when numbers reached a peak again.

Although the number of flocks observed in a month was highest (100) in June 1965, the mean number of birds per flock was low. In May of both years 87 flocks were seen, and the mean number of birds per flock in May 1965 (88.1) was the highest average in any month.

The largest single flock contained 955 ± 300 birds. It was observed on May 31, 1965 about 50 miles north of Oahu.

				Salinit	у (р.р.	t.)		.	.	
Species	Period	33.00 33.29	33.30 33.59	33.60 33.89	33.90 34.19	34.20 34.49	34.50 34.79	34.80 35.09	35.10 35.39	35.40 35.69
<u></u>			1	Number	of bir	ds	/	.	.	
Black-footed Albatross	Spring Winter	- -	- -	_ 0.00	0.55 0.81	0.29 0.35	0.58 1.39	1.57 14.48	3.51 16.09	1.00 0.00
Laysan Albatross	Spring	-	-	-	0.05	0.11	0.21	0.05	0.30	0.00
Wedge-tailed Shearwater	Spring Summer Fall Winter	- 3.57	- _ 1.88 -	_ 5.89 1.12 3.18	6.95 3.85 3.53 0.33	2.68 7.51 1.00 0.23	9.65 6.99 1.52 0.88	8.88 7.53 15.20 0.58	1.30 2.69 0.95 0.24	0.00 0.67 0.00 0.00
Sooty Shearwater	Spring Fall	_ 0.00	- 8.06	_ 1.92	1.45 1.27	3.58 0.20	2.08 3.59	1.69 1.97	19.14 1.35	$0.00 \\ 1.00$
Slender-billed Shearwater	November	0.00	0.17	0.15	20.18	0.00	44.50	3.86	7.60	0.00
Christmas Shearwater	Total	0.00	0.00	0.03	0.03	0.02	0.01	0.01	0.01	0.00
Newell's Shearwater	Spring Summer Fall Winter	 0.14 	 0.12	- 0.00 0.10 0.09	0.14 0.00 0.03 0.01	0.14 0.20 0.00 0.05	0.26 0.20 0.04 0.00	0.55 0.28 0.19 0.00	0.15 0.00 0.09 0.14	0.00 0.00 0.15 0.00
Juan Fernandez, White- necked Petrel	Spring Summer Fall Winter	_ 19.71 _	- 36.18 -	_ 12.89 13.00 3.45	0.27 3.25 8.47 1.40	0.94 1.83 2.13 0.41	1.16 4.62 7.04 0.33	0.83 7.40 1.93 0.16	0.03 0.27 0.85 0.09	0.00 0.33 0.15 0.00
Black-winged Petrel	Spring Summer Fall Winter	- 1.29 -	- 13.59 -	- 0.78 8.39 0.27	0.05 2.20 10.93 0.11	0.38 4.46 3.27 0.01	0.55 1.08 4.59 0.04	0.19 1.88 2.52 0.06	0.02 0.31 1.67 0.07	0.00 0.00 2.08 0.00
Kermadec Petrel	Total	0.43	0.06	0.10	0.03	0.07	0.03	0.02	0.03	0.00
Bulwer's Petrel	Spring Summer Fall	_ _ 0.00	- _ 0.00	- 0.11 0.04	1.64 0.05 0.07	0.56 0.54 0.07	0.48 0.45 0.00	1.36 1.13 0.11	0.15 0.46 0.00	0.00 1.33 0.00
Leach's Storm Petrel	Spring Summer Fall Winter	_ 1.86	 0.94 	- 0.00 1.06 0.64	1.73 0.05 0.60 0.78	0.95 0.00 0.27 0.94	0.84 0.02 0.26 0.71	1.38 0.04 0.22 0.28	1.13 0.08 0.47 0.38	1.00 0.00 0.54 0.00
Red-tailed Tropicbird	Spring Summer Fall Winter	- 0.00	_ 0.47 _	- 0.00 0.14 0.09	0.27 0.05 0.17 0.03	0.12 0.37 0.40 0.04	0.11 0.17 0.37 0.16	0.15 0.14 0.26 0.04	0.30 0.31 0.22 0.00	0.00 0.67 0.23 0.00
White-tailed Tropicbird	Spring Summer Fall Winter	 0.00 	- 0.00	- 0.00 0.00 0.00	0.05 0.00 0.03 0.02	0.09 0.20 0.07 0.16	0.07 0.08 0.07 0.18	0.16 0.08 0.11 0.18	0.06 0.08 0.05 0.07	0.00 0.00 0.15 0.00
Blue-faced Booby	Winter	-	-	0.00	0.02	0.03	0.05	0.04	0.02	0.00
Great Frigatebird	Spring Summer Fall Winter	_ 0.00 _	 0.00	- 0.00 0.12 0.18	0.18 0.00 0.13 0.07	0.14 0.27 0.07 0.13	0.24 0.35 0.22 0.10	0.17 0.40 0.33 0.34	0.08 0.04 0.24 0.07	0.00 0.00 0.38 0.00
Sooty Tern	Spring Summer Fall Winter	- - 6.43 -	- 51.41 -	- 1.22 25.61 9.09	29.18 4.15 12.97 8.60	12.99 8.20 15.40 19.36	31.51 18.66 13.04 19.90	29.49 46.60 3.56 20.08	16.16 19.27 0.04 0.07	0.00 0.67 0.08 0.00

Table 8.--Sea bird densities in birds per 30 linear miles (55.6 km.) of observation at various surface salinities in increments of 0.30 p.p.t. (parts per thousand)

				Salinity (p.p.t.)							
Species	Period	33.00 33.29	33.30 33.59	33.60 33.89	33.90 34.19	34.20 34.49	34.50 34.79	34.80 35.09	35.10 35.39	35.40 35.69	
	*			Number	of bir	ds	L		•	•	
Brown Noddy	Spring Summer Fall Winter	_ 0.00 _	_ 0.00 _	- 0.00 0.02 0.00	11.27 0.00 0.00 0.00	0.43 0.00 0.00 0.15	8.74 0.33 0.00 0.63	1.87 4.60 6.99 6.14	0.03 0.00 0.04 0.00	0.00 0.00 0.00 0.00	
White Tern	Spring Summer Fall Winter	- 0.00 -	- 0.18	0.00 0.08 0.18	0.50 0.00 0.57 0.04	0.18 0.17 0.27 0.31	0.08 0.19 0.11 0.31	0.01 0.28 0.08 0.04	0.07 0.12 0.00 0.00	0.00 0.00 0.00 0.00	
Number of environmental ob	servations										
	Spring Summer Fall Winter	0 0 7 0	0 0 17 0	0 9 49 11	22 20 30 90	185 41 15 80	237 169 27 51	195 72 88 50	88 26 55 45	1 3 13 1	
	Total	7	17	69	162	321	484	405	214	18	

Table 8.--Sea bird densities in birds per 30 linear miles (55.6 km.) of observation at various surface salinities in increments of 0.30 p.p.t. (parts per thousand).--Con.

Table	9Monthly	abundance	and	size	of	flocks
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		Total birds	Mean per	Percentage of total
Date	Flocks	in flocks	· ·	birds
<u>1964</u>	Number	Number	Number	Percent
March	31	1,237	39.9	35.5
April	27	2,188	81.0	65.3
May	87	4,917	56.5	79.1
June	58	3,397	58.6	75.9
July	69	3,932	57.0	78.3
September	52	2,612	50.2	63.8
October	86	4,354	50.6	67.0
November	34	925	27.2	34.6
December	21	880	41.9	64.3
<u>1965</u>				
January	42	2,551	60.7	86.2
February	63	1,907	30.3	78.0
March	58	3,142	54.2	76.3
April	78	2,255	28.9	55.4
Мау	87	7,661	88.1	83.4
June	100	3,638	36.4	65.1
Total	893	45,596		
Mean	59.5	3,039.7	51.1	69.5

Flock distribution.--Almost all months showed two pronounced density centers--one within 50 miles of the main Hawaiian islands and the other at the southern end of the study area, usually in the southeastern corner (fig. 35a-d).

The density center near the Hawaiian Islands was absent in November and December, and the southern density center was lacking in May 1965 (but not May 1964, when it was probably most pronounced). In addition, secondary density centers developed during some months, usually in the area between the two main centers or at the northwestern corner. Only in July 1964 were flocks of any size seen in the northeastern corner. In all other months this area was devoid of flocks, or nearly so.

Flock composition.--Sooty Terns dominated the composition of flocks in the study area in all months except September 1964 (fig. 36). Wedge-tailed Shearwaters were second most abundant in flocks. These two species accounted for over three-quarters of all birds in flocks. Although both species were most abundant in the main Hawaiian island area, both were well represented in more pelagic flocks too, especially in the southern center of flock density. Noddies and boobies were in the flocks near



Figure 35a.--Distribution of birds in flocks, March-June 1964.

the main Hawaiian islands where they were fairly abundant. Juan Fernandez Petrels and Black-winged Petrels were found most frequently in flocks in the southern end of the study area.

The following species were also observed in mixed or pure flocks but their numbers never accounted for more than 1 percent of total numbers of birds in flocks for any one month:

Kermadec Petrel Phoenix Petrel Bulwer's Petrel Pink-footed Shearwater Newell's Shearwater Sooty Shearwater Christmas Shearwater Leach's Storm Petrel Red-tailed Tropicbird White-tailed Tropicbird Great Frigatebird Pomarine Jaeger Long-tailed Jaeger Skua Blue-gray Noddy Black Noddy White Tern

<u>Flock participation</u>.--Sooty Terns participated in 76.0 percent of all flocks--considerably more than the next closest species, Wedgetailed Shearwater (39.0 percent, table 10). No other species participated in more than onequarter of all flocks. Wedge-tailed Shearwaters were the second-most-abundant birds in flocks, although they had a lower tendency to flock than did the Sooty Tern. Their presence most of the year in the area increased their relative flock participation over Brown Noddies, which were restricted geographically, and Juan Fernandez





Petrels, which were somewhat restricted phenologically.

Flocking tendency.--Among regularly observed species Sooty Terns exhibited the greatest tendency to flock (table 11). Brown Noddies tended to flock nearly as frequently, although only around the main Hawaiian islands. Juan Fernandez Petrels showed an almost equally strong tendency in a more pelagic situation. Of interest was the relatively high flocking tendency of White Terns and Great Frigatebirds.

These figures express, first of all, the feeding patterns of the various species. Those species or species groups which tend to feed in a solitary manner--e.g., Leach's Storm Petrel, Bulwer's Petrel, and tropicbirds--demonstrate a relatively low percentage of participation in flocks, whereas those that feed collectively show relatively high percentages. The selec-

Table 10.--Participation by species or species groups in 893 bird flocks in the study area

Species	Flocks	Participation
	Number	Percent
Sooty Tern	679	76.0
Wedge-tailed Shearwater	348	39.0
Other shearwaters or petrels	219	24.5
Juan Fernandez Petrel	207	23.2
Boobies	110	12.3
Brown Noddy	100	11.2
Great Frigatebird	80	9.0
White Tern	79	8.8
Black-winged Petrel	72	8.1



Figure 35b.--Distribution of birds in flocks, July-November 1964.

tive advantage of flock feeding, e.g., many eyes to spot food and a larger area under surveillance, is partially counterbalanced by the necessity for sharing the food supply, once found, because of intraflock competition.

A low flocking tendency index may also be the result of direct migration through the area, e.g., Sooty Shearwater, so that even though this species feeds in large flocks in its breeding and nonbreeding ranges, the marginal attraction of an unaccustomed food supply is usually more than outweighed by the migration tendency.

Thus, flocking tendency provides a measure of species utilization of the area. The fact that 83.3 percent of Juan Fernandez Petrels and only 1.4 percent of Sooty Shearwaters were in flocks suggest that Juan Fernandez Petrels were resident in the area for part of the year, and that Sooty Shearwaters were not. No account can be taken of nocturnal feeding behavior, since all observations were made between sunrise and sunset. It is presumed that nocturnal feeding by some, if not all, species is considerable, and that it may exceed diurnal feeding (see Gould, 1967).





Figure 35c.--Distribution of birds in flocks, December 1964 to March 1965.




Figure 35d.--Distribution of birds in flocks, April-June 1965.





Figure 36.--Relative abundance of species or species groups found in flocks, averaged over 15 months.

Species or group	Total birds	Birds in flocks	Percentage in flocks
	Number	Number	Percent
Sooty Tern	30,802	28,625	92.9
Wedge-tailed Shearwater	8,733	5,941	68.0
Brown Noddy	3,937	3,344	84.9
Sooty Shearwater	3,725	53	1.4
Juan Fernandez Petrel	2,766	2,303	83.3
Black-winged Petrel	2,061	594	28.8
Boobies	1,209	817	67.6
Leach's Storm Petrel	1,050	64	6.1
Bulwer's Petrel	624	58	9.3
Black Noddy	435	420	96.6
Tropicbirds	413	19	4.6
Great Frigatebird	304	124	40.8
Newell's Shearwater	267	44	16.5
White Tern	227	152	67.0
Jaegers	184	41	22.3
Kermadec Petrel	66	18	27.3

Table 11.--Flocking tendency by species or species group

SUMMARY

The avifauna of the study area was composed of birds breeding in the North Pacific (Alaska and Siberia: 13 species) and the South Pacific (New Zealand, Australia, and South America: 15 species), in addition to those breeding in the nearby Hawaiian group or other island groups of the central Pacific (23 species). In general, breeding species of the Hawaiian area were most abundant from March to September, direct migrants were most abundant from March to May and October to November, and wintering birds from May to November with a peak in October.

Analysis of the distribution of birds with respect to their distance from nearest land showed that birds breeding in the main Hawaiian group were most abundant within 50 miles of land, although many were seen as far as 700 miles from land. Sooty Terns and Wedgetailed Shearwaters were most abundant up to 200 miles from land, and again at 700 miles from land. Direct migrants showed no landorientation. Wintering birds were most abundant farthest from land.

Birds were not distributed at random in the study area. The area within 50 miles of the main Hawaiian islands consistently maintained the highest sea bird densities. The southern end of the area (between lat. 10° and 12° N.) also maintained high densities even though it was farthest from land. Density was consistently low in the northeastern portion of the area. High density near the main Hawaiian islands was a result of concentrations of sea birds (primarily Sooty Terns, Brown Noddies, and Wedge-tailed Shearwaters) on islets off the main Hawaiian islands during the breeding season, March-November. High density at the southern end was apparently due to the attraction of birds to an area where cooler, subsurface, food-rich water domes came close to the surface. The estimated average total population of all species on any day was: 466,320 birds in spring (March-May); 419,750 in summer (June-August); 410,640 in fall (September-November); and 260,880 birds in winter (December-February).

Taking into account the estimated number of sea birds in the study area, their body weights, and the percentage of their weights that they consume daily, the birds consume 7,386.6 metric tons of fish, squid, and other marine organisms annually.

Sooty Tern was the most abundant species, followed in order of decreasing abundance by Wedge-tailed Shearwater, Sooty Shearwater, Brown Noddy, Juan Fernandez Petrel, Leach's Storm Petrel, Black-winged Petrel, and Slenderbilled Shearwater.

Analysis of the direction of movement of sea birds in the study area showed that almost all direct migrants headed north or northwest in the spring, and south or southeast in the fall. Wintering species flew mainly west in the spring and south in the fall. The direction of movement of the main Hawaiian group was away from breeding islands in the morning and toward them in the evening.

The relative abundance of sea birds at each hour after sunrise and before sunset showed that most species were more active in the early morning or at noon, and again shortly before sunset. As would be expected of birds that scavenge behind ships regularly, albatrosses were most active when meals were being served on board ship.

The number of birds associated with each of several categories of water surface salinity, surface temperature, air temperature, wind speed, and wind direction, suggests associations between certain species and certain environmental conditions. Albatrosses and Leach's Storm Petrels were most abundant at low air and water temperatures. Wedge-tailed Shearwaters were most abundant at a water temperature of 25° C. (light-phase) or 27° C. (darkphase); Juan Fernandez and Black-winged Petrels increased in abundance as air and water became warmer. Sooty Terns were most abundant between 23° and 27° C. air and water temperatures. Data on sea bird numbers at various wind speeds, wind directions, and surface salinities showed only weak associations, suggesting that these environmental influences do not play a significant role in delimiting sea bird distribution in the study area.

The composition, size, and distribution of 893 flocks were analyzed. Seventy percent of all birds observed were seen in flocks. Sooty Terns had the strongest flocking tendency. Ninety-three percent of all Sooty Terns were in flocks, and 76 percent of all flocks contained Sooty Terns.

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APPENDIX TABLES

Appendix table 1.--Birds and other animals observed in the study area and their ADP numerical equivalents

007000	Porpoise	
007007	Whale	
010000	Sea turtle	
100000	Bird	
121000	Albatross	Diomedeidae
121110	Black-footed Albatross	<u>Diomedea</u> <u>nigripes</u>
121111	Laysan Albatross	<u>Diomedea</u> <u>immutabilis</u>
121112	Black-browed Albatross	Diomedea melanophris
122000	Shearwater-petrel	Procellariidae
122101	Fulmar	Fulmarus glacialis
122500	Shearwater	<u>Puffinus</u> sp.
122501	Pale-footed Shearwater	<u>Puffinus</u> carneipes
122504	Pink-footed Shearwater	Puffinus creatopus
122510	Wedge-tailed Shearwater	Puffinus pacificus
122518	New Zealand Shearwater	<u>Puffinus</u> <u>bulleri</u>
122519	Sooty Shearwater	<u>Puffinus</u> griseus
122520	Slender-billed Shearwater	<u>Puffinus</u> <u>tenuirostris</u>
122521	Christmas Shearwater	<u>Puffinus</u> <u>nativitatis</u>
122524	Newell's Shearwater	Puffinus puffinus
122600	Petrel	<u>Pterodroma</u> sp.
122601	Capped Petrel	<u>Pterodroma</u> <u>hasitata</u> supersp.
122606	Dark-rumped Petrel	Pterodroma phaeopygia
122608	Juan Fernandez Petrel	Pterodroma externa externa
122609	White-necked Petrel	<u>Pterodroma</u> <u>externa</u> <u>cervicalis</u>
122615	Solander's Petrel	<u>Pterodroma</u> solandri
122624	Mottled Petrel	<u>Pterodroma</u> inexpectata
122629	Bonin or Black-winged Petrel	<u>Pterodroma</u> <u>hypoleuca</u>
122630	Bonin Petrel	Pterodroma hypoleuca hypoleuca
122631	Black-winged Petrel	<u>Pterodroma hypoleuca nigripennis</u>
122633	Kermadec Petrel	<u>Pterodroma</u> <u>neglecta</u>
122636	Phoenix Petrel	<u>Pterodroma</u> <u>alba</u>
122642	Herald Petrel	<u>Pterodroma</u> arminjoniana heraldica
122653	White-winged Petrel	Pterodroma leucoptera
122701	Bulwer's Petrel	<u>Bulweria</u> <u>bulwerii</u>
123000	Storm Petrel	Hydrobatidae
123409	Leach's Storm Petrel	Oceanodroma leucorhoa
123419	Sooty Storm Petrel	<u>Oceanodroma tristrami</u>
123423	Fork-tailed Storm Petrel	<u>Oceanodroma</u> <u>furcata</u>

Appendix table 1.--Birds and other animals observed in the study area and their ADP numerical equivalents.--Continued

131100	Tropicbird	Phaethontidae
131106	Red-tailed Tropicbird	Phaethon rubricauda
131112	White-tailed Tropicbird	Phaethon lepturus
133200	Booby	Sulidae
133206	Blue-faced Booby	Sula dactylatra
133213	Red-footed Booby	<u>Sula</u> <u>sula</u>
133217	Brown Booby	<u>Sula leucogaster</u>
136107	Great Frigatebird	Fregata minor
141000	Shore bird	Charadriiformes
141209	Golden Plover	<u>Pluvialis</u> <u>dominica</u>
141401	Ruddy Turnstone	<u>Arenaria</u> <u>interpres</u>
142101	Bristle-thighed Curlew	<u>Numenius</u> <u>tahitiensis</u>
142201	Wandering Tattler	<u>Heteroscelus</u> <u>incanum</u>
142700	Sanderling	Crocethia alba
143000	Phalarope	Phalaropodidae
144100	Jaeger	Stercorariidae
144101	Pomarine Jaeger	<u>Stercorarius</u> pomarinus
144103	Long-tailed Jaeger	<u>Stercorarius</u> <u>longicaudus</u>
144201	Skua	<u>Catharacta</u> skua
145100	Gull	Larinae
145184	Glaucous-winged Gull	Larus glaucescens
146000	Tern	Sterninae
146100	Noddy	Anous sp.
146101	Brown Noddy	<u>Anous</u> stolidus
146110	Black Noddy	<u>Anous tenuirostris</u>
146201	Blue-gray Noddy	<u>Procelsterna</u> <u>cerulea</u>
146301	White Tern	<u>Gygis</u> <u>alba</u>
146835	Arctic Tern	<u>Sterna paradisaea</u>
146866	Gray-backed Tern	<u>Sterna lunata</u>
146867	Sooty Tern	<u>Sterna</u> <u>fuscata</u>
190000	Non sea bird	

Appendix table 2.--Daily data summaries. Identification is the ADP-coded species name. Quantity is the total number of birds of a species seen in a day; incidents are the number of sightings of that species in a day. Noon location is expressed in octant, degrees and minutes latitude, degrees and minutes longitude. Octant 1 is the area within lat. 0°-90° N. and long. 90° W.-180°. The initial digit of longitudes 100° or greater is omitted, hence if longitude is 5740, read 157°40'. Hours are the duration of observations; miles are the nautical miles traveled during observations. Ship 6 is the <u>Townsend Cromwell</u>.

DATE	INENTIFICATION	QUANTITY	PER HOUR	PER HILF	INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	SHIP	
03 16 44	867000	1	.?	. 12	1 3	1 2100 5740	4.1	50	2	•	
	122000	3	. 2	. 52	1						
	122510	;	.2	. 12	1 2						
	133200	2	1.7	.14	1						
	133213	10	2.4	.20	13						
	146101 146857	3 304	.7	16 6 18	2						
03 17 64	010000	1	. 1	. 1:	1	1 1817 5701	12.0	110	\$	6	
	100000	1 2	. 1 . 1	. 11	1 2						
	122510	1	. 1	. a :	1						
	122524	1 3	.1 .?	.01	1 2						
	122691	3 2	.2	. 22	2						
	173409	2	.1	. 91	2						
	1 %110n 14100n	2 1	.1 .1	.01	1 1						
3 18 64	146867	14	1.1	.1?	, 1	1 1423 5704	12.0	137	7	6	
	172590	1 3	.1	.31 .02	3				٠	-	
	172510 172518	10 1	. 6 . 1	.07	1						
	123409	2,	. 1	.01	2						
	131104 144100	1	.5	. 35	1						
13 19 64	146867	63 2	5.2	.45	4 2	1 1128 5549	11.9	179	2	6	
	122501	2	.1	.01	2 2				-		
	122510	2 5	.1	.01	4						
	172521	1 2	.1	.01	1 2						
	173409	4	.3	.03	4						
	131104 144100	2 1	.1	.01 .01	2 1						
	146101 146301	1	. 1	. 91	1						
	146867	1 20	1.6	.01	1						
3 20 64	122000	4	.3	.03	1	1 1351 5359	12.3	122	2	•	
	122500	8	. 6	.06	8						
	122510 122519	6 13	.4	.04 .10	5						
	172524	1	.1	.01	1						
	123000	2	- 1	.01	2						
	123409 131190	6 2	.4	.04	6 1						
3 21 64	146867	85	6.9	. 49	5	1 1756 5401	12.3	123	2		
	12111	1	.1	.01	1				•	-	
	122000 122500	5 10	.4	.04 .08	5						
		10	1.5	. 15	13						
	122510		.,	. 05	7						
	12251n 122519 172524 12260n	19 7 1 2	.5	, 05 . 01 . 01	7 1 1						
DATE	122519 172524 12260n	1 2	.5 .1 .1	,05 .01 .01	1 1	NOON 1 0017100	HOUPP	HT: ==	CRUTES	541 B	
DATE 3 21 64	122510 172524 122600 IDENTIFICATION 182601	1 2 GUANTETY	.5 .1 .1	,05 .01 .01 PER HILE .01	1	NOON LOCATION 1 1756 5401	HOURS 12.3	HTLE S 123	CRUISE 2	5H1P 6	
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DATE 4 23 64	122000 122534 192534 192530 122530 122530 123400 123400 133400 134405 134405 122000 122000 122000 122530 122530 122530	1 1 0UANTITY 1 6 1 2 4 4 2 5 1 1 6 1 1 8 9 3 3 2	.1 .1 .1 .1 .4 .4 .1 .1 .3 .1 .3 .1 .4 .1 .7 .2 .1	. 01 . 01 . 01 . 03 . 01 . 03 . 01 . 03 . 01 . 04 . 04 . 04 . 04 . 04 . 04 . 05 . 06 . 02 . 01	1 1 1 1 4 1 2 4 4 1 4 1 4 1 9 2 2 2	NGGN LDCATION 1 1938 5103	12.7	105	3	٠
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DATE 4 23 64 4 24 n4	122000 122504 122504 122510 122510 122610 122610 123400 13100 13400 13100 144101 144401 122500 125500 125500 125500 125500 125000 125500000000	1 1 1 1 6 1 1 2 2 5 1 1 2 5 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 3 1 3 1 1 3 1 3 1 1 3 1 3 1 1 3 1 1 3 1 3 1 1 3 1 3 1	.1 .1 PER HOUR .1 .1 .1 .1 .1 .3 .1 .1 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 01 . 01 . 05 . 01 . 03 . 03 . 03 . 03 . 04 . 04 . 04 . 02 . 01 . 04 . 02 . 01 . 01 . 02 . 01 . 01 . 02 . 01 . 01 . 01 . 05 . 01 . 01 . 03 . 03 . 03 . 03 . 03 . 03 . 03 . 03	1 1 1 1 4 1 2 4 4 4 1 1 1 9 9 2 2 2 10 1 1	NCON LOCATION 1 1938 5103 1 1600 5101	12.7	105	3	•
DATE 4 23 64	122000 122504 122504 122510 122510 122510 122510 122510 123100 133100 133100 12400 12400 122500 122500 122500 122500 122500 122500 12300 12300 12300 12300 12300 12300 12300 12300 12300 12300 12300 12300 12300 12300 12300 12300 12400 144000 144000 144000	1 1 1 1 6 1 2 4 2 5 1 1 6 9 9 9 3 7 2 1 3 1 1 1 1 1	.1 .1 PER MOUR .1 .4 .1 .3 .1 .3 .1 .4 .1 .1 .0 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 05 . 01 . 05 . 01 . 01 . 01 . 03 . 01 . 04 . 01 . 05 . 01 . 03 . 04 . 04 . 04 . 04 . 04 . 04 . 04 . 05 . 05 . 05 . 05 . 05 . 05 . 05 . 05	1 1 1 1 4 4 2 4 4 4 4 1 4 4 1 1 1 1 3 1 1 1 1	NGGN LDCATION 1 1938 5103	12.7	105	3	٠
DATE 4 23 64 4 24 n4	122000 122504 122519 122519 122519 122519 122519 122519 122519 123100 131107 12310 12310 122510 122510 122510 122510 123112 123112 123112 123112 123112 123112 123100 13112 13	1 1 1 1 6 1 1 2 2 5 1 1 2 5 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 3 1 3 1 1 3 1 3 1 1 3 1 3 1 1 3 1 1 3 1 3 1 1 3 1 3 1	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 01 . 01 . 01 . 03 . 04 . 04 . 04 . 04 . 04 . 04 . 04 . 04	1 1 1 1 4 4 2 4 4 1 4 4 4 1 1 1 1 1 1 1	NCON LOCATION 1 1938 5103 1 1600 5101	12.7	105	3	•
DATE 4 23 64 4 24 n4	122000 122504 122504 122510 122510 122510 122500 123100 123100 131100 144101 144101 122500 122510 122500 133102 122500 133102 144101 144001 144101 144001 144101 144001 144001 142500 122500	1 1 1 0 1 1 0 1 1 2 4 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 01 . 01 . 01 . 03 . 03 . 03 . 04 . 04 . 04 . 04 . 04 . 04 . 04 . 04	1 1 1 1 4 4 4 4 4 4 4 4 4 1 2 2 2 10 1 1 1 1 3 1 1 1 1 3 1 1 1 1 1 5 1 1 1 1	NCON LOCATION 1 1938 5103 1 1600 5101	12.7	105	3	•
DATE 4 23 64 4 24 n4	122004 122504	1 1 1 0 0 0 0 1 1 2 4 2 4 2 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 PER HOUR .1 .4 .4 .1 .3 .3 .3 .4 .1 .4 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 01 . 05 . 01 . 03 . 03 . 03 . 04 . 01 . 04 . 04 . 05 . 02 . 01 . 01 . 04 . 02 . 01 . 01 . 01 . 01 . 01 . 01 . 01 . 01	1 1 1 4 4 2 4 4 4 1 4 4 1 1 4 1 1 1 1 1	NCON LOCATION 1 1938 5103 1 1600 5101	12.7	105	3	•
DATE 4 23 64 4 24 n4	122004 122504 122504 122514 122519 122519 122519 122509 123105 124101 144101 122009 122509 122509 122509 122509 122509 122509 122509 122509 122509 122509 123112 144100 14400 12400 12400 122509 125000 125000 1250000000000	1 1 1 1 6 6 1 2 4 2 5 1 6 1 8 9 3 7 2 3 1 1 1 5 1 1 1 5 5 1 1 1 2 4 2 2 4 2 5 1 1 1 2 4 2 4 2 5 1 1 5 1 2 4 2 4 2 5 1 1 1 5 1 2 4 2 4 2 2 4 2 5 1 1 1 1 1 5 1 2 2 4 2 2 4 2 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 PER HOUR .1 .4 .1 .3 .3 .3 .4 .4 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 01 . 05 . 01 . 03 . 03 . 03 . 03 . 04 . 04 . 04 . 04 . 05 . 02 . 01 . 04 . 04 . 01 . 04 . 04 . 01 . 01 . 05 . 01 . 03 . 04 . 05 . 01 . 03 . 04 . 05 . 01 . 03 . 04 . 05 . 01 . 05 . 01 . 03 . 04 . 05 . 01 . 05 . 01 . 03 . 04 . 05 . 01 . 03 . 04 . 05 . 01 . 03 . 04 . 04 . 04 . 04 . 04 . 04 . 04 . 04	1 1 1 1 4 1 2 2 4 4 1 4 4 1 4 1 4 1 1 3 1 1 1 1 1 1 1 1	NCON LOCATION 1 1938 5103 1 1600 5101	12.7	105	3	•
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DATE 4 23 64 4 24 n4	122000 122504 122510 122510 122510 122600 131000 13100 13400 13100 144101 144635 122000 122500 122500 122500 122500 122510 122500 12310 122500 122500 12310 122500 125000 12500 1250	1 1 1 1 0 0 0 0 1 1 2 4 2 5 1 4 2 5 1 1 3 3 1 1 1 1 1 2 4 2 5 1 1 2 4 2 5 1 1 2 4 2 5 1 1 2 4 2 5 1 1 2 4 2 5 1 1 2 4 2 5 1 1 2 4 2 5 1 1 2 4 2 5 1 1 2 4 2 5 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 01 . 01 . 03 . 03 . 03 . 03 . 03 . 03 . 03 . 04 . 04 . 04 . 04 . 04 . 04 . 05 . 02 . 01 . 01 . 04 . 02 . 01 . 01 . 01 . 01 . 02 . 01 . 01 . 01 . 01 . 02 . 01 . 01 . 01 . 02 . 01 . 01 . 01 . 01 . 02 . 01 . 01 . 01 . 01 . 02 . 01 . 01 . 01 . 02 . 01 . 01 . 01 . 02 . 01 . 01 . 01 . 02 . 01 . 01 . 01 . 01 . 01 . 02 . 01 . 01	1 I MCIDENTS 1 4 4 4 4 4 4 4 4 4 4 4 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4	NCON LOCATION 1 1938 5103 1 1600 5101	12.7	105	3	•
DATE 4 23 64 4 24 n4	122000 122504 192516 122516 122510 122600 131000 131000 131000 131000 134000 134000 122500 122500 122500 122500 122500 133100 144100 144000 144000 144000 144000 122500 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122500	1 1 1 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 01 . 05 . 05 . 05 . 03 . 03 . 03 . 03 . 03 . 04 . 04	1 I MCIDENTS 1 4 4 4 4 4 4 4 4 4 4 4 4 4	NCON LOCATION 1 1938 5103 1 1600 5101	12.7	105	3	•
DATE 4 23 64 4 24 A4 4 25 64	122000 122504 122504 122510 122510 122500 133100 133100 133100 13400 131100 144101 144035 122500 122510 122510 122510 133102 133102 133102 133102 133102 133102 133102 133102 133102 122510 122500 122510 122501 122501 122501 122510 122500 122510 122500 122510 122500 122500 122500 122500 122500 12310 122500 12310 122500 13310 122500 1200000	1 1 0 0 0 1 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 01 . 01 . 03 . 03 . 03 . 04 . 01 . 04 . 01 . 01	1 1 1 1 4 4 2 2 4 4 1 4 1 4 4 1 4 4 1 4 4 1 4 1	NCON LOCATION 1 1938 5103 1 1600 5101 1 1255 5100	12.7	105 138 57	3	•
DATE 4 23 64 4 24 n4	122000 122504 122504 122510 122510 122510 123000 133100 133100 133100 13400 131100 144101 144101 122510 122500 133102 133102 133102 144100 144100 144100 144100 144100 144100 144100 122510 122500 122500 122510 122500	1 1 0 0 0 1 1 0 0 1 2 4 2 5 1 0 1 0 1 2 4 2 5 1 0 1 2 4 2 5 1 0 0 0 0 2 2 1 1 1 1 1 1 2 4 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	- 01 - 01 - 01 - 01 - 01 - 03 - 03 - 03 - 04 - 01 - 04 - 04 - 01 - 04 - 04	1 I MCIDENTS 1 4 4 4 4 4 4 4 4 4 1 2 2 2 10 1 1 1 1 1 1 1 1 2 2 2 2 10 1 1 1 1 2 4 4 1 2 4 4 1 4 4 2 4 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4	NCON LOCATION 1 1938 5103 1 1600 5101	12.7	105	3	•
DATE 4 23 64 4 24 A4 4 25 64	122000 122504 122504 122510 122510 122510 123000 133100 133100 133100 13400 131100 144101 144101 144001 122510 133102 133102 133102 133102 122510 122510	1 UUANTITY 1 6 1 2 4 2 5 1 6 1 2 4 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	- 01 - 01 - 01 - 01 - 01 - 03 - 03 - 03 - 03 - 03 - 03 - 04 - 04 - 04 - 04 - 01 - 04 - 01 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1	NCON LOCATION 1 1938 5103 1 1600 5101 1 1255 5100	12.7	105 138 57	3	•
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DATE 4 23 64 4 24 A4 4 25 64	122004 122504	1 1 0 UANTITY 1 6 1 2 2 4 2 5 1 6 1 2 4 2 5 1 1 1 5 1 1 1 5 1 1 1 1 1 1 1 2 2 4 2 5 1 1 1 1 2 2 4 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 PER HOUR .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 01 . 05 . 01 . 03 . 04 . 03 . 04 . 04 . 04 . 04 . 04 . 04 . 04 . 04	1 1 1 1 1 4 4 2 4 4 1 4 4 2 4 1 4 4 1 4 1	NCON LOCATION 1 1938 5103 1 1600 5101 1 1255 5100	12.7	105 138 57	3	•
DATE 4 23 64 4 24 A4 4 25 64	122004 122504	1 1 0 UANTITY 1 6 1 2 4 2 5 1 1 3 7 2 3 7 2 3 1 1 1 1 1 1 2 1 3 7 2 3 7 2 3 1 1 1 3 5 1 1 2 4 3 7 2 3 7 2 3 1 1 1 3 5 1 1 1 3 7 2 3 1 1 1 3 5 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 PER HOUR .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	- 01 - 01 - 01 - 01 - 01 - 01 - 03 - 04 - 04 - 04 - 04 - 04 - 04 - 01 -	1 1 1 1 1 1 2 1 1 2 2 10 1 1 1 1 1 1 1 1 1 1 1 1 1	NCON LOCATION 1 1938 5103 1 1600 5101 1 1255 5100	12.7	105 138 57	3	•
DATE 4 23 64 4 24 A4 4 25 64	122000 122504 122504 122510 122510 122600 131000 131000 131000 131000 131000 134000 134000 122500 122500 122500 122510 122500 125500 125500 125500 125500 125500 125500 125500 125500 12	1 0UANTITY 1 6 1 2 4 2 5 1 6 1 3 9 3 7 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 01 . 01 . 03 . 03 . 03 . 03 . 03 . 03 . 03 . 04 . 03 . 04 . 03 . 04 . 03 . 04 . 04	1 1 1 1 1 1 1 1 1 1 1 1 1 1	NCON LOCATION 1 1938 5103 1 1600 5101 1 1255 5100	12.7	105 138 57	3	•
DATE 4 23 64 4 24 A4 4 25 64	122000 122504 1925.11 1225.12 1225.13 1226.10 1226.10 1226.10 1226.10 124.10 144.10 144.10 144.10 1225.10 1225.10 1225.10 1225.10 1225.10 1225.10 144.10 144.10 144.00 144.00 144.00 144.00 144.00 144.00 144.00 144.00 144.00 144.00 144.00 144.00 144.00 144.00 1225.00 1200	1 0UANTITY 1 6 1 2 4 2 5 1 6 1 3 7 2 3 7 2 3 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 01 . 01 . 03 . 03 . 03 . 03 . 04 . 03 . 04 . 03 . 04 . 04	1 I MCIDENTS 1 4 4 4 4 4 4 4 4 4 4 4 4 4	NCON LOCATION 1 1938 5103 1 1600 5101 1 1255 5100	12.7	105 138 57	3	•
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DATE 4 23 64 4 24 M4 4 25 64	122000 122504 122504 122510 122510 122510 123000 133100 133000 133100 13400 13100 122500 122500 122500 123102 122510 122500 123000 123000 123000 123000 123000 123000 123000 123000 1230000000000	1 ULANT TY 1 0 0 1 2 4 2 5 1 0 1 2 4 2 5 1 0 1 2 4 2 5 1 0 1 2 4 2 5 1 0 1 2 4 2 5 1 1 1 1 2 4 2 5 5 1 0 1 2 4 2 5 5 1 0 1 2 4 2 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	- 01 - 01 - 01 - 01 - 01 - 03 - 03 - 04 - 04	1 1 1 1 1 4 4 1 2 4 4 4 1 4 4 1 4 4 1 4 4 1 4 4 1 2 2 2 2	NCON LDC&TION 1 1938 5103 1 1600 5101 1 1255 5100 1 1021 4848	12.7	105 138 57 122	3	•
DATE 4 23 64 4 24 A4 4 25 64	122000 122504 122504 122510 122510 122510 123000 133100 133100 133100 134100 134100 13400 134100 122510 122510 122510 122510 122510 133102 133102 133102 133102 133102 122510 122500 122501 122501 122501 1225000 1225000 1225000 1225000 1225000 12250000 12250000 122500000 12250000000000	1 ULANT TY 1 0 0 1 2 4 2 5 1 0 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	- 01 - 01 - 01 - 01 - 01 - 03 - 03 - 04 - 03 - 04 - 04	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NCON LOCATION 1 1938 5103 1 1600 5101 1 1255 5100	12.7	105 138 57	3	•
DATE 4 23 64 4 24 M4 4 25 64	122000 122504 192517 12	1 1 1 1 0 UANTITY 1 6 1 2 2 1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 PER HOUR .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	- 01 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NCON LDC&TION 1 1938 5103 1 1600 5101 1 1255 5100 1 1021 4848	12.7	105 138 57 122	3	•
DATE 4 23 64 4 24 M4 4 25 64	122000 122504 122504 122510 122510 122510 123000 131106 144101 144101 122510 122510 122510 122510 122510 122510 122510 122510 122500 123100 122510 122500 122510 122500 122510 122500 122510 122500 122510 122510 122510 1225000 1225000 1225000 1225000 1225000 12250000 12250000 12250000 12250000000000	1 1 0UANTITY 1 6 1 2 2 3 2 3 2 3 2 1 3 5 1 1 1 5 1 2 2 3 2 3 2 3 2 1 1 1 3 5 1 2 2 3 3 5 5 1 1 1 1 3 5 5 1 1 1 1 1 3 5 5 1 1 1 1 1 1 1 3 5 5 1 1 1 1 1 1 1 3 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 PER HOUR .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 . 01 . 01 . 01 . 01 . 03 . 04 . 03 . 04 . 03 . 04 . 03 . 04 . 03 . 04 . 03 . 04 . 01 . 04 . 03 . 04 . 01 . 01	1 1 1 1 1 4 4 1 2 4 4 4 1 2 2 2 2 2 2 2	NCON LDC&TION 1 1938 5103 1 1600 5101 1 1255 5100 1 1021 4848	12.7	105 138 57 122	3	•
DATE 4 23 64 4 24 M4 4 25 64	122000 122504 122504 122510 122510 122510 122500 123000 13100 134000 13100 144101 144401 122000 122500 12310 122500 12310 124000 13112 144000 144101 144000 144101 144000 144101 144000 144101 144000 144101 122510 12250 12500 122500 122500 122500 1225000 1225000 1225000 1225000 1225000 12250000000000	1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	- 01 - 01 - 01 - 01 - 01 - 01 - 03 - 03 - 03 - 04 - 03 - 04 - 04 - 01 - 04 - 01 - 04 - 01 - 01 - 04 - 01 - 01 - 04 - 01 - 01 - 01 - 04 - 01 - 01 - 01 - 04 - 01 - 01 - 01 - 04 - 01 - 01	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NCON LDC&TION 1 1938 5103 1 1600 5101 1 1255 5100 1 1021 4848	12.7	105 138 57 122	3	•

27 64	IDENTIFICATION	QUANT 1 TY	PER HOUR	PER MILE	INCIDENTS	NOON LOCATION	HOURS	HILES	CRUISE	SHIP
	146867	269	21.3	2.33	•	1 1250 4802	12.6	115	3	6
28 64	155000	1	. 1 . 1	.01	1	1 1627 4803	12.7	175	3	÷
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	122519	10	.7.3	.07	7					
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3n 44	146835	3	.2	. "2	2 2	1 2345 4800	13.0	125	3	
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05 54	145467	\$.4	. 17	3	1 2438 5703	13.1	91	3	6
90 94	171110	2	. 1	. 12	2	1 2430 2703	13.1	*1	3	•
	122510 122519	1 55	.1 4.1	.01 .6)	1 42					
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ATE	TRENTIFICATION	QUANTITY	PER HOUR	PER MILF	INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	5H1P
03 64	123ngn	2	. 1	. 02	2	1 2438 5783	13.1	91	3	٠
	123409 131112	"	.5	.02	2					
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	143000	397	.1 20.0	.01 4,30	21					
04 64	146867 087000 121110	397 17	20.0 7.0	4,30 ,19 ,08	21 1 3	1 2130 5724	5.0	62	3	٠
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04 64	146867 087888 12111 122519 122519 122524	397 17 5 137 5 1	29.9 7.0 23.6 .7 .1	4,39 ,19 ,08 2,29 ,08 ,01	21 1 3 37 2	1 2130 5724	5.8	62	3	6
04 64	146867 077000 121110 122519 122519 122524 122701 133213	397 17 5 137 1 1 2 27	29.9 7.0 23.6 .1 .3 4.6	4,39 ,19 ,08 2,29 ,08 ,01 ,03	21 1 37 2 1 2 13	1 2130 5724	5.0	62	3	6
04 64	146887 087900 121110 122519 122529 122524 122701 133213 133217 143000	397 17 5 137 5 1 2 27 4 1	29.9 7.0 23.6 .9 .1 .3 4.6 .6 .1	4,3) ,19 ,08 2,2) ,08 ,01 ,03 ,43 ,45 ,01	21 1 37 2 1 2 13 4 1	1 2130 5724	5.8	62	3	6
04 64	146887 07707 121117 122517 122529 122524 122701 133217 133217 143000 144101	397 17 5 137 5 1 37 2 27 4 1	29.9 7.0 23.6 .1 .3 4.6 .1 .1	4,37 ,19 ,08 2,27 ,08 ,01 ,01 ,43 ,06 ,01	21 1 3 37 2 1 2 13 4 1	1 2130 5724	5.8	62	3	6
04 64	146887 07700 121111 122510 122510 122524 122701 133217 133217 143000 144101 146101 146101	397 17 5 137 5 1 2 27 4 1 1 109 332	29.9 2.0 .8 23.6 .1 .3 4.6 .1 .6 .1 .1 .5 .1 .1 .5 .1 .5 .7 .2 .2 .2 .2 .2 .2 .2 .8 .8 .9 .8 .8 .9 .8 .8 .9 .9 .9 .8 .9 .8 .8 .9 .9 .9 .9 .8 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9	4,37 ,19 ,08 2,2-) ,08 ,01 ,01 ,03 ,06 ,01 ,75 5,35	21 1 3 37 2 1 3 4 1 1 1 9 61	1 2130 5724	5.0	62	3	٠
04 64	146867 07707 122111 122517 122519 122524 122701 133217 133217 133717 144707 144707 144687 16687 16687	397 17 5 137 5 1 2 27 7 4 1 1 9 532 1 4	20.9 2.0 .8 .8 .1 .3 4.6 .1 .1 .1 .1 .7 57.2 .1 .3	4,37 ,19 ,08 2,27 0,8 0,1 0,1 ,45 0,1 0,1 1,75 5,37 0,1 0,3	21 1 3 7 2 1 2 13 4 1 1 19 61 1 3	1 2130 5724	5.8	62	3	6
	146867 07700 122111 122510 122510 122510 122510 133217 133717 133701 144100 144100 144100 144101 144101 144101 122000 122510	397 17 5 137 5 1 27 4 1 109 332 332 1 4 4 229	20.0 2.0 .m 23.6 .1 .3 4.6 .1 .1 .1 .1 .1 .1 .1 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	4 . 37 . 19 . 28 . 29 . nd . n1 . n3 . 43 . 01 . 01 . 01 . 01 . 01 . 01 . 01 . 03 2 . 18 . 05	21 1 3 37 2 1 2 1 3 4 1 1 1 9 6 1 3 8					
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17 64	146867 07707 07707 122111 122510 122510 122511 133017 133017 133017 133017 133017 133017 144101 144101 144101 144101 122510 122510 122510 122500 122500 122500	397 5 137 9 2 2 2 2 2 3 2 3 2 3 3 4 1 2 2 3 3 4 1 109 5 32 5 3 5 5 5 5 2 5 3 5 5 2 5 3 5 5 5 5	20.0 23.4 3.4 4.6 5.7 57.2 1.1 1.1 1.1 20.6 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .5 .4 .5 .5 .5 .4 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	4 37 19 20 20 10 20 10 10 10 10 10 10 10 10 10 1	21 37 2 1 2 3 4 1 1 9 6 1 3 8 6 6 1 4 0 6 3 1 4 8 6 1 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 2035 5715	11.0	105		۵
17 64	146867 07707 07707 122111 122510 122510 122510 133217 133717 144101 144101 144101 144101 144101 144101 122510 122510 122510 122510 133717 134717 134717 144201 144117 144201 144117 122000	397 5 137 2 2 2 2 2 4 1 1 2 2 2 3 4 1 1 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	20.0 23.4 3.4 4.6 4.6 5.7 57.2 77.2 77.3 20.6 4.7 57.3 20.6 4.6 .1 1.1 1.1 1.1 1.1 1.1 1.1 2.3 .4 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	4 37 19 20 20 10 10 10 10 10 10 10 10 10 1	21 37 2 1 2 3 4 1 1 3 8 6 1 3 8 6 6 1 4 0 6 3 1 4 4 4 6 1 4 4 4 1 4 7 2 1	1 2035 5715	11.0	105		۵
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17 64	146867 07707 122111 122510 127524 137524 137524 137524 137517 137517 137517 144101 144101 144101 144101 144101 144101 127510 127510 127510 127510 127510 127510 127510 144211 144201 144601 127500 127510 127	397 5 137 2 27 4 4 1 109 302 1 4 220 4 220 4 1 220 5 5 1 3 5 5 255 3 6 123 3 6 123 123 123 123 123 123 123 123 123 123	20.0 20.0 23.4 3 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	4 37 19 20 20 20 20 20 20 20 20 20 20	21 37 22 13 4 1 1 19 61 3 8 6 1 4 0 0 3 3 8 6 1 4 4 0 0 3 1 4 4 5 2 1 4 7 2 1 1 3 1 3 8 1 4 1 1 3 8 1 3 8 1 3 8 1 3 1 3 8 1 3 1 3 1	1 2035 5715 1 1650 5781	11.0	105		6
17 64	146867 07707 122111 122510 122510 122524 125704 135701 135701 143707 144701 144101 144101 144101 144101 144101 122510 122510 122510 122510 122510 122510 122510 122510 122500 122500 122500 122500 122500 122500 122500 122500 122500 122500 122500 122500 122500 122510 122500 122000 122500 122000 122000 122000 122000 122000 122000 122000 122000 122000 122000 122000 122000 122000 122000 122000 122000 122000 122000	397 5 137 2 27 4 4 270 4 270 4 270 4 270 4 270 5 5 5 5 1 3 1 5 2 5 5 1 1 5 5 1 1 5 5 2 1 2 5 5 1 2 7 1 7 5 5 5 2 7 5 5 5 5 5 5 5 5 5 5 5 7 5 5 5 7 5 7	20.0 20.0 23.4 .1 .1 1.1 1.1 1.1 .1 .1 .1 .1	4 37 19 20 20 20 20 20 20 20 20 20 20	21 37 22 13 4 1 1 19 61 3 8 6 6 1 4 6 0 3 3 8 6 6 1 4 4 0 0 3 1 4 4 6 5 2 1 4 7 2 1 1 3 8 6 1 4 4 0 0 3 1 1 3 8 6 1 1 3 8 6 1 1 3 8 6 1 1 3 8 6 1 1 3 7 2 1 3 8 6 1 3 8 8 6 1 3 8 8 6 1 3 8 8 6 1 1 3 8 8 6 1 1 3 8 8 6 1 1 3 8 8 6 1 1 3 8 8 6 1 1 3 8 8 6 1 1 3 8 8 8 8 8 8 8 8 9 8 1 1 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1 2035 5715	11.0	105		۵
17 64	146887 007707 007707 122111 122510 122510 122524 122701 133717 133717 133717 144100 144100 144100 124510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122500 122500 122500 122500 122500	397 5 137 2 27 4 1 109 332 4 4 1 109 332 4 4 1 109 332 4 4 229 6 0 1 11 5 5 233 3 5 253 123 123 5 5 5 55 55	20.0 20.0 23.4 .4 .3 4.6 .0 11 14,7 5.7 5.7 5.7 7.0 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	4 37 9 39 9 30 9 30	21 37 2 1 37 2 1 37 2 1 2 1 37 2 1 37 2 1 37 4 1 1 38 6 6 1 40 6 3 1 4 4 4 5 2 2 1 7 7 2 1 3 8 6 6 1 3 8 6 6 1 1 3 8 6 6 1 1 3 8 6 6 1 1 3 1 2 1 2 1 2 1 3 7 2 1 3 7 2 1 2 1 2 1 3 7 2 1 3 7 2 1 3 7 2 1 3 7 2 1 3 7 2 1 3 7 2 1 3 7 6 6 1 1 3 7 8 6 6 1 1 3 7 8 6 6 1 1 3 8 6 6 1 1 3 8 6 6 1 1 3 8 6 6 1 1 3 8 6 6 1 1 3 8 6 6 1 1 3 1 8 6 6 1 1 3 8 6 6 1 1 3 1 3 8 6 6 1 1 3 1 8 6 6 1 1 3 1 8 6 6 1 1 3 1 8 6 6 1 3 1 1 3 8 6 6 1 1 3 1 3 8 6 6 1 1 3 1 8 6 6 1 1 3 1 4 4 4 1 1 3 8 6 6 1 1 3 1 4 4 4 1 1 3 1 3 8 6 6 1 1 3 1 4 4 4 4 1 1 3 1 4 4 4 1 1 3 1 1 3 8 6 6 1 1 3 1 4 4 4 1 1 3 1 4 4 4 4 1 1 3 1 4 4 4 1 1 3 1 1 4 4 4 1 1 3 1 1 4 4 4 4	1 2035 5715 1 1650 5781	11.0	105		6
17 64	146867 077070 122111 122510 122510 122510 122510 122510 132217 133217 133217 143000 144101 144101 144101 144101 144101 144101 122500 122501 122501 122501 122501 122501 122501 122510 122510 13110 122510	397 127 5 37 2 27 4 1 2 27 4 1 2 27 4 4 1 10 332 2 4 4 229 6 6 9 1 13 5 5 13 5 253 12 12 12 12 12 12 5 5 5 5 5 5 5 13 7 7 7 13 7 7 7 8 13 7 7 8 13 7 7 8 13 7 7 8 13 7 7 8 13 7 7 8 13 7 7 8 13 7 7 8 13 7 7 8 13 7 7 8 12 7 7 8 13 7 7 8 12 7 7 8 13 7 7 8 12 7 7 8 13 7 7 8 12 7 7 8 12 7 7 8 12 7 7 8 10 10 10 10 10 10 10 10 10 10 10 10 10	20.0 20.0 23.4 23.4 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	4 37 9 19 9 29 9 10 9 10	21 37 22 1 37 2 1 1 3 4 4 1 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4	1 2035 5715 1 1650 5781	11.0	105		6
17 64	146867 077070 122111 122510 192507 192507 192507 132217 132217 132217 143000 1441001 1441001 144687 192000 122510 122510 122510 122501 122501 122501 122501 122501 122501 122501	397 127 5 137 5 27 4 1 2 27 4 1 10 3322 6 0 1 10 3322 6 0 1 3322 6 0 1 3322 7 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	20.0 20.0 23.4 23.4 .1 .1 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	4 37 9 39 9 39 9 30 9 30	21 137221 127221 13411 196113 386661 106113 14444 4444 4444 16924 147211 11111 101216 10122 202	1 2035 5715 1 1650 5781	11.0	105		6
17 64	146867 1727510 1727510 1727510 1727510 172751 133717 143707 143707 144707 144707 144707 144707 144707 144707 144707 122510	397 5 137 5 2 2 2 4 4 2 2 9 6 0 1 1 3 5 2 5 3 6 1 2 3 5 1 5 5 2 5 3 6 1 2 3 2 5 1 3 7 5 5 1 3 7 5 5 1 3 7 5 5 1 3 7 5 5 1 3 7 5 5 5 5 5 5 5 5 5 5 7 5 7 5 7 5 7 5	20.0 21.0 3.3 4.6 3.5 4.6 3.7 4.6 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7	4 37 19 20 20 20 20 20 20 20 20 20 20	21 37 2 1 37 2 1 3 4 1 1 1 3 6 6 1 4 0 6 3 1 4 4 0 6 3 1 4 4 6 5 2 1 1 1 1 2 1 1 2 1 2 1 2 1 2 1 3 6 6 1 1 3 8 6 6 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	1 2035 5715 1 1650 5781	11.0	105		6
17 64	146867 077070 122111 122510 122510 122524 122701 133717 143701 144101 144101 144101 144101 144101 144101 144101 122500 122510 122500 131107 122510 122500 131107 122510 122500 131107 122510 122500 13107	397 55 137 9 27 4 1 109 332 6 9 109 332 5 109 332 5 109 25 33 25 3 5 125 12 12 12 12 12 12 12 12 12 12 12 12 13 5 12 5 13 5 12 25 13 7 12 25 13 7 12 25 13 7 12 25 12 27 12 25 25 25 25 25 25 25 25 25 25 25 25 25	20.0 21.4 23.4 4.6 4.6 5.7 57.2 7.3 20.6 4.7 57.2 7.3 20.6 4.7 57.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	4 37 9 39 9 39 9 30 9 30	21 37 21 37 21 23 4 1 19 6 1 38 6 6 1 40 6 31 4 0 6 31 4 0 6 31 4 7 21 21 23 4 1 1 21 23 4 1 1 23 4 4 1 1 2 1 2 1 2 1 2 1 2 3 7 2 1 2 3 7 2 1 2 3 4 4 1 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 1 2 1 2 1 2 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 5 2 1 4 4 2 1 2 3 8 6 6 5 2 1 4 4 1 2 3 8 6 6 5 2 1 8 6 6 5 2 1 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 6 1 2 3 8 6 1 2 3 1 8 6 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 1 2 1 2 1 1 1 2 1 2 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2 2 1 2 1 1 2 1 1 1 2 1 2 1 2 1 2 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 2 1	1 2035 5715 1 1650 5781	11.0	105		6
17 64	146867 077070 122111 122510 122510 122524 122701 133717 144101 144101 144101 144101 144101 144101 144101 122510 122510 122510 122510 122510 122510 122510 122500 122500 122500 122510 122500 13110 122510 122500 13110 122510 122500 13110 122510 122500 13110 122510 122500 13110 122510 122500 13110 122510 122500 13110 122510 122500 13110 122510 122500 13110 122500 131100 13110 122500 13200 122500	397 57 137 2 27 4 1 109 332 4 27 4 27 4 1 109 332 4 27 5 135 27 4 1 27 5 12 27 4 1 109 232 3 12 27 4 1 109 232 27 4 1 27 5 137 5 12 27 4 1 27 5 12 27 4 1 27 5 12 27 4 1 27 5 12 27 5 12 27 4 1 27 5 12 27 5 12 27 4 1 27 5 12 27 4 1 27 5 12 27 5 12 27 5 12 27 5 12 27 5 12 27 5 12 27 5 12 27 27 12 27 27 2 2 1 2 2 2 2	20.0 21.0 3.1 4.1 5.1 4.1 5.1 5.1 5.1 5.1 1.1 1.1 1.1 1	4 37 9 39 9 39 9 30 9 30	21 37 21 23 4 11 19 61 38 6 61 40 63 14 40 63 14 7 21 11 13 10 21 21 10 21 21 10 21 21 10 21 21 10 21 21 21 10 21 21 21 10 21 21 10 21 21 10 21 21 21 10 21 21 21 21 21 21 21 21 21 21 21 21 21	1 2035 5715 1 1650 5781	11.0	105		6
17 64	146867 077070 122111 122510 122510 122524 122701 133717 144100 144100 144101 144101 144101 144101 144101 144101 122510 122500 125000 125000 12	397 55 137 9 27 4 1 109 332 4 27 4 1 109 332 4 27 5 135 27 3 4 27 5 12 27 4 1 109 27 4 1 27 4 1 27 5 12 7 7 4 1 27 4 1 27 5 12 7 7 4 1 27 7 4 1 27 7 5 12 7 7 13 7 1 2 7 7 1 1 1 2 7 7 1 2 7 7 1 2 7 7 1 2 7 7 1 1 2 7 7 1 2 7 7 1 1 2 7 7 1 2 7 7 1 1 2 7 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 7 7 1 2 7 7 7 7	20.0 21.0 23.0 4.1 3 4.2 5 .1 5 .7 5 .7 5 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	4 37 9 39 9 39 9 39 9 30 9 30	21 37 21 23 4 11 19 61 10 38 6 6 14 0 6 31 4 0 6 31 4 0 6 31 4 7 21 12 13 10 10 22 1 10 22 1 10 8 6 5 11 10 10 10 10 10 10 10 10 10 10 10 10	1 2035 5715 1 1650 5781	11.0	105		6
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17 64	146867 172510 172510 172510 172510 172510 172510 172510 143701 143700 144101 144101 144101 144101 144101 14400 172000 172510 122510 133700	397 5 137 2 27 4 1 109 331 4 220 6 0 1 812 5 5 1 315 253 6 1 223 2 2 1 1 5 5 2 5 3 1 4 2 2 9 1 1 5 5 2 1 3 1 2 7 1 3 7 1 3 7 1 2 7 1 3 7 1 2 7 1 3 7 5 1 3 7 1 2 7 1 8 7 1 2 7 1 8 7 1 2 7 1 8 7 1 2 7 1 8 7 1 2 7 1 8 7 1 2 7 1 8 7 1 2 7 1 8 7 1 2 7 1 8 7 1 2 7 1 8 7 1 2 7 1 8 7 1 2 7 9 1 8 7 1 2 7 9 1 8 7 1 8 7 1 8 7 1 8 7 1 8 7 1 8 7 1 8 7 1 8 7 1 8 7 1 8 7 1 8 7 1 8 7 1 8 7 1 8 7 8 1 8 7 1 8 7 1 8 7 1 8 7 1 8 7 1 8 7 8 9 1 1 8 7 9 1 8 7 1 1 1 8 7 8 1 8 7 9 1 1 8 7 9 1 8 7 1 1 8 7 8 1 8 7 9 1 1 8 7 8 1 7 1 1 8 2 7 8 1 8 2 7 1 1 1 8 2 7 1 1 1 8 2 7 1 1 1 8 2 7 1 1 1 8 2 7 1 1 8 2 7 1 1 8 2 7 1 1 8 2 7 1 1 8 7 1 1 1 1 8 2 1 1 2 1 1 1 1 1 1 1 5 5 5 8 8 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20.0 20.0 23.4 .1 .3 4.6 .3 4.6 .1 1.1 1.1 1.1 .1 20.8 .7 7.3 20.8 .1 1.1 1.1 1.1 .1 .1 .1 .1 .1	4 379 02-36 011 02-36 011 011 011 011 011 011 011 01	21 37 22 12 13 4 4 4 4 4 5 24 13 13 10 21 21 21 21 21 21 21 21 21 21	1 2035 5715 1 1650 5781	11.0	105		6

	IDENTIFICATION	QUANTITY	PER HOUR	PER M∣L⊦	INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	SHIP
5 20 44	122500	11		.04	2	1 1028 5447	12.5	124	4	6
	122510	235	18.8	1.45	31					
	122600	1	-1	.01 07	1					
	12260*	3	. ?	2	3					
	172631	° 6	.7	. n 7 . n 6	A 8					
	123000	2,	.1	.0: .95	1					
	131100	3	. 5	. 02	3					
	133204	3 7	.2	.02	3 2					
	144100	1 280	.1	2,25	1					
5 21 64	122000	3	.?		3	1 1304 5400	12.8	131	4	6
	122500	1 2	.1	.01	1 2					
	122519	1	.1	.01	1					
	122524	1	. 1	.01	1					
	122601	1	.1	, 9 1 , 9 1	1					
	12260*	112	.1 .9	.01	1 10					
	123000	1	-1	. 01	1					
	123400 131117	1	•1 •1	.01	1					
	146000	1	.1	.01	1					
5 22 64	122000	2	.1	.01	ī	1 1646 5359	13.0	123	4	6
	172504 122510	1 10	;;	.01	1					
	172524	1	.1	.01	1 5					
	173000	2	. 1	. 71	2					
	131106 131112	1	.1	.01 .01	1					
5 23 64	146867	12 2	.9	.09	2	1 2049 5401	13.2	130	4	6
	122510	61 2	4.6	.44	14					
	192524	1	.1	, 92	1					
	122701 123409	3	.2	. 02	3 3					
	131100	1	.1	.01	1					
	146867	18	1.3	.13	6					
5 24 64	121110 122510	43	.3	. 13	3	1 2326 5302	13.3	124	4	6
	122519	2	.1	.01	1					
	123409	5	. 3	. 04	,					
5 25 64	146867 172519	1 1	.1 .1	.01	1	1 2148 5059	13.3	138	•	
	122524	13	.1	.01	1 3					
	131104	1	.1	.01	1					
	131112	1	- 1	.01	1					
	146867	1	. 1	. "1	1					
26 64	146887 122000	1 2	.1	. "1 . 01	1 2	1 1745 5101	13.1	133	4	٥
	122000	2	. 1	.01	1 2					
5 28 84 Date 5 26 84	122000 IDENTIFICATION	2 Quantity	-1 PFR HOUR	.01 .01	1 2 Incidents	NOON LOCATION	HOURS	MILES	4 CRUISE 4	5H]P
	122004 IDENTIFICATION 122510 122689	2 Guantity 6	-1 PFR HOUR .4 -1	.01 .03 PER HILE .04	1 2 [NC]DENTS 5 1				CRUISE	
DATE 5 26 64	122004 IDENTIFICATION 122510 122609 122701 123409	2 Ouantity 6 1 7 3	-1 PFR HOUR .4 .1 .5 .7	.01 .01 PEP MILE .04 .01 .05	1 2 Incidents 5 1 6 3	NOON LOCATION 1 1745 5101	HOURS 13,1	MILE S 133	CRUISE 4	5H]P 6
DATE	122000 IDENTIFICATION 122510 122600 122701 123409 12200	2 GUANTITY 6 1 7 3 12	-1 PER NOUR .4 .1 .5 .7	.91 .03 PEP MILE .04 .91 .95 .92 .99	1 2 INCIDENTS 5 1 0	NOON LOCATION	HOURS	MILES	CRUISE	5H]P
DATE 5 26 64	122000 IDENTIFICATION 122510 122608 122701 123409 122090 122910 122510	2 OUANTITY 6 1 7 3 12 414 1	-3 PFR HOUR -4 -1 -5 -7 -9 32.0 -1	.01 .03 PEP MILE .04 .01 .05 .02 .09 3.20 .91	1 2 INCIDENTS 5 1 6 3 10 27 1	NOON LOCATION 1 1745 5101	HOURS 13,1	MILE S 133	CRUISE 4	5H]P 6
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144201 1 .1 .01 1 144303 2 .1 .01 2 144867 186 14.5 1.40 7 122050 64 14.5 1.40 5 11439 5359 13.1 125 5 6 122524 1 .1 01 1 12252 1 .1 1 .1 .01 1 122631 3 .2 .02 3 122631 3 .2 .02 3 122631 3 .2 .02 3 122631 3 .2 .02 3 122631 2 .1 .1 1 1 147 5358 13.3 135 5 6 122631 2 .1 .1 .1 .1 1 1847 5358 13.3 135 5 6 122608 2 .1 .01 2 122608 2 .1 .01 2 12668 2 .1 .01 .01 2	06 15 64 08 15 64 06 17 64	146667 122000 192510 172050 172050 15500 15500 15500 15500 15500 122500 122500 122200 122200 122200 122200 122200 122200 122200 122200 122200 122200 122200 122200 122200 122200 122200	59 1 135 5 4 111 11 1 1 1 9 00 15 2 3 2 2 1 1 1 3 4 8 2 5 12 2 1 1 1 1 2 3 2 2 1 1 1 1 2 3 2 2 1 2 1	14.0 .1 10.2 3.3 .3 .4 .4 .4 .1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1.34 .01 .034 .04 .04 .04 .04 .04 .04 .04 .04 .04 .0	26 1 34 5 2 8 11 1 1 4 7 10 7 10 7 8 13 3 2 1 1 4 3 11 1 9 2 1 1 2 3 4 4 1 1	1 2106 5742 1 1817 5700 1 1430 5700	4.2 13.2 13.0	44 120 133	s 5 5	6
149301 2 .1 .01 2 149867 186 14.5 1.49 7 122510 4 .40 5 1.1439 5359 13.1 129 5 6 122510 11 .6 .08 6 122524 1 .1 .1 .01 1 122607 5 .3 .04 5 122607 5 .3 .04 5 122607 3 .2 .02 3 122701 2 .1 .01 2 122607 3 .1 .01 2 122607 4 .3 .02 4 144867 130 9.7 .96 5	06 15 64 08 15 64 06 17 64	146667 122000 192510 172050 172050 15501 155010 155010 155010 156107 156107 152500 122500 122600 122600 122600 122600 122701 122600 122701 122701 122701 122701 122701 122701 122701 122701 122701 122701 122703 127	59 1 135 5 4 111 11 1 1 1 9 00 15 2 3 2 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5	14.0 .1 10.2 3.3 .3 .4 .4 .4 .5 .1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 2.3 .7 .7 .1 .2 .7 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.34 .01 .034 .04 .04 .04 .04 .04 .04 .04 .04 .04 .0	26 1 34 5 2 8 11 1 1 4 7 10 7 10 7 8 13 3 2 1 1 4 3 11 1 9 2 1 1 2 3 4 4 1 1 9 8 8 13 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2106 5742 1 1817 5700 1 1430 5700	4.2 13.2 13.0	44 120 133	s 5 5	6
5 20 64 12200 6 .4 .04 5 1 1439 5359 13.1 125 5 6 122510 11 .6 .08 6 122524 1 .1 .0 1 1 122600 5 .3 .04 5 122607 3 .2 .02 3 122701 2 .1 .01 2 122510 4 .3.3 .32 12 122510 4 .1 .01 2 122607 2 .1 .01 2 122607 3 .1 .01 2 122607 3 .02 4 146867 130 9.7 .96 5 22 64 12209 4 .3.5 126 5 6	06 15 64 06 16 64 06 17 64	146867 122000 192510 19250 19200 19200 19200 19200 19200 19200 19200 19200 19200 192000 1920000000000	59 13 54 111 111 11 900 1605 75 32 21 11 34 82 52 12 12 11 21 12 35 12 12 11 13 91 1 13 91	14.0 .1 10.2 3.3 .A .A .A .1 1.1 1.1 1.1 1.1 1.1 1.1 2.1 1.2 .7 .1 1.2 .1 3.0 .1 .2 .1 1.2 .1 1.2 .1 .1 2.1 1.1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.34 .01 .034 .04 .04 .04 .04 .04 .04 .04 .04 .04 .0	26 1 34 5 2 8 11 1 1 4 7 10 7 5 8 13 3 2 1 1 1 4 3 19 1 3 11 9 2 1 1 2 3 4 4 1 1 1 9 8 11 1 1 9 8 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2106 5742 1 1817 5700 1 1430 5700	4.2 13.2 13.0	44 120 133	s 5 5	6
12262 4 1 .1 .01 1 12760 9 .6 .07 7 122603 3 .2 .02 3 122701 2 .1 .01 2 122701 2 .1 .01 2 122510 4 3.3 .32 12 122600 2 .1 .01 2 122600 3 .1 .01 2 122600 3 .1 .01 2 122600 4 .3 .02 4 146867 130 9.7 .96 5 22 64 12200 4 .3 .02 4 148867 130 9.7 .96 5	08 15 64 08 16 64 08 17 64	146667 122000 192510 19250 19250 19250 19250 192700 192700 192700 1246301 122410 122410 122410 122400 122400 122400 122400 13100 122400 13100 12240 122400 122400 12240 12240 12240 12240 12240 12240 12240 12240 12240 12240 12240 12240 12240 12240 12240 122400 122400 122400 12240 12240 12240000000000	59 13 35 4 1111 111 111 111 111 111 122 25 27 53 22 111 34 38 25 122 112 23 16 5 12 12 23 10 21 12 23 10 21 12 23 25 12 21 21 21 21 21 21 21 21 21 21 21 21	14.0 .1 10.2 .3 .3 .4 .4 .4 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.34 1.32 1.32 1.32 1.32 1.33 1.32 1.33 1.33 1.33 1.33 1.33 1.33 1.33 1.33 1.33 1.33 1.33 1.33 1.35 1	26 14 5 2 8 11 1 1 4 8 7 7 10 2 5 5 8 13 1 1 1 4 3 7 10 2 5 5 8 13 11 1 2 3 4 4 1 11 2 3 4 4 11 1 2 3 4 4 11 1 2 5 5 7 8 10 7 8 10 7 8 7 8 10 7 8 7 8 10 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	1 2106 5742 1 1817 5700 1 1430 5700	4.2 13.2 13.0	44 120 133	s 5 5	6
122007 5 .3 .04 5 122031 3 .2 .02 3 122701 2 .1 .01 2 122910 2 .1 .01 2 122910 4 3.3 .32 12 122000 2 .1 .01 2 122000 4 .3 .02 4 144301 4 .3 .02 4 144307 4 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3	06 15 64 06 16 64 06 17 64	146867 122000 192510 192504 192504 192504 192504 192504 192504 192504 192504 192506 192250 192550 19	59 1 135 5 4 1111 111 111 1 1 9 160 15 2 3 2 2 2 1 1 1 3 4 8 2 5 12 2 1 2 1 2 3 10 5 1 2 3 10 5 1 2 3 2 2 1 1 1 3 1 5 5 5 5 7 5 3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14.0 .1 10.7 3.3 .3 .4 .4 .4 .5 .5 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.34 1.32 1.124 .011 .011 .011 .011 .011 .023 .023 .023 .024 .011 .023 .024 .011 .024 .011 .026 .011 .026 .011 .026 .011 .026 .011 .026 .027 .026 .027 .027 .026 .027 .027 .026 .027 .027 .027 .027 .027 .026 .027 .027 .027 .027 .027 .027 .026 .027 .027 .027 .027 .027 .026 .027 .027 .027 .026 .026	26 14 5 2 8 11 1 1 4 8 7 10 2 5 5 8 13 11 1 4 3 11 1 2 3 4 4 1 1 1 2 7 5	1 2106 5742 1 1817 5700 1 1430 5700 1 1110 5636 1 1102 5400	4.2 13.2 13.0 12.6	44 120 133 116	5	•
122631 3 .2 .02 3 122701 2 .1 .01 2 1 122700 1 .1 .1 .1 1 1447 5358 13.3 135 5 6 122510 44 3.3 .32 12 122600 2 .1 .01 2 123600 2 .1 .01 2 123701 2 .1 .01 2 144307 2 .1 .01 2 144307 4 .3 .02 4 144847 130 9.7 .96 5 1220 5488 13.5 128 5 6	06 15 64 08 15 64 06 17 64	146667 122000 192510 192504 192004 192004 192004 1920000 1920000000000	59 13 5 4 11111111111111111111111111111111111	14.0 .1 10.2 3.3 .4 .4 .4 .5 .5 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.34 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	26 14 5 2 8 11 1 1 4 8 7 10 2 5 6 8 13 3 2 1 1 4 3 11 9 2 1 1 2 5 8 1 1 2 5 8 1 1 2 5 8 1 1 2 5 8 1 1 2 5 8 1 1 1 1 1 4 8 7 8 8 1 1 1 1 1 4 8 8 7 8 8 1 1 1 1 4 8 7 8 8 7 8 8 1 1 1 1 1 4 8 7 8 8 7 8 8 7 8 8 7 8 9 8 1 1 1 1 1 4 8 7 8 9 8 1 1 1 1 1 4 8 7 8 9 8 1 1 1 1 1 4 8 7 8 9 8 1 1 1 1 1 4 8 7 8 9 8 1 1 1 1 1 1 4 8 7 8 9 8 1 1 1 1 1 4 8 7 8 9 8 1 1 1 1 1 1 1 1 1 1 4 8 8 7 7 8 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2106 5742 1 1817 5700 1 1430 5700 1 1110 5636 1 1102 5400	4.2 13.2 13.0 12.6	44 120 133 116	5	•
5 21 64 122000 1 .1 .1 .01 1 1847 5358 13.3 135 5 6 122510 44 3.3 32 12 122600 2 .1 .01 2 122607 2 .1 .01 2 122607 2 .1 .01 2 122631 2 .1 .01 2 122761 2 .1 .01 2 122761 2 .1 .01 2 122761 3 .1 .01 2 122761 4 .3 .02 4 146867 130 9.7 .96 5 22 64 12200 4 .3 .5 126 5 6	06 15 64 08 15 64 06 17 64	146867 122000 192510 192501 192001 192001 192001 192001 192001 193007 192001 193007 192001 19	59 1 135 5 4 111 11 1 1 9 60 153 2 5 2 5 2 5 2 2 1 1 3 1 4 3 6 2 5 2 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	14.0 .1 10.2 3.3 .8 .4 .1 12.1 1.1 12.1 1.7 .1 12.1 1.7 .3 .3 .3 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.34 .01 .04 .04 .04 .05 .04 .05 .04 .05 .05 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	26 1 3 5 2 8 1 1 1 1 4 7 10 7 5 8 13 2 1 1 1 4 5 8 13 2 1 1 1 4 4 1 1 1 2 5 8 13 2 1 1 1 2 5 8 10 7 5 8 10 7 5 8 10 7 5 2 8 8 10 1 1 1 1 1 4 5 7 8 8 10 1 1 1 1 1 4 5 7 8 8 10 1 1 1 1 1 1 4 5 7 8 8 10 1 1 1 1 1 1 1 4 5 7 8 8 10 1 1 1 1 1 1 1 4 8 7 7 10 7 10 7 10 7 10 7 10 7 10 7 10	1 2106 5742 1 1817 5700 1 1430 5700 1 1110 5636 1 1102 5400	4.2 13.2 13.0 12.6	44 120 133 116	5	•
127510 44 3.3 32 12 127600 2 .1 .01 2 127600 2 .1 .01 2 127600 2 .1 .01 2 12763 2 .1 .01 2 127701 2 .1 .01 2 146301 4 .3 .02 4 146867 130 9.7 .96 5 22 64 12700 4 .2 .03 4 1 2220 5400 13.5 126 5 6	06 15 64 06 16 64 06 17 64	146867 122000 192510 192501 192001 192001 192001 192001 193000 193000 192001 192001 122001 122001 122001 122001 122001 122001 122001 131100 131100 131100 131100 131100 131100 131100 131100 131100 131100 131100 131100 132000 12	59 1 135 5 4 111 1 1 1 9 60 1 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	14.0 .1 10.2 13.3 .3 .4 .4 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.34 .0124 .0124 .0134 .0134 .0134 .013 .013 .023 .024 .024 .024 .024 .024 .023 .022 .040 .01 .021 .024 .021 .024 .021 .024 .0	26 14 52 8 11 11 14 6 7 10 5 8 13 2 1 11 4 3 9 11 2 3 4 1 11 2 7 5 8 17 5 3	1 2106 5742 1 1817 5700 1 1430 5700 1 1110 5636 1 1102 5400	4.2 13.2 13.0 12.6	44 120 133 116	5	•
122600 2 .1 .01 2 122631 2 .1 .01 2 122701 2 .1 .01 2 146301 4 .3 .02 4 146867 130 9.7 .96 5 22 64 122000 4 .2 .03 4 12220 5400 13,5 126 5 6	06 15 64 06 15 64 06 17 64 08 18 54 08 19 64 06 20 64 06 21 64	146867 122000 192510 192501 192001 192001 192001 192001 193000 193000 192001 19	59 13 35 5 4 1111 111 111 1 1 2 3 2 5 2 2 1 1 1 3 4 8 2 5 12 2 1 1 2 3 2 5 12 2 1 1 1 2 3 2 5 2 2 1 1 1 2 3 2 5 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14.0 .1 10.7 3.3 .3 .4 .4 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.34 .0124 .0124 .0134 .0134 .0134 .013 .013 .013 .013 .023 .022 .040 .001 .013 .023 .022 .040 .001 .011 .011 .011 .011 .011 .011	26 14 5 2 8 11 1 1 4 7 7 10 7 7 10 7 7 8 1 1 1 2 5 6 13 1 1 2 7 5 8 1 1 2 7 5 8 1 1 2 7 5 8 1 1 1 2 7 5 8 1 1 1 1 2 7 8 1 1 1 1 2 8 1 1 1 1 4 8 5 5 7 8 1 1 1 1 1 4 8 5 7 8 1 1 1 1 1 4 7 7 8 1 1 1 1 1 1 4 7 7 1 1 1 1 1 1 1 1 1 1 1	1 2106 3742 1 1817 3700 1 1430 3700 1 1110 3636 1 1110 3400 1 1102 3400	4.2 13.2 13.0 12.6 12.8	44 120 133 116 132	s 5 5	•
182701 2 .1 .n1 2 146301 4 .3 .02 4 146867 130 9.7 .96 5 22 64 122007 4 .2 .03 4 12229 5480 13,5 126 5 6	06 15 64 00 16 64 06 17 64 06 18 64 08 19 64	146867 122000 192510 1925000 1925000 1925000000000000000000000000000000000000	59 13 35 5 4 1111 111 111 1 1 2 3 2 5 2 2 1 1 1 3 4 8 2 5 12 2 1 1 2 3 2 5 12 2 1 1 1 2 3 2 5 2 2 1 1 1 2 3 2 5 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14.0 .1 10.2 3.3 .8 .4 .4 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	1.34 .01 .04 .04 .04 .04 .04 .04 .04 .04 .04 .04	26 14 52 8 11 11 14 7 10 2 5 8 13 3 2 11 14 3 11 9 2 11 2 7 5 8 13 3 2 11 1 9 2 11 2 7 5 8 13 2 1 1 1 2 5 8 13 2 1 1 1 1 1 1 4 8 5 7 8 10 7 5 8 10 7 5 8 10 7 5 8 10 7 10 7 5 8 10 7 10 7 10 7 10 7 10 7 10 7 10 7 10	1 2106 3742 1 1817 3700 1 1430 3700 1 1110 3636 1 1110 3400 1 1102 3400	4.2 13.2 13.0 12.6 12.8	44 120 133 116 132	s 5 5	•
146867 130 9.7 .96 5 22 64 122000 4 .2 .03 4 1 2228 5488 13.5 126 5 6	06 15 64 08 15 64 08 17 64 06 18 54 08 19 64	146667 122000 192510 172050 172050 172050 172050 172050 172050 172050 172050 122050 122250 122500 122500 122500 122500 122500 122500 12	59 13 54 111111111 900 15225322111 34 82520 11123911 129112 185 11113911 126 1119 32214 22142 185 1111119 100 119 3214 26 11 21 26 11 21 20 21 21 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 20 21 21 21 21 21 21 21 21 21 21 21 21 21	14.0 .1 10.2 3.3 .A .A .4 .5 .5 .1 .2 .1 .2 .1 .2 .1 .2 .1 .2 .1 .2 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .1 .1 .1 .1 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.34 .01 .04 .04 .04 .04 .04 .04 .04 .04 .04 .04	26 14 52 8 11 11 4 7 10 7 5 8 13 3 2 11 14 3 9 11 2 7 5 8 17 5 3 2 11 2 7 5 8 17 5 3 2 1 1 2 5 4 1 1 2 5 8 1 1 1 1 2 8 1 1 1 1 2 8 1 2 8 1 1 1 1	1 2106 3742 1 1817 3700 1 1430 3700 1 1110 3636 1 1110 3400 1 1102 3400	4.2 13.2 13.0 12.6 12.8	44 120 133 116 132	s 5 5	•
22 64 122000 4 .2 .03 4 1 2228 5488 13.5 126 5 e	06 15 64 08 15 64 08 17 64 06 18 54 08 19 64	146667 122000 192510 19250 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 190	59 1 135 5 4 111 11 1 1 1 9 100 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	14.0 .1 10.2 3.3 .A .A .1 12.1 1.1 12.1 1.2 .7 .7 .1 .1 .1 .7 .7 .1 .1 .7 .1 .1 .7 .1 .1 .7 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.34 .01 .017 .017 .017 .017 .017 .017 .017	26 14 52 8 11 11 14 8 7 10 7 5 8 13 2 11 14 3 9 11 2 7 5 8 17 5 3 2 11 12 2 2 2 3 4 4 11 12 7 5 8 17 5 3 2 11 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2106 3742 1 1817 3700 1 1430 3700 1 1110 3636 1 1110 3400 1 1102 3400	4.2 13.2 13.0 12.6 12.8	44 120 133 116 132	s 5 5	•
	0 15 64 16 16 64 16 17 64 16 18 54 16 18 54 16 10 64 6 20 64 6 21 64	146667 122000 192510 192500 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200	59 1 135 5 4 111 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14.0 .1 10.7 3.3 .4 .4 .4 .5 .5 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.34 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	26 14 5 2 8 11 1 1 4 7 10 2 5 8 3 2 1 1 1 4 3 1 9 2 1 1 2 5 8 1 7 5 3 2 1 2 2 2 2 2 4 4 1 1 2 7 5 8 1 7 5 8 2 8 1 7 5 8 1 7 5 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 8 7 8 8 7 8 8 8 7 8 7 8 7 8 8 8 7 8 7 8 7 8 8 7 8 8 8 8 7 8	1 2106 3742 1 1817 3700 1 1430 3700 1 1110 3636 1 1110 3400 1 1102 3400	4.2 13.2 13.0 12.6 12.8	44 120 133 116 132	s 5 5	•
		146667 122000 192510 192500 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200	59 1 135 5 4 111 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14.0 .1 10.2 .3 .4 .4 .5 .7 .7 .1 .1 .1 .7 .7 .7 .1 .1 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	1.34 .01 .024 .004 .004 .004 .004 .004 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	26 14 52 8 11 11 14 8 7 10 7 5 8 13 2 11 14 3 9 11 2 3 4 11 12 7 5 8 17 5 3 2 11 2 2 2 4 5 5 11 2 7 5 8 17 5 3 2 11 2 7 5 8 11 11 1 4 5 7 8 11 11 1 4 8 7 5 2 8 11 11 1 4 8 7 5 2 8 11 11 11 1 4 8 7 5 2 8 11 11 11 1 4 8 7 5 2 8 11 11 11 1 4 8 7 5 2 8 11 11 11 4 8 7 5 8 11 11 1 4 8 7 5 8 11 11 1 4 8 7 11 11 1 4 8 7 11 11 1 1 4 8 11 11 1 1 4 8 11 11 1 1 1	1 2106 5742 1 1017 5700 1 1430 5700 1 1110 5636 1 1102 5400 1 1439 5359 1 1847 5358	4.2 13.2 13.0 12.6 12.8 13.1 13.3	44 120 133 116 132 125 135	s 5 5 5 5	•

06 22 44	IDENTIFICATION	QUANTITY	PER HOUR	PEN MILF	INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	SHIP	
	122431	2	.1	. 61	2	1 2228 5480	13.5	126	5		
	122701	4	.2	.03	4						
	131106	1	. 1	.01	1						
	131112	1 2	.1	.01	1 2						
06 23 64	146867	404	29.9	3,20	19						
UU 23 84	122000	23	.1	.01 .02	23	1 2328 5104	13.3	139	5	6	
	122524 12260A	1	.1	. 91	1						
	122631	1 14	.1 1.0	.01	1 12						
	122701 173409	7	.5	.05	6						
	131100	1	.1	. 01 . 01	1						
	131112	1	.1	.01	1						
06 24 64	146867 122000	6 3	.4 .2	•0. 20.	3	1 1937 5101	13.3	127	5	6	
	122510	4	. 3	.03	•						
	172631	1	.1	.01	1						
	122794	1	.1	.01	1						
	151104	3	.2	.12	2						
	131112	1	. 1	.01	1						
	146867	1 10	.1	.01	1 3						
06 25 54	122000	257	19.6	1.83	12	1 1554 5104	13.1	140	5	6	
	122510	12	.9	.08	11 1			•			
	172524	1	.1	.01	1						
	122600	13	.9 1.0	.0%	6 11						
	122404	14	1.0	.19	8						
	122431	8 2	.6	. 15	8 2						
	123499	1	. 1	. † 1	1						
	131106 146867	2 358	27.3	2.55	2						
06 26 54	122000	45	3.5	. 3.5	65	1 1137 5100	12.8	133	5	6	
	122524	6 3	.4 .2	.04 .02	3						
	172600	11	.8	.08	5						
	12260A	19	1.4	.05	8 17						
	122631 131106	19 2	1.4	.14	17 2						
	146000	1	.1	. 01	1						
06 27 64	146867	30 7	2.3	. 22	37	1 1005 4803	12.7	109	5	6	
	122510	17	1.3	.15	13					•	
	122600	?	. 1 . 3	. n: . 04	2						
	122608	15	1.1	.13	12						
	122631	24	1.8	.72	17						
	146867	6	.4	. 0 5	3						
06 28 64	122000	11 2	.8 .1	.09	9 2	1 1357 4758	13.0	119	5	6	
	122601 122608	1 24	1	. 11	1						
DATE 06 28 44	IDENTIFICATION 122631	GUANTITY 15	PFR HOUR	PER MILE	INCIDENTS 13	NOON LOCATION 1 1357 4758	HOURS 13.0	M3LES 119	CRUISE 5	5H1P 6	
	122701	1	.1	.01	1	• • • • • • •				•	
	131104 146867	1 2	.1	.01	1						
06 29 64	100000	1	. 1	. 11	1	1 1728 4757	13.2	123	5	6	
	122909 122519	9	.6 .8	.07	6 5						
	122600	4	. 3	. 33	3						
	1226JA 122631	27	2.0	.21	18 2						
06 30 64	122000	62	4.6	. 55	12	1 2125 4758	13.4	111	5		
	122510	14	1.0	.12	9 1						
	172604	32	2.3	. 28	22						
	122701	4	.2	.03 .01	4						
	131112	1	. 1	.01	1						
	146301 146867	104	7.7	.93	1 2						
07 01 64	122000	1									
			.1	.01	ī	1 2400 4755	13.5	71	5	6	
	122701	11 2	.1 .8 .1	.01		1 2400 4755	13.5	71	5	ó	
07 03 44	122701	11 2	.1 .8 .1 .1	.01 .15 .02 .01	1 6 2 1						
07 02 64	122701 131106 122000 122510	11 2 1 5 5	.1 .8 .1 .3 .3	.01 .15 .02 .01 .03 .03	1 6 2 1 5 5	1 2400 4755 1 2553 4914	13.5	71 165	5	6 6	
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07 27 64	146867	.1	.1	. 01	1	1 1940 4801	13.1	120	6	6	
0/ 28 64	122000 122600	10 13	.7	.06 .09		1 2333 4757	13.3	144	6	6	
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	12260A 122633	47	3,5	. 32	11						
	131106	ź	. 1	.01	2						
	131112 146301	1 2	.1	.01	1						
07 29 54	146867	68	5.1	. 47	3						
	122000 12260A	51 5	3.7	. 32	4 3	1 2557 4908	13.6	159	6	6	
	122701 131106	1	.1	.01	1						
	131112	1	.2	.01	1						
	146301 146867	155	.1 11.3	.01	1						
n7 30 64	172000		.3	. 05	3	1 2459 5259	13.5	89	6	6	
	122431	1 2	.1	.01	1 2						
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	131106	4	.2	.04	4						
	133213	1	.1	. 01	1						
07 31 44	146867 172000	12	.3	.05	1	1 2457 5700	13.3	142	6	6	
	122510	12	. •	.08	6	• • • •	••••		-	•	
	122631	5	.3	.03	1						
	172433	1	. 1	. 01	1						
	131106	1 2	.1	.01	1 2						
	131117 134107	1	•1	.01	1						
	146301	3	.3	. 02	2						
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DATE	IDENTIFICATION	QUANTITY	PER HOUR	PER MILE	INCIDENTS	NOON LOCATION	HOURS	HILES	CRUISE	SHEP
9 20 64	122519	•2	15.8	1.41	27	1 2131 5724	9.8	65		6
	177524 172608	4	.6	.06	3					
	122631	20	3.4	.30	19					
	133213	33	5.6	.50	22					
	136107	2	1.2	.03	6 2					
	146101 146867	115 3	19.8	1.76	37 3					
0 01 64	122000 172510	93 3	.6 21.6	.06	3 22	1 2100 5740	4.3	49	•	٠
	122519 122631	17	3.9	.34	7 2					
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	133717	5	11.8	1.94 .10	3					
	136107	135	$1.8 \\ 31.3$.16 2.75	3 10					
0 02 64	146867 122000	13	.6 1.0	.06	3 12	1 1809 5703	12.0	+3	,	4
	172510 172600	17	1.4	.18	15					
	12260A 122630	45	3.7	. 48	33					
	172631	30	3.1	.07	2 33					
	172701	1	.1 .1	.01	1					
	136107 141209	1	.1	.01 .01	1					
	146101 146301	1	. 1	.01	1					
0 03 64	146867 172000	13 63	1.0	.13	ţ	1 1431 5781	12.0	126	•	•
-	172519	1	- 6	.06	8	//01			•	-
	172601	1	.1	.01	1					
	12260A 122631	132	11.0	1.03	18 35					
	131100 131106	1 4	.1	.01 .03	1					
	136107 141209	3 21	.2	. 02	2					
	141401 146000	1 2	.1	.01	1					
	146101	1	.1	.01	1					
0 04 64	146867 122000	489 53	40.7	3.82	10 16	1 1112 5615	11.0	103	٠	•
	122501 122519	1 84	.1 7.0	.01 .81	1 53					
	122600	2 36	3.0	.01	2					
	122615	6 40	.5	. 15	31					
	123000	1	.1	.01	1					
	136107 141209	1	.1	.01	1 1 3					
0 05 64	141209 146867 100000	121	10.1	1.17		1 1133 5356			•	
	155000	1 91	.1 7.5	.01	1 11	1 1133 2378	12.0	120	•	•
DATE	INENTIFICATION	QUANTITY	PER HOUR	PER MILE	INCIDENTS	NOON LOCATION	HOURS	HILES	CRUISE	SHIP
0 05 64	122510	1	.1	. 01	1	1 1133 5356	12.0	120	•	3m1P 6
	172519	56 359	4.6	. 46	44				•	-
	122631	221	18.4	1.84	64					
	173409 131104	1	.1	.01	1					
	141200	3 1	.1	.0.	2					
	144201 146301	1 2	.1	.01	1					
0 06 54	146867	449 22	70.7	7.37	22 13	1 1542 5483	11.9	125	•	
	122510	6 \$3	.5 7.8	04 74	13 6 74				•	•
	122600	2	.1	. 91	2					
	172605	40	3.3	. 32	20 40					
	122633	1	.1	. 41	1					
	123409	2 4	·1 ·3	.01	2					
	141209	19	1.5	. 15	5					
0 07 44	146867	66	5.5	.02 .52 .08	i	1 1935 \$408	11.9	118	•	
			. /				- 4 · V	***	•	•
	172510	4	.3	.03						
	172510 172519 172524	4 11 1	.3 .9 .1	. ne . 91	11					
	172510 172519 172524 17260A 17260A	4 11 1 1 21	.3 .9 .1 .1 1.7	.00 .01 .14	11 1 1 20					
	122510 122519 122524 122606 122608 122609	4 11 1 1	.3 .9 .1 .1	.09 .01 .10 .01	11 1 20 2					
	172510 172510 172524 17260A 17260A 172607 172615 172631	4 11 1 21 2 1 20	.3 .9 .1 1.7 .1 .1 1.6	, N9 , 91 , 91 , 19 , 91 , 01 , 17	11 1 20 2 1 1					
	172510 172519 172524 17260A 17260A 172609 172615 172631 172633 172633 172633	4 11 1 21 2 1 20 1 4	.3 ,9 .1 1.7 .1 .1 .1 .1 .3	, n9 , 01 , 19 , 01 , 01 , 17 , 01 , 03	11 1 20 2 1 1 9 1					
	122510 122519 122524 122606 122609 122609 122615 122631 122631 122633 123409 131100 131106	4 11 1 21 2 1 20 1 4 1	.3 ,9 .1 1.7 .1 1.6 .1 .3 .1	. 99 . 91 . 19 . 01 . 01 . 01 . 03 . 91	11 1 20 3 1 1 4 1					
	122510 122519 122524 12260A 12260A 122609 122615 122631 122631 122631 122631 122631 122633 123409 131106 131106 133213 13407	4 11 1 21 2 1 20 1 4 1 1	.3 .9 .1 .1 .1 .1 .1 .3 .1 .1 .1	.09 .01 .14 .01 .17 .01 .03 .01 .01 .01 .01	11 1 20 2 1 1 1 1 1 1 1					
	1 22510 1 22519 1 22524 1 22604 1 22604 1 22609 1 22609 1 22651 1 22631 1 22631 1 22631 1 23609 1 33100 1 331104 1 33213 1 38407 1 4209 1 46667	11 1 21 20 1 20 1 1 1	.3 .9 .1 1.7 .1 1.6 .1 .3 .1 .1	.09 .01 .14 .01 .01 .01 .03 .01 .01 .01 .66 .01	11 1 20 2 1 1 4 1 1 1 1 1 5					
0 08 64	122510 122519 122524 122004 122004 122007 122007 122031 122031 12310 133100 133100 13310 13310 13310 13310 13310 13310 13310 13310 13310 13310 13100 13100 14000 16000	4 11 1 2 1 20 1 4 1 1 1 1 1 7 4 2 1	.3 .9 .1 .1 .1 .1 .1 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.00 .01 .01 .01 .01 .01 .03 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	11 1 20 2 1 1 9 1 1 1 1 1 1 1 1 1 1	1 2320 5356	11.7	170	•	•
0 08 64	122510 122519 122524 122004 122004 122007 122007 122031 12203 13100 131100 133100 13310 13310 13310 13310 13310 13310 133213 134007 141209 140007 122001	4 11 1 21 20 1 4 1 1 1 1 7 4 25 1	.3 .9 .1 1.7 .1 1.6 .1 .1 .1 .1 .1 6.2 .1 .1	.00 .01 .01 .01 .01 .01 .01 .01 .01 .01	11 1 20 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2320 9396	11.7	176	•	•
0 08 64	122510 1222510 1222510 122206 1222060 1222000 1222000 1222000 1222000 122200 122200 122200 12200 133100 133100 133100 133103 133210 132200 133210 133210 133210 132200 133210 133210 132200 133210 133210 132200 133210 132200 133210 132200 133210 132200 133210 132200 132200 132200 132200 132200 132200 132200 132200 132200 132200 132200 132200 132200 132200 132200 132200 120000 12000 12000 12000 12000 12000 12000 12000 12000 120000 12000 12000 120000 120000 120000 1200000000	4 11 1 21 20 1 20 1 1 1 1 1 1 25 2 1 1 10 1	.3 .9 .1 1.7 .1 .1 .1 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.00 .01 .01 .01 .01 .01 .01 .01 .01 .01	11 1 20 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2328 5356	11.7	178	•	٩
0 08 64	1 22510 1 222510 1 222510 1 22200 1 2200 1 33100 1 33100 1 33100 1 33100 1 33100 1 33100 1 33210 1 34567 1 44567 1 22000 1 222510 1 22251 1 22251 1 22251 1 22251 1 22252 1 22252 1 22252 1 22553 1 22553 1 22554 1 225554 1 225557 1 225557 1	4 11 1 21 20 1 1 1 1 1 1 1 1 25 1 25 1 1 3 8	.3 .9 .1 1.7 .1 .1 .1 .1 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.00 .01 .01 .01 .01 .01 .03 .01 .01 .01 .01 .01 .00 .00 .00 .00 .00	11 1 20 20 21 10 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2320 5356	11.7	176	•	•
0 08 64	1 22510 1 222519 1 222519 1 22206 1 33106 1 33106 1 33106 1 33105 1 3468 1 2206 1 220510 1 222510 1 222510 1 22251 1 22551 1 2	4 11 1 21 20 1 4 1 1 1 1 1 20 1 4 1 1 1 1 1 2 5 1 1 0 1 3 8 2 1	.3 .9 .1 1.7 .1 .1 .1 .1 .3 .1 .1 .1 .1 .1 .1 .1 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	,00 ,01 ,01 ,01 ,01 ,01 ,01 ,01 ,01 ,01	11 1 20 21 10 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2320 5356	11.7	124	٠	•
0 08 64	1 22510 1 22519 1 22519 1 22524 1 22004 1 22004 1 22005 1 22005 1 22005 1 22005 1 22005 1 22005 1 22005 1 33100 1 33100 1 33100 1 33100 1 33100 1 33123 1 34507 1 40607 1 220510 1 22054 1 22055 1 2055 1 20555 1 20555 1 20555 1 20555 1 20555	4 11 1 2 1 2 1 20 20 1 4 4 1 1 1 1 1 1 1 1 1 2 5 1 1 1 3 8 2	33 34 11 12 12 12 14 14 35 14 14 14 14 14 14 14 14 14 14 14 14 14	.04 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	11 1 20 2 1 1 9 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2320 5356	11.7	176	•	٠
0 08 64	122510 122519 122524 122004 122004 122009 122009 122011 12001 133100 133100 133100 133100 133213 134507 141209 145201 12200 122510 122500 122500 122500 125510 122500 1255000 1255000 1255000 1255000 1255000 1255000 12550000000000	4 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	33 34 11 12 12 14 14 13 14 14 14 14 14 14 14 14 14 14 14 14 14	.ne .01 .14 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	11 1 20 2 1 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 9	1 2320 5356	11.7	176		•
0 08 64 0 09 64	1 22510 1 222519 1 222519 1 222506 1 222067 1 222067 1 222057 1 222057 1 222057 1 222057 1 33106 1 33106 1 33213 1 34507 1 61229 1 445867 1 222510 1 222510 1 222510 1 22251 1 22252 1 22257 1 22057 1 2007 1 200	• 1111 212 10 14 1111 25 10 10 13 8 214 38 214 38 214 38 214 38 214 38 214 38 214 38 214 38 214 38 38 38 38 38 38 38 38 38 38 38 38 38	39 11 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14	.ne .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	11 1 20 2 1 1 9 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2320 9396	11.7	176	•	•
	122510 122519 122519 122200 122000 122000 122000 122000 133100 153100 133100 133100 133213 13400 144507 12200 1222510 1222510 122251 122252 122255 122255 12255 12255 12255 12255 12255 12255 12255 12255 12255 12255 122555 12255 12555 12555 125555 125555 125555 1255555 1255555555	• 1 1 2 1 2 1 2 1 2 1 2 1 1 1 1 1 1 1 2 5 1 0 1 3 8 2 1 6 5 1 1 5 2 1 2 5 1 2 5 1 2 5 1 2 5 1 2 1 2	30 11 12 12 14 14 14 14 14 14 14 14 14 14	.ne .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	11 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
	122510 122519 122519 122004 122004 122005 122005 122005 122005 122005 122005 133100 133100 133100 133100 133100 133100 133100 122050 122050 134100 132050 134100 134000 1340000 1340000 1340000000000	• 1 1 1 2 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1	39 11 11 14 14 15 15 15 15 15 15 15 15 15 15	.ne .01 .11 .01 .01 .01 .01 .01 .01 .01 .01						

DATE	ILEN, LETCALION	GUANTITY	PFR HOUR	PER MILF	INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	SHIP	
10 09 64	141200	11	. 9 . 1	. (9	11	1 2200 5100	11.8	116	٩	6	
10 10 *4	146867	21 48	1.7		1 2						
10 10 14	122511		4.0	.5	8 1	1 1759 5057	11.8	94	9	6	
	122519	9 1	.7	. n o . n j	8						
	17243+	6	.5		6						
	131106 141200	4 5	.3	26 54 25	3						
	145301	3	. 2	.03	5						
10 11 64	122000	125 39	10 5 3.2	1.32	1	1 1420 5101	11.9	115	9	6	
	122510	10 3		.02	1 3		-			-	
	122603	96	8.0	. 83	10						
	173400	106	8.9	.92	36 4						
	131114	2	• t	.01	2						
	146301	3	.1	. 12	• 1						
10 12 54	146867	526 35	27.3	2,84 29	11 11	1 1102 5006	11.8	117	9	6	
	122501	1	.1		1	1 1107 2000		117	•	0	
	122519	14	.1 1.1	. 21	12						
	177524	104	.1 8.8	. 71 . PA	42						
	1 2 2 6 1 5	1	. 1	· ^ ·	1						
	192431	66 2	5.5	5 h 0 1	48						
	131100	1	. 1	. 21	1						
	141200	1	.1		1						
	144201 146867	1	.1		1						
10 13 64	122100	64	5.4	. 52	14	1 1150 4757	11.8	123	9	6	
	172510	1	.1 .3	. D : . D 3	1 2						
	122510	62 2	5.2	.5n .1.	48						
	122404	230	19,4	1 8 2	2 93						
	172631	12	1.0	. n.u . 40	10						
	123409	4	.3	. 73	4						
	146301	1	.1	. 11	1 1 5						
10 14 64	146867 122009	87 67	7.3	.7.	5 14	1 1556 4757	11.8	105	9	6	
	172501	1	.1		1					•	
	177601	2	. 1		1						
	12260A 122409	84	7.1	. 77	20 1						
	172624	1 91	7.7		1						
					41						
	123409	2	• 1	.01	41 2						
	173409 131105 136107	2	.1	. 01 . 01	2 2 1						
	173409 131106	2	. 1	.01	41 2 1 1 3						
10 14 44	123400 131104 136977 144100 144701 146701	2 1 8 004NT[TY 136	.1 .1 .1	.01 .01 .01 .07 PER MILE 1.25	2 2 1 1	NCON LOCATION 1 1556 4757	HOURS 11.8	MILES	CRUISE	SH I P	
	123600 131104 136197 144190 146791 INENTIFICATION 146867 122919	2 1 1 8 004NT TY	.1 .1 .6 PER HOUR 11.5 .4	.01 .01 .01 .07 PER MILE 1.25 .04	2 1 1 3 INCIDENTS 4	NOON LOCATION 1 1556 4757 1 1937 4758	HOURS 11.8 11.7	HILES 108 111	CRUISE 9 9	5×17 6	
10 14 44	293409 19104 196507 144107 146701 106WT1F1CATION 146967 122519 122524	2 1 1 8 0uant[ty 136 5 3 1	.1 .1 .6 PER HOUR 11.5 .4 .2	.01 .01 .01 .02 .02 PER HILE 1.25 .04 .02	2 1 1 3 1 NCIDENTS 4 4 3 1	1 1556 4757	11.8	108	•	٠	
10 14 44	123409 13114 13417 144130 146731 10ENTIFICATION 146867 122719 122724 122219 12224	2 1 3 8 00447177 136 5 3 1 4 2	.1 .1 .1 .6 PER HOUR 11.5 .4 .2 .1 .3 .1	.01 .01 .01 .03 .07 PER HILE 1.25 .04 .01 .01 .01	2 2 1 1 3 3 !NCIDENTS 4 4 3 1 4 2	1 1556 4757	11.8	108	•	٠	
10 14 44	123409 131104 134104 144130 146171 146171 146171 146171 12214 12214 12214 12214 12224 122231	2 1 1 8 0uant[ty 136 5 3 1 4	.1 .1 .6 PER MOUR 11.5 .4 .2 .1 .3 .1 .3,5	.01 .01 .01 .01 .01 .01 .01 .01 .01 .02 .01 .03 .03 .03 .03	2 2 1 1 3 3 INCIDENTS 4 4 3 1 4 2 3 1	1 1556 4757	11.8	108	•	٠	
10 14 64	123409 131104 134104 144130 146130 146130 146130 146130 146130 146130 122124 122124 122224 122204 122204 122231 123409 1331394	2 1 1 3 3 5 3 1 4 4 1 4 2 41 4 2	.1 .1 .6 PER HOUR 11.5 .4 .2 .1 .3 .1 3.5 .3 .1	. 11 . 01 . 01 . 07 . 07 . 07 . 07 . 07 . 04 . 07 . 01 . 03 . 01	2 1 3 INCIDENTS 4 4 3 1 4 2 31 4 2 31 4 2	1 1556 4757	11.8	108	•	٠	
10 14 64	223409 1%1104 1%1104 1%4130 1%6701 1%6701 1%6707 122010 122010 122010 122023 122023 122023 122023 122023 122020 131190 131190	2 1 1 3 5 5 3 1 4 1 4 1 2 1 7	.1 .1 .1 .6 PER NOUR 11.5 .4 .2 .1 .3 .1 .3 .1 .1 .6	. 11 . 01 . 01 . 07 . 07 . 07 . 07 . 04 . 07 . 01 . 01 . 03 . 01 . 03 . 03 . 03 . 03 . 03 . 03 . 04 . 05	2 1 3 INCIDENTS 4 4 3 1 4 2 31 4 2 1 7	1 1556 4757	11.8	108	•	٠	
10 14 44 10 15 64	123409 131104 134104 144130 146731 166731 166731 122719 122719 122724 122631 122631 122634 122634 122634 122634 123409 131390 131390 131390 131390	2 1 1 8 00447177 136 5 3 1 4 4 2 41 4 2 1	.1 .1 .1 .6 PER HOUR 11.5 .4 .2 .1 .3 .1 .1 .4 .4	. 1: .01 .01 .01 .07 .07 .07 .07 .07 .07 .01 .03 .03 .03 .03 .03 .03 .04	2 1 1 3 3 INCIDENTS 4 4 3 1 4 2 3 1 4 2 3 1 4 2 3 1 4 2 5 5	1 1556 4757 1 1937 4758	11.8 11.7	10 8 111	•	ě č	
10 14 44 10 15 64	123409 131104 134104 144107 144107 144107 146101 146101 14667 122719 122719 122719 122719 122719 122707 122707 122707 123409 123709 122709	2 1 1 8 0UANTITY 136 5 1 4 4 2 41 4 2 41 7 5 7 1	.1 .1 .1 .6 PER HOUR 11.5 .4 .2 .1 .3 .1 .1 .4 .4 .1 .1	. n: .01 .01 .03 .07 .07 .07 .07 .07 .07 .02 .03 .03 .03 .03 .03 .03 .03 .04 .04 .04 .04 .04	2 1 1 3 3 INCIDENTS 4 4 3 1 4 2 3 1 4 2 1 7 5 2 1	1 1556 4757 1 1937 4758	11.8 11.7	10 8 111	•	ě č	
10 14 44 10 15 64	123409 131104 131104 134104 144107 144107 144107 146101 146807 12210 122210 122210 122210 122210 122210 122210 122208 122208 122208 122208 122208 122208 122208 122208 122208 122208 122208 122208 122208 122208 122208 122208 122208	2 1 1 8 004447174 136 5 5 1 4 4 7 7 7 7 7 1 1 0 4 9	.1 .1 .1 .1 .5 .4 .2 .1 .3 .1 .1 .3 .5 .3 .1 .1 .4 .3 .1 .1 .1 .4 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	. 01 .01 .01 .01 .07 .07 .07 .04 .04 .01 .03 .01 .03 .01 .03 .01 .04 .04 .04	2 1 1 3 1 4 4 3 1 4 2 3 1 4 2 1 7 7 5 2 1 10 46	1 1556 4757 1 1937 4758	11.8 11.7	10 8 111	•	ě č	
10 14 44 10 15 64	123409 131104 134104 144130 146130 146130 146130 146130 146130 146130 146130 122519 122519 122500 132500 132500 12250 122500 12500	2 1 1 8 136 5 5 1 4 2 41 4 2 41 4 4 2 1 7 5 7 1 10 49 1	.1 .1 .1 .5 .6 PER MOUR 11.5 .4 .1 .1 .1 .1 .3 .1 .1 .1 .1 .1 .1 .4 .4 .4 .1 .1 .1 .1 .1 .1 .1 .5 .4 .4 .4 .1 .1 .1 .5 .4 .4 .1 .1 .1 .5 .4 .4 .1 .1 .1 .1 .5 .4 .4 .1 .1 .1 .1 .5 .4 .4 .1 .1 .1 .1 .1 .1 .5 .4 .4 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.01 .01 .01 .02 .02 .02 .02 .02 .02 .04 .04 .04 .04 .05 .04 .05 .04 .05 .04 .05 .04 .05 .04 .05 .04 .04 .05 .04 .05 .04 .05 .04 .04 .04 .04 .04 .04 .04 .04 .04 .04	2 1 1 3 3 1 1 4 4 3 1 1 4 2 3 1 7 7 5 2 1 10 10	1 1556 4757 1 1937 4758	11.8 11.7	10 8 111	•	ě č	
10 14 44 10 15 64	123409 131104 131104 134104 144100 146101 146101 146101 122514 122514 122524 122624 122624 122624 123000 131104	2 1 1 8 5 5 1 4 2 4 1 7 5 5 1 1 10 0 49 1 2 2 2	.1 .1 .1 .1 .5 .4 .2 .1 .3 .5 .4 .2 .3 .3 .5 .3 .3 .5 .3 .1 .1 .6 .4 .4 .2 .1 .1 .5 .4 .4 .2 .1 .5 .4 .4 .5 .4 .4 .5 .5 .4 .4 .5 .5 .4 .5 .5 .4 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	.01 .01 .01 .02 .07 PER HILE 1.25 .07 .07 .01 .04 .02 .01 .01 .05 .04 .05 .04 .05 .04 .05 .04 .05 .04 .05 .04 .01 .05 .04 .01 .07	2 1 1 3 3 1 1 4 4 3 1 1 4 4 2 3 1 1 7 5 2 1 10 10 1 2 2	1 1556 4757 1 1937 4758	11.8 11.7	10 8 111	•	ě č	
10 14 44 10 15 64	123409 131104 13104 134107 144130 146130 146130 146130 146130 122514 122631 122631 122634 122634 122634 122634 122634 122634 123630 131110 123519 123604	2 1 1 8 5 5 1 4 4 4 1 4 1 7 7 7 1 1 1 0 0 4 9 1 2 2 1 2 3 1	.1 .1 .1 .1 .5 .4 .4 .2 .1 .3 .5 .3 .5 .3 .5 .3 .5 .3 .5 .3 .5 .3 .5 .3 .5 .3 .5 .3 .5 .5 .3 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	.01 .01 .01 .01 .01 .01 .01 .01 .02 .01 .02 .01 .01 .03 .03 .01 .04 .01 .04 .01 .04 .01 .01 .03 .01 .03 .03 .03 .03 .03 .03 .03 .03 .03 .03	2 1 1 3 1 1 3 1 4 4 2 1 7 7 5 2 1 10 46 1 2	1 1556 4757 1 1037 4758 1 2331 4759	11.8 11.7	10 8 111	•	ě č	
10 14 44 10 15 64	193409 191104 191104 194130 144130 144130 146101 146101 146101 146101 146101 122110 122210 122210 122200 122200 122200 122200 122200 122510 122500 122500 122600 122600 122600 122600 12200 12000 12200 120000 120	2 1 1 8 004AWT 7 Y 136 3 1 4 4 2 4 1 4 4 2 4 1 4 9 7 5 7 1 10 49 9 1 2 2 3 1 3	.1 .1 .1 .6 PER HOUR 11.5 .4 .1 .5 .4 .3 .5 .7 .3 .3 .1 .1 .6 .4 .4 .1 .1 .6 .4 .4 .2 .1 .1 .2 .2	. 11 . 01 . 01 . 01 . 07 . 07 . 07 . 07 . 04 . 04 . 04 . 05 . 04 . 05 . 04 . 05 . 04 . 05 . 04 . 05 . 04 . 01 . 01 . 05 . 04 . 01 . 07 . 07 . 07 . 07 . 07 . 07 . 07 . 07	2 1 1 3 1 1 3 1 4 4 3 1 4 4 2 1 7 7 5 2 1 1 7 5 2 1 1 7 7 5 2 1 1 1 3 1 3 1 3 1 4 4 6 6 6 7 1 1 1 3 1 3 1 1 3 1 1 1 3 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 1 3 1 1 1 1 3 1 1 1 1 1 3 1 1 1 1 1 1 3 1	1 1556 4757 1 1937 4758	11.8 11.7	10 8 111	•	ě č	
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0 20 64	IDENT #FICATION	QUANTITY	PER HOUR	PER MILE	INCIDENTS	NOON LOCATION	HOURS	HILES	CRUISE	SHIP
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1 04 44	146101	3	.5	. 21	1		2.2	22	10	6
	122510 131104	33	15.0	1.50	20	1 2114 5749	e.2	~	10	•
	131112 133213	22	10.0	, n.4 1, 0-1	1 13					
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11 05 64	122000	10		.09	8	1 1841 5659	11.4	110	10	6
	172510 122630	28	2.4	. 25	1					
	122631	43 3	3.7	.39	24 3					
	131112 136907	1	.1	.01	1					
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11 06 64	172510	4	.3	. 03	23	1 1455 5659	11.5	126	10	6
	172631	0	. 4	.06	7					
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	122519	15 343	1.3 29.8	3.20	12					
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DATE	IDENTIFICATION	QUANTETY	PFR HOUR	PER MILE	INCIDENTS	NOON LOCATION	HOURS	HILES	CRUISE	\$H[#
1 10 64	172431	7	. 6	.06	٠	1 1850 5357	11.3	116	10	•
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1 11 64	121110	1	.1	.01	1	1 2233 5356	11.1	104	10	6
	122519	1	.1	. 91	1					
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1 12 64		3	. 2	.02						
	131104	2	.2 .1 .1	.01	2	1 2330 5100	11.0	95	10	4
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	122000 123514 122520 131106 136107 122519 122520 122520 122631	2 1 7 93 2 1 1 1 1 1 1 1 3	.1 .6 8.4 .1 .1 .1 .1 .4 .7	.01 .07 .07 .02 .01 .01 .01 .02	1 7 22 1 1 1 1 3					
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1 13 64	122000 12251 131106 131106 13900 127510 127510 127510 127510 127510 133104 133104 133117 133107 133107 133107 132200	2 1 7 93 2 1 1 1 1 1 1 3 3 1 3 2 3 10	.1 .3 .4 .1 .1 .1 .1 .1 .1 .2 .2 .1 .2 .8 .3	.01 .07 .07 .02 .01 .01 .01 .02 .02 .02 .02 .01 .26 .02 .02 .02 .01	1 7 22 2 1 1 1 3 3 1 1 8 6 1	1 2008 5097	11.2	105	10	•
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1 13 64	12200 12251 12750 131106 135107 12750 12750 12750 12750 127506 127506 127506 131107 127506 131107 127506 127507 12	2 1 7 7 8 1 1 1 1 1 8 3 1 1 1 2 2 1 1 1 7 1 1 1 8 3 1 1 1 2 2 1 1 2 7 1 2 1 1 1 7 1 1 2 2 1 1 1 7 1 1 1 2 2 1 1 1 7 1 1 1 2 2 1 1 1 7 1 1 1 2 2 1 1 1 7 1 1 1 2 2 1 1 1 7 1 1 1 2 2 1 1 1 7 1 1 1 2 2 1 1 1 7 1 1 1 2 2 1 1 1 7 1 1 1 2 2 1 1 1 7 1 1 1 2 2 1 1 1 7 1 1 1 2 2 1 1 1 7 1 1 1 2 2 1 1 1 7 1 1 1 1	.1 .6 8.4 .1 .1 .1 .2 .2 .2 .2 .2 .2 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.01 .07 .07 .07 .07 .01 .01 .01 .01 .02 .02 .02 .02 .02 .02 .01 .01 .01 .01 .01 .00 .01 .00 .01 .00 .01 .00 .01 .00 .01 .00 .01 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02	177222111110011110011100110000000000000	1 2008 5097 1 1624 5100	11.2	105	10	•
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11.17 11.179	•										
	DATE	IDENTIFICATION	QUANTITY	PFR HOUR	PER MILE	INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	5H1P
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		123409	6	.5	.04	6					
		146867	114	9.9	.94	6					
1 1	11 18 64	122000	3	. 2	. * 2	1	1 1720 4758	11.3	103	10	6
1. 17 • 4 1		122510	5	. 4	.04	5					
1 1		122521	1	- 1	.01	1					
1 1		122604	2	.1		1					
1 1 2 1		172631 173409	11		. 1 1	10					
1 1 2 4 1 1 2 4 1 1 2 4 1 1 1 2 4 1		173423	2	• 1	.01	2					
1. 20 44 1. 2046 4.794 11.4 1.13 1 4 1. 21 44 1. 100 1. 100 4. 1. 100 4. 1. 100 4. 1. 22 44 1. 100 1. 100 1. 100 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 4. 1. 100 1. 4. 1. 100 1. 4. 1. 100 1. 4. 1. 100 1. 4. 1. 100 1. 4. 1. 100 1. 4. 1. 100 1. 4. 1. 100 1. 4. 1. 100 1. 4. 1. 100 1. 4. 1. 100 1. 4. 1. 100 1. 4. 1. 100 1. 1. 100 1. 4. 1. 100 1. 4. 1. 100 1. 1.		133213	1	. 1	.01						
1 2 44 1 2448 4794 1.1.0 1.13 1.5 4 1 21 44 1 2794 21.0 1.1.0 1.14 1.5 6 1 21 44 1 2974 20.0 1.0 44 1.0 6 1 22 44 1 27 27 1.0 1.23 44 1.0 6 1.0 64 1.0 6 1 22 27 27 27 27 1.23 1.23 1.0 64 1.0 6 1 23 44 10 1.23 1.23 1.20 1.20 1.10 1	11 19 44	172510	4				1 2100 4759	11.0	113	10	6
1 20 44 1 249 4794 11.0 113 10 4 1 21 44 1 2274 9077 10.9 114 10 6 1 22 44 1 2274 9077 10.9 114 10 6 1 22 44 1 2274 9077 10.9 114 10 6 1 22 44 1 2274 9077 10.9 114 10 6 1 23 44 1 111 4 10 6 10 10 10 10 6 1 23 44 1 111 4 10		172519	5	. 4	.04	5					
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1332137 133217 133217 133217 1 13310 134017 1 144101 172000 1 122010 1 122010 1 122000 1 122000 1 122000 1 122000 1 122000 1 122000 1 122000 1 122000 1 122000 1 1 1 1 1 1 1 1 1 1 1 1 1	11 23 64	1 22A3n 1 27A3n 1 3110A 1 3110A 1 34107 1 44307 1 44307 1 44307 1 44307 1 44307 1 44307 1 44307 1 42500 1 2200 1 22510	1 5 1 10 1 27 5 1 14 1	PFR HOUR .1 .4 .1 .7 .1 .0 .1 .1 .2 .2 .2 .2 .2	PER HILE .01 .04 .02 .01 .03 .01 .23 .10 .02 .29 .02	INCIDENTS 1 1 1 1 7 1 2 4 1 3 1	1 2341 5700	10.9	117	10	6
133917 1 .2 .02 1 139107 1 .2 .02 1 144101 5 1.2 .11 3 144101 5 1.2 .11 3 144101 5 1.2 .11 3 144401 5 107 24.0 2.22 5 13900 2 .1 .11 1 1 1 13900 2 .1 .11 1 1 1 131107 2 .1 .03 1 1418 5700 11.3 120 11 6 13100 1 .1 .1 .01 1 1 1 6 1 1 1 1 6 1	11 23 64	12243n 127431 131104 131104 134107 1448407 12110 122001 122001 122201 122201 122201 122201 122231 13104	1 5 1 10 10 27 5 1 14 1 6 1	PFR WOUP .1 .4 .1 .2 .1 .9 .1 .9 .1 .2 .2 .2 .2 .2 .2 .4 .2 .1 .4	PER HILE .01 .04 .01 .02 .01 .03 .01 .23 .10 .02 .02 .12 .02 .02	J4CIDENTS 1 5 1 1 7 7 1 2 4 1 3 1 2 2	1 2341 5700	10.9	117	10	6
144101 5 1.2 10 3 144101 107 26.0 2.22 5 144464 107 26.0 2.22 5 122 64 122000 2 -1 01 2 13101 2 -1 01 2 1 1756 5659 11.2 109 11 6 13101 2 -1 01 1 1 1 6 1 7 6 1 1 1 6 1 1 6 1 1 6 1 1 6 1 1 1 6 1 1 1 6 1 <	11 23 64	122430 122630 131100 133100 133210 144300 144300 122010 122010 122210 122210 131100 131100 13110	1 5 1 10 10 27 5 1 14 1 6 1	PFR WOUR .1 .4 .7 .1 .9 .1 .9 .1 .9 .2 .2 .2 .2 .4 .2 .2 .2 .2 .2 .2 .2 .2 .2	PER HILE .01 .04 .01 .02 .01 .02 .02 .03 .03 .02 .29 .02 .12 .02 .02 .02 .02 .02 .02 .02 .02 .02	J4CIDENTS 1 5 1 1 7 7 1 2 4 1 3 1 2 2	1 2341 5700	10.9	117	10	6
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144487 22 5.3 45 2 122000 2 1 01 2 122010 2 1 01 2 131107 2 1 01 1 131107 2 1 01 1 131107 2 1 01 1 131107 2 1 01 1 131007 1 101 1 1 13108 1 1416 5700 11.3 120 1 13108 1 1 01 1 1 01 1 13108 1 1 01 1 1 01 1 13108 1 1 01 1 01 1 01 1 122000 2 1 01 1 01 1 01 1 122000 2 1 01 1 01 1 01 1 122000 2 1 01 1 01 1	11 23 64	192430 197631 131100 133100 1339417 144807 144807 144807 144807 187000 1872000 1872000 187200 187200 187200 187310 131100 131100 131317 133517 133517 133517 134101	1 5 3 10 17 5 14 16 1 17 1 1 5	PER HOUR .1 .4 .7 .9 .1 .9 .1 .9 .1 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	PER HILE .01 .04 .04 .02 .02 .03 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02	INCIDENTS 1 5 1 1 1 1 2 4 1 3 1 2 1 1 4 4 1 1	1 2341 5700	10.9	117	10	6
122310 2 1 01 2 1 00 1 133400 1 00 1 1 01 1 133400 1 101 1 101 1 13117 2 1 01 1 1 01 1 134007 1 101 1 01 1 1 01 1 122000 7 6 055 3 1 1416 5700 11.3 120 17 6 122000 1 1 01 1 1 101 1 1 101 1 1 1 1 6 1 <t< td=""><th>11 23 64</th><td>192430 197431 131100 133100 133917 144807 144807 144807 187200 187100 187100 187100 1870000 1870000 1870000 1870000 1870000 1870000 18700000 1870000 187000000000000000000000000000000000000</td><td>1 5 1 3 10 1 7 5 1 4 1 6 1 17 1 1 5 3</td><td>PER HOUR .1 .4 .7 .7 .7 .4 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7</td><td>268 HILE .01 .04 .01 .03 .03 .03 .03 .03 .03 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02</td><td>INCIDENTS 1 1 1 1 1 2 4 1 1 1 4 1 1 3 1 1 3 1</td><td>1 2341 5700</td><td>10.9</td><td>117</td><td>10</td><td>6</td></t<>	11 23 64	192430 197431 131100 133100 133917 144807 144807 144807 187200 187100 187100 187100 1870000 1870000 1870000 1870000 1870000 1870000 18700000 1870000 187000000000000000000000000000000000000	1 5 1 3 10 1 7 5 1 4 1 6 1 17 1 1 5 3	PER HOUR .1 .4 .7 .7 .7 .4 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	268 HILE .01 .04 .01 .03 .03 .03 .03 .03 .03 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02	INCIDENTS 1 1 1 1 1 2 4 1 1 1 4 1 1 3 1 1 3 1	1 2341 5700	10.9	117	10	6
133112 2 1 01 1 03 64 133112 2 1 01 1 134107 1 1 01 1 1 1 03 64 122000 7 6 05 3 1 1416 5700 11.3 120 17 6 172606 1 1 01 1	11 23 64	192430 197631 131100 133106 133913 144300 144300 191410 192301 192401 192401 131106 131106 131106 131106 13110 13100 13100 131100 131100 13110	1 5 1 27 5 1 1 1 6 1 1 7 1 1 5 3 7 22	PER HOUR .1 .4 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	PER HILE .011 .04 .05 .05 .05 .05 .05 .05 .05 .05	INCIDENTS 1 1 1 1 1 7 7 7 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2341 5700 1 2101 5739	4.1	48	10	6
03 64 1407 122000 1 .1 .01 1 122000 3 .2 .07 .3 1 1418 5700 113 120 17 6 122000 3 .2 .07 .3 1 1418 5700 113 120 17 6 122000 1 .1 .01 1 .1 .01 1 <td< td=""><th>11 23 64</th><td>192430 197631 131100 133106 133913 144300 144300 144300 197530 197530 197530 197530 131100 131213 131213 13213 13213 13213 13213 13210 144101 144101 144100 144</td><td>1 5 1 3 1 0 2 7 5 1 4 1 6 1 1 7 1 1 5 1 0 7 2 2 2</td><td>PER HOUR .1 .4 .7 .7 .9 .7 .4 .7 .7 .4 .7 .7 .4 .7 .7 .4 .7 .7 .4 .7 .7 .4 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7</td><td>PE# HILE .011 .017 .019 .019 .019 .019 .023 .029 .022 .022 .022 .022 .022 .022 .022 .022 .022 .022 .022 .022 .022 .022 .021 .031 .039 .022 .022 .022 .021 .022 .022 .021 .022 .021 .010 .011 .011 .022 .022 .022 .021 .011 .0</td><td>I 4 C I DENTS 1 5 1 1 1 7 1 2 4 1 3 1 1 1 3 1 3 1 5 2 2</td><td>1 2341 5700 1 2101 5739</td><td>4.1</td><td>48</td><td>10</td><td>6</td></td<>	11 23 64	192430 197631 131100 133106 133913 144300 144300 144300 197530 197530 197530 197530 131100 131213 131213 13213 13213 13213 13213 13210 144101 144101 144100 144	1 5 1 3 1 0 2 7 5 1 4 1 6 1 1 7 1 1 5 1 0 7 2 2 2	PER HOUR .1 .4 .7 .7 .9 .7 .4 .7 .7 .4 .7 .7 .4 .7 .7 .4 .7 .7 .4 .7 .7 .4 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	PE# HILE .011 .017 .019 .019 .019 .019 .023 .029 .022 .022 .022 .022 .022 .022 .022 .022 .022 .022 .022 .022 .022 .022 .021 .031 .039 .022 .022 .022 .021 .022 .022 .021 .022 .021 .010 .011 .011 .022 .022 .022 .021 .011 .0	I 4 C I DENTS 1 5 1 1 1 7 1 2 4 1 3 1 1 1 3 1 3 1 5 2 2	1 2341 5700 1 2101 5739	4.1	48	10	6
12200A 3 .2 .07 3 .01	11 23 64	192430 197631 131100 133106 133913 144300 144300 19713 19713 19713 19713 19713 19713 19710 197230 131100 131100 131100 131100 131100 131100 131100 144101 144101 144100 144100 144100 144101 14410	1 5 1 3 1 0 1 7 5 1 4 1 6 1 1 7 1 1 5 3 7 2 2 2 1 1 5 3 7 2 2 2 1 1 5 3 7 2 2 2 1 1 5 3 7 2 2 2 1 1 5 3 7 2 2 2 2 1 1 5 3 7 2 2 2 2 1 1 1 5 3 7 2 2 2 2 1 1 1 5 3 7 2 2 2 2 1 1 1 5 3 7 2 2 2 2 1 1 1 5 3 7 2 2 2 2 1 1 1 5 3 7 2 2 2 2 1 1 1 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 1 1 2 2 2 2 2 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 1	PFR HOUR .1 .4 .1 .7 .7 .4 .7 .7 .4 .7 .4 .7 .7 .4 .7 .7 .4 .7 .7 .4 .7 .7 .4 .7 .7 .4 .7 .7 .7 .4 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	PER *[LE .01] .040 .013 .013 .013 .013 .014 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02	INCIDENTS 1 5 1 1 1 1 2 4 1 1 2 1 4 1 1 5 1 2 2 2 2 2	1 2341 5700 1 2101 5739	4.1	48	10	6
1 .1 .03 1 13100 1 .1 .01 1 1404 1 .1 .01 1 13100 1 .1 .01 1 1404 12920 2 .1 .01 1 12920 2 .1 .01 2 1 1053 5942 11.4 110 11 6 12920 2 .1 .01 2 1 1053 5942 11.4 110 11 6 129203 5 .4 .64 4 4 19233 1 .1 6 129203 5 .4 .64 4 4 110 11 6 129203 1 .1 .01 1 1 11 <	11 23 64 12 01 64 12 02 64	192430 197431 131100 133100 133913 1443007 1443007 19710 197200 197200 197200 197200 133100 133100 133100 133100 133100 133100 144100 1451000 1450	1 5 1 3 1 1 2 7 5 1 4 1 1 5 1 7 7 2 2 2 1 2 2 1 2	PFR HOUR .1 .4 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	PER *[LE .81] .049 .019 .019 .019 .101 .202 .122 .022 .122 .022 .022 .022	I VC I DENTS 1 5 1 1 1 7 1 1 2 4 1 3 1 1 5 2 2 2 2 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2341 5700 1 2101 5730 1 1758 5659	10.9 4.1 11.2	117 48	10	•
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122701 1 .1 .01 1 12300 1 .01 1 123100 7 .0 .06 131100 1 .01 1 144407 19 1.0 .17 5 123100 2 .1 .01 2 1.143<5359 11.5 103 11 6 123100 2 .1 .01 2 1.143<5359 11.5 103 11 6 123200 1 .1 .01 2 1.143<5359 11.5 103 11 6 123200 1 .1 .01 1	11 23 64 12 01 64 12 02 64 12 03 64	192430 197431 131100 133913 134107 144307 144307 144307 144307 144307 144307 144307 144307 19751 131106 131106 131106 131106 131107 144007 172000 172574 172000 172574	1 5 1 3 1 1 0 1 7 5 1 1 4 1 6 1 1 7 1 1 5 3 7 2 2 1 2 1 7 3 1 1 1 5 2 2 1 7 3 1 1 1 2 7 3 1 1 1 2 7 5 1 1 1 1 2 7 5 1 1 1 1 2 7 5 1 1 1 1 2 7 5 1 1 1 1 2 7 5 1 1 1 1 2 7 5 1 1 1 1 2 7 5 1 1 1 1 2 7 5 1 1 1 1 2 7 5 1 1 1 1 1 2 7 5 1 1 1 1 1 2 7 5 1 1 1 1 1 2 7 5 1 1 1 1 1 1 1 1 1 1 2 7 1 1 1 1 1 2 7 1 1 1 1	PFR HOUR 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 2 4 4 1 4 1	PER HILE .011 .012 .013 .013 .013 .013 .029 .022 .022 .022 .022 .022 .022 .022 .022 .022 .022 .022 .021 .035 .029 .022 .022 .022 .021 .035 .022 .022 .022 .022 .022 .021 .035 .022 .021 .011 .015 .025 .022 .027 .011 .015 .025 .021 .011 .015 .025 .021 .011 .015 .025 .011 .015 .025 .021 .011 .015 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .011 .025 .021 .0	I NCIDENTS 1 5 1 1 2 4 1 3 1 2 4 1 3 1 2 1 1 1 2 4 1 3 3 1 1 1 1 2 2 1 5 5 2 2 2 1 2 1 5 5 2 2 2 1 2 1	1 2341 5700 1 2101 5730 1 1758 5659 1 1418 5700	10.9 4.1 11.2 11.3	117 48 109 120	10	6
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DATE	IDENTIFICATION	QUANTITY	PER NOUR	PER MILE	INCIDENTS	NCON LOCATION	HOURS	MILES	CRUISE	SHIP	•
12 06 64	173409	1	.1	.01	1	1 1911 9481	11.3	93	11	•	
•	131106	2	. 1	. 02	5						•
12 07 64	146301 122009	3	. ?	.03	2	1 1859 5400	11.0	114	11	•	
•	122510	5	. 4	.04	3					-	•
_	172519	2 7	. 1 . 6	.01	2						_
•	172609	1	.1	.01	1						•
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•	172636	1	.1	.01	ī						•
_	122642 173409	1 3	.1	.01	1 3						_
•	123423	1	.1	.01	ĩ						•
	131100 131112	1	.1	.01	1						
•	144100	1	. 1	.01	1						•
-	146110	1 3	.1	.01	1						
•	146867	30	2.7	. 26	1						•
12 08 64	121110 122000	28	2.5	.25	7	1 2367 5356	10.8	108	11	•	_
•	122510	15	1.3	.13	•						•
-	122519 122520	1	.1	.01	1						-
•	122524	1	.1	.01	1						•
•	172631	1	• 1 • 1	.01	1						
12 09 64	133713	2	.1	. 01	1			+3		•	•
12 09 04	121110	17 2	1.5	.18	13 2	1 2249 5055	10.0	*3	11	•	_
•	122511	3	. 2	.03	3						•
•	122631 123409	1 2	-1 -1	.01	1 2						_
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•	122510	1	. 3	.03	3						•
•	122601	1	-1	.01	1						-
-	122631 122647	1	.1	.01	ĩ						•
•	131106	1	.1 .1	. 91	1						-
-	133213	1 2	.1	.01	1						•
12 11 64	188880	1	•1 •1	. 01	1	1 1511 5099	11.3	104	11		-
•	122000	2 2	.1	.01	2						•
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	122510	5	.6 .4	.07	4						•
•	122520	1	.1	.01	1						-
•	122920	1	.1	.01	1						•
● DATE				.01	1	NOON LOCATION	HOURS	HILFO		\$H1P	•
-	IDENTIFICATION	QUANTITY	PER HOUR	.01 PER MILE	1 INCIDENTS	NGON LOCATION		HILES	CRUISE	8H1P	•
 DATE 12 12 44 	IDENTIFICATION 172608 172609	QUANTITY 18		.01 Per mile .20 .02	1 Incidents 8	NOON LOCATION 1 1131 5050	HOURS 11,4	HILE8 89	CRUI SE 11	8H]P 6	•
-	1 DENT IF 1 CATION 17260A 172609 172631	QUANTITY 18 2 2	PER HOUR 1,5 .1 .1	.01 PER MILE .20 .02 .92	1 INCIDENTS 2 2 2						•
-	IDENTIFICATION 192609 192609 192631 192633 192603	QUANTITY 18 2 2 1 4	PER HOUR 1,5 .1 .1 .1	.01 PER MILE .20 .02 .02 .01 .01	1 INCIDENTS 8 2						•
• 12 12 44 •	IDENTIFICATION 122604 122631 122631 122633 123404 144867	OUANTITY 18 2 1 4 101	PER HOUR 1,5 .1 .1 .1 .3 8.6	.01 PER MILE .20 .02 .02 .04 1.13	1 INCIDENTS 8 2 2 1 4 4	1 1131 5050	11.4	••	11	•	•
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• 12 12 44 •	IDENT (F) (ATION 122604 122604 122631 122633 123404 144467 122510 122510	GUANTITY 18 2 1 1 10 10 1 3 1 1	PER HOUR 1,5 .1 .1 .3 8.8 1.1 2.6	.01 PER MILE .20 .02 .02 .01 .04 1.13 .11 .26	1 Incidents 2 2 1 4 4 4 7 5	1 1131 5050	11.4	••	11	•	• • •
• 12 12 44 •	IDENT (F1CATION 172609 172609 182631 182631 18263 18260 122510 122510 182520 182601 182600	OUANTITY 18 2 1 1 4 101 13 3 1 1 1 20	PER HOUR 1,5 -1 -1 .1 .3 8.8 1.1 2.6 .1 .1 1.7	.01 PER MILE .20 .02 .01 .04 1.13 .11 .28 .01 .24 .01	1 INCIDENTS 8 2 2 1 4 4 4 4 4 7 1 1 1 1	1 1131 5050	11.4	••	11	•	• • • • • •
• 12 12 44 •	IDENT IFICATION 177609 177609 186433 186437 187809 187300 187300 187524 187600 187524 187609	OUANTITY 18 2 1 4 101 13 31 1 1 20 1	PER HOUR 1,5 -1 -1 .3 8,8 1,1 2,6 -1 1,7 .1	.01 PER MILE .20 .02 .01 .04 1.13 .11 .28 .01 .01 .10	1 INCIDENTS 2 1 4 4 4 7 1 1 1 1 1 1 1	1 1131 5050	11.4	••	11	•	• • • • • • • • • • • • • • • • • • • •
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•		146301 146867	52 15	11.0	1.00	23	1 1830 5701	11.1	85	12		•
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•		122510 12260A	5	.4	.05	2						-
		172609 12263n	1 2	.1	.01	1						•
		122633	4	.3	.04	3						•
٠		123409	37 2	3.3	43	20 2						
		131117 146101	1	.1	.01	1 5						•
•		146301 146867	404	36.3	4.75	8 2	1 1456 5700	11.3	123	12	•	•
۰	01 07 65	122000 122510	23	.1	. 02	3	1 100 000					•
•		122608	3 1	.2 .1	.02	i						•
•		172633	1	.1	.01	1						_
•		123409 133206	1	.1	.01	1				12		•
	01 08 65	122000	1 2 1	.1	.02	2	1 1122 5649	11.4		16	•	•
•		122524	2	.1	.02	1						
		122608	2	.1	.02	2						•
-		122433	2	.1	.02	2						•
•		123000 123409	1	-1	.01	1						•
		131100	3 5		.05	ŝ						•
						-						
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•	DATE	IDENTIFICATION	GUANTETY	PER HOUR		INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	SHIP	•
•	DATE 01 09 65	1 DENT JFICATION 180000	1	. 1	PER MILE .01	INCIDENTS	1 1101 5359	NOURS 11.5	MILE S 117	CRUISE 12	SHTP 6	•
•		IDENTIFICATION	1117	. 1 . 9 . 6	PER MILE .01 .09 .85	INCIDENTS 1 5	1 1101 5359					•
•		1 DENT JFICATION 180000 122510 122510 122608	11	. 1 . 9 . 6 . 2 . 1	PER WILE .01 .09 .09 .07 .07	INCIDENTS 1 4 3 3 1	1 1101 5350					•
•		IDENTIFICATION 180000 182000 182510 182608 182638 182630 183000	1 11 7 3	. 1 . 9 . 6 . 2 . 1 . 1	PER HILE .01 .09 .05 .07 .01 .01	INCIDENTS 4 5 3 1 1 1 1	1 1101 5359					•
•		1DENTIFICATION 180000 182000 182510 182630 182630 183000 183409 131100	1 11 7 3 1 1 1 1 3	. 1 . 9 . 6 . 2 . 1 . 1 . 1 . 1	PER MILE .01 .09 .05 .07 .01 .01 .01 .01	INCIDENTS 4 5 3 1 1	1 1101 5350					• • •
•	01 09 65	IDENTIFICATION 100000 122000 122300 12230 122000 123000 123000 13100 144330 1445301 146647	1 11 7 3 1 1 1 1 3 1 125	.1 .9 .6 .7 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER MILE .01 .09 .05 .07 .01 .01 .01 .01 .01 .01 .01 .01 .01	INCIDENTS 1 4 5 1 1 1 1 2 2	1 1101 5350					• • •
• • • • • • • • • •		1 DENTIFICATION 1 8000 1 82000 1 82000 1 82000 1 82000 1 83000 1 83000 1 83000 1 83000 1 83000 1 84000 1 82000 1 82000 1 82000	1 11 7 3 1 1 1 3 1 125 8 5	.1 .9 .6 .2 .1 .1 .1 .1 .1 .1 .1 .2 .1 .1 .2 .1 .1 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER WILE .01 .09 .05 .07 .01 .01 .01 .01 .02 .01 .02 .01 .02 .01 .06	INCIDENTS 1 5 3 1 1 1 2 2 1 2 1 2 1 1 2 1 1 2 1 1 1 1	1 1101 5350	11.5	117	15		•
• • • • •	01 09 65	1 DENTIFICATION 1 80000 1 82000 1 82000 1 82000 1 82000 1 8300 1 8300 1 8300 1 8300 1 8300 1 82000 1 82000	1 11 7 3 1 1 1 1 25 8 5 5 5 1	.1 .9 .6 .7 .1 .1 .1 .7 .2 .4 .4 .4 .4 .1	PER WILE .01 .05 .07 .01 .01 .01 .01 .01 .02 .01 .06 .04 .04 .04	INCIDENTS 1 5 3 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1101 5350 1 1457 5405	11.5	117	15		• • •
•	01 09 65	1 DENTIFICATION 1 00000 1 22000 1 22000 1 22000 1 23000 1 33000 1 33000 1 44301 1 44301 1 44301 1 44301 1 22000 1 22000 1 22000 1 22031 1 22031 1 22031 1 22031 1 22030	1 11 7 1 1 1 1 1 25 8 5 5 5 1 1 25 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	.1 .9 .8 .7 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER WILE .01 .09 .07 .01 .01 .01 .01 .01 .02 .01 .06 .04 .04 .04 .04 .04	INCIDENTS 1 4 5 3 1 1 1 1 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 1101 5350 1 1457 5405	11.5	117	15		• • • •
• • • • • • • • • • • • • • • • • • • •	01 09 65	1 DENTIFICATION 1 80000 1 82000 1 820000 1 80000 1 800000 1 800000000 1 8000000000000000000000000000000000000	1 11 7 3 1 1 1 1 2 5 5 5 5 5 1 1 2 3 3 3 1	.1 .9 .8 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER WILE .01 .09 .07 .01 .01 .01 .01 .02 .02 .02 .04 .04 .04 .04 .04 .04 .04 .04 .04 .02 .02 .02	INCIDENTS 1 4 5 3 1 1 1 1 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 1101 5350 1 1457 5405	11.5	117	15		•
•	01 09 65	1 DENT 1 F1C # 1 DM 1 80000 1 82000 1 82000 1 82008 1 82008 1 82008 1 8300 1 8300 1 8309 1 82000 1 82000 1 82000 1 82000 1 82000 1 82000 1 82000 1 82000 1 83000 1 84000 1 840000 1 84000 1 84000 1 84000 1 84000 1 84000 1 84000 1	1 11 3 1 125 8 8 125 1 2 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2	1 9 8 2 2 1 1 1 1 1 1 1 1 8 1 1 8 1 1 8 1 8	PER WILE .01 .09 .07 .01 .01 .01 .02 .100 .01 .02 .01 .04 .04 .01 .02 .02 .01 .01 .02 .01 .01 .02 .01 .01 .01 .05 .05 .07 .01 .05 .07 .05 .07 .07 .01 .01 .05 .07 .07 .07 .07 .07 .07 .07 .07 .07 .07	INCIDENTS 1 4 3 3 3 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1101 5350 1 1457 5405	11.5	117	15		• • • •
	01 09 65 01 10 65	1 DEWT IF 1 C # T DW 1 00000 1 22000 1 22000 1 22008 1 22008 1 23000 1 31106 1 465817 1 22000 1 22031 1 22031 1 22031 1 22031 1 22031 1 22031 1 3206 1 33206 1 33206 1 33206 1 3407 1 46301 1 4657 1 46301 1 4657 1 46577 1 46577 1 46577 1 46577 1 46577 1 465777 1 465777 1 4657777 1 465777777777777777777777777777777777777	1 11 3 3 125 8 5 5 1 125 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 5 5 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1		PER WILE .01 .09 .07 .01 .01 .01 .01 .01 .01 .04 .04 .04 .04 .04 .04 .04 .04 .04 .04	INCIDEN ^T 5 1 4 4 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1	1 1101 5359 1 1457 5405	11.3	117	15		• • • • • •
• • • • • • • •	01 09 65	1 DEWT IF ICATION 1 00000 1 22000 1 22000 1 22000 1 22000 1 23000 1 23000 1 23000 1 24000 1 22000 1 31100 1 22000 1 31200 1 31200	1 11 3 1 1 1 1 3 3 3 5 5 5 5 5 5 1 1 1 2 5 5 5 5 5 1 1 1 2 5 5 5 5		PER WILE .01 .09 .07 .01 .01 .01 .02 .91 .04 .01 .04 .04 .04 .04 .04 .04 .04 .04 .04 .04	INCIDEN ^T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1101 5350 1 1457 5405	11.5	117	12	•	
• • • • • • • • •	01 09 65 01 10 65	1 DENT IF 1 C & T 1 OM 1 00000 1 72010 1 72010 1 72010 1 72036 1 72036 1 72036 1 72030 1 72030 1 72030 1 72030 1 72000 1 72000 1 33206 1 32206 1 3220	1 11 1 3 3 1 1 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		PER will 01 09 01 01 01 01 01 02 01 04 04 04 05 04 04 04 05 04 04 04 05 04 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01	INCIDENTS 1 4 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1101 5359 1 1457 5405 1 1000 5400	11.3	117	12	•	• • • • • • • • •
• • • • • • • • •	01 09 65 01 10 65	1 DENT IF 1C & TIOM 1 00000 1 72010 1 72000 1 72000	1 11 3 3 1 1 1 1 2 5 5 5 1 1 2 3 3 3 1 1 2 2 3 3 1 1 2 1 2 5 5 1 1 2 1 2 1 2 1 2 1 2 1 2		PER wile .01 .09 .02 .01 .01 .01 .02 .01 .04 .04 .05 .04 .04 .04 .05 .04 .04 .04 .05 .02 .01 .01 .02 .02 .01 .01 .01 .01 .02 .02 .01 .01 .02 .02 .01 .01 .01 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05	INCIDENTS 9 3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1101 5350 1 1457 5405 1 1000 5400	11. 3 11.3	117 122 11 6	12	•	•
	01 09 65 01 10 65	1 DENTIFICATION 1 00000 1 72000 1 33206 1 33206 1 33206 1 33206 1 32000 1 32200 1 32200 1 122000 1 72000 1 7	1 11 3 3 1 2 5 5 5 1 2 5 5 1 2 3 3 3 3 3 3 3 1 2 5 5 1 2 3 5 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		PER WILE .011 .029 .027 .011 .011 .011 .011 .011 .021 .0	INCIDENTS 1 5 3 1 1 1 1 1 1 2 1 1 2 1 1 1 2 1 1 1 1 2 1	1 1101 5359 1 1457 5405 1 1000 5400	11.3	117 122 11 6	12	•	• • • • • •
	01 09 65 01 10 65	1 DENT IF 1 C & T 1 OM 1 00000 1 72000 1 33206 1 33206 1 33206 1 33206 1 22000 1 72000 1 7200	1 11 3 1 1 1 1 1 3 3 1 2 5 5 1 2 3 3 3 3 1 2 5 5 1 2 3 5 1 2 3 5 1 2 5 5 1 2 3 5 1 2 5 5 1 2 3 5 5 1 2 3 5 5 1 2 3 5 1 2 5 5 1 2 3 1 2 5 5 1 2 3 1 2 5 5 5 1 2 5 5 5 1 2 5 5 5 5 5 5 5 5		PER WILE .011 .099 .017 .011 .011 .011 .011 .011 .011 .022 .021 .011 .021 .021 .011 .021 .011 .021 .021 .011 .0	INCIDENTS 4 3 3 1 1 1 2 2 3 1 1 1 2 4 4 4 4 4 1 1 2 3 1 1 1 2 3 1 1 1 2 3 3 1 1 1 4 5 3 1 1 1 4 5 3 5 1 1 4 5 5 5 1 1 4 5 5 5 1 1 5 5 5 5 5	1 1101 5350 1 1457 5405 1 1980 5400	11. 3 11.3	117 122 11 6	12	•	• • • • • • •
	01 09 65 01 10 65	1 DENT IF 1 C & T 1 OM 1 80000 1 82000 1 82000 1 82000 1 82000 1 83400 1 83400 1 82400 1 82400 1 82400 1 82400 1 82400 1 83400 1 83400 1 83400 1 82400 1 84400 1 844000 1 844000 1 844000 1 844000 1 844000 1 844000 1 844000 1 844000 1 8440000 1 844000 1 844000 1 844000 1 844000 1 844000 1 8440000 1 8440000 1 8440000 1 8440000 1 8440000 1 8440000 1 8440000 1 8440000 1 8440000 1 84400000 1 84400000 1 84400000 1 844000000 1 84400000000000000000000000000000000000	1 11 1 1 1 1 1 1 2 3 5 5 5 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		PER WILE .011 .099 .017 .011 .0	INCIDENTS 4 3 3 1 1 1 2 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1	1 1101 5350 1 1457 5405 1 1000 5400	11.3	117	12	•	•
	01 09 65 01 10 65	1 DENT IF 1 CATION 1 80000 1 82000 1 82000 1 82000 1 8300 1 8000 1 8000	1 1 1 1 1 1 1 1 1 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 3 3 3 1 2 1 2		PER WILE .01 .09 .01 .09 .01 .09 .01 .01 .01 .01 .01 .01 .01 .02 .01 .04 .04 .04 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .02 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .02 .031 .044	INCIDEN ^T S 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1101 5359 1 1457 5405 1 1980 5400 1 2315 5382	11.3	117 122 11 6	12	•	• • • • • • • • •
	01 00 65 01 10 65 01 11 65	1 DENT IF IC & TION 1 DENT IF IC & TION 1 F2010 1 F200	1 1 1 1 1 1 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		PER MILE .01 .09 .01 .09 .01 .09 .01 .01 .01 .01 .01 .01 .02 .04 .04 .04 .04 .01 .02 .01 .02 .01 .01 .02 .01 .02 .01 .02 .01 .02 .01 .01 .02 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .02 .03 .044	INCIDENTS 4 3 3 1 1 2 4 4 4 4 4 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1	1 1101 5359 1 1457 5405 1 1990 5400 1 2315 5352	11.3	117	12	•	• • • • • • • • • • • • • • • • • • • •
	01 00 65 01 10 65 01 11 65	1 DENT IF 1 C & T 1 OM 1 00000 1 27010 1 27010 1 27030 1 27000 1 2700	1 11 11 12 13 13 12 15 5 5 5 5 5 5 5 5 5 5 5 1 1 2 3 3 3 1 1 1 2 2 3 1 1 5 1 2 2 1 0 5 5 5 5 5 5 5 5 5 1 1 1 2 2 3 3 3 1 1 1 2 5 5 5 1 1 1 1 2 2 5 1 1 1 1 2 5 5 5 1 1 1 1		PER # LE .01 .09 .01 .01 .02 .01 .03 .04 .04 .01 .05 .02 .01 .04 .02 .01 .04 .04 .05 .04 .01 .05 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .02 .02 .01 .01 .01 .01 .02 .02 .03 .04 .04 .01 .05 .03 .04 .04 .03 .03 .03 .03 .04 .04	INCIDENTS 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3	1 1101 5350 1 1457 5405 1 1000 5400 1 2315 5392	11.3	117	12	•	•
	01 00 65 01 10 65 01 11 65	DENTIFICATION 100000 127000 127010 127010 127030 127030 127030 127030 127030 127000	1 11 1 1 1 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3		PER WILE .01 .09 .01 .01 .01 .01 .02 .01 .04 .04 .05 .04 .01 .01 .04 .04 .05 .02 .01 .01 .02 .02 .01 .01 .01 .01 .02 .02 .01 .01 .01 .01 .02 .02 .03 .03 .04 .04 .05 .02 .01 .01 .02 .02 .03 .04 .04 .04 .05 .02 .01 .01 .02 .02 .03 .04 .04 .04 .05 .03 .03 .03 .04 .04 .05	INCIDENTS 1 3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1101 5350 1 1457 5405 1 1990 5400 1 2315 5352	11.3	117	12	•	
	01 00 65 01 10 65 01 11 65	1 DENT IF 1 C & T 1 OM 1 00000 1 72010 1 72000 1 7200	1 11 1 1 1 1 1 1 1 2 5 5 5 5 1 1 1 2 3 3 3 1 1 1 2 5 5 5 1 1 2 3 3 3 1 1 1 2 5 5 5 1 1 2 3 3 3 1 1 1 1 2 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1		PER 01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .02 .02 .04 .04 .05 .02 .01 .01 .01 .01 .02 .02 .01 .01 .01 .01 .02 .02 .01 .01 .02 .02 .01 .01 .01 .01 .02 .02 .01 .01 .02 .02 .01 .01 .02 .02 .03 .03 .04 .04 .05 .05 .02 .02 .03 .03 .04 .04 .05	INCIDENTS 1 3 3 1 3 3 3 3 3 3 4 4 4 4 5 3 3 3 3 3 3 3 3 3	1 1101 5350 1 1457 5405 1 1000 5400 1 2315 5352	11.3	117	12	•	•
	01 00 65 01 10 65 01 11 65	1 DENTIFICATION 1 00000 1 72000 1 72010 1 72000 1 72	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		PEA .01 .09 .01 .09 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .02 .02 .01 .01 .02 .02 .01 .01 .01 .01 .02 .02 .01 .01 .02 .02 .01 .01 .01 .01 .02 .02 .01 .01 .02 .02 .01 .01 .02 .02 .03 .03 .04 .04 .04 .04 .03 .03 .03 .03 .04 .04 .03 .03 .03 .03 .03 .03 .03	INCIDENTS 1 3 3 1 2 3 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1101 5350 1 1457 5405 1 1900 5400	11.3	117	12	•	•
	01 10 65 01 11 65 01 12 65	1 DEMT 1 F (Ca T 104 1 80000 1 82010 1 82031 1 82031 1 82031 1 82031 1 82031 1 82031 1 82031 1 82030 1 82030 1 82040 1 82040	1 1 1 1 1 1 1 1 1 1 3 3 5 5 1 2 3 3 3 3 3 3 3 3 3 3 3 5 1 2 3 3 3 1 2 5 5 1 1 2 3 3 3 1 2 1 2 5 5 5 1 2 1 2 5 5 5 1 2 1 2 1 2		PEA .01 .09 .01 .09 .07 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .04 .04 .05 .02 .01 .01 .02 .01 .01 .01 .02 .01 .01 .01 .02 .01 .03 .03 .04 .01 .05 .02 .01 .01 .02 .02 .03 .03 .04 .04 .05 .02 .01 .01 .02 .02 .03 .03 .04 .04 .05 .03 .05 .03 .04 .04 .05 .05 .05	INCIDEN ^T S	1 1101 5350 1 1457 5405 1 1000 5400 1 2315 5392	11.3 11.3 11.1	117	12 12 12	•	•
	01 00 65 01 10 65 01 11 65	1 DEWT IF (CaTION 1 B0000 1 F2010 1 F2031 1 F2030 1 F2031 1 F2030 1	1 1 1 1 1 1 1 1 1 1 1 2 3 3 5 5 1 1 1 2 3 3 3 3 3 3 3 3 5 5 1 1 1 2 1 8 5 5 5 1 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		PEA 011 .00 .00 .01 .00 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .02 .01 .04 .04 .05 .01 .01 .01 .02 .01 .03 .03 .04 .04 .05 .03 .05 .03 .01 .01 .02 .04 .03 .03 .04 .04 .05 .03 .03 .03 .04 .04 .05 .03 .04 .04 .05 .04 .04 .04 .05 .03 .05 .03 .05 .04 .06 .04 .04	INCIDEN ^T 5	1 1101 5350 1 1457 5405 1 1000 5400 1 2315 5392	11.3 11.3 11.1	117 122 118	12 12 12	•	•
	01 10 65 01 11 65 01 12 65	1 DEWT IF ICATION 1 B0000 1 22010 1 22000 1 22000 1 22000 1 22000 1 22000 1 22000 1 22000 1 22000 1 22010 1 22010 1 22010 1 22010 1 22010 1 22010 1 22010 1 22010 1 22010 1 33100 1 33100 1 33100 1 33206 1 3210 1 22010 1 22000 1 2	1 1 1 1 1 1 1 1 1 1 2 3 3 3 1 1 1 2 3 3 3 3 1 1 1 2 3 3 3 3 3 1 5 5 5 5 5 1 1 1 2 3 3 3 1 5 5 5 5 5 1 1 1 2 3 3 3 1 5 5 5 5 5 5 5 5 5 5 5 5 5		PER WILE .01 .09 .01 .01 .01 .01 .01 .01 .02 .01 .04 .04 .05 .04 .01 .01 .02 .02 .01 .01 .01 .01 .01 .01 .01 .01 .02 .02 .01 .01 .01 .01 .01 .01 .01 .01 .02 .02 .03 .01 .01 .01 .02 .02 .03 .01 .04 .04 .05 .02 .01 .01 .02 .02 .03 .03 .04 .04 .05 .02 .04 .04 .05 .02 .04	INCIDENTS	1 1101 5359 1 1457 5405 1 1980 5400 1 2315 5352 1 2231 5887	11.3 11.3 11.1	117 122 118	12 12 12	•	•
	01 10 65 01 11 65 01 12 65	1 DEWT IF ICATION 1 00001 1 22010 1 33100 1 33400 1 33400 1 32400 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1		PER WILE .01 .09 .01 .01 .01 .01 .01 .01 .01 .01 .02 .02 .04 .04 .05 .04 .04 .04 .05 .04 .01 .01 .02 .02 .01 .01 .01 .01 .02 .02 .01 .01 .02 .02 .03 .03 .04 .04 .05 .02 .01 .01 .02 .02 .03 .04 .04 .04 .05 .02 .01 .01 .02 .02 .03 .04 .04 .04 .05 .02 .04 .04 .05 .02 .04	INCIDENTS	1 1101 5359 1 1457 5405 1 1000 5400 1 2315 5352 1 2231 5087	11.3 11.3 11.1 10.8	117 122 118 128	12 12 12	• • •	•
	01 10 65 01 10 65 01 11 65 01 12 65 01 13 65	IDENTIFICATION 100000 12010 12010 12010 12010 12010 12010 12010 12010 12000 12100 12000 12000 12000 13110 133100 133206 133206 133206 133206 133206 133206 13400 1220000 1220000 120	1 1 1 1 1 1 1 1 1 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3		PER .01 .09 .09 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .02 .01 .04 .04 .05 .02 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .02 .02 .03 .03 .04 .04 .05 .01 .01 .01 .02 .02 .03 .03 .04 .04 .05 .02 .01 .01 .02 .02 .03 .03 .04 .04 .04 .04 .02 .02 .03 .03 .04	INCIDENTS 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1101 5350 1 1457 5405 1 1460 5400 1 2315 5392 1 2231 5887 1 1 2231 5887 1 1 1838 9109	11.3 11.3 11.1 10.8	117 122 118 128	12 12 12	• • •	•
	01 10 65 01 11 65 01 12 65	1 DENT IF ICATION 1 DENT IF ICATION 1 P2010 1 P2010 1 P2010 1 P2010 1 P2010 1 P2010 1 P2010 1 P2010 1 P3009 1 P3009 1 P2009 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1		PEA .01 .09 .09 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .02 .021 .04 .04 .05 .022 .01 .01 .02 .022 .01 .01 .02 .022 .01 .01 .01 .01 .02 .022 .03 .03 .04 .04 .05 .15 .01 .01 .02 .021 .03 .03 .04 .04 .04 .04 .04 .04 .03 .03 .04 .04 .05 .01 .01 .01 .02 .02 .03<	INCIDENTS 1 3 3 1 2 3 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1101 5350 1 1457 5405 1 1900 5400 1 2315 5392 1 2231 5087 1 1838 5109	11.3 11.3 11.1 10.8	117 122 118 128	12 12 12	• • •	•
	01 10 65 01 10 65 01 11 65 01 12 65 01 13 65	1 DEMT 1 F (C & T 104 1 80000 1 82010 1 82000 1 82000	1 1 1 1 1 1 1 1 1 1 1 1 1 1		PEA .01 .09 .01 .09 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .02 .01 .04 .04 .05 .02 .01 .01 .02 .02 .01 .01 .02 .02 .01 .01 .02 .02 .03 .03 .04 .04 .05 .15 .01 .01 .02 .22 .03 .03 .04 .04 .05 .02 .01 .03 .02 .04 .03 .03 .04 .04 .05 .02 .03 .03 .04 .04 .05	INCIDEN ^T S	1 1101 5350 1 1457 5405 1 1000 5400 1 2315 5392 1 2231 5087 1 2231 5087 1 1036 5105	11.3 11.3 11.1 10.8	117 122 118 128	12 12 12	• • •	•
	01 10 65 01 10 65 01 11 65 01 12 65 01 13 65	1 DENT IF ICATION 1 DENT IF ICATION 1 P2010 1 P2010 1 P2010 1 P2010 1 P2010 1 P2010 1 P2010 1 P2010 1 P3009 1 P3009 1 P2009 1	1 1 1 1 1 1 1 1 1 1 3 3 1 2 5 5 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3		PER 01 09 07 01 01 01 01 01 01 01 02 01 04 01 04 01 04 01 04 01 04 01 04 01 04 01 01 02	INCIDEN ^T S	1 1101 5359 1 1457 5405 1 1457 5405 1 1980 5400 1 2315 5352 1 2315 5352 1 2315 5887 1 1 2231 5887 1 1 1838 5105	11.3 11.3 11.1 10.8	117 122 118 128	12 12 12	• • •	•

DATE	IDENTIFICATION	DUANTITY	858 HUUR	958 MILE	INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	SHIP
14 65	122400	6 3	.5	, n 4	5	1 1838 5105 1 1516 5103	$11.1 \\ 11.3$	122	12	\$ \$
1 × V ×	123409	3	. 7	. 13 . 13 . 11	2	1 1310 3103	11.3	40	12	٥
	1 1112	1	- 1	- <u>1</u>	1					
	146867	1	.)	. n: . 14	1					
16 65	122501	4		. 11:	3	1 1130 5056	11.4	98	12	6
	192510	1	.1	.01	1					
	173409	1	. 1	.01	1					
	131104	1 3	.1	11	1 2					
	146000	181	15.8	1 84 .11	3					
	146867	480	42.1	4,39	3			-	_	
17 65	125000	1	.1	. n i "2	1 3	1 1055 4803	11.5	108	12	6
	172433	1	.1	.01 01	1 2					
	131104	1	. 1	. C .	1					
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 0.3 21 65 0.3 22 63 0.3 23 65 0.3 24 65 0.3 25 65 0.3 26 65 0.3 26 65 	122510 122600 133007 133227 133207 144301 144301 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 123100 135100 13510 12500 12510 125000 125000 125000 125000 1250000000000	05 11 2 2 2 1 6 1 5 8 8 3 1 7 3 1 5 6 1 1 2 9 1 3 3 2 1 2 5 1 8 1 3 3 3 1 2 7 2 1 1 5 1 7 6 4 7 4 7	PER HOUR 3.3 1.2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER HILE .533 .099 .011 .011 .011 .011 .011 .014 .014 .011 .014 .011 .014 .012 .018 .022 .010 .017 .010 .011 .014 .011 .012 .0100 .010 .0100 .010 .010 .010 .010 .010 .010 .010	INCIDENTS 55 51 2 2 2 1 4 1 4 6 7 3 1 1 3 1 4 5 1 1 1 5 2 1 4 5 1 1 2 3 3 1 2 3 5 1 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1316 4800 1 1714 4801 1 2112 4754 1 2503 4806 1 2510 5043 1 2456 5434	12.1 12.1 12.2 12.2 12.4 12.4	121 126 121 138 194	14 14 14 14	• • • •	
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	IDENTIFICATION	QUANTITY	PFR HOUR	PER MILE	INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	5 H [P	
84 11 65	100000	1	. 1	. 11	1	1 2125 5843	9.8	114	15	6	
	121110	3	. 6	. 12	5						
	122501	2	. ?	. 61	2 43						
	122510	95	9.4 8.1	A 3 7 n	49						
	172521	2 5	.?	5	2						
	172524	2	. ?	. 01	2						
	173409	5	.5	0.4	5						
	131112	3	. 3	. 12	3						
	153215	15	1.5	.13	11						
	144101	36	3.6	, 31	15						
	146400	1	.1	. 11 . 13	1						
	146101	219	22.3	1.92	28 2						
	146701	3	.3	01	1						
	146867	118	12.0	1.03	14	1 1833 5658	12.5	112	15	6	
04 12 65	121110	2	.1	.01	1	1 1035 2020			-		
	172510	21 178	1.6	.18 1.58	17						
	122600	1/0	.1	. 71	i						
	172624	1 7	.1	.01	1						
	172701		. 6	.07	7						
	13013	1 2	.1	.01	1 2						
	146171	2	.1	.01	ī						
	146301 146867	22	1.7	.05	14						
04 13 65	10000		. 4	.04	5	1 1438 5700	12.5	124	15	6	
	172000	11	:1	. n 8 . n 4	9 5						
	172514	1	.1	. 0 1	1						
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	173409	12	. 9	.09	10						
	131104	1 3	.1	.02	1 3				-		
04 14 65	122001	4	. 3	.04	4 28	1 1129 5654	12.4	87	15	6	
	172510	59 43	4.7	. 47	32						
	172701	24	1.0	.27	20 17						
	173409 131101	21 1	1.6	.01	1						
	151106	ĩ	.1	.01	1						
	144101 146#67	75	6.0	. 86	8						
04 15 65	087000	12	. • . 1	.09 .01	1	1 1102 5484	12.4	124	15	6	
	122000	15	1.2	. 12							
	172510	42 20	3.3	. 33	14						
	122521	1	. 1	.01	1						
	122524	6 1	.4	.04	3						
	173409	10		.06	•						
DATE	IDENTIFICATION	QUANTITY	PER HOUR	PER MILE	INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	5H1P	
DATE 04 15 65	131112	2	.1	.01	2	NOON LOCATION 1 1102 5404	HOURS 12.4	HILES 124	CRUISE 15	5H1P 6	
	131112			.01 .01	2 1 3						
	131112 133204 144107 144101	2 1 3 5	.1 .1 .2 .4	.01 .01 .02 .04	2 1 3 3						
04 15 65	131112 133204 144107 144103 146767 160700	2 1 3 184 4	.1 .7 .4 <u>1</u> 4.8 .3	.01 .02 .04 1.48 .03	2 1 3 14 4						
	131112 133704 144101 144101 146667 180701 172001	2 1 5 184 4 10	.1 .7 .4 14.8 .3	.01 .02 .04 1.48 .03 .98	2 1 3 14 4 7	1 1102 5404	12.4	124	15	6	
04 15 65	131112 133204 144101 146867 16000 122000 122510 122510	2 1 3 5 184 4 10 55 31	.1 .7 .4 14、8 .8 4.4 2.4	.01 .03 .04 1.48 .03 .08 .44 .74	2 1 3 14 4 7 20 21	1 1102 5404	12.4	124	15	6	
04 15 65	131112 133704 144101 146467 10000 122000 122510 122510 12251	2 1 3 184 4 10 55 31 1	.1 .7 .4 14,8 .3 .8 4.4 2.4	.01 .02 .04 1.48 .03 .98 .44 .24	2 1 3 14 4 7 20 21 1	1 1102 5404	12.4	124	15	6	
04 15 65	131112 133704 144101 144101 146467 10000 172000 172010 172511 172511 172521 172524 172624	2 1 3 5 184 4 10 55 31 31 1 1	.1 .7 .4 14 x A .3 .8 4.4 2.4 .1 .1	.01 .02 .04 1.48 .03 .08 .44 .24 .01 .01	2 1 3 14 4 7 20 21 1 1 1	1 1102 5404	12.4	124	15	6	
04 15 65	131112 133204 144101 14667 10000 122519 122519 122519 122521 122524 122624 122624	2 1 3 5 184 4 10 55 31 1 1 1	.1 .7 .4 14.8 .3 .8 4.4 2.4 .1 .1 .1 .7	.01 .02 .n4 1.48 .03 .04 .24 .01 .01 .01 .01	2 1 3 14 4 7 20 21 1 1 1 1	1 1102 5404	12.4	124	15	6	
04 15 65	131112 133204 144100 144101 14667 100000 122310 122310 122310 122310 122321 122224 122224 122201 123400 131100	2 1 3 5 184 6 10 55 31 1 1 1 1 1 9 9 22 2 2	.1 .7 .4 14.4 .3 .8 4.4 2.4 .1 .1 .1 .7 .7 .7	.01 .02 .04 1.48 .03 .04 .44 .01 .01 .01 .01 .01 .01 .01	2 1 3 14 4 7 20 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1102 5404	12.4	124	15	6	
04 15 65	131112 133704 144100 144101 140000 122500 122510 122510 122510 122510 122524 122624 122624 122624 123100	2 1 3 5 184 4 10 55 31 1 1 1 1 9 9 22 1 1	.1 .7 .8 14.8 .3 .6 2.4 .1 .1 .1 .1 .7 .1 .7 .1 .7 .1	.01 .02 .04 1.40 .03 .04 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	2 1 3 14 4 7 20 21 1 1 1 1 8 9	1 1102 5404	12.4	124	15	6	
04 15 65	131112 133704 144100 144101 148467 180000 192310 192310 192310 192424 192424 192424 192424 192400 131106 131106 134107 144101	2 1 3 5 184 4 10 55 31 1 1 1 2 22 1 1 2 2 2 1 1 2 2 10	.1 .9 .4 14,8 .4 .4 .4 .1 .1 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .2 .4 .4 .4 .4 .4 .4 .4 .4 .4 .4 .4 .4 .4	.01 .02 .04 1.40 .03 .94 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	2 1 3 3 14 4 7 20 21 1 1 1 1 2 1 1 2 1 1 2 1 2 1 2 1 2	1 1102 5404	12.4	124	15	6	
04 15 65	131112 133704 144100 144101 146467 100000 122000 122310 122310 122310 122310 122310 122321 122424 122201 123400 131100 131100 131107 134401	2 1 5 5 31 6 4 4 10 55 31 1 1 1 9 9 22 2 1 1 2	.1 .7 .4 .4 .3 .8 .4 .1 .1 .1 .1 .1 .1 .1 .1	.01 .93 .94 .94 .94 .94 .94 .91 .91 .91 .91 .91 .91 .91 .91 .91 .91	2 1 3 3 1 4 4 7 0 2 1 1 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 2 1 1 1 2 1 1 1 3 3 1 4 4 7 20 1 1 1 3 1 4 4 7 1 1 20 1 1 1 20 20 1 1 1 20 1 1 20 20 1 1 20 20 1 1 20 20 1 20 20 1 20 20 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20	1 1102 5404	12.4	124	15	6	
04 15 65	131112 133704 144101 144101 144101 172001 172010 172711 172721 17	2 1 3 5 184 4 0 5 5 3 1 1 1 1 1 1 2 2 2 10 1 2 2 10 2 2 2 10 2 2 2 10 2 2 2 10 2 2 2 2	.1 .7 .4 .4 .4 .4 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.01 .01 .02 .04 1.40 .03 .04 .04 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	2 1 3 3 4 4 4 7 20 21 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 3 3 4 1 4 4 7 20 20 21 1 1 3 4 20 20 20 20 20 20 20 20 20 20 20 20 20	1 1102 5404	12.4	124	15	6	
04 15 65 04 16 65	131112 133704 144107 144101 14867 100000 192310 192310 192310 192310 192310 19340 19340 131106 131106 131106 134101 146001 14657	2 1 3 5 184 4 10 55 31 1 1 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2	.1 .7 .4 4.4 2.4 2.4 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.01 .93 .04 1.43 .94 .94 .94 .94 .91 .91 .91 .91 .91 .91 .91 .91 .91 .91	2 1 3 3 1 4 4 7 0 2 1 1 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 2 1 1 1 2 1 1 1 3 3 1 4 4 7 20 1 1 1 3 1 4 4 7 1 1 20 1 1 1 20 20 1 1 1 20 1 1 20 20 1 1 20 20 1 1 20 20 1 20 20 1 20 20 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20	1 1102 5404	12.4	124	15	6	
04 15 65	131112 133704 144107 144101 148407 192310 192310 192310 192310 192324 192324 192324 192324 193400 131106 131106 134107 144001 144001 144607 122317	2 1 3 5 184 10 555 31 1 1 1 1 2 2 10 1 1 2 2 40 84 84 845	.1 .7 .4 4.4 2.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.01 .01 .03 .04 .03 .04 .04 .04 .04 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	2 1 3 3 4 4 7 20 1 1 1 1 1 1 1 20 19 11 1 2 6 11 1 2 6 11 11 2 6 11 11 11 2 6 11 11 12 11 13 14 14 14 14 14 14 14 14 14 14 14 14 14	1 1107 5404	12.4	124	15	6	
04 15 65 04 16 65	131112 133704 144101 146407 100000 172310 172310 172310 172321 172324 172424 172424 172424 172424 173400 131106 134107 144101 1460111 1460111 146011110000000000	2 1 3 5 184 4 0 5 5 3 1 1 1 1 1 1 1 2 2 10 0 1 5 2 40 0 2 40 0 84	.1 .7 .4 .4 .5 .7 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.01 .02 .04 .04 .04 .04 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	2 1 3 3 4 4 7 20 1 1 1 1 1 1 2 6 1 9 1 9 1 1 1 1 2 2 11 1 1 2 11 1 2 11 1 2 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1107 5404	12.4	124	15	6	
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• ^{04 24 65}	192524 192608 192608 133409 131106 146967 122000 122501 122510 122510 122510 133409 133100	1 10 1 42 2 1 1 1 1 2 1	PER MOUR .1 .1 .1 .7 .1 .3 .3 .1 .1	PER MILE .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	INCIDENTS 1 2 1 9 1 5 2 1 1	1 1436 4758	12.6	139	15	6	•
• ^{04 24 65}	192524 192608 192631 193409 193409 186867 192501 192501 192519 193409 133409 131104	1 2 10 42 2 1 1 12 1 1	PER MOUR .1 .1 .1 .1 .1 .3 .3 .1 .1 .1 .1 .1 .1	PER MILE .01 .01 .07 .07 .01 .01 .01 .01 .01 .01 .01	INCIDENTS 1 2 1 9 1 5 2 1 1 1 10	1 1436 4758	12.6	139	15	6	•
• ^{04 24 65}	122524 122631 122631 13105 131105 122000 122501 122510 122510 132100 131100 13110 131112	1 2 10 12 2 2 1 1 12 1 1 1 1	PER MOUR .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER MILE .01 .01 .07 .07 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	INCIDENTS 1 2 1 5 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1436 4758	12.6	139	15	6	•
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 04 24 65 04 25 65 04 26 65 	122524 122631 127631 123400 134106 124106 122001 122510 122510 122510 131100 131100 131100 131100 131100 133100 144100 122001 122001 123000 133400 133400 133400 133400 133400 133400 133400 131106 144100 133400 131106 144100 134400 131106 144100 13400 131106 144100 12201 12201 12200	1 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PER MOUR 1 1 1 1 1 1 1 1 1 1 1 1 1	PER MILE .01 .01 .01 .01 .01 .01 .01 .01	INCIDENTS	1 1436 4758 1 1852 4759 1 2302 4759	12.0 12.0	135 141 135	15 15 15	6	• • • • • • • • • • • • • • • • • • • •
 04 24 65 04 25 65 04 26 65 	122524 122631 127631 123400 134108 122001 122001 122510 122510 132100 131100 131100 131100 131100 133100 134100 122001 122001 122001 122001 122001 122001 123400 131100 1244100 121101 122101 122510 125110 1	1 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PER MOUR .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER MILE .01 .01 .01 .01 .01 .01 .01 .01	INCIDENTS	1 1436 4758 1 1852 4759 1 2302 4759	12.0 12.0	135 141 135	15 15 15	6	• • • • • • • • • • • • • • • • • • • •
 04 24 65 04 25 65 04 26 65 04 27 65 04 27 65 	122524 122631 127631 123400 123105 122001 122001 122510 122510 133100 133100 133100 133100 133100 133100 133213 143000 144000 122501 122701 123400 133106 144100 124100 124100 123106 134106 132110 122500 122510 122500 123106 123400 123106 123400 123106 123400 123106 123400 123106 123400 123106 123400 123106 123400 123400 123400 123500 123400 123500 123400 123500 123400 123500 1255000 1255000 1255000 12550000000000	1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 3 1 1 1 2 1 0 2 2 28 3 2 0 4 4 7 1 7	PER MOUR .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER MILE .01 .01 .01 .01 .01 .01 .01 .01	INCIDENTS 1 2 1 7 7 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1436 4758 1 1852 4759 1 2302 4759 1 2609 4844	12.0 12.0 12.0	135 141 135 153	15 15 15	6 6 6	• • • • • • • • • • • • • • • • • • • •
 04 24 65 04 25 65 04 26 65 	122524 122631 127631 127601 127601 128001 128001 128001 128001 128001 128001 137104 131104 131104 131104 131104 131104 131104 132001 128001 128001 128001 128001 12800 13106 13106 13106 13106 13106 131106 132010 128000 128010 128010 128000 128010 1280000 1280000 1280000000000	1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 3 1 1 1 2 1 8 22 28 3 2 8 8 57 1	PER KOUR .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER MILE .01 .01 .01 .017 .017 .017 .011 .012 .020	INCIDENTS 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1436 4758 1 1852 4759 1 2302 4759	12.0 12.0	135 141 135	15 15 15	6	• • • • • • • • • • • • • • •
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 04 24 65 04 25 65 04 26 65 04 27 65 04 27 65 	122524 122663 137663 137663 148657 128667 122501 122501 122510 122510 137105 131106 131107 13107 13107 13107 13107 13107 13107 13107 13107 132703 144100 122510 122500 125000 125000 125000 1250000000000	1 7 1 1 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	PER KOUR 1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	PER MILE .011 .021 .021 .031 .011 .021 .021 .031 .011 .011 .011 .021 .032 .044 .011 .011 .011 .032 .044 .011 .011 .011 .032 .044 .011 .011 .011 .011 .032 .044 .011 .011 .011 .011 .032 .044 .011 .0	INCIDENTS	1 1436 4758 1 1852 4759 1 2302 4759 1 2609 4844	12.0 12.0 12.0	135 141 135 153	15 15 15	6 6 6	• • • • • • • • • • • • • • • • • • • •
 04 24 65 04 25 65 04 26 65 04 27 65 04 27 65 	122524 122630 137631 137631 134687 142687 122601 122510 122510 132510 131100 131100 131100 131100 1446000 1446000 1446000 122510 122000 122510 122000 122510 122510 123600 131100 122510 123600 131100 122510 123600 131100 122510 123600 131100 122510 123600 131100 122510 123600 131100 123100 133110 123400 133110 12310000000000	1 2 1 1 1 2 2 1 1 1 1 2 1 1 1 1 1 2 1 1 2 1 2 2 2 2 3 2 8 4 4 7 1 7 1 8 2 1 8 1 5 1	PER MOUR 1 1 1 1 1 1 1 1 1 1 1 1 1	PER MILE .011 .011 .017 .011 .017 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .012 .022 .299 .04 .014 .014 .012 .012 .012 .012 .012 .012 .012 .011 .022 .024 .044 .014 .014 .012 .014 .011 .01	INCIDENTS	1 1436 4758 1 1852 4759 1 2302 4759 1 2609 4844	12.0 12.0 12.0	135 141 135 153	15 15 15	6 6 6	• • • • • • • • • • • • • • • • • • •
 04 24 65 04 25 65 04 26 65 04 27 65 04 28 65 	122524 122631 127631 123400 1231106 122501 122510 122510 122510 133100 133110 133110 133110 133110 133110 133110 133100 133213 144100 122510 122500 133100 133400 133106 144100 122510 123400 133106 134400 122510 122510 123400 133106 144605 122510 123400 133106 144605 122510 123400 133106 134000 144605 122110 122500	1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 3 1 1 1 2 1 8 2 2 8 3 2 8 4 87 1 7 1 8 2 1 1 1 1 1 1 1 2 3 1 1 1 2 1 8 2 2 8 3 2 8 4 87 1 7 1 8 2 1 1 1 1 5 1 8	PER NOUR .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER MILE .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .012 .029 .030 .030 .030 .030 .030 .030 .030 .030 .040 .0	INCIDENTS 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1436 4758 1 1852 4759 1 2302 4759 1 2609 4844 1 2500 5253	12.0 12.9 13.1	135 141 135 153 143	15 15 15 15	6 6 6 6	• • • • • • • • • • • • • • • • • • •
 04 24 65 04 25 65 04 26 65 04 27 65 04 28 65 04 28 65 	122524 122630 131630 131630 131630 122000 122501 122501 122510 132100 131100 131100 131100 131100 131100 131100 144100 144100 144000 144000 144000 144000 13110 122000 133400 13400 122110 12210 123400 122110 122510	1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 3 1 11 2 1 0 22 28 3 2 0 4 47 1 7 16 2 10 15 1 0 3 3	PER KOUR .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER MILE .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .012 .022 .031 .011 .011 .012 .021 .011 .012 .021 .011 .011 .012 .012 .011 .011 .011 .012 .011 .0	INCIDENTS 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1436 4758 1 1852 4759 1 2302 4759 1 2609 4844 1 2500 5253	12.0 12.9 13.1	135 141 135 153 143	15 15 15 15	6 6 6 6	• • • • • • • • • • • • • • • • • • •
 04 24 65 04 25 65 04 26 65 04 27 65 04 28 65 04 28 65 	122524 122668 137683 13408 14408 12468 122000 122501 122510 122510 132100 131100 131100 131100 144100 144100 144100 144100 144100 144100 144100 144100 144100 144100 144100 144100 144100 144100 122510 123100 131106 144100 122510 123100 12110 122510 123400 12110 122510 123400 131106 122510 123400 131106 122510 123400 131106 122510 123400 131106 122510 123400 123500 1255000	1 7 1 1 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1	PER KOUR 1 1 1 3 3 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	PEP #ILE .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .020 .031 .011 .011 .011 .021 .031 .011 .022 .029 .041 .011 .011 .011 .022 .011 .011 .011 .011 .022 .011 .011 .011 .011 .011 .022 .011 .011 .011 .011 .011 .022 .011 .0	INCIDENTS 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1436 4758 1 1852 4759 1 2302 4759 1 2609 4844 1 2500 5253	12.0 12.9 13.1	135 141 135 153 143	15 15 15 15	6 6 6 6	• • • • • • • • • • • • • • • • • • •
 04 24 65 04 25 65 04 26 65 04 27 65 04 28 65 04 28 65 	122524 122668 137683 134687 144687 122600 122501 122510 122510 132510 133106 131107 131107 131107 144100 144100 144100 144100 144100 122510 122701 122701 122701 122701 122701 123700 131106 144108 144108 144108 144108 144108 144108 144108 144108 144108 144108 144108 144108 122701 122701 123709 121110 122701 123709 131106 144087 144087 144087 144087 144087 144087 144087 144087 144087 144087 144087 144087 144087 144087 123709 123100 123100 12310 123408 12408 12408 12408 12408	1 2 1 1 1 2 2 1 1 1 2 1 1 1 1 1 1 1 2 3 1 1 2 1 8 2 2 8 3 2 8 4 4 7 1 7 1 8 2 1 8 1 5 1 8 3 1 8	PER MOUR .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER MILE .01 .01 .01 .01 .01 .01 .01 .01	INCIDENTS 1 2 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1436 4758 1 1852 4759 1 2302 4759 1 2609 4844 1 2500 5253	12.0 12.9 13.1	135 141 135 153 143	15 15 15 15	6 6 6 6	
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 04 24 65 04 25 65 04 26 65 04 27 65 04 28 65 04 28 65 	122524 122603 123400 133106 142607 12257 12257 12257 12257 12257 133100 133100 133100 133110 133100 133100 133110 144100 144007 122000 122000 122000 122000 122000 122000 122000 122000 122000 122000 122110 122000 12210 122000 12210 122000 12210 12200 12000 12200 12000 12000 120000 120000 120000 120000 120000 120000 120000 120000 1200000000	1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 2 2 2 3 2 8 4 5 7 1 7 6 2 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	PER MOUR .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	PER #ILE .01 .01 .01 .017 .017 .017 .010 .011 .012 .020 .04 .011	INCIDENTS 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1436 4758 1 1852 4759 1 2302 4759 1 2609 4844 1 2500 5253	12.0 12.9 13.1	135 141 135 153 143	15 15 15 15	6 6 6 6	
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 04 24 65 04 25 65 04 26 65 04 27 65 04 28 65 04 28 65 	122524 122663 137663 137663 143667 12260 12250 12250 12250 12250 137667 13750 137106 137107 144107 144107 144107 144107 144107 144107 12250 122701 122701 122701 122701 122701 122701 123700 137106 144107 122510 122701 123700 12111 122701 123700 12111 122701 123700 12111 122701 123700 12111 122701 123700 12111 122701 123700 12111 122701 123700 131106 131107 122701 123700 131107 123700 131107 12700 127000 1270000 1270000 127000 1270000 1270000 1270000 1270000 1270000 1270000 1270000 12700000 12700000 12700000 1270000000000	1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 3 1 1 2 1 8 2 2 8 3 2 8 4 5 7 1 7 8 2 1 8 1 5 1 8 3 1 8 13 1 2 1 1 6 1 5 5	PER MOUR	PER MILE .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .011 .022 .021 .011 .012 .022 .014 .011 .011 .012 .022 .014 .011 .0	INCIDENTS 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1436 4758 1 1852 4759 1 2302 4759 1 2609 4844 1 2500 5253	12.0 12.9 13.1	135 141 135 153 143	15 15 15 15	6 6 6 6	• • • • • • • • • • • • • • • • • • •
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DATE	THENTTETEATION	QUANTITY	PEN HOUR	PER MILE	INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	SHTP	
04 30 65	122701	3	. •	. ^ 4	3	1 2131 5723	6.4	67	15	6	
	123404	1	- 1 - 1	.31 .31	1						
	133213 133217	30	4 . 6	. 4 4	22						
	136107	9	1.4	. 13	8						
	14699n 146191	175	27.3	2.01	44						
05 12 45	146867	96 1	15.0	1.43	47	1 2104 5743	6.0	r0	16	6	
	121111	2 3	. 3	. 11 . 13 . 13	5				-	-	
	172510	101	16.0	1.48	2 35						
	172701	6 20	1.3	. 33	6 17						
	13213	6 N 1	10.0	1.11	22						
	136197	1 318	.1		1						
	146101	233	53.0 38.8	4.43 1.46	5 17						
	146835 146867	:11	19.3	.03	1 19						
05 13 65	10000	3	. ,	. 02	1	1 1744 5659	13.0	115	16	6	
	122511	19	.6 1.4	.10	15						
	172510	81 8	A.2 .6	. 70	44 8						
	1 2263 1	1	.1 1.0	. 16 . 11 . 12	1 14						
	123409	10	. 7	. 38	9						
	131112	1	.1	.11 ,18	1 6						
	144101	1	• 1 • 1	.01	1						
05 14 65	146867	230	17.6	2.70	18						
	100000	15 1	1.1	.11	1	1 1414 5702	12.0	130	16	6	
	172101	8 1	. 4	- ^ î - ? î - ? î	8 1						
	172519	18	1.4		7						
	122631	1	. 1 1 . 1		1						
	122731	2	.1 .1	. 11	2						
	131104	22	.1	- 11 - J1 - C1	2						
	136107	1	.1	. * 1	2 1						
	144100 146867	14	.1 1.0	.01	1 7						
05 15 65	172000 172510	10	. '	. 1J . 77 . 31	8	1 1103 5556	12.7	131	16	6	
	172519	A	.1	. ^ 6	8						
	17260A 172631	42	.1 3.3	. 01 . 12	2 33						
	17270+ 173409	6 3	.2	. 24	5 3						
	131100	1	. 1	. 01	1						
	144191	1	.1 .1	.01 .01	1						
05 16 45	100000	110	.1	. 11	1	1 1135 5359	12.7	130	1^	6	
DATE	IDENTIFICATION	QUANT[TY	PER HOUP	DEB WITE	INCIDENTS	NOON LOCATION	HOURS	MILFS	CRUISE	5+ 1 P	
DATE 05 16 65	172510 172519	1 10	. 1	. n1 , n7	1	NOON LOCATION 1 1135 5359	HOURS 12,7	MILFS 130	CRUISE 14	5H1P 6	
	172510 172519 172608	1 10 1	. 1	.01	1 8 1						
	122510 122519 122608 122624 122631	1 10 1 1 37	.1 .7 .1 .1 2.9	.01 .07 .01 .28	1 8 1 28						
	122510 122519 122608 122624 122631 122701 131100	1 10 1 37 4 1	. 1 . 7 . 1 . 1 . 3 . 1	.01 .07 .01 .28 .03	1 8 1 28 4 1						
	122510 122610 122624 122624 122631 122731 131100 133206 146835	1 10 1 1 37	.1 .7 .1 .1 2.9 .3	. 61 . 07 . 01 . 28 . 03 . 01 . 01	1 8 1 28 4						
05 16 65	192510 192510 192604 192634 192431 131100 133206 166835 166857	1 10 1 37 4 1	.1 .7 .1 2.9 .3 .1 .1 .1 .3	.01 .07 .01 .01 .01 .01 .01 .01 .01 .03	1 8 1 28 4 1 1 1 2	1 1135 5 39 9	12,7	130	14	8	
05 16 65	172510 172600 172600 122624 172624 172701 171700 133706 166837 166857 172000 172000	1 10 1 37 4 1 5 5 28	. 1 . 7 . 1 2. 9 . 3 . 1 . 1 . 1 . 3 . 3 . 2. 1	.01 .07 .01 .01 .03 .03 .01 .01 .03 .03 .03 .03	1 8 1 28 4 1 1 1 2 4 4 14						
05 16 65	12241n 122410 12260A 122624 122731 131701 133706 146835 144835 122007 12251n 122510 122519	1 10 1 37 4 1 1 5 28 28 28 2	.1 .7 .1 .1 .3 .1 .1 .1 .3 .3 .1 .1 .3 .3 .1 .1	.01 .07 .01 .20 .03 .01 .01 .03 .03 .03 .03 .03 .03 .03	1 8 1 28 4 1 1 1 2 4 1 4 2 1	1 1135 5 39 9	12,7	130	14	8	
05 16 65	12251n 122630 122624 122624 122623 122731 131100 133206 146835 146835 12251n 12251n 122519 122530	1 10 1 37 4 1 2 5 5 8 28 2	.1 .7 .1 .1 2.9 .3 .1 .1 .1 .3 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.01 .07 .01 .20 .03 .01 .01 .03 .03 .03 .03 .03 .03 .03 .03 .03 .03	1 8 1 28 4 1 1 1 2 4 1 4 2 1	1 1135 5 39 9	12,7	130	14	8	
05 16 65	122510 122630 122624 122624 122633 122731 131100 138206 148835 122510 122510 122510 122530 122631 122631 122701 13112	1 10 1 1 37 4 1 1 5 5 28 6 2 1 3 3 3 2	.) .7 .1 .1 .9 .9 .9 .3 .1 .1 .1 .3 .3 .1 .1 .1 .1 .2 .2 .2 .2 .1	.01 .07 .01 .01 .01 .01 .01 .01 .03 .03 .01 .03 .03 .01 .02 .02 .03	1 8 1 28 4 1 1 1 2 4 4 2 1 2 3 2	1 1135 5 39 9	12,7	130	14	6	
05 16 65	122410 122400 122600 122624 122624 122624 122621 122600 133100 122500 122500 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 122510 12500 127000 1270000000000	1 10 1 1 37 4 1 1 5 5 28 2 2 1 3 3 2 1 1	.) .7 .1 .1 .9 .9 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .2 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.01 .07 .01 .01 .01 .01 .01 .01 .03 .03 .01 .02 .02 .02 .01 .02 .01 .01 .01 .01 .01 .01 .01 .02 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	1 8 1 28 4 1 1 1 1 2 3 2 1 2 3 2 1 1	1 1135 5 39 9	12,7	130	14	6	
05 16 65	12241n 122430 122624 122624 122624 123110 131100 131206 146835 146835 146835 146835 146835 146835 146857 12200 122510 122510 122635 127701 122635 127701 127607 137007 127000	1 10 1 3 7 4 1 1 5 5 28 2 1 3 3 2 1 3 5 5 28 2 1 3 5 5 5 28 2 1 3 5 5 5 28 2 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5))))))))))))))	51 .77 .71 .71 .73 .73 .73 .73 .73 .73 .73 .73	1 8 1 2 8 4 1 1 1 2 4 1 4 2 1 2 3 2 1 1 1 1 8	1 1135 5350 1 1537 5400	12.7 12.9	130	16	6	
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05 16 65	12241n 122430 122624 122624 122731 131100 138206 146835 146845 12291n 122510 122510 122510 122510 131112 13112 131117 131117 13117 13117 13220 132210	1 10 1 1 7 4 1 2 5 5 5 2 8 2 8 2 1 3 3 0 28 1 3 0 28 1	, , , , , , , , , , , , , , , , , , ,	61 .77 .01 .03 .03 .04 .03 .01 .03 .03 .03 .03 .03 .03 .03 .03 .03 .03	1 8 1 2 8 4 1 1 2 4 2 1 2 3 2 1 1 8 9 21	1 1135 5350 1 1537 5400	12.7 12.9	130	16	6	
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05 16 65	12241n 122430 122624 122624 122624 122731 122731 122731 148833 148833 148833 148833 148833 148833 12200 12200 12200 122310 122310 122310 122310 122310 122310 122310 122310 122530 122530 122530	1 10 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .7 .1 .1 .3 .3 .3 .1 .1 .1 .1 .2 .7 .1 .1 .1 .1 .1 .2 .2 .1 .1 .1 .1 .2 .2 .1 .1 .1 .3 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	61 .01 .01 .01 .01 .01 .01 .01 .0	1 8 1 28 4 1 1 1 2 3 2 1 1 1 8 9 2 1 3 0 2 1 3 0 2	1 1135 5350 1 1537 5400	12.7 12.9	130	16	6	
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05 16 65 05 17 65 05 18 65 05 19 65	122411 122630 122624 122624 122731 122731 122731 122731 122731 122731 1228311 122831 122831 1228311 1228311 1228311 1228311 1228311 122	1 10 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 5 7 8 2 1 5 7 8 2 2 1 5 7 2 1 5 7 8 2 1 5 7 7 1 5 7 7 1 5 7 7 7 7 7 7 7 7 7 7	.1 .7 .7 .9 .9 .1 .7 .1 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	617 101 101 101 101 101 101 101 1	18111841712244721237211189213171338726884742131281217121	1 1135 5399 1 1537 5400 1 1938 5403 1 2328 5341	12.7 12.9 13.1	130 134 132	16	6 6	
05 16 65 05 17 65 05 18 65 05 19 65	192410 192610 192609 192624 199635 195764 195764 195764 146835 146835 146835 146835 192510 192510 192510 192510 192510 192524 192555555	1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 2 2 1 1 2 2 1 1 1 2 2 2 1 4 5 7 4 2 1 5 1 2 2 1 3 7 2 1 1 3 7 2 1 1 3 7 2 1 1 3 7 4 1 2 1 5 7 8 2 1 5 7 8 2 1 5 7 2 1 3 7 2 1 5 7 8 2 1 5 7 8 7 1 7 7 1 7 7 1 7 7 1 8 7 7 7 1 8 7 7 7 7	.1 .7 .1 .2 .0 .1 .1 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .1 .2 .2 .1 .1 .1 .1 .2 .2 .1 .1 .1 .1 .2 .2 .1 .1 .1 .1 .2 .2 .1 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .1 .2 .2 .1 .1 .1 .1 .2 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	617 101 101 101 101 101 101 101 1	181118411112442123211189213102121338268817421312#1212131	1 1135 5399 1 1537 5400 1 1938 5403 1 2328 5341	12.7 12.9 13.1	130 134 132	16	6 6	
05 16 65 05 17 65 05 18 65 05 19 65	122410 122630 122624 129635 137100 133100 133100 133100 122510	1 10 11 11 12 13 4 4 1 15 5 5 7 8 8 7 1 3 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	.1 .7 .1 .1 .2 .2 .1 .1 .1 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .1 .2 .2 .1 .1 .2 .2 .1 .1 .2 .2 .2 .1 .1 .2 .2 .2 .1 .1 .2 .2 .2 .2 .1 .1 .2 .2 .2 .2 .1 .1 .2 .2 .2 .1 .1 .2 .2 .2 .2 .2 .1 .1 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	61711.00 01710.00 01710.00 01710.00 01710.00 01710.00 01710.00 01710.00 01710.00 01710.00 01710.00 01710.00 01710.00 01700.00 01700.00 01700.00 01700.00 01700.00 01700.00 01700.00 01700.00 01700.00 00.00	181118411112447212321118921310217133826847421312R122121213159	1 1135 5359 1 1537 5400 1 1938 5403 1 2328 5341 1 2701 5100	12.7 12.9 13.1 13.2	130 134 132 136	16 16 16	6 6 8	
05 16 45 05 17 65 05 18 45 05 19 45	122410 122630 122624 129635 137506 137506 137506 137506 146835 146835 146847 122500 122510	1 10 11 11 13 4 4 1 1 5 5 7 8 7 8 7 1 1 1 2 7 2 1 3 5 7 4 7 1 5 5 7 4 7 1 2 7 4 7 1 2 7 4 7 1 2 7 4 7 1 2 7 4 7 1 2 7 7 4 7 1 2 7 7 4 7 1 2 7 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	.1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .7 .1 .1 .7 .7 .7 .7 .1 .1 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	61711.000 0010000000000000000000000000000	1811184111124442123211118921302121338288474213128121212121315911	1 1135 5359 1 1537 5400 1 1938 5403 1 2328 5341 1 2701 5100	12.7 12.9 13.1 13.2	130 134 132 136	16 16 16	6 6 8	
05 16 45 05 17 65 05 18 45 05 19 45	12241n 122630 122624 122624 122731 127705 1446357 1446357 12203n 122510 122510 1225310 1225310 1225310 1225310 122530 122530 122530 122530 122530 122530 122530 122530 122530 1225310	1 10 11 11 12 15 5 5 7 2 1 3 3 3 2 1 3 3 2 1 3 3 2 1 3 3 2 1 3 3 2 1 3 3 2 1 3 3 2 1 3 3 2 1 3 3 2 1 3 3 2 1 3 3 3 2 1 3 3 3 2 1 3 3 3 3	.1 .7 .1 .9 .3 .1 .1 .7 .3 .1 .1 .7 .3 .1 .1 .7 .3 .1 .1 .7 .3 .1 .1 .7 .3 .1 .1 .7 .3 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .7 .7 .1 .1 .1 .7 .7 .1 .1 .1 .7 .7 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	61711.000.000.000.000.000.000.000.000.000	181118411112442123211118921302121338226847421312R12212131591	1 1135 5359 1 1537 5400 1 1938 5403 1 2328 5341 1 2701 5100	12.7 12.9 13.1 13.2	130 134 132 136	16 16 16	6 6 8	

DATE 1	IDENTIFICATION	QUANTITY	PER HOUR	PER MILF	INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	SHIP	
	144101	2	.1	.01	2	1 1803 5056	13.0	113	16	6	
	007037	21	1.6	. 16	2	1 1422 5059	12.9	131	16	6	
	125000	5	•1 •4	.01	1 6						
	172510	3 4	. ?	. 02	3						
	172519 172604	14	.3 1.0	.03	3 13						
	122609	1 2	.1	. 11	1						
	122701	3	.1	.01	3						
	173409 131100	3	.2	.02	3						
	131106	1	- 1	.01	1						
	131112	1	.1	.01	1						
	146867	4	.3	.13	2						
05 23 65	140000	1	.1 1.4	.01	17	1 1117 5034	12.0	95	16	6	
	172510	16	1.2	.16							
	172524 17260A	8 31	2.4	.08	23						
	172609	3	. 2	. 03	3						
	122631 122701	12	.9	.12	12 2						
	173409	3	. 2	.03	3						
	131106 133206	1	.1	.01	1						
	144103	1	.1	. 01	1						
	146301 146867	1	.1	.01	1						
05 24 65	172000	17	1.3	.14	16	1 1105 4758	12.7	118	16	6	
	12251n 122524	34	2.6	.28	27						
	172601	1	. 1	.01	1						
	122606	85	.1 6.6	.01	1 60						
	122609	2	• 1	.01	2						
	12263+ 122701	31 2	2.4	.26	28 2						
	123409	4	. 3	. 03	3						
	131106 133206	53	.3	.04	5 2						
05 25 65	122000	5	. 3	.03	5	1 1446 4759	12.9	128	16	6	
	172510 17260A	5 25	.3	.03	21						
	122609	2	.1	. 0 1	2						
	122631	1 2	.1	.01	1 2						
05 20 65	122000	38	2.9	. 36	14	1 1803 4759	13.1	99	16	6	
	122519	6 5	.4	.06	5						
	122606	2 103	.1	.02	2						
	1 22609	3	. 2	.03	3						
	122631 122701	2	.1 .1	.02	2						
1	131112	2	• 1	.02	2						
05 27 65	146867 007007	5	.3	.05	1	1 2204 4801	13.3	144	16		
	122519	3	.2	.02	3 1					-	
05 27 65	123409 131106	1	.1	, 11 . 01	1	1 2204 4801	13.3	HILES 144	16	6	
05 28 65	12111+ 122000	5 1	.3	.03	4	1 2018 4800	13.7	131	16	•	
	122519	2	.1	.01	2 5						
05 29 65	057607	1	. 1	.01	1	1 2457 5118	13.7	117	16	6	
	100000	1	.1	.01	1						
	122519	3	. ?	.02	1 3						
	122606	2	.1	.01	2						
	172701	1	. 1	. 01	1						
	123409 131117	1 2	.1	.01	1 2						
	136107	2	.1	.01	2						
	142201	1	.1	.01	1						
05 30 65	10000	2	.1	.01	2	1 2459 5613	13.9	154	16		
	122000 122510	49 119	3.6	. 31	18 17						
	172510 172524	37	.2	.01	3						
	122606	8	.5	. 05	5 7						
	122630	i 1	.1	.01	1						
	1 2701	4	. 2	. 02	1						
	131106 136107	1	.1	.01	13						
	144103	1	. 1	.01	1						
	146101 146835	2	.1	.01	1						
	146867	785	58.1	5.09	23						
·		22	2.2	.01 .21	1	1 2155 5704	9.8	104	16	6	
15 31 65	100000		46.7	4,40	36						
15 J <u>1</u> 65	122000	458			1						
15 J1 65	122000 122510 122519 122524	1	·1 ·1	.01	1						
15 31 65	122000 12251n 122519 122524 122524 122701	1 1 12	.1 .1 1.2	.01	1						
35 31 65	122000 122510 122524 122524 122724 12701 123409 131112	1 12 1 1	.1 .1 1.2 .1 .1	.01 .11 .01 .01	1 8 1 1						
95 J1 65	122000 122510 122519 122524 122701 123400 131112 133213	1 12 1 1 35	.1 .1 1.2 .1 .1 3.5	.01 .11 .01 .01 .33	1 8 1 1 16						
95 31 65	122000 122510 122519 122524 122721 123409 131112 133213 133213 133217 136107	1 12 1 35 2 10	.1 .1 .1 3.5 .2 1.0	.01 .11 .01 .33 .01 .17	1 8 1 16 2 14						
05 J1 65	122000 122510 122510 122524 122701 123400 131112 133213 133217 136107 146000	1 12 1 35 2 10	.1 .1 1.2 .1 3.5 .2 1.0	.01 .11 .01 .33 .01 .17 .01	1 1 16 2 14						
05 J1 65	122000 122510 122524 122724 122724 1227201 123201 133217 133217 133207 134000 146000 146501	1 12 1 35 2 18 1150 1	.1 .1 .2 .1 .1 .2 .2 1.0 .1 117.3	.01 .11 .01 .33 .01 .17 .01 11.05 .01	1 8 1 16 2 14 46 1						
	122000 12251n 122524 122724 122701 123201 13112 133217 133217 133217 136107 146000 146101 146304	1 12 13 13 35 2 10 10 1150 1 2779	.1 .1 1.2 .1 .1 .2 1.0 .1 117.3 .1 203.5	.01 .11 .01 .01 .33 .01 .17 .01 11.05 .01 26.72	1 1 16 2 14 14 1 73	1 2057 577/				·	
	122000 122510 122524 122524 122701 131112 133217 133217 133217 144000 146101 146301 146367 122510	1 12 13 35 2 10 1150 1 2779 141 6	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.01 .11 .01 .01 .33 .01 .17 .01 11.05 .01 26.72 2.38 .10	1 8 1 1 8 2 14 46 1 73 26 6	1 2057 5736	4.5	59	17	•	
	122000 122510 122510 122524 12324 12324 133217 133217 133217 133217 1335107 1446000 146101 146301 146301 146301 122510 122701 122701	1 12 13 35 2 18 1 1150 1 2779 141	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.01 .11 .01 .01 .33 .01 .17 .01 11.05 .01 26.72 2.38 .10 .03 .01	1 8 1 16 2 14 1 46 1 73 26	1 2057 5736	4.5	59	17	•	
	1 22000 1 22510 1 22510 1 22524 1 22524 1 232524 1 33310 1 33517 1 336100 1 33517 1 346100 1 446101 1 44601 1 44601 1 22701 1 22701 1 23104 1 33203	1 12 12 1 35 2 18 1150 1150 1150 141 6 2 1 1 2779 141 6 2 1 1 221	.1 .1 1.2 .1 3.5 3.2 1.6 .1 117.3 .1 203.5 31.3 1.3 .2 .2 .4 .2 .2 .4 .1	.01 .11 .01 .33 .01 .17 .01 11.05 .01 28.72 2.38 .01 .03 .01 3.74	1 8 10 2 14 46 1 73 26 2 1 10	1 2057 5736	4.5	59	17	•	
	122000 122510 122524 122524 123224 133217 133217 133107 13400 144000 144000 144001 144301 142260 122201 122201 133201 133201 133201 133201 133213 133213	1 1 1 3 3 2 18 1 1500 1 1500 1 1 1 2779 1 41 6 2 1 1 221 221 227 7	.1 .1 1.2 .1 3.5 .2 1.6 .1 117.3 .1 283.5 33.3 1.3 .4 .2 .4 9.1 .4 .5	.01 .11 .01 .01 .33 .01 .17 .01 11.05 .01 26.72 2.38 .10 .03 .01 3.74 .03 .11	1 8 1 16 2 14 14 1 7 3 2 6 2 1	1 2057 5736	4.5	59	17		
	122000 122510 122524 123524 123524 133517 133517 133507 144000 144101 144504 124510 122501 122501 1332200 1332200 1332217 133217 134107	1 1 12 1 35 2 10 1 150 1 2779 141 2779 141 2719 21 221 22 7 7 20	.1 .1 1.2 .1 3.5 2 1.8 .1 117.3 2.0 31.3 1.3 .4 .2 49.1 .5 .4 1.5 .4	.01 .11 .01 .33 .01 .01 .01 .01 .01 .01 .03 .01 .03 .01 .03 .03 .11 .33	1 1 1 2 14 15 2 4 1 1 2 6 2 6 2 1 10 2 7 7 7 1	1 2057 5736	4.5	59	17	•	
05 J1 65 96 10 63 96 11 63	122000 122510 122524 122524 123224 133217 133217 133107 13400 144000 144000 144001 144301 142260 122201 122201 133201 133201 133201 133201 133213 133213	1 1 1 3 3 2 18 1 1500 1 1500 1 1 1 2779 1 41 6 2 1 1 221 221 227 7	.1 .1 1.2 .1 3.5 .2 1.6 .1 117.3 .1 283.5 33.3 1.3 .4 .2 .4 9.1 .4 .5	.01 .11 .01 .01 .33 .01 .17 .01 11.05 .01 26.72 2.38 .10 .03 .01 3.74 .03 .11	1 1 1 1 1 2 4 4 4 6 1 7 2 6 2 1 0 2 7 7	1 2057 5736	4.5	59	17	•	

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DATE	IDENTIFICATION	QUANTITY	PER HOUR	PER MILE	INCIDENTS	NOON LOCATION	HOURS	MILES	CRUISE	\$H1P	
06 11 65	122431	2	.1	.02	2	1 1802 5659	13.2	91	17	5412	
	122633	1	. 1	. 91	1	1 1000 5055			•.	•	
	1 27 01	15	.1 1.1	.01	1						
	131104 131112	5	.3	. 15	32						
	136107	9	. 6	.09	6						
	146301	2	.1 .3	. 02	1 2						
06 12 65	146867	118	8.9	1.29	10	1 1619 5659	13.1	136	17	6	
	122510	158 1	12.0	1.16	14						
	122600	3	. 2	. 02	3						
	122609	1 19	.1 1.4	.01 ,13	1 13						
	122633	\$.3	. 12	2 5						
	131100	3	.7	. 02	1						
	131112	4 2	.3	.02	4 2						
	136107 146301	3	.2	.02 .11	2						
06 13 65	146867	25	1.9	.18	3	1 1227 5700	12.9		17		
•• •• ••	122510	10 37	.7 2.9	.09	18	1 1227 5700	14.4	110	17	•	
	172524	2	.1	.01	2 15						
	17240A 172608	1	.1	.01	1						
	172609	6	.2	.02	36						
	122631 172636	11	.8	.10	9 1						
	172653	5	.1	.01	2						
	122701 133206	2	.1 .1	.01	2						
86 14 65	146867 087898	1 35	.1 2.7	.01 .30	1	1 1010 5426	12.7	115	17	6	
	122000	3770	2.9	.32	11 26			•••	-	-	
	122524	8	. 6	. 06	5						
	122600	31 72	2.4	. 25	14						
	122600	113	,1 1.0	.01	1 13						
	122433	1	+1	.01	1						
	122636	1	, 1 , 1	.01	1 1						
1927	172701 13320A	1	.1	.01	1						
	146301	4	.3	.03	3						
06 15 65	146867 122000	91 7	7.1	. 79	3	1 1255 5400	12.9	114	17	6	
	122510	38	2.9	. 33	16 1						
	12260n 122608	26	2.0	.22	9						
	122609	1	3.5	. 40 . n2	22 3						
1226											
	122633	2 1	•1 •1	.01	2 1						
		2 1 1	•1		2 1 1						
DATE	122633	1	•1 •1	.01	1	NOON LOCATION	HOURS	#1LE S	CRUISE	5w1#	
DATE 04 14 65	122633 133204 IDENTIFICATION 122000	1 1 Quantity 9	.1 .1 .1 PER HOUR .6	.01 .01 PER HILE .07	1 1 Incidents 7	NOON LOCATION 1 1632 5400	NDURS 13.1	MILES 125	CRUISE 17	5w1#	
	172633 133204 IDENTIFICATION 172000 172600	1 1 QUANT TY 9 4	.1 .1 .1 Per Nour .6 .3	.01 .01 PER MILE .07 .03	1 1 Incidents 7 4			-			
	122633 133274 IDENTIFICATION 122000 122600 122600	1 1 DUANTITY 9 4 2 2	.1 .1 .1 PER HOUR .6 .3 .1 .1	.01 .01 PER MILE .07 .03 .01 .01	1 1 Incidents 7 4 2 2			-			
	122633 133774 IDENTIFICATION 122000 122000 122000 122000 122000 122000 122000 122000 122001	1 1 1 0 ant i ty 9 4 2 2 1 1	.1 .1 .1 .1 .1 .3 .1 .1 .1 .1	.01 .01 PER MILE .07 .03 .01 .01 .01 .01	1 INCIDENTS 7 4 2 2 1 1			-			
	122633 133704 122000 122600 122600 122600 122600 122600 122603 122603 122631 122701 131106	1 1 00 ANT [T V 4 2 1 1 3	.1 .1 .1 PER HOUR .6 .3 .1 .1 .1 .1 .2	.01 .01 .07 .03 .01 .01 .01 .01 .02	1 INCIDENTS 7 4 2 2 1 1 3			-			
Q ē 16 65	122633 133774 INENTIFICATION 122000 122000 122000 122000 122000 12200 12200 12200 12200 12200 12200 12200 12203 12200 1200 100000000	1 1 0UANT[TY 9 4 2 2 1 1 3 2 2 1 1 3 2 1	.1 .1 .1 PER HOUR .6 .3 .1 .1 .1 .1 .2 .1 .1	.01 .01 PER MILE .07 .03 .01 .01 .01 .02 .01	1 1 1 1 1 2 2 1 3 2 1 1 3 2 1	1 1632 5400	13.1	125	17	6	
Q ē 16 65	122633 133774 IDENTIFICATION 122000 122000 122000 122000 122000 12200 131104 131104 131112 14667 123700 122700	1 1 9 4 2 1 1 3 2 1 1 35	.1 .1 .1 PER HOUR .6 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .2 .1 .1 .2 .6	.01 .01 .01 .07 .03 .01 .01 .01 .02 .01 .01 .24	1 1 1 1 1 1 3 2 1 1 1 1 8			-			
Q ē 16 65	122633 133204 172000 122600 122600 122600 122600 122701 131100 131102 148667 122700 131102 148667 122700 122600	1 1 0UANT TY 9 4 2 2 1 1 3 5 5 3 5 3	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.01 .01 .01 .03 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	1 1 1 1 1 2 2 1 1 3 2 1 1 1 1 8 2	1 1632 5400	13.1	125	17	6	
Q ē 16 65	122633 133204 172000 122600 122600 122600 122600 122701 13110 12210 122700 122701	1 1 1 9 4 2 2 1 1 3 3 2 1 1 3 5 1 2 2	.1 .1 .1 .1 .1 .1 .3 .1 .1 .1 .1 .1 .1 .1 .2 .6 .7 .1 .1	.01 .01 .01 .03 .01 .01 .01 .01 .01 .01 .24 .01 .01 .24 .01 .01	1 1 1 1 1 4 2 2 1 1 1 3 2 1 1 1 8 2 1 1 2	1 1632 5400	13.1	125	17	6	
96 16 85	122633 133204 182000 12000 120000 12000 12000 12000 120000 1200000 1200000000	1 1 9 4 2 1 1 3 1 3 5 3 1	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.01 .01 .07 .03 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	1 1 1 1 1 2 2 2 1 1 1 3 3 2 2 1 1 1 1 8 2 1 1 1 1 8 2 1 2 1 2 1 2	1 1632 5400	13.1	125	17	6	
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