

## **Navy Physical Training Mishap Analysis**

### **Introduction**

There is a perception that many of the PT/PRT mishaps are caused by a pre-existing condition. This study delves into the Navy PT/PRT Mishap data in an effort to determine if pre-existing conditions may be a causal factor to PT/PRT Mishaps. In addition, this study explores the data in an effort to identify:

- Navy PT mishap rate and any significant changes
- Leading physical activities
- Any trends evident in the data

### **Data**

Navy PT/PRT data from FY98-08 as of 18 November 2008 from WESS is the primary data source for graphs and charts. In addition, WESS data is supplemented with data collected from the Safety Investigation Reports and Safety Investigation Reports enclosures and from data sources of the Navy Casualty Assistance Division. The data is reorganized into analyst defined groups to help to identify trends. National Heart Disease rate information originates from the Centers for Disease Control and Prevention. Navy population data originates from the Department of Defense.

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### **Methodology**

#### *Mishap Count Analysis*

Analysis for this project begins by addressing the big picture overview of all PT/PRT Class A, B and C mishaps covering FY 98 through FY 08. Using the Poisson distribution, confidence intervals are calculated for a 5-year average ranging from FY03-FY07 per mishap class for all PT/PRT mishaps. The total

mishaps for FY08 are evaluated to determine if FY08 totals are statistically significantly different than the 5-year average.

#### Mishap Rate Analysis

After the analysis of the number of PT/PRT Mishaps, the PT/PRT mishap rate is evaluated using the Poisson distribution. The confidence intervals are calculated for a 5-year average ranging from FY03-FY07 and 3-year average ranging from FY05-07 per mishap class for all PT/PRT mishaps. The rates for FY08 are evaluated to determine if FY08 rates are statistically significantly different than the 5-year average rate and the 3-year average rate.

#### Age Analysis

For the age analysis the WESS data is divided into different age group categories: Under 25, Ages 25-35, Ages 36-45, Ages 46-55, Over 55 and Null. The Poisson confidence intervals are calculated for a 3-year average ranging from FY05-FY07 per mishap class for all PT/PRT mishaps. The FY08 mishap counts are evaluated to determine if the FY08 figures are statistically significantly different than the 3-year average. In addition, the percentage of PT/PRT mishap instances of each age group categories are compared to the percentage of navy personnel in each age group category.

#### Season Analysis

The data is divided into seasons by the month of the occurrence. The table below defines the season breakdown:

<b>Month</b>	<b>Season</b>
December, January , February	Winter
March, April, May	Spring
June, July, August	Summer
September, October, November	Fall

Using the Poisson distribution, confidence intervals are calculated for a 10-year average ranging from FY99-08 per mishap class for each season. The 10-year season averages are evaluated to determine if there are statistically significant differences between the season averages.

### Time Group Analysis

The data is divided in time categories based on the time of the occurrence: Before 0900, 0900-1200, 1200-1400, 1400-1700, 1700-2000, 2000 and Later and Null. Using the Poisson distribution, confidence intervals are calculated for a 10-year average ranging from FY99-08 per mishap class for each time group category. The 10-year time group averages are evaluated to determine if there are statistically significant differences between the time group averages.

### Day-of-Week Analysis

Using the Poisson distribution, confidence intervals are calculated for a 10-year average ranging from FY99-08 per mishap class for each day of the week. The 10-year weekday averages are evaluated to determine if there are statistically significant differences between the averages.

### Reporting Command Analysis

The data is charted on the number of mishaps that occurred at the reporting command over a period ranging from FY98 to FY08 and also ranging from FY04-08.

### Rank and Grade Analysis

The 10-year percentage average of PT/PRT mishap instances by class, grade, and rank are compared to the percentage of Navy personnel by grade and rank over a 10 year period ranging from FY99 to FY08. For rank and grades that graph higher than the Navy personnel averages, the data is analyzed to determine the leading injury diagnoses and further analyzed using the Poisson distribution.

### Injury Diagnoses Analysis

The data is charted by number of mishap instances by injury diagnoses and mishap class over a period ranging from FY98 to FY08. Further analysis is conducted comparing the percentage of Class A PT/PRT mishap instances of the leading injury diagnoses to national percentage of deaths from the same leading diagnoses.

### Top-Ten Job Performed Analysis

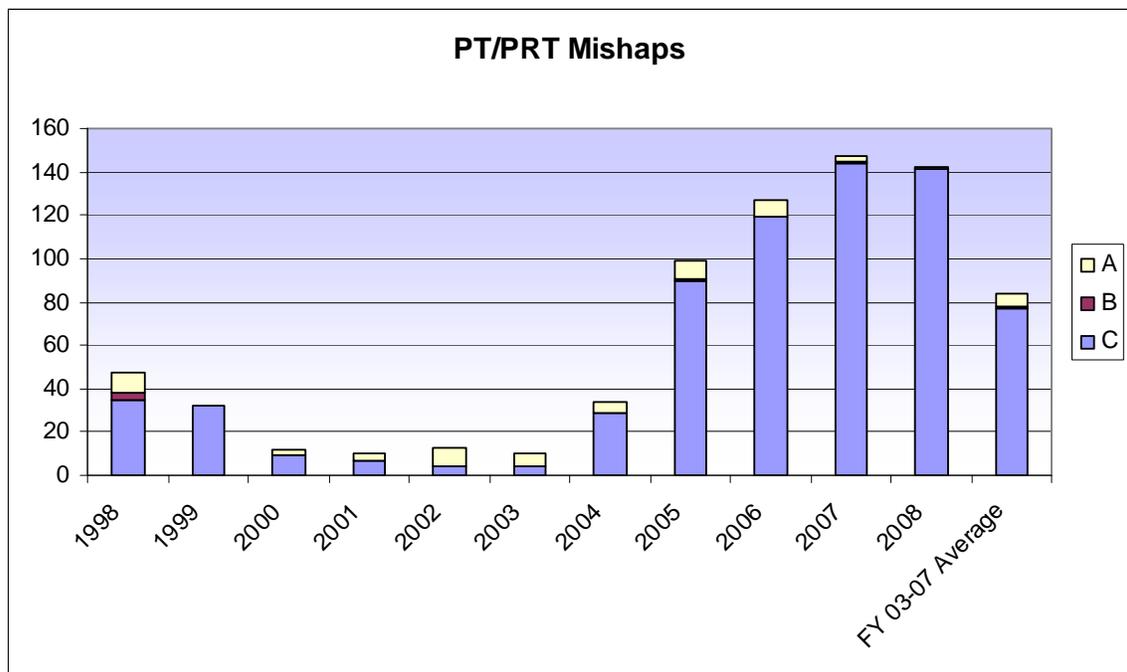
The analysis begins by charting mishaps by each job performed as defined by WESS per mishap class over a period ranging from FY98 to FY08. There are several job performed categories that are general, i.e. Sport, N.E.C., Recreation, N.E.C., Physical Fitness Program, Training, N.E.C and Other, N.E.C. The mishap job activities are redefined using job performed, brief narrative and event narrative fields.

### Group Sport Analysis

The PT/PRT mishaps are categorized into three categories: PRT, Non-Group Sport, and Group Sport. Mishaps that occur during a physical requirement test or physical fitness assessment are categorized at PRT, mishaps that occur during a group sport such as basketball, baseball, etc. are categorized as Group Sport and all other mishaps are categorized as Non-Group Sports. Using the Poisson distribution, confidence intervals are calculated for a 4-year average ranging from FY04-07 per mishap class for each category. The total of mishaps for FY08 is evaluated to determine if FY08 total is statistically significantly different than the 4-year average. The same type of analysis is done dividing the mishaps in Class A/B and Class C.

### **Discussion**

This study focuses on trying to identify trends, rate changes and major injury diagnoses to gain better insight into PT/PRT mishap data. Figure 1 displays PT/PRT mishaps that occur from FY98 to FY08. As is evident by the chart, a majority of the PT/PRT mishaps are classified as Class C mishaps. The number of Class C PT/PRT mishaps has increased beginning in FY04 and has continued to grow. This growth can be attributed to the commencement of Web Enabled Safety System (WESS), the Navy's online mishap reporting tool, the WESS phenomenon.



**Figure 1**

In the graph below, the 5-year average for the Class A PT/PRT mishaps and the number of Class A PT/PRT mishaps for FY08 are graphed with a 90%

confidence region denoted by the green lines. In Figure 2, the FY08 Class A PT/PRT bar falls below the lower 90% confidence interval boundary indicating that number being statistically significantly lower than the 5-year average. Although if one more Class A PT/PRT mishap would have occurred during FY08, the number of mishaps would fall between the upper and lower confidence interval bounds and there would not be a statistically significant difference.

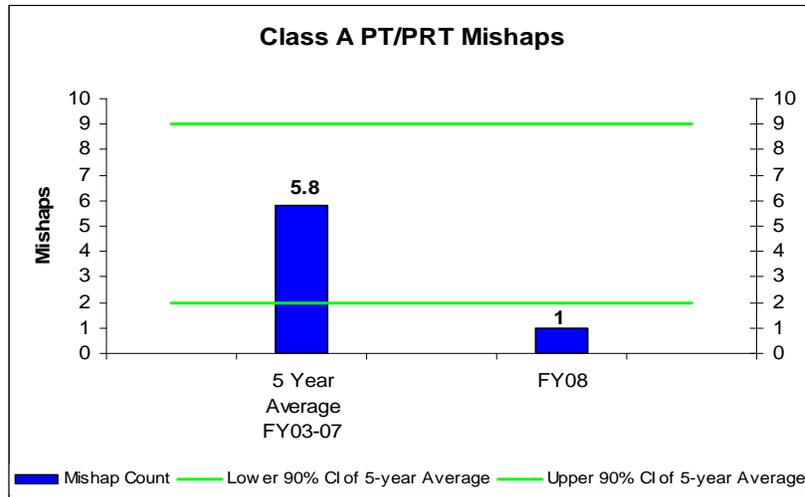


Figure 2

The graph in Figure 3 is similar to the graph in Figure 2 except that it depicts the data for Class C PT/PRT mishaps. For FY08, Class C PT/PRT mishaps have nearly doubled the 5-year average and clearly exceeds the upper 90% confidence interval bound indicating a statistically significant difference. This dramatic increase can be ascribed to a decrease in safety awareness, an increase in reporting Class C mishaps or a combination of the two.

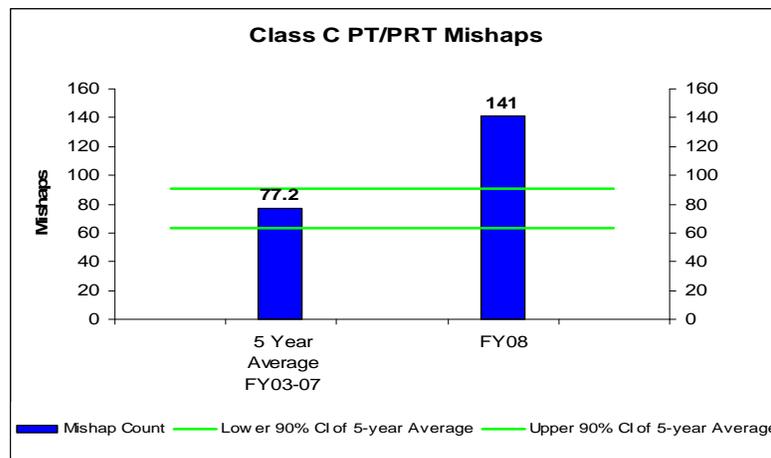


Figure 3

A similar graph can be found in [Appendix A](#) for Class B mishaps.

Mishap Rate Analysis

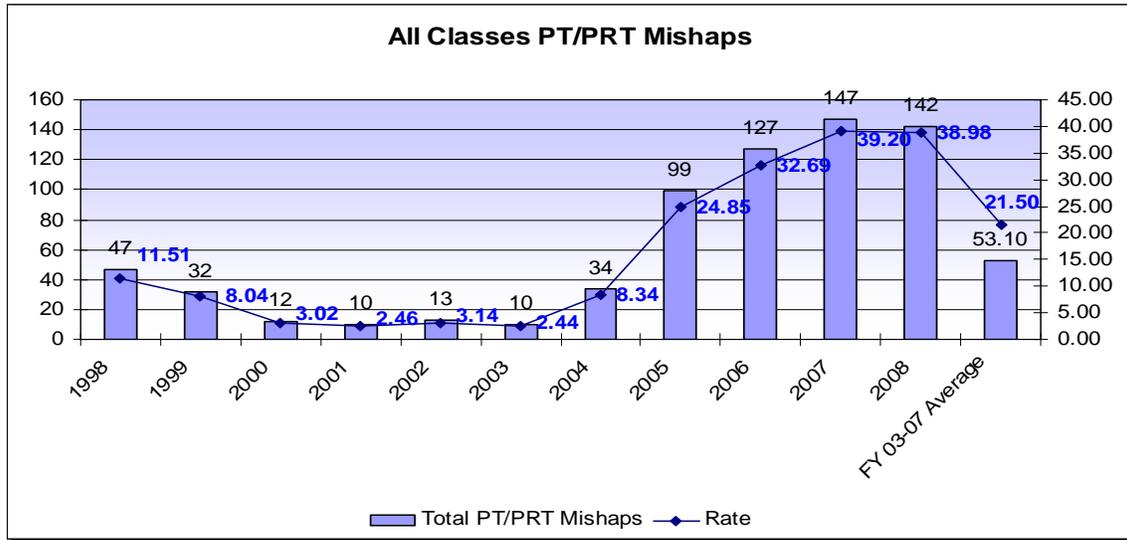


Figure 4

The graph in Figure 4 illustrates the total number of PT/PRT mishaps and rate per 100,000 persons per Fiscal year. There is an increase in both rate and total number beginning in FY04 and this increase continues until FY08 where there is a slight decrease in rate. This increase is most likely due to the WESS phenomenon, as described above.

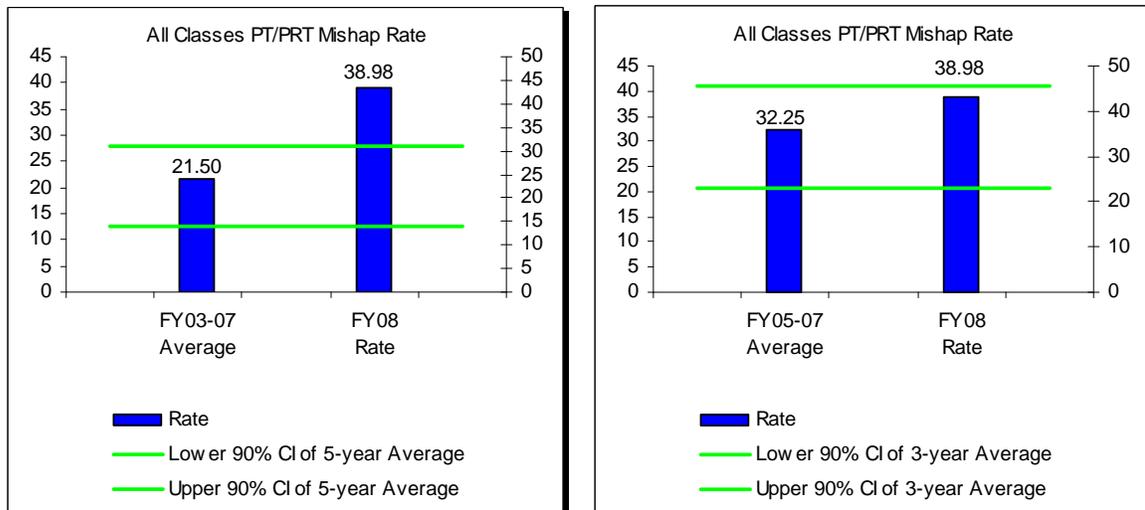
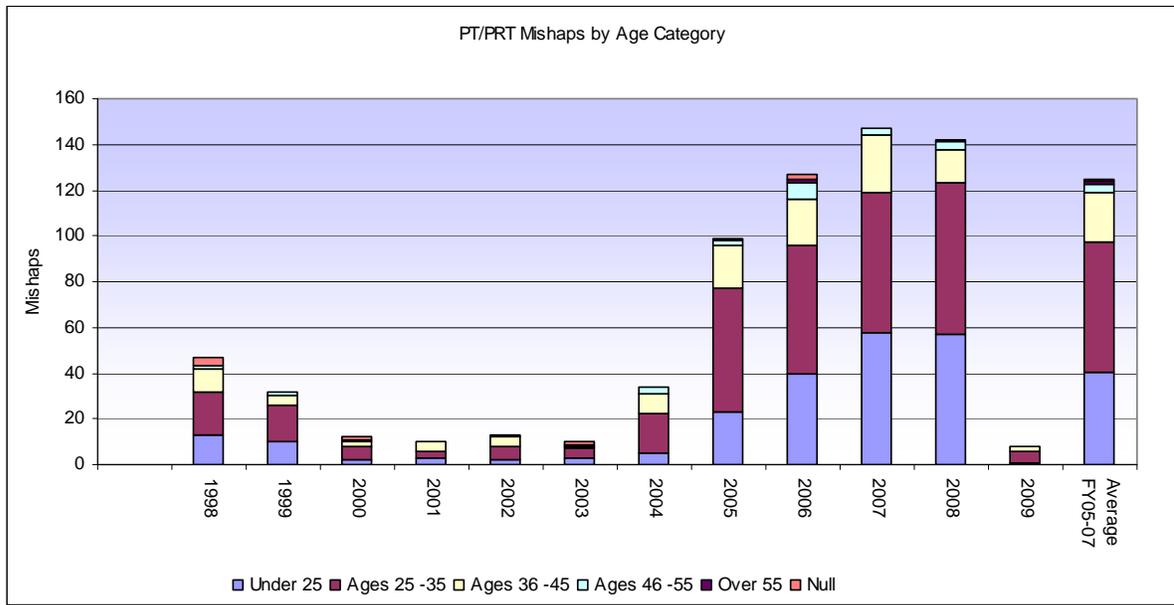


Figure 5

Figure 5 charts the 5-year average rate and the FY08 rate for all classes of PT/PRT mishaps and the upper and lower 90% confidence interval bounds on the first graph and charts the 3-year average rate and the FY08 rate for

all classes of PT/PRT mishaps and the upper and lower 90% confidence interval bounds on the second graph. The second graph only uses the data from the period of time that WESS is fully operational and is instructed to be used to report mishaps to the Naval Safety Center. When comparing both graphs, FY08 rate falls above the confidence interval range for the 5-year average rate but falls within the confidence interval range for the 3-year average rate. This indicates no statistically significant difference to the rate when eliminating the WESS phenomenon from the data. This remains the same when the data was broken into Class C. When analyzing the data for Class A, the FY08 rate falls into the confidence interval range for both comparisons. The graphs can be found in [Appendix B](#).

Age Analysis



**Figure 6**

Figure 6 graphs the number of PT/PRT mishap instances by age groups per fiscal year and the 3-year average ranging from FY05-07. The proportion of number of instances per age group per fiscal year continues to be consistence starting in FY04 through FY08.

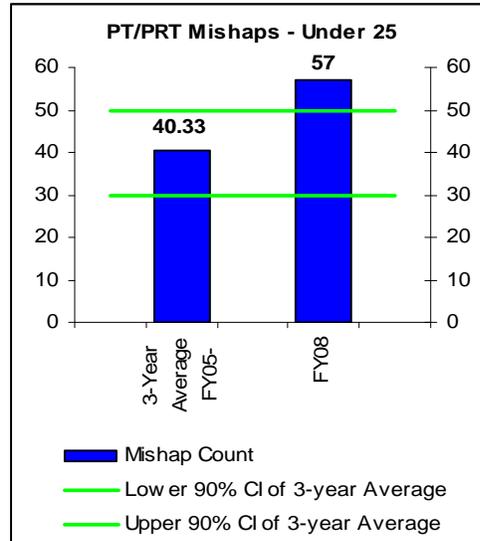


Figure 7

Figure 7 graphs the 3-year average for mishap instances where the injured person is under 25 years old and the number of FY08 mishap instances where the injured person is under 25 years old along with the upper and lower 90% confidence interval bounds. The FY08 number exceeds the upper confidence interval bound indicating that the FY08 mishap instance count is statistically significantly higher than the 3-year average.

The age group data is further broken down into mishap classes. This proved to be difficult for Class A PT/PRT mishaps. For many of the records from WESS the age field is left null. Other data sources are needed to obtain the missing ages for Class A mishaps. For the ten year period of data, there is still a number of Class A mishap instances that the age could not be obtained. This obstacle is overcome by using a smaller fiscal year data range, FY05-07. However, there are still two Class A mishap instances in FY06 that the age is not able to be obtained. On the contrary, there are no missing ages for Class C mishaps.

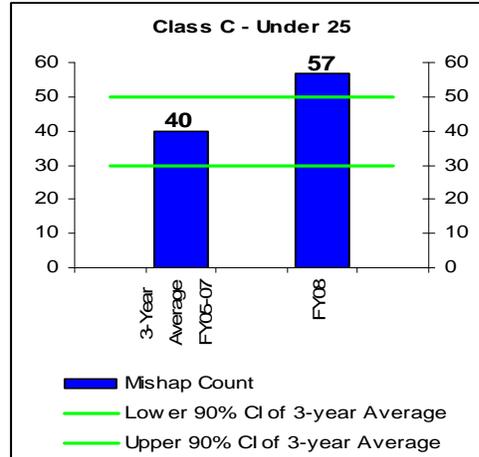


Figure 8

Figure 8 graphs Class C PT/PRT mishap instances where the injured person is under 25 years old in the same manner as Figure 8. As with the PT/PRT mishaps above, the FY08 Class C PT/PRT mishaps fall above the 90% confidence range indicating FY08 mishap instances are statistically significantly higher than the 3-year average. When the same analysis is conducted for Class A PT/PRT mishap instances, there is no statistical difference. See [Appendix C](#), Table C-5. It can be derived that the statistical significant increase in the number of FY08 PT/PRT mishap instances for all classes from Figure 8 can be attributed to increase in the number of Class C PT/PRT mishap instances.

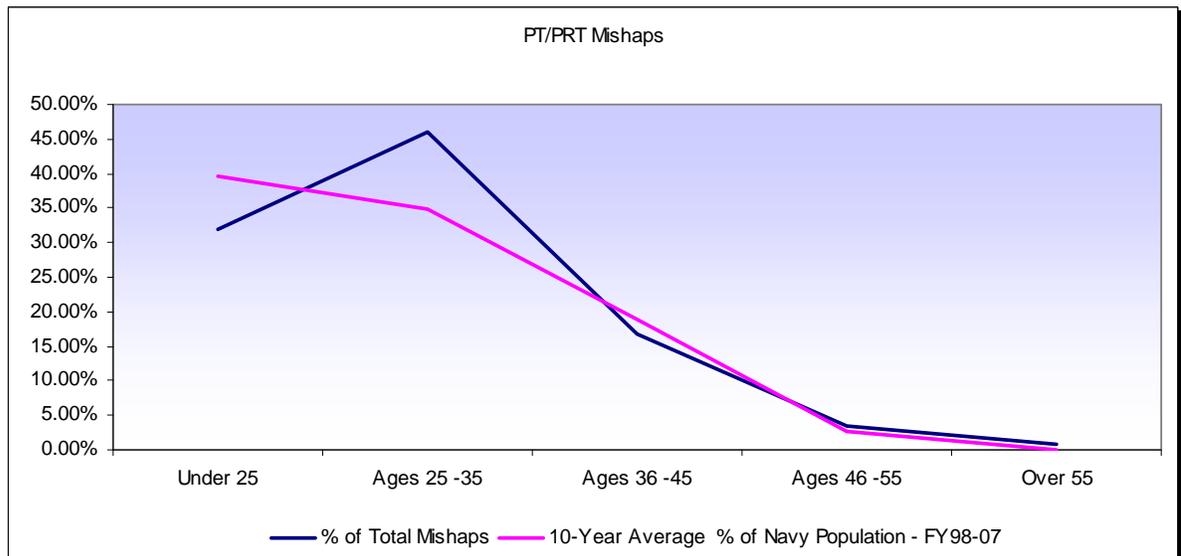


Figure 9

Figure 9 charts the percentage of total mishap instances by age group and the 10-year average percentage of the Navy population from FY98 to FY07.

The mishap data tends to follow the Navy population except for mishap instances where the injured person is between the ages of 25-35. To note, 1.17% of the total PT/PRT mishap instances have null values in the age group field.

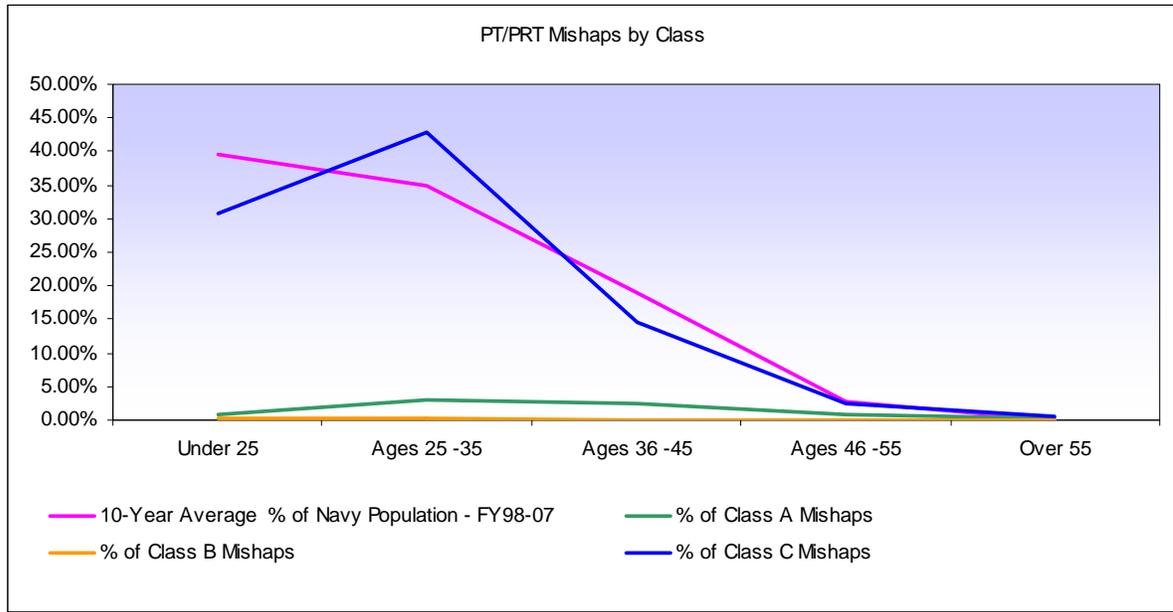


Figure 10

For further analysis, the PT/PRT mishaps data is broken down into mishap severity class. Figure 10 graphs in the same perspective as Figure 9 for each class. It becomes evident from Figure 10 that Class C mishaps contribute to the peak in Ages 25-35 in Figure 9. See [Appendix C](#) for more detailed graphs.

Season Analysis

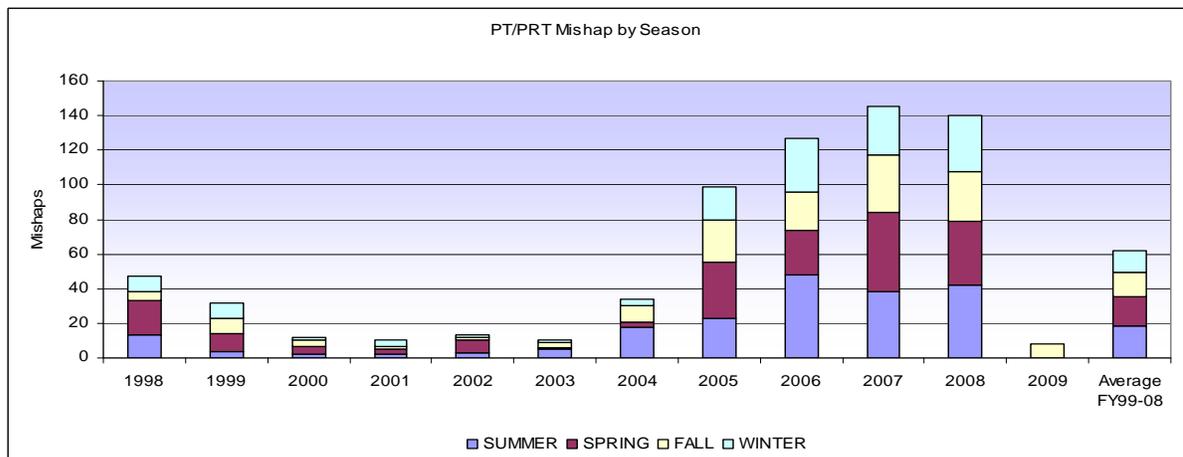


Figure 11

Figure 11 graphs PT/PRT mishaps by season by fiscal year as well as the 10-year averages. The proportion of mishaps occurring during the different season tends to be consistent over the fiscal years. The same trend is seen when the PT/PRT mishaps are broken down by mishap class. See [Appendix D](#).

To see if there are any statistically significant differences in the averages, the 10-year averages are evaluated using the Poisson distribution. The seasonal analysis shows no statistical differences among the season averages for any mishap class. See [Appendix D](#).

Time Group Analysis

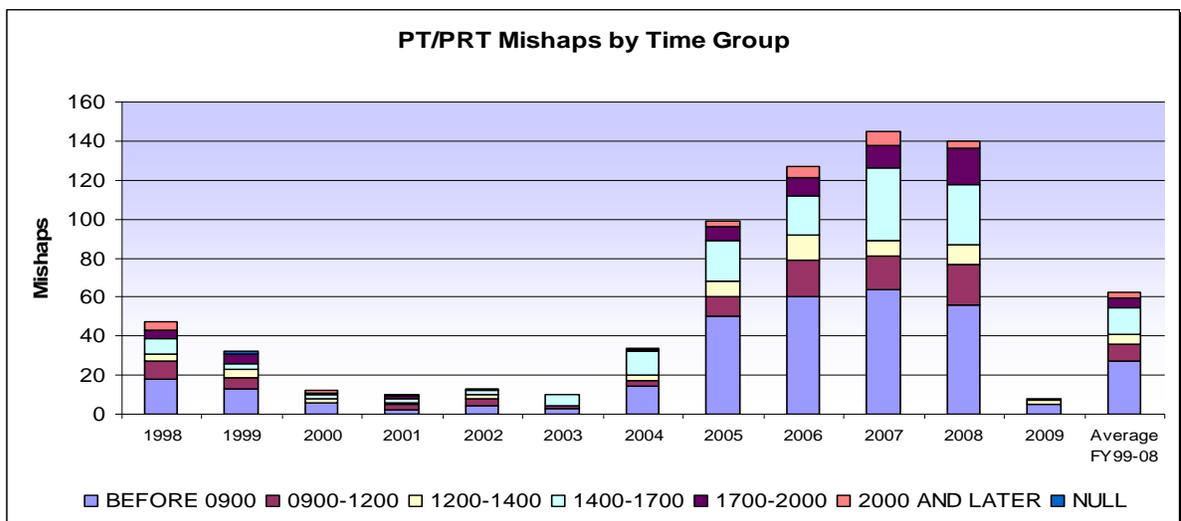


Figure 12

Figure 12 charts the number of PT/PRT mishaps that occur during the time periods specified. The 10-year trend points towards more PT/PRT mishaps occurring in the morning before 0900 followed by PT/PRT mishaps occurring between the hours of 1400 and 1700 and fewer PT/PRT mishaps occurring after 2000. This also held true when the data was divided into mishap severity classes. This is not unexpected considering PT/PRT sessions are normally conducted during those hours. This theory is further supported by analysis of the averages which can be found in [Appendix E](#).

Day-of-Week Analysis

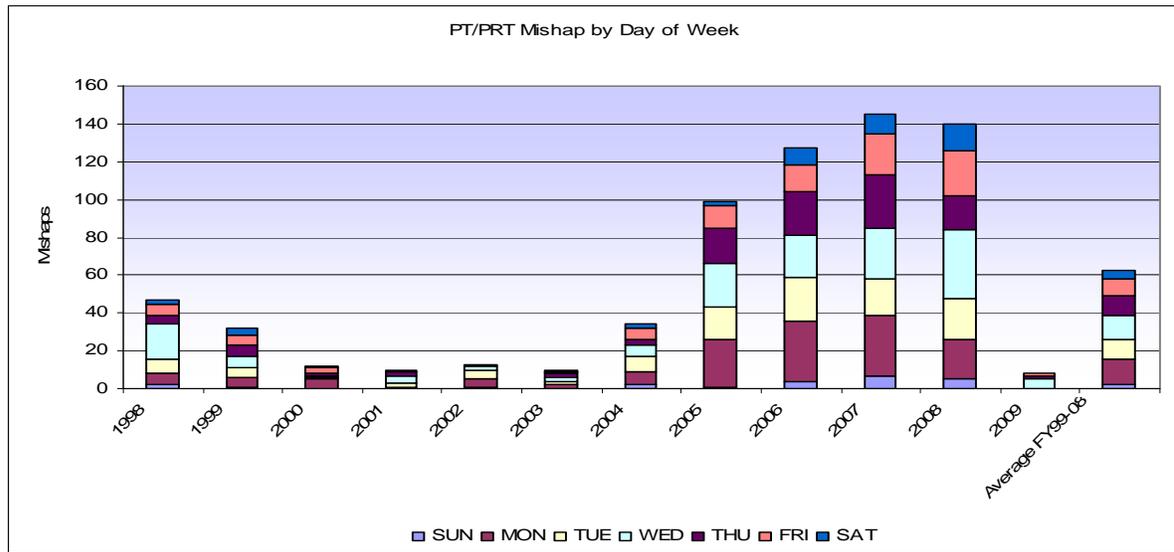


Figure 13

Figure 13 charts the number of PT/PRT mishaps by the day of occurrence. The 10-year trend points towards more PT/PRT mishaps occurring on Monday and Wednesday. This also held true when the mishaps were divided by class. This is not unexpected considering PT/PRT sessions are normally conducted on those days. The theory is further supported by analysis of the averages which can be found in [Appendix F](#).

Reporting Command Analysis

Table 1

All Classes	FY98-08	FY04-08
Reporting Command	Total	Total
RECRUIT TRAINING COMMAND GREAT LAKES IL	34	30
COMMANDER, NAVY REGION HAWAII	15	15
NAVAL HOSPITAL CORPS SCHOOL GREAT LAKES IL	13	13
OFFICER TRAINING COMMAND (STUDENTS)	13	13
AIMD NAS OCEANA VA	10	10
NAVAL OCEAN PROCESSING FAC NAS WHID ISL	10	10

Table 2

Class C	FY98-08	FY04-08
Reporting Command	Total	Total
RECRUIT TRAINING COMMAND GREAT LAKES IL	30	30
COMMANDER, NAVY REGION HAWAII	15	15
NAVAL HOSPITAL CORPS SCHOOL GREAT LAKES IL	13	13
OFFICER TRAINING COMMAND (STUDENTS)	13	13
AIMD NAS OCEANA VA	10	10
NAVAL OCEAN PROCESSING FAC NAS WHID ISL	10	10

Table 1 lists the six reporting commands with the greatest numbers of PT/PRT mishaps for Class A, B, and C over both an eleven year period and a five year period. Table 2 breaks down the data into mishaps for Class C only. From looking at Table 1 and Table 2, the majority of PT/PRT mishaps occurring at the reporting commands for both periods can be attributed to mishaps for Class C. In addition, all of the mishaps for those commands

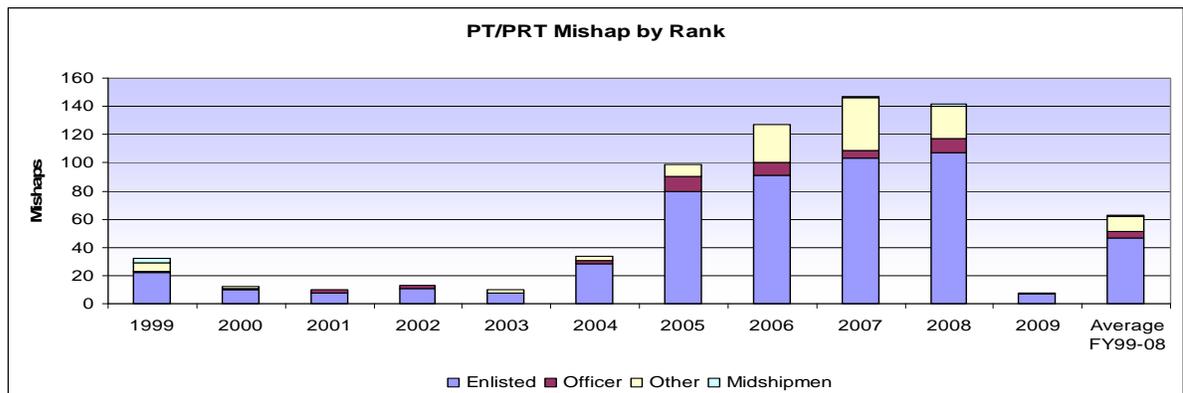
are reported between FY04 and FY08. Recruit Training Command Great Lake, Illinois, is the reporting command with the largest number of Class C mishaps. This increase in reporting mishaps for Class C is most likely due to the WESS phenomenon.

**Table 3**

Class A/B	FY98-08	FY04-08
Reporting Command	Total	Total
RECRUIT TRAINING COMMAND GREAT LAKES IL	4	0
NAVAL SPECIAL WARFARE CENTER CORONADO CA	2	0
UIC UNKNOWN	2	0
US NAVAL AIR STATION KEFLAVIK ICELAND	2	0
ANZIO	1	1
BATAAN	1	1

Table 3 lists the six reporting commands with the greatest number of PT/PRT mishaps for Class A and B over an eleven year period and a five year period. When comparing the eleven year totals, Recruit Training Command Great Lakes, Illinois, is at the top of all three tables. All of the Class A and B mishaps for Recruit Training Command Great Lakes, Illinois occur before FY04. This same phenomenon can be seen for top four reporting commands. A detailed breakdown of the number of Class A/B mishaps for the top four reporting commands can be found in [Appendix G Table G-1](#). This decrease from eleven year period to the five year period could likely be due to under reporting, the change in reporting criteria, increased safety or a combination of all three. Between FY04 and FY08, there is only one Class A or Class B mishap at any one reporting command. See [Appendix G](#) for a detail list of reporting commands.

Rank and Grade Analysis



**Figure 14**

Figure 14 graphs PT/PRT mishap instances by rank along with the 10 year average ranging from FY99 to FY08. The Other category listed includes

mishap instances where the injured person is a government civilian or the pay grade is undeterminable. From Figure 15, enlisted personnel category has the largest number of PT/PRT mishaps. Starting from FY04, the proportion of each category seems to stay relatively consistent.

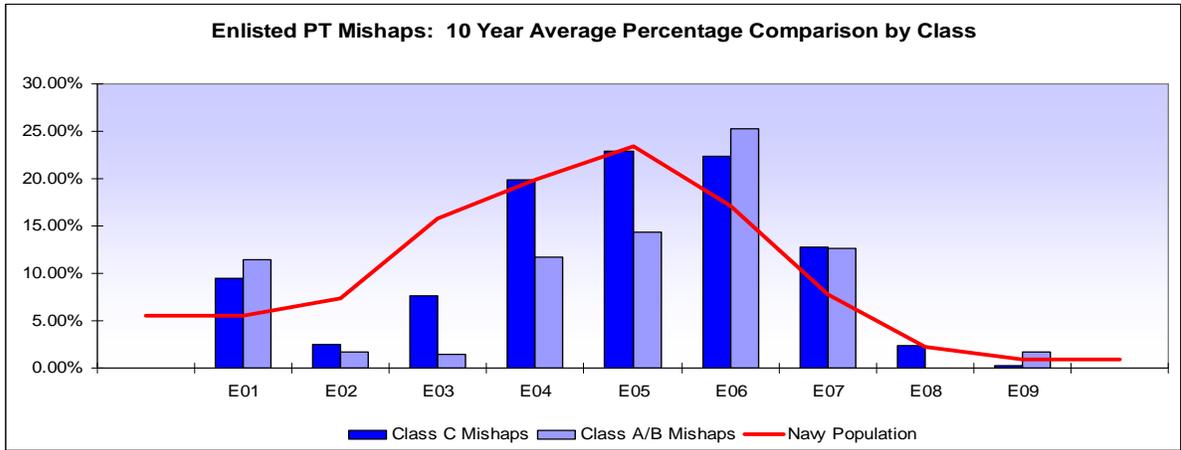


Figure 15

Figure 15 charts the 10 year average percentage of PT/PRT enlisted mishaps by pay grade along with the 10 year average percentage of Navy personnel population by pay grade denoted by the red line. When comparing the PT/PRT mishaps percentage with the Navy personnel population percentages, it is expected that the mishap percentages should follow along a similar curve as the Navy population percentages. This tends to be the case except for E01, E06 and E07 which fall above the red line.

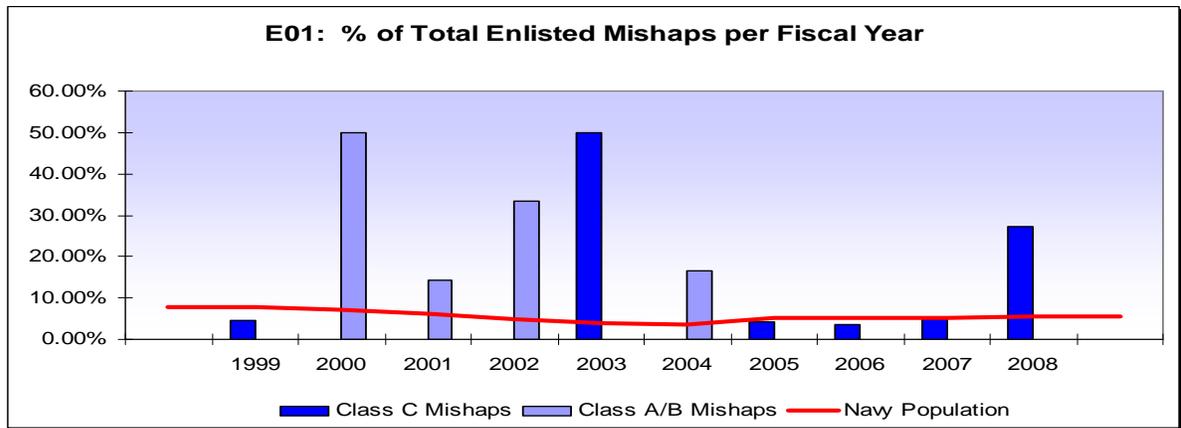


Figure 16

To further analyze the data, the data for E01, E06, and E07 is broken out by fiscal year. Figure 16 graphs the percentage of E01 PT/PRT mishap instances by fiscal year as well as the percentage of Navy population represented by the red line. Percentages for Class A/B mishaps are above

the Navy population percentage for every year they occur. As of FY05, there are no Class A/B mishaps. This may be due to under reporting, an increase in the safety procedures or screening, or change in reporting criteria. The percentage of Class C mishaps seems to be steady from FY05 through FY07 but peaks in FY2008.

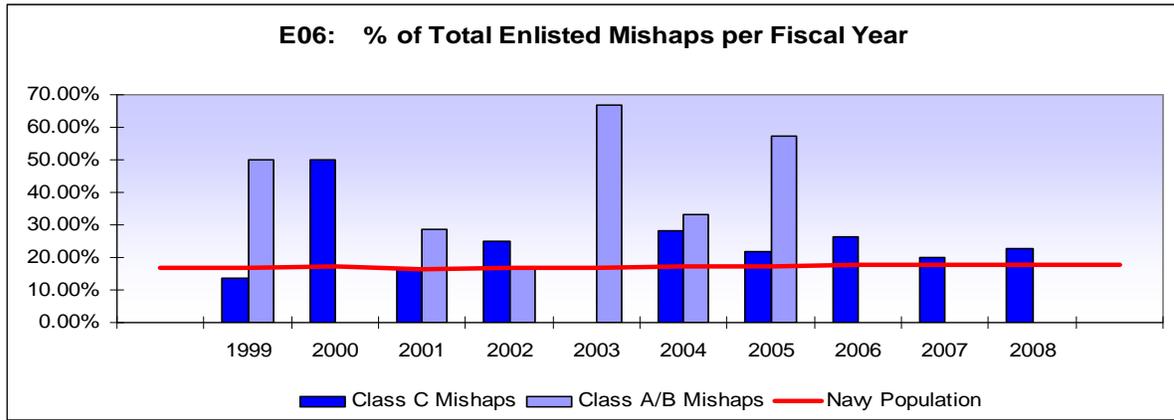


Figure 17

Figure 17 is similar to Figure 16 except that it graphs the data for E06. Class A/B percentages peak in FY03 and have two other pikes in FY99 and FY05. As of FY06, there are no Class A/B mishaps. This may be due to under reporting, an increase in the safety procedures or screening, or change in reporting criteria. The percentage of Class C mishaps seems to be relatively steady from FY01 through FY08 although the PT/PRT percentages are above the Navy population percentages.

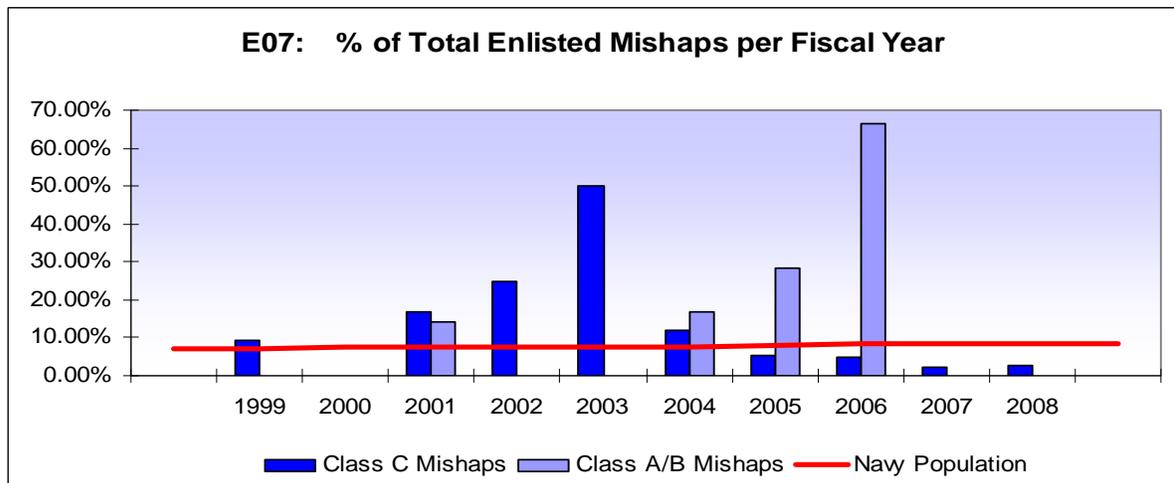


Figure 18

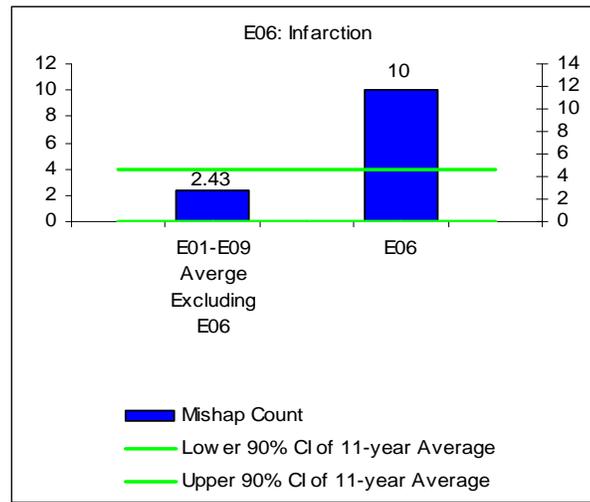
Figure 18 breaks out the same data as the other graphs for E07. There is a large spike in E07 Class A/B PT/PRT percentages for FY06 and then there are no other Class A/B mishaps reported for E07 after that spike. The large

spike in FY06 may be the contributing factor to the reason for Class A/B PT/PRT percentage for E07 to rise above the Navy population percentage in Figure 18.

**Table 4**

Class	E01		E06		E07	
	Diagnoses	Instance	Diagnoses	Instance	Diagnoses	Instance
A/B	INFARCT	5	INFARCT	10	INFARCT	3
	UNDETERMINEABLE	0	UNDETERMINEABLE	2	UNDETERMINEABLE	2
C	SPRAIN	14	SPRAIN	44	FRACTURE	7
	UNCONSCIOUSNESS	7	FRACTURE	20	SPRAIN	6

The data is then disseminated into the injury diagnoses in an effort to determine the leading injury diagnoses for the three enlisted pay grades. Table 4 lists the top two injury diagnoses for the three enlisted pay grades. Infarction is the top injury diagnoses for Class A/B mishaps for all three enlisted pay grades: E01, E06 and E07. As for Class C mishaps, the injury diagnoses for a sprain was in either the top position or the next to the top position for each of the three pay grades. For a full listing of injury diagnoses for all classes for E01, E06 and E07, see [Appendix H](#).



**Figure 19**

Using the Poisson distribution the data is analyzed further to determine if there is any statistically significant differences between the number of infarctions in E01, E06, and E07 pay grades over the 10 year period and the average number of infarctions for the other enlisted pay grades over the same 10 year period. Figure 19 graphs the 10-year average of infarctions of the other pay grades, the number of E01 infarction occurring over the 10 year period ranging from FY99 – FY08 and the 90% confidence range. The number of E06 infarction mishap instances fall far above the upper bound confidence interval indicating a statistically significant increase. For

mishap involving E01 and E07, there is no statistically significant difference between the number of E01 and E07 mishap instances and the average of the other enlisted pay grades. See [Appendix H](#).

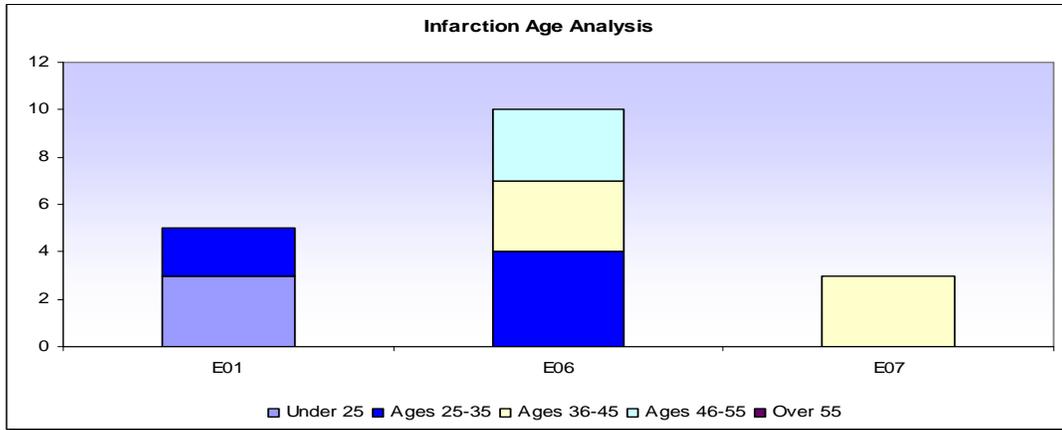


Figure 20

Figure 20 breaks down the Class A/B PT/PRT mishaps where the injury diagnoses of infarction into the age categories. All of the E01 infarction mishaps involve personnel under the age of 36 with approximately half being under the age of 25. For E06 infarction mishaps, over a third of the mishaps involve personnel under the age of 36. For E07 infarction mishaps, all of the mishaps involve personnel between the ages of 46 and 55.

Diagnoses Analysis

Table 5

Class	Diagnoses	Total
A/B	INFARCT	34
	TRAUMA	1
	BLUNT TRAUMA	1
	HEMORRHAGE	1
	INHALATION, DAMAGING OR NOXIOUS MATERIAL	1
	RHABDOMYOLYSIS	1
C	SPRAIN	252
	FRACTURE	127
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	66
	INJURY, HEAT	24
	UNCONSCIOUSNESS	21

In Table 5, the number of instances for each activity involved in the total number of mishap instances for Class A, B and C is listed in rank order from the most instances to the least for the top five injury diagnoses. There are 9 Class A/B mishap instances where the injury diagnosis is undeterminable from reading the brief and event narratives. From Table 5, infarction is the leading diagnosis for Class A/B mishaps and sprains are the leading diagnosis for Class C mishaps. For a full listing, see [Appendix I](#).

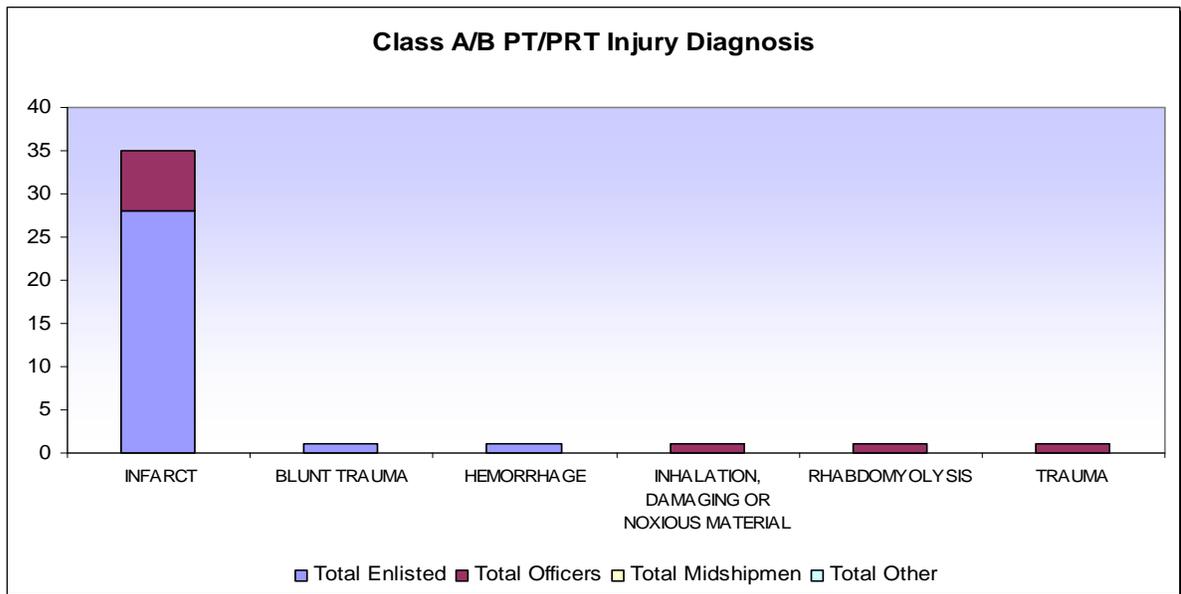


Figure 21

Figure 21 graphs Class A/B injury diagnoses separated into enlisted, officer, midshipmen and others. The other category includes government civilian, foreign civilian attached to the Navy and mishaps where the rank/grade could not be determined. Enlisted constitutes 79% of mishap instances involving the leading injury diagnosis of infarctions and Officers constitute 21%. These percentages closely mirror the demographic make-up of the Navy population excluding Midshipmen which is 85% enlisted and 15% officers.

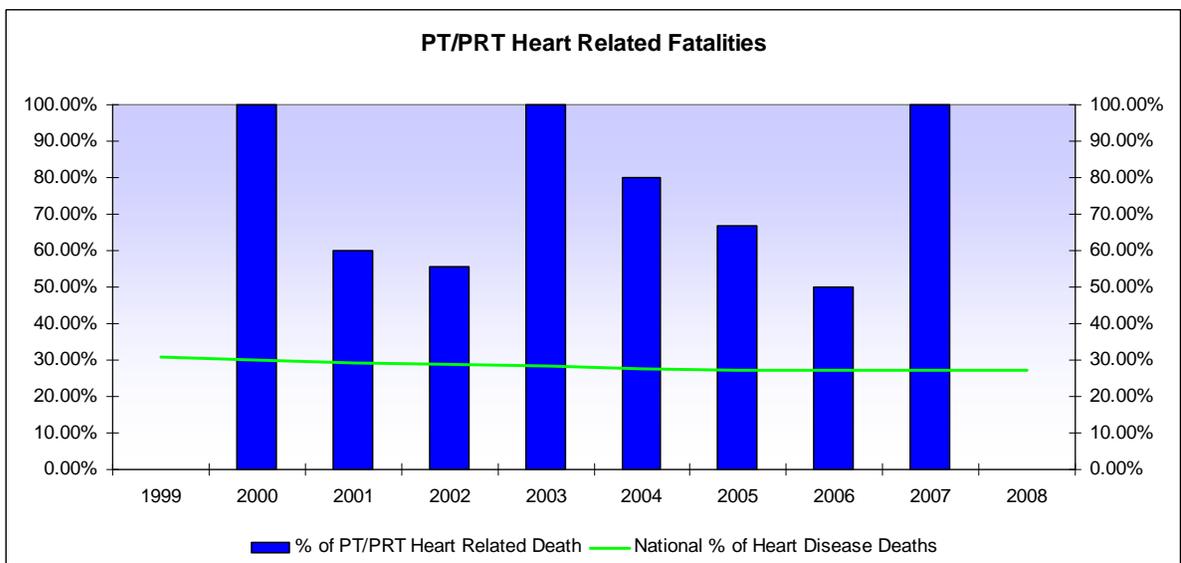


Figure 22

The next step in the analysis is to compare the percentage of Class A PT/PRT mishap instances of the leading injury diagnoses to national percentage of deaths from the same leading diagnoses. Figure 22 charts the percentage of PT/PRT heart related deaths per all PT/PRT deaths and the national percentage of heart disease death per all death represented by the green line per fiscal year. As is evident by Figure 22, the percentage of PT/PRT heart related deaths fall above the National percentage of heart disease deaths for almost all fiscal years. In FY00, FY03, and FY07, heart related death account for all PT/PRT fatalities.

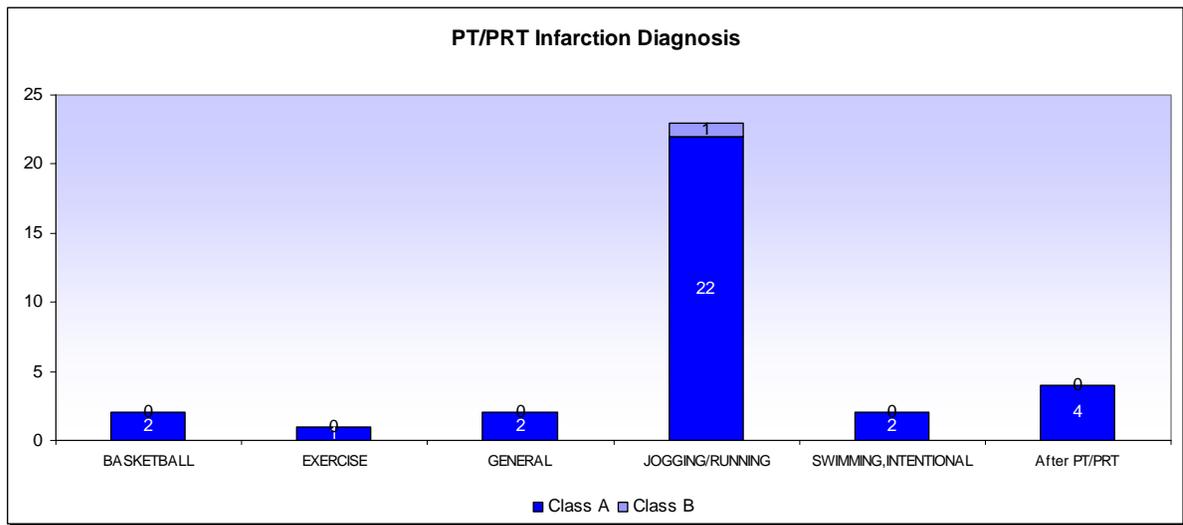


Figure 23

In an effort to further explore the mishap instances involving infarctions, Figure 23 graphs the mishap instances by activity being performed when the infarction occurred. Jogging/Running has the largest number of instances.

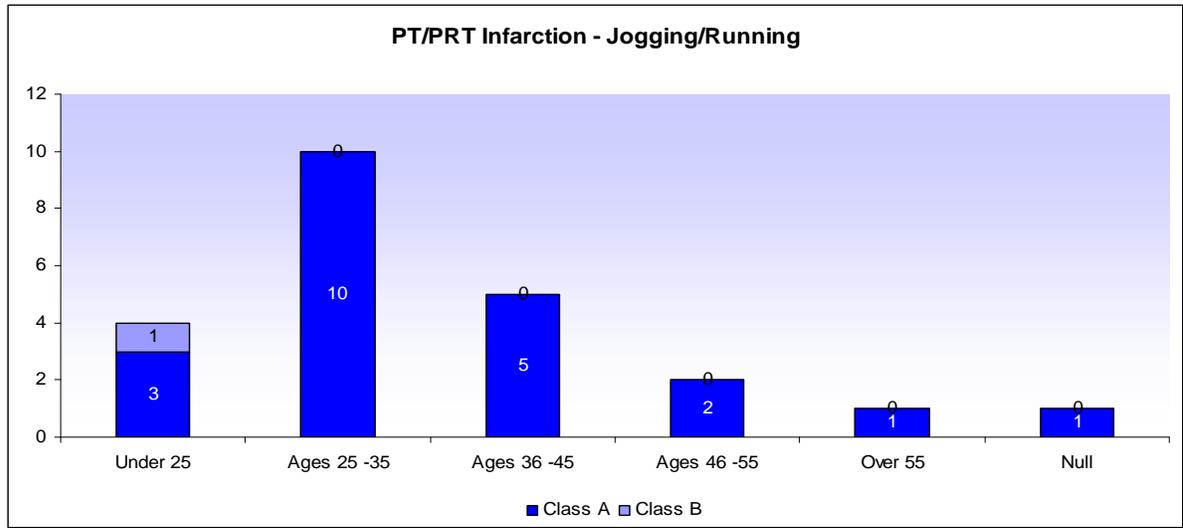


Figure 24

In a cascading manner of analysis, Figure 24 breaks down the Class A/B mishaps instances where infarction is the injury diagnosis and jogging/running is the activity being performed by age group. The largest number of infarctions involves individuals that are between the ages of 25 and 35.

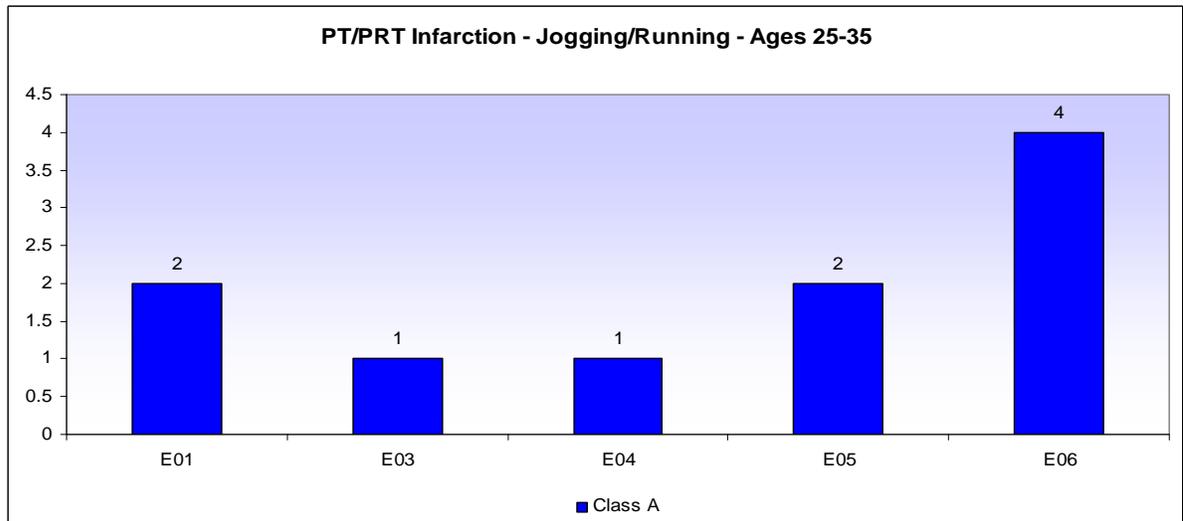


Figure 25

To yet further cascade, Figure 25 breaks the data in pay grades with E06 having the greatest number of instances where infarction is the injury diagnosis, jogging/running is the activity being performed, and the ages fall within the 25-35 age group. Also to note, that no officers fall into this breakdown of data. See [Appendix I, Table I-5](#) for a detailed listing of the ages by pay grade.

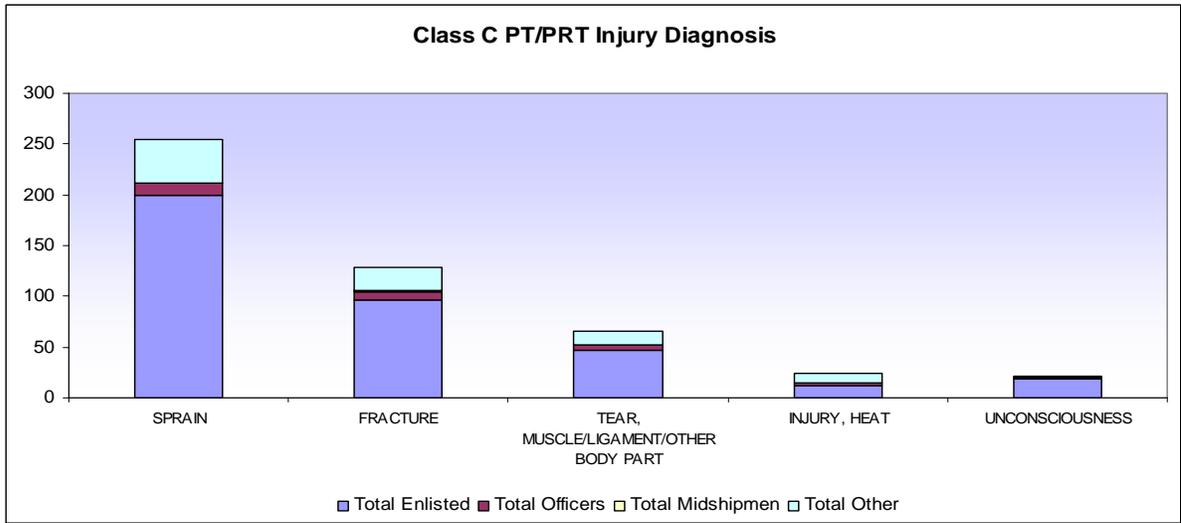


Figure 26

Figure 26 graphs the top five Class C PT/PRT injury diagnoses instances in the same manner as Figure 22. Similarly as in Figure 22, enlisted has the largest proportion of the leading injury diagnosis of a sprain. Enlisted constitute 79% of the sprains in Figure 26 and Officers constitute 5%. 17% of the sprains occur to the “other” category which includes government civilians, foreign civilians attached to the Navy, and mishap instances where the pay grade could not be determined. For a detailed listing see [Appendix I, Table I-4](#).

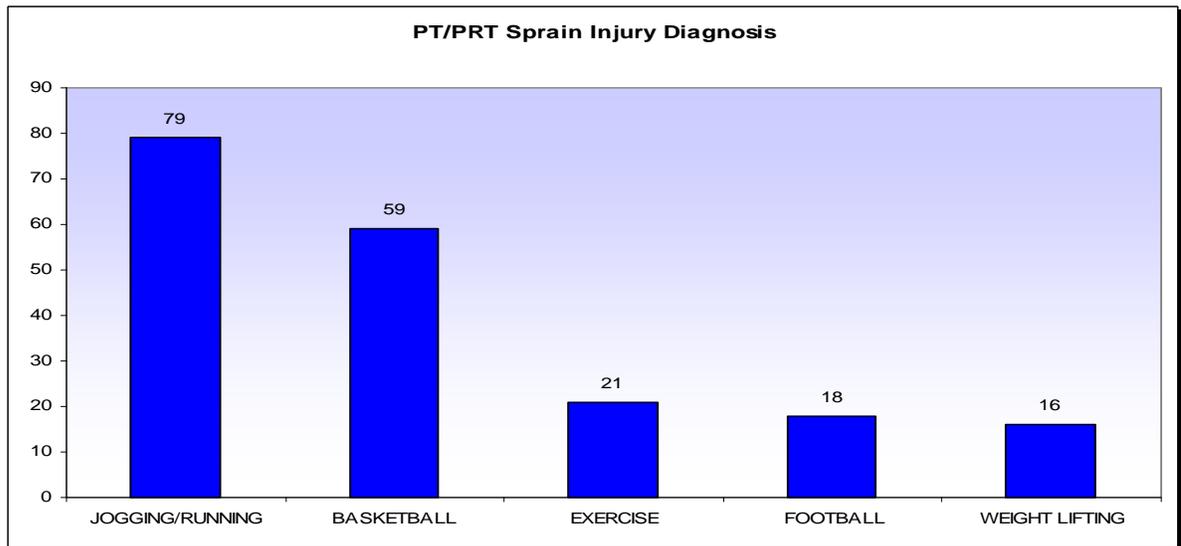


Figure 27

As with Class A/B mishap instances involving an infarction, the Class C mishap instances involving sprains are further disseminated into the activity being performed. Figure 27 graphs the number of instances per

activity. As for Class A/B mishaps instances, jogging/running has the most instances closely followed by basketball.

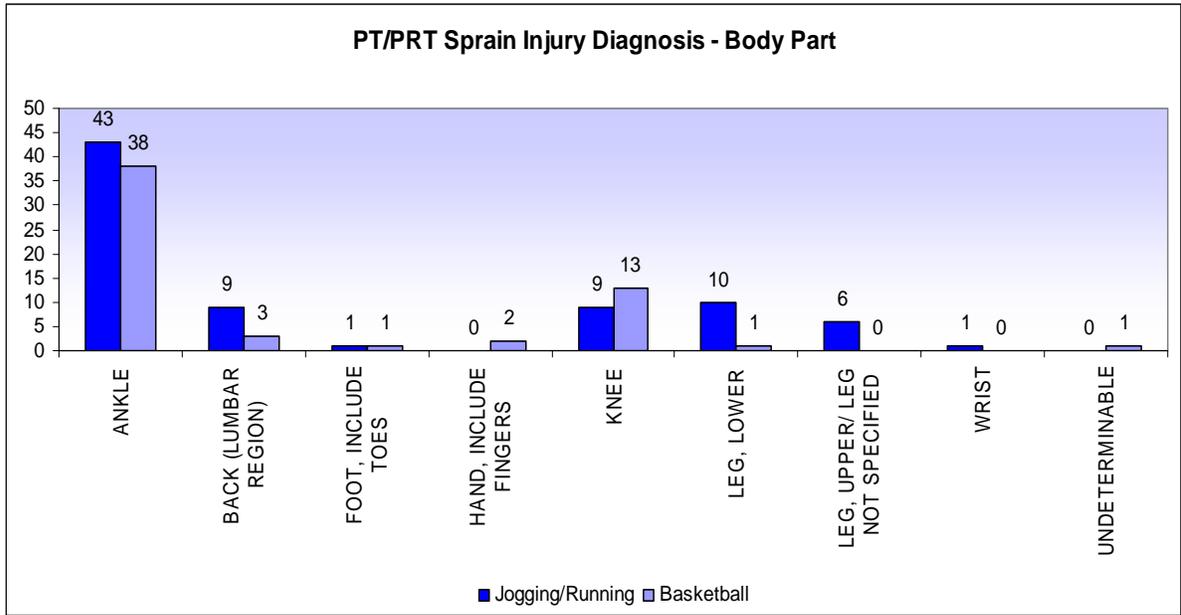


Figure 28

The data for sprain injury diagnosis is further broken down by body part. Figure 28 graphs the number of mishap instances for both jogging/running and basketball for each body part that are affected. For both activities, the ankle is the body part that is most affected.

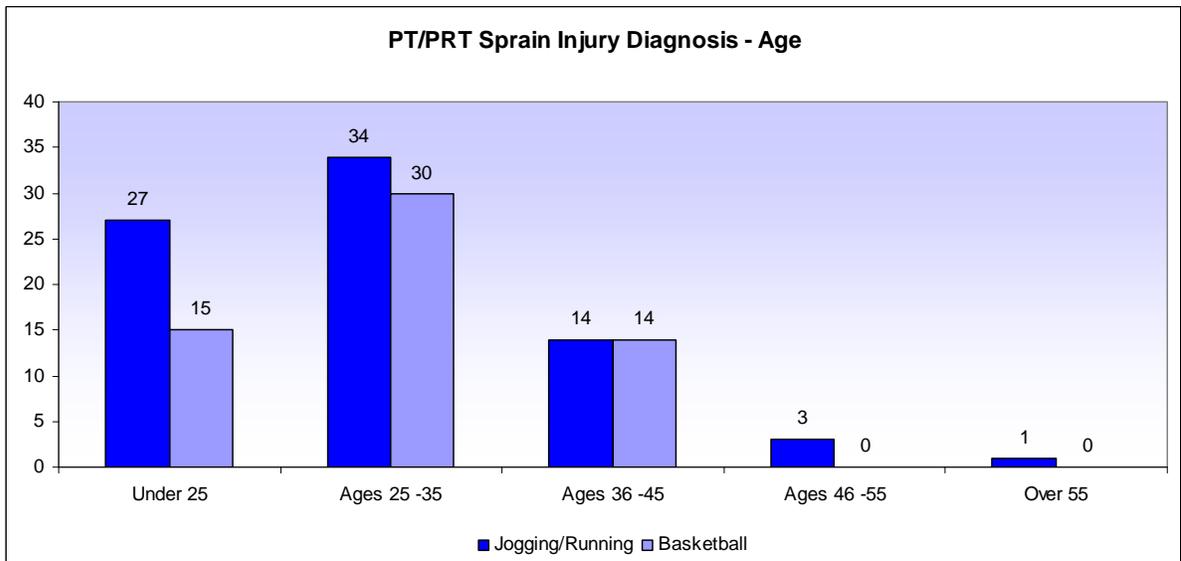


Figure 29

To perform a similar cascading analysis as was conducted for Class A/B mishap instances, Figure 29 graphs Class C PT/PRT mishap instance where a sprain is the injury diagnosis by age group. Both jogging/running and basketball data follow the same pattern with the greatest number of instances occurring in the 25-35 Age group, followed by instances occurring in the Under 25 age group.

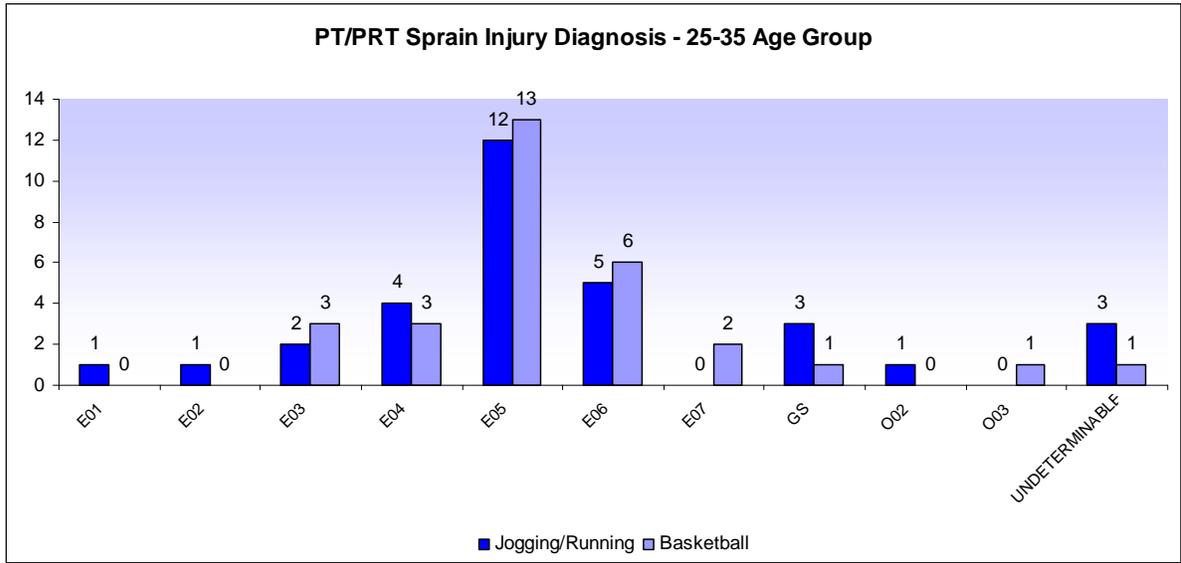


Figure 30

Figure 30 further breaks down the data from Figure 26 and graphs the number of instances in 25-35 Age group data by pay grades for the both jogging/running and basketball. Both activities follow a similar distribution, peaking at E05.

Top-Ten Job Performed Analysis

Table 6

ACTIVITY	INSTANCES
TRAINING, N. E. C.	219
BASKETBALL	117
JOGGING/RUNNING	88
PHYSICAL FITNESS PROGRAMS	52
FOOTBALL	36
RECREATION, N. E. C.	26
VOLLEYBALL	22
SOCCER	20
RACQUETBALL	13
BLANK	12
OTHER N. E. C.	12
SPORTS, N.E.C.	12

Table 7

REDEFINED ACTIVITY	INSTANCES
JOGGING/RUNNING	219
BASKETBALL	132
GENERAL	72
EXERCISE	43
FOOTBALL	43
WEIGHT LIFTING	34
VOLLEYBALL	29
SOCCER	24
RACQUETBALL	15
FRISBEE	12

In Table 6 and Table 7, the number of instances for each activity involved in the total number of mishaps for Class A, B and C is listed in rank order from the most instances to the least for the top ten. Table 6 activities are those defined in WESS and Table 7 activities are those that have been redefined using the brief and long narratives. The WESS data contain a number of options that are general in description i.e. TRAINING N.E.C., PHYSICAL FITNESS PROGRAMS, RECREATION, N.E.C., etc.. The N.E.C is an acronym for “not elsewhere coded”. When the activities are redefined, instances where jogging/running is the activity being performed rose to the top.

**Table 8**

REDEFINED ACTIVITY	INSTANCES
JOGGING/RUNNING	32
GENERAL	14
SWIMMING,INTENTIONAL	5
BASKETBALL	4
WEIGHT LIFTING	2
FOOTBALL	1
EXERCISE	1

Table 8 lists the number of instances for each activity involved in the total number of mishaps for Class A. Jogging/Running still remains the top activity. All the other activities are listed although not in the same order as in the Table 7 which lists the top ten. Swimming, intentional is the only activity that was not listed in the top ten. Class C mishaps top ten activities are the same as Table 6 and Table 7. See [Appendix J](#) for a full list of activities

### Group Sport Analysis

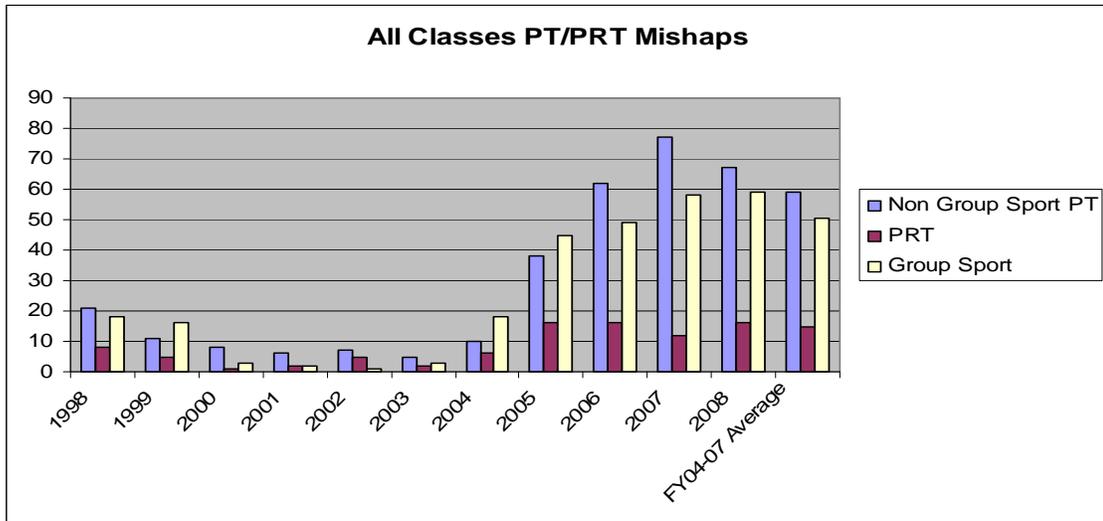
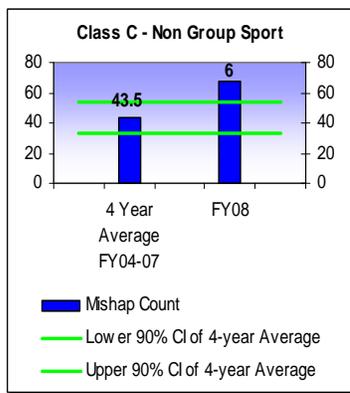
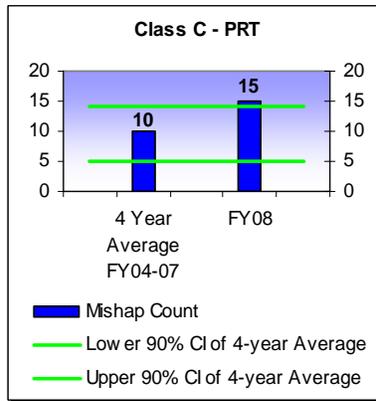


Figure 31

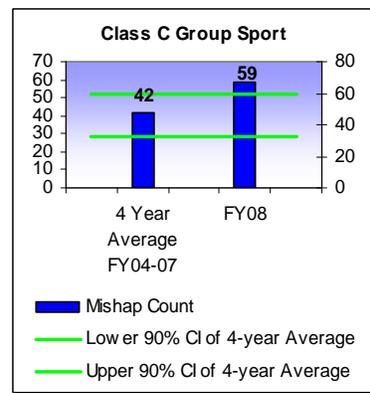
Figure 31 charts the number of PT/PRT mishaps by action category and the 4 year average. The majority of PT/PRT mishaps occur during individual and group physical training followed closely by PT/PRT mishaps occurring during group sports activities and finally PT/PRT mishaps that occur during physical fitness testing or physical fitness assessments.



Graph A



Graph B



Graph C

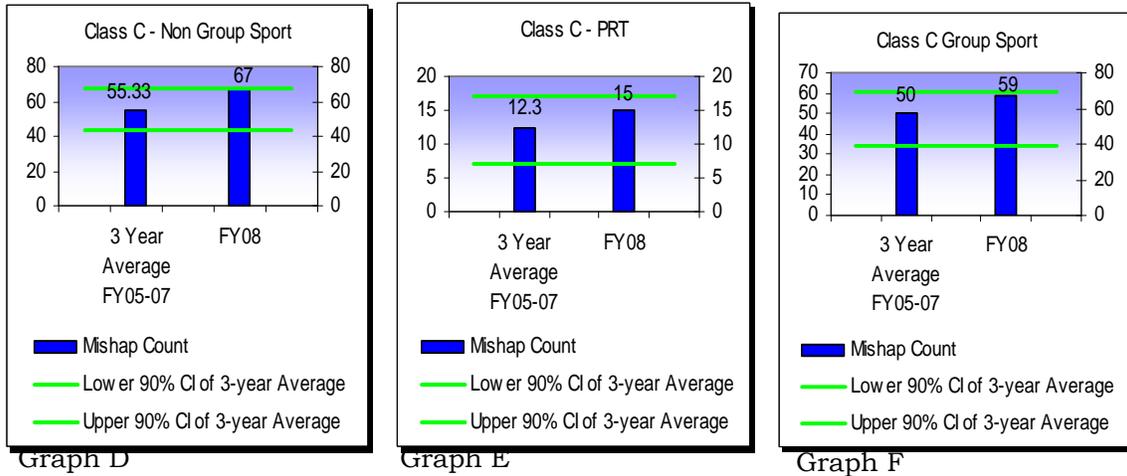


Figure 32

When using the Poisson distribution to evaluate the mishaps including all mishap classes, there is no statistical difference between the FY08 number of category mishaps and the 4-year average. See [Appendix K](#) Figure K-1. When the mishaps are separated by Class, Class C mishaps for PRT and Group Sport categories are statistically significantly higher than the 4 year averages. This can be seen in Figure 32, Graph A, Graph B and Graph C above which graphs the 4-year average and FY08 mishaps by categories along with the 90% confidence interval depicted by the green lines. However when FY04 is not included in the average, the FY08 mishaps count fall within the confidence interval ranges. See Figure 32, Graph D, E and F. This is happening due to WESS launching at the end of FY04 and not fully being utilized to collect Class C mishap data until FY05.

**Table 9**

Sport	INJURY	FY98-08 Total
BASKETBALL	SPRAIN	59
	FRACTURE	29
	TEAR, MUSCLE/LIGAMENT/O THER BODY PART	15
	DISLOCATION	7
	TRAUMA	5
FOOTBALL	SPRAIN	16
	FRACTURE	15
	TEAR, MUSCLE/LIGAMENT/O THER BODY PART	6
	OTHER	1
	LACERATION	1
VOLLEYBALL	SPRAIN	14
	FRACTURE	7
	TEAR, MUSCLE/LIGAMENT/O THER BODY PART	5
	CONCUSSION	1
	TRAUMA	1
SOCCER	FRACTURE	12
	SPRAIN	8
	CONTUSION	1
	STRETCHING	1
	TRAUMA WOUND, OPEN	1
RACQUETBALL	SPRAIN	5
	FRACTURE	2
	OTHER	2
	TEAR, MUSCLE/LIGAMENT/O THER BODY PART	2
	CONCUSSION	1
	INJURY(IES), MULTIPLE TYPES	1
	STRAIN	1

**Table 10**

Sport	Injured Body Part	FY98-08 Totals
BASKETBALL	ANKLE	55
	KNEE	24
	HAND, INCLUDE FINGERS	12
FOOTBALL	KNEE	12
	ANKLE	7
	LEG, LOWER	5
VOLLEYBALL	ANKLE	11
	LEG, LOWER	7
	KNEE	4
SOCCER	ANKLE	8
	LEG, LOWER	6
	GROIN	2
RACQUETBALL	LEG, LOWER	4
	EYE	3
	LEG, UPPER/ LEG NOT SPECIFIED	2

In an effort to further analyze sport categorized Class C PT/PRT mishaps, Table 9 lists the top five sport activities and the top five injuries diagnosed in each sport. Basketball tops the list with 126 mishaps. See [Appendix K](#) Table I-1 and Table I-2 for complete lists. Table 10 lists the top three injured body part by the top five sports. Except for racquetball, the ankle is in the first or second position. An injury to the ankle accounts for over a third of the overall Class C PT/PRT mishaps that occur while playing basketball.

**Table 11**

Activity	FY98-08 Totals
JOGGING/RUNNING	131
EXERCISE	38
WEIGHT LIFTING	32
WALKING/STEPPING	9
ITE	8

Table 11 lists the top 5 activities performed in the Class C PT/PRT mishaps categorized as Non-Group Sport. The category also includes 47 mishaps where the activity is labeled as general which is a broad-spectrum label. The general activity is used when the precise activity could not be determined from the narrative.

**Table 12**

Activity	Diagnoses	FY98-08 Totals
JOGGING/RUNNING	SPRAIN	67
	FRACTURE	22
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	11
	INJURY, HEAT	8
	STRAIN	5
EXERCISE	SPRAIN	16
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	8
	FRACTURE	6
	BITE	2
	CONCUSSION	2
WEIGHT LIFTING	SPRAIN	16
	FRACTURE	3
	STRAIN	3
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	2
	TRAUMA	2
WALKING/STEPPING	FRACTURE	4
	SPRAIN	2
	BLISTER	1
	INJURY, HEAT	1
ITE	SPRAIN	4
	DISLOCATION	1
	UNCONSCIOUSNESS	1
	INJURY, HEAT	1

**Table 13**

Activity	Body Part	FY98-08 Totals
JOGGING/RUNNING	ANKLE	51
	KNEE	14
	LEG, LOWER	14
	TOTAL BODY	14
EXERCISE	BACK (LUMBAR REGION)	8
	SHOULDER	7
	ARM, UPPER/ARM NOT SPECIFIED	3
WEIGHT LIFTING	BACK (LUMBAR REGION)	12
	SHOULDER	4
	HAND, INCLUDE FINGERS	3
WALKING/STEPPING	FOOT, INCLUDE TOES	2
	HAND, INCLUDE FINGERS	2
	BACK (LUMBAR REGION)	1
ITE	KNEE	2
	ANKLE	1
	BACK (LUMBAR REGION)	1
	CHEST	1
	LEG, LOWER	1

Continuing with the same type of analysis as for Group Sport categorized mishaps, Table 12 list lists the top five non group sport activities and the top five injuries diagnoses in each activity. Sprain and fracture injuries are in 4 out of the five top activities. Table 13 lists the top three injured body part by the top five activities. The injury diagnosis of a sprain is listed in top position for nearly all of the physical activities listed. In the one that it is not listed in the top position, it is placed in the second position. For the leading physical activity of jogging/running, ankle is the body part most affected. See [Appendix K](#) for a full listing.

**Table 14**

Activity	Body Part	FY98-08 Total
JOGGING/RUNNING	TOTAL BODY	11
	CHEST	9
	ANKLE	7
	KNEE	6
	LEG, LOWER	5
EXERCISE	BACK (LUMBAR REGION)	2
	HEART	1
	SHOULDER	1
BICYCLING	BODY SYSTEMS-SPECIFY IN NARRATIVE	1
MOTOR VEHICLE OPERATIONS	BODY SYSTEMS-SPECIFY IN NARRATIVE	1
SWIMMING,INTENTIONAL	HAND, INCLUDE FINGERS	1
VOLLEYBALL	KNEE	1

For PRT category, jogging/running is also listed as the top activity. PRT differs from non-group sport when comparing the body part affected. Table 14 lists the top body parts affected by activity. For jogging/running, total body is the body part with the most number of mishap instances. This is due to the fact that number injury diagnoses use “Total body” in the body part field. See [Appendix K](#) for a full listing.

### **Conclusions Recommendations**

The original focus of this study was to investigate if pre-existing conditions were a causal factor in PT/PRT mishaps. This proved to be very difficult to research from the information that could be obtained from WESS as well as from the safety investigation. Many of the reports in WESS concerning Class A mishaps seem to be initial reports with limited information in both

the WESS data fields and the event narrative. The limited information also proved to be difficult when attempting trend analysis for Class A mishaps, requiring the data to be obtained from other sources. In addition to limited information in WESS, it proved to be difficult to obtain information not contained in WESS. Although some safety investigation files were able to be obtained, many Class A mishaps files were not found and no additional data could be obtained without going outside of the Naval Safety Center.

The FY08 rate for PT/PRT mishaps is 38.98 mishaps per 100,000 personnel per year. There has been no significant change in the PT/PRT mishaps rate when it is compared to the 3-year average.

Although there has been no rate change in the PT/PRT mishaps, there are trends evident. PT/PRT mishaps occurring before 0900 and between 1400 and 1700 are more prevalent than the other time groups as well as PT/PRT mishaps occurring more often on Mondays and Wednesdays. These trends are not unexpected.

When examining the data for ages, the PT/PRT mishap instances involving sailors under the age of 25 in FY08 are statistically significantly higher than the 3-year average. This rise is attributed to Class C mishap instances. However when comparing the percentages of PT/PRT mishap instances by age groups to the percentages of the Navy population by the same age groups, PT/PRT percentages fall beneath the Navy population percentages. In fact, the percentages for PT/PRT mishap instances follow the same curve as the percentages for the Navy population except for mishap instances involving sailors between the ages of 25 and 35 which peaks above the Navy population. This peak can be attributed to Class C mishap instances.

Another trend that becomes apparent when analyzing a 10-year period of data is infarctions as the leading injury diagnoses for Class A PT/PRT mishaps. When taking a closer look, it becomes apparent that jogging/running is the activity being conducted when the infarction occurs and that the largest number of these instances involves individuals between the ages of 25 and 35. For Class C mishaps the leading injury diagnosis is a sprain with the highest number occurring when the individual is jogging/running, followed closely by playing basketball. For both activities, the ankle is the most reported body part affected and the most instances involve sailors between the ages of 25-35.

In analyzing the data to determine the leading physical activity being performed when the mishap instance occurs, it became apparent that there were a number of descriptors in the WESS data that are too generalized to accurately determine the leading physical activity. In an effort to overcome the generalization, the physical activity for those mishap instances is

modified to the activity that is described in the event narratives. Prior to modification, the top physical activity is "TRAINING, N.E.C". After the modification, the leading activity is jogging/running. Jogging/running remains the top physical activity even when the mishap instances are divided into different mishap class types. Even with the modification, there are still 72 mishap instances where the physical activity could not be determined from reading the event narrative.

In an effort to ascertain if more PT/PRT mishaps could be attributed to group related sports, individual/group condition programs, or physical fitness tests/assessments, the mishaps are categorized accordingly. When comparing 3-year averages among the categories, there are no statistically significant differences. In the sport group category, basketball is the leading sport and the leading injury is an ankle sprain. In the groups of individual/group conditioning program and physical fitness test/assessment, jogging/running is the leading activity and the leading injury is an ankle sprain. Jogging/running is also the leading activity for the PRT category but the total body is the leading body part affected. This is due to the fact that a number of diagnoses use total body in the injured body part field.

When evaluating mishaps over a 5-year period ranging from FY04-08, the reporting command with the largest number of mishaps is Recruit Training Command Great Lake, Illinois. As the data is broken out by mishap class, Recruit Training Command Great Lake Illinois remains at the top of the list for Class C mishaps. However when looking at the data for Class A mishaps over the same 5-year period, there is a one-to-one relationship in regards to mishap and reporting command.

Finally, the 10-year range of data is analyzed to reveal if there are any trends in relation to rank and grade. Beginning with FY04 to FY08 the mishaps remain relatively consistent for both the Enlisted and Officers corps. The data is then broken out by pay grade and the average percentages of each pay grade for Class A and Class C mishaps is compared to the average percentages of Navy population by pay grade over the same 10-year period. The mishap data tends to follow the same trend curve as the Navy population except for the pay grades of E01, E06 and E07 which are above the Navy population percentages for both Class A and Class C. The leading diagnoses for Class A and the Class C mishap types are again the same as above, infarction for Class A and sprain for Class C. Further analysis uncovers that the number of mishap instances of infarctions involving an E06 is statistically higher than average of the other pay grades. There are no statistical differences from the averages of the other pay grades for E01 and E07.

## **Recommendations**

This study has uncovered numerous trends in an effort to bring to light possible areas of focus to improve safety. Recommend the same analysis be conducted for the Marine Corps.

During this study, it proved to be difficult to perform trend analysis due to the use of multiple generalized data descriptors in the drop down menus in WESS. Recommend a review of these generalized data descriptors in an effort to eliminate or narrow down the number used.

In addition to the generalized data descriptors, a number of WESS data fields are left blank. Recommend mishaps be reviewed to ensure WESS data fields needed for analysis are not be left blank.

### Appendix A

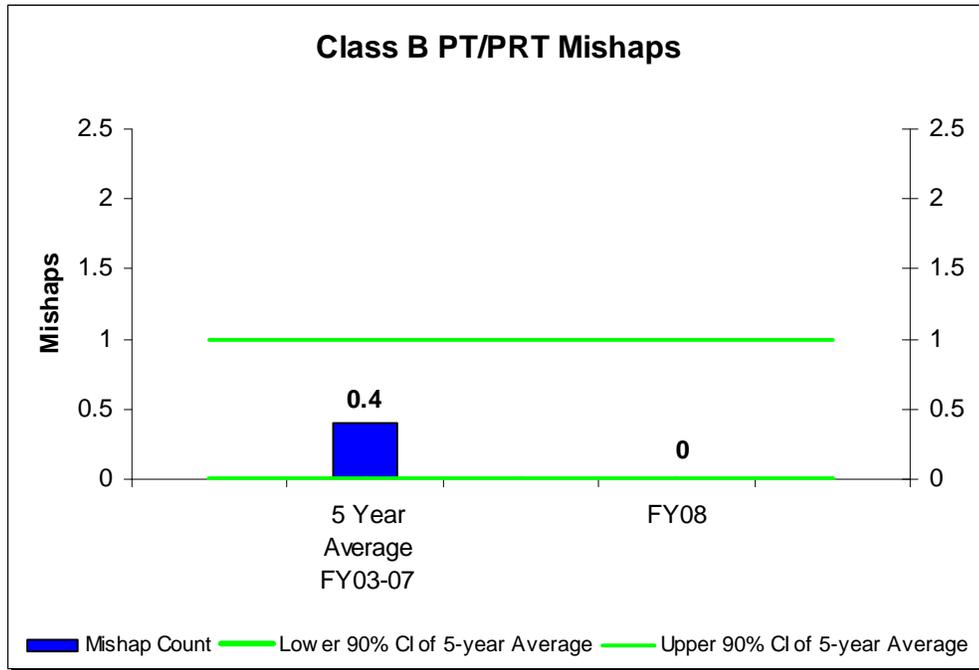


Figure A-1

The rate for Class B PT/PRT mishaps fell within the 90% confidence range indicating no statistically significant difference in the FY08 Class B PT/PRT mishap rate.

[Return to Discussion](#)

### Appendix B

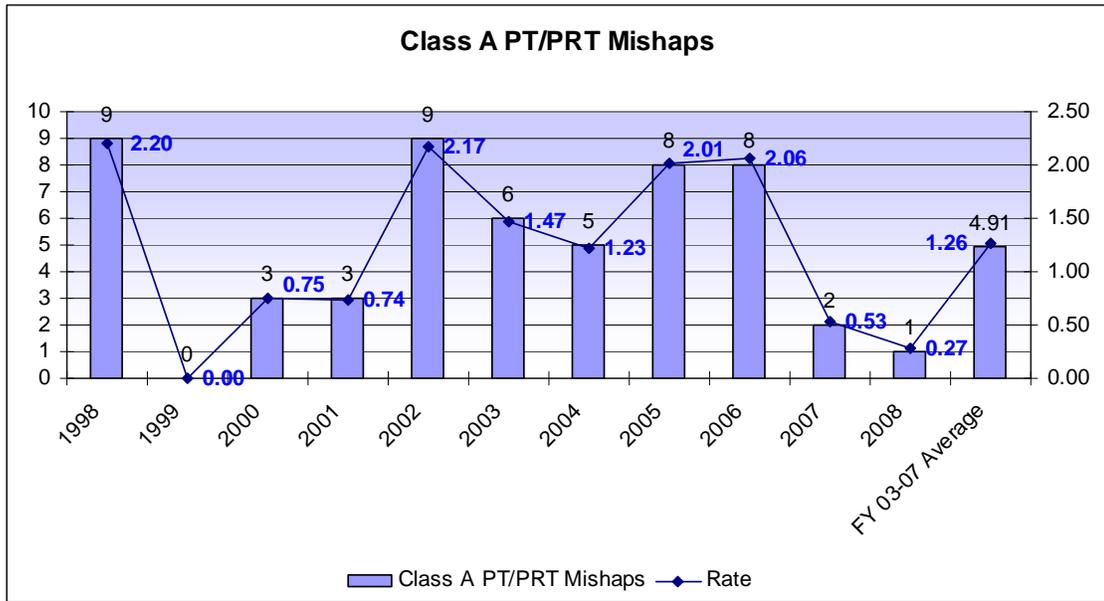


Figure B-1

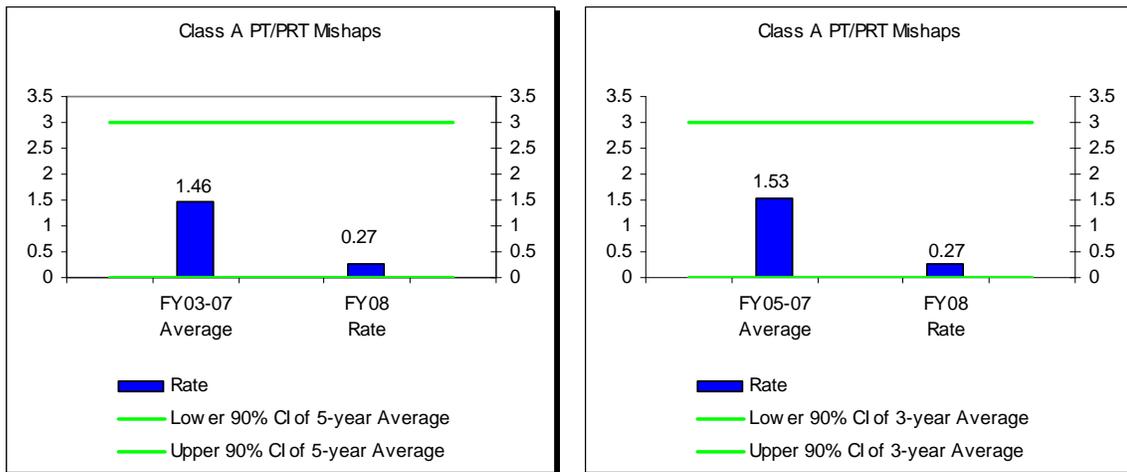


Figure B-2

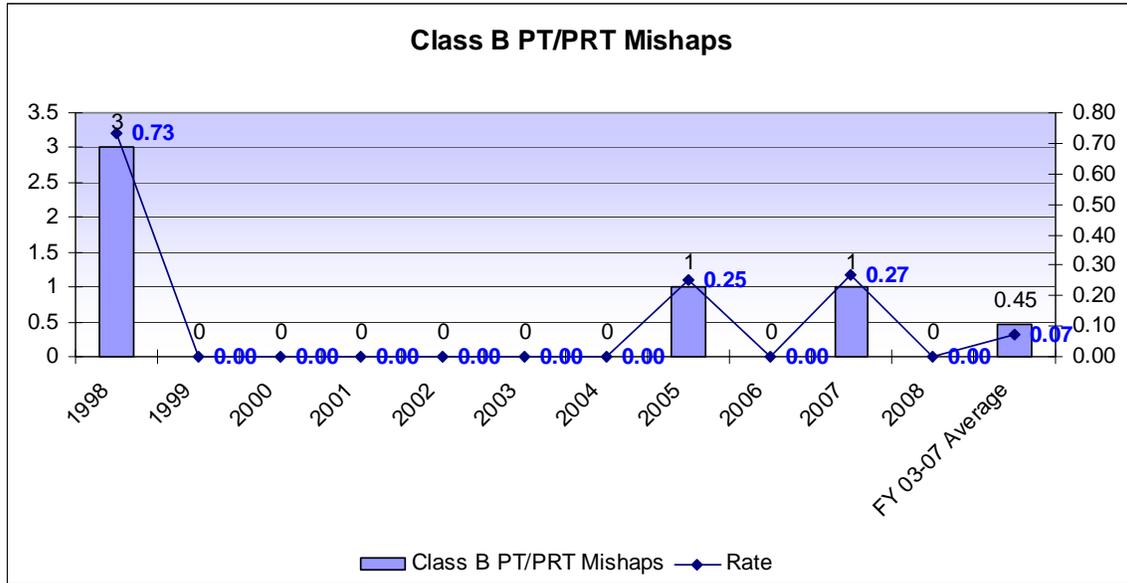


Figure B-3

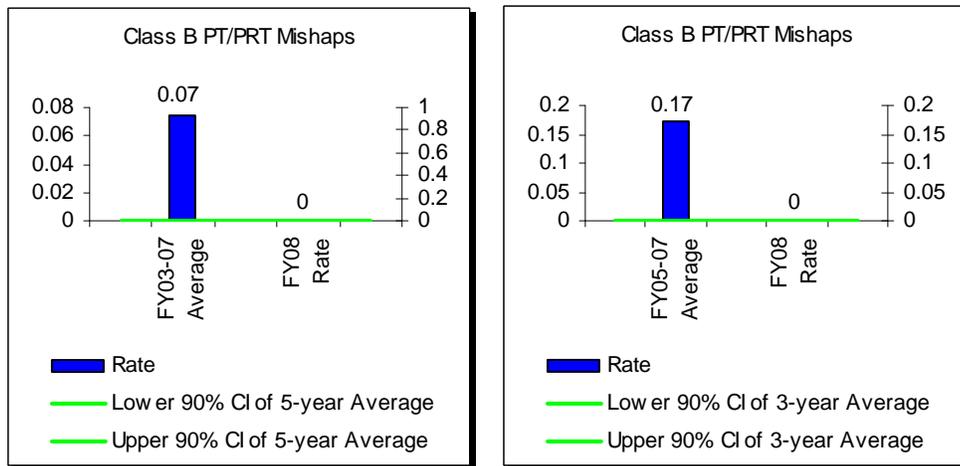


Figure B-4

[Return to Discussion](#)

### Appendix C

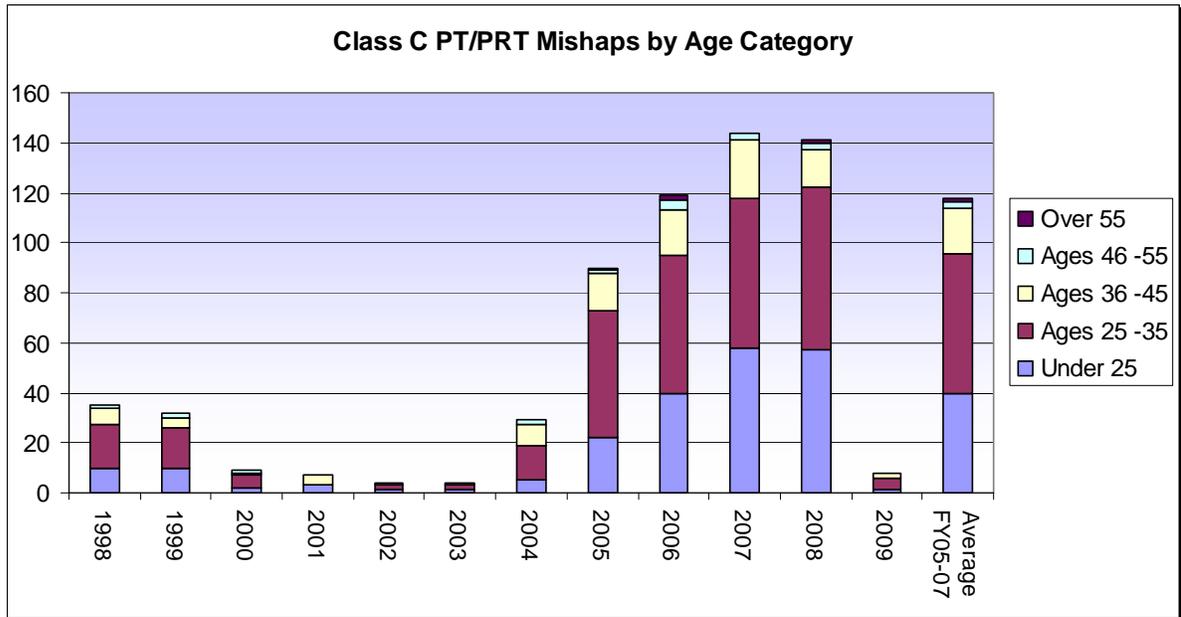


Figure C-1

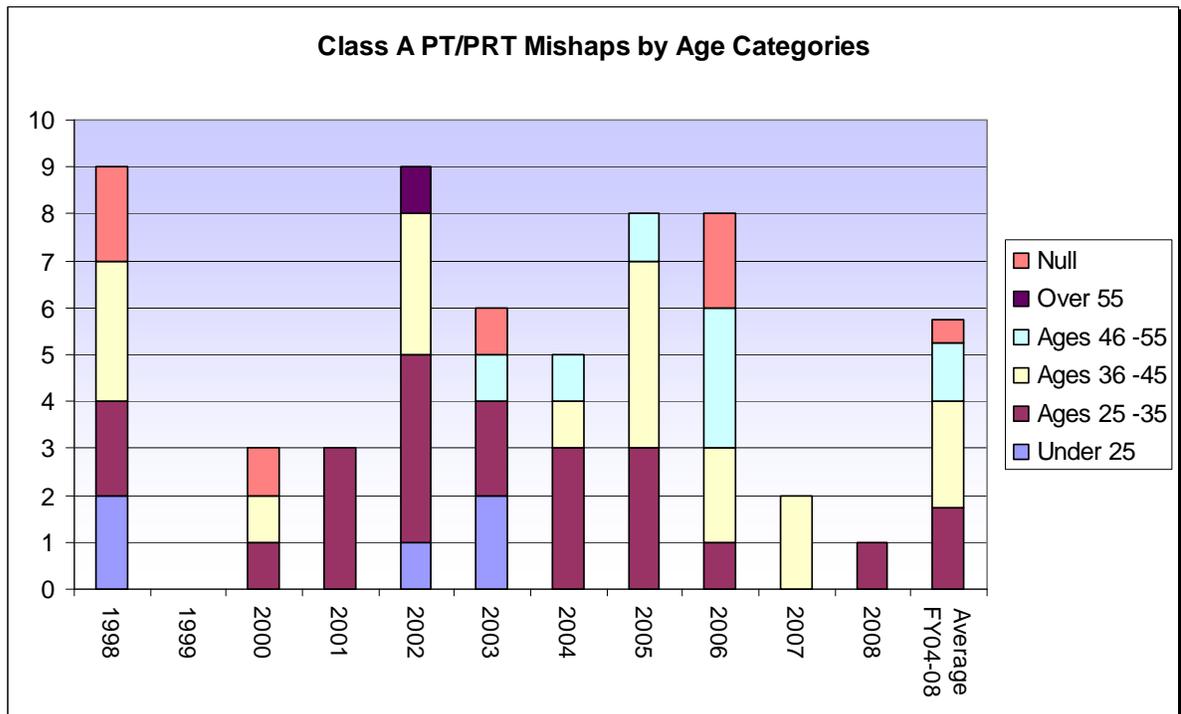


Figure C-2

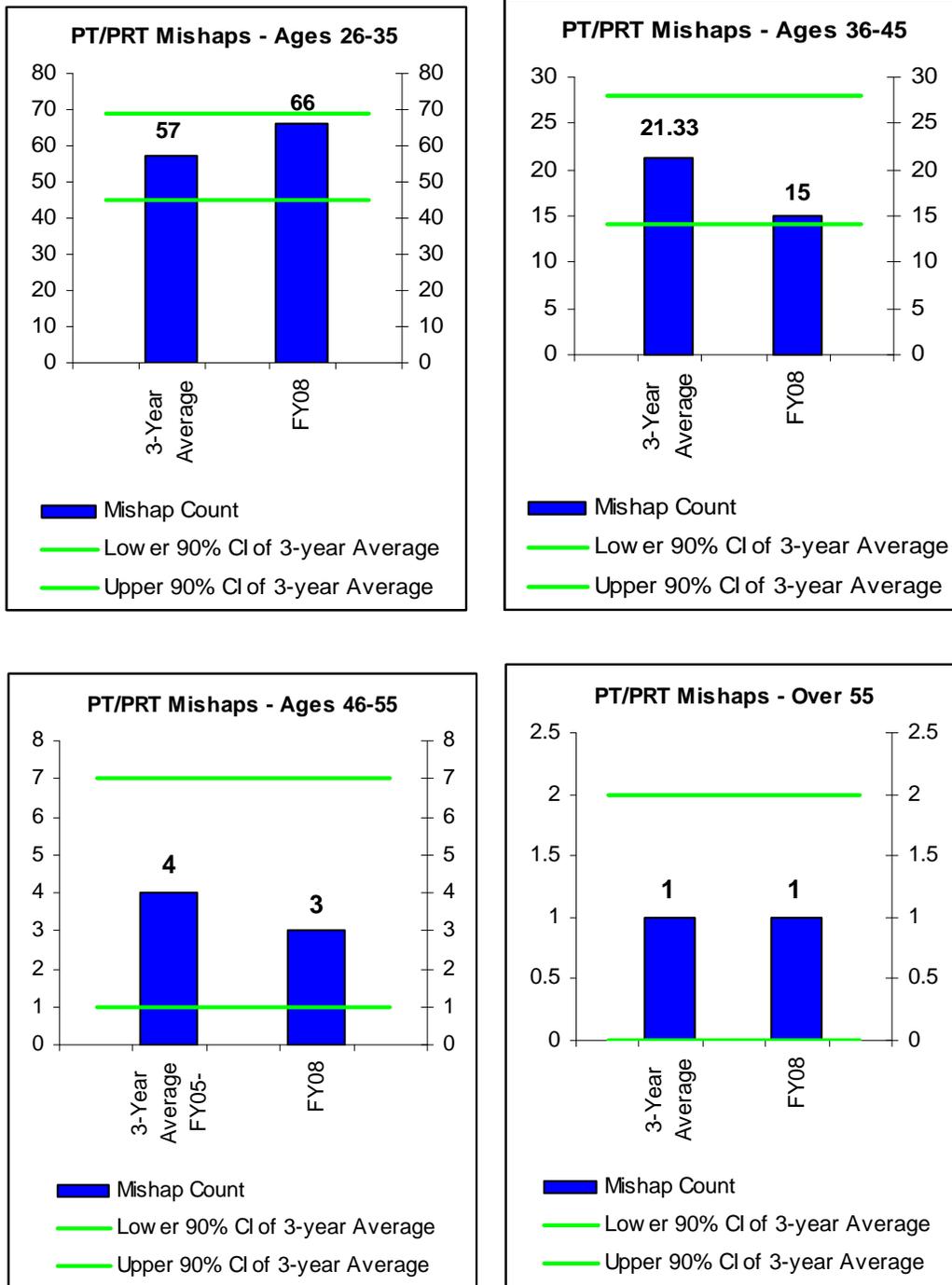


Figure C-3

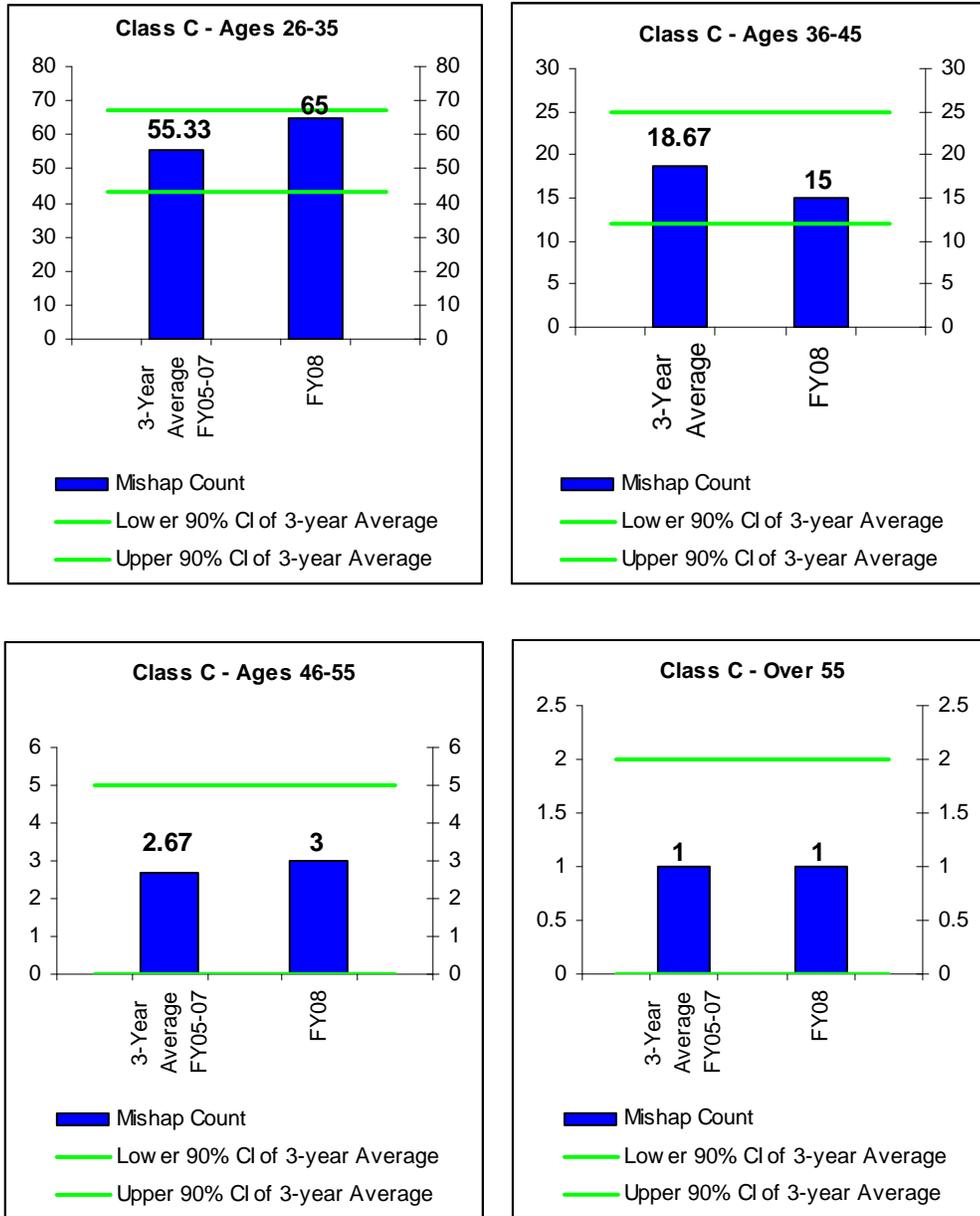


Figure C-4

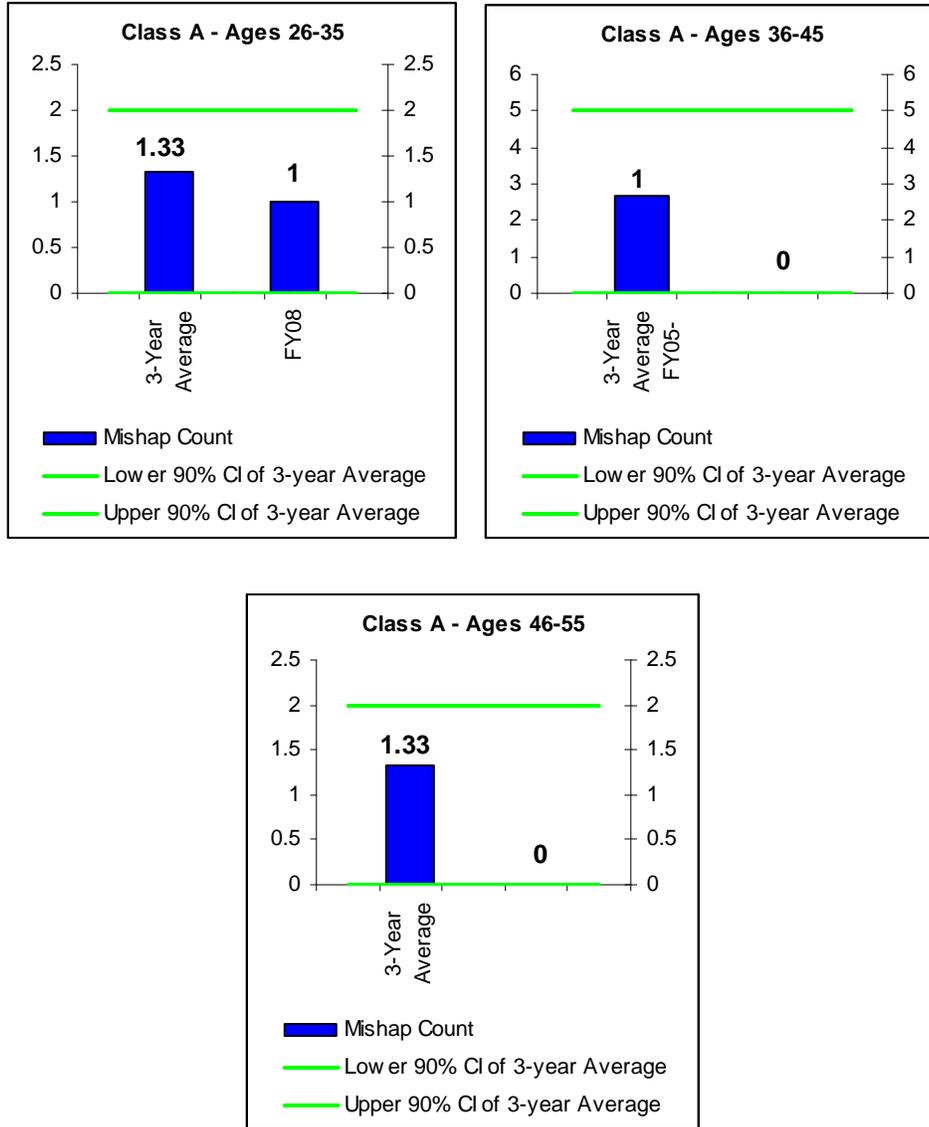


Figure C-5

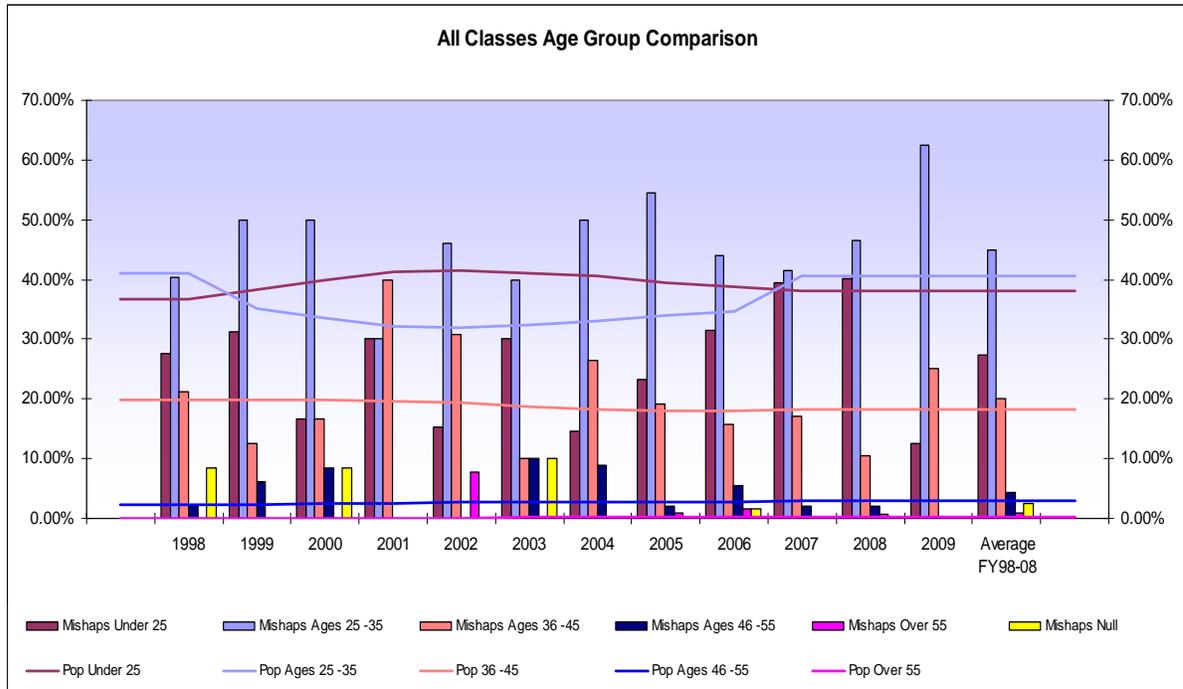


Figure C-6

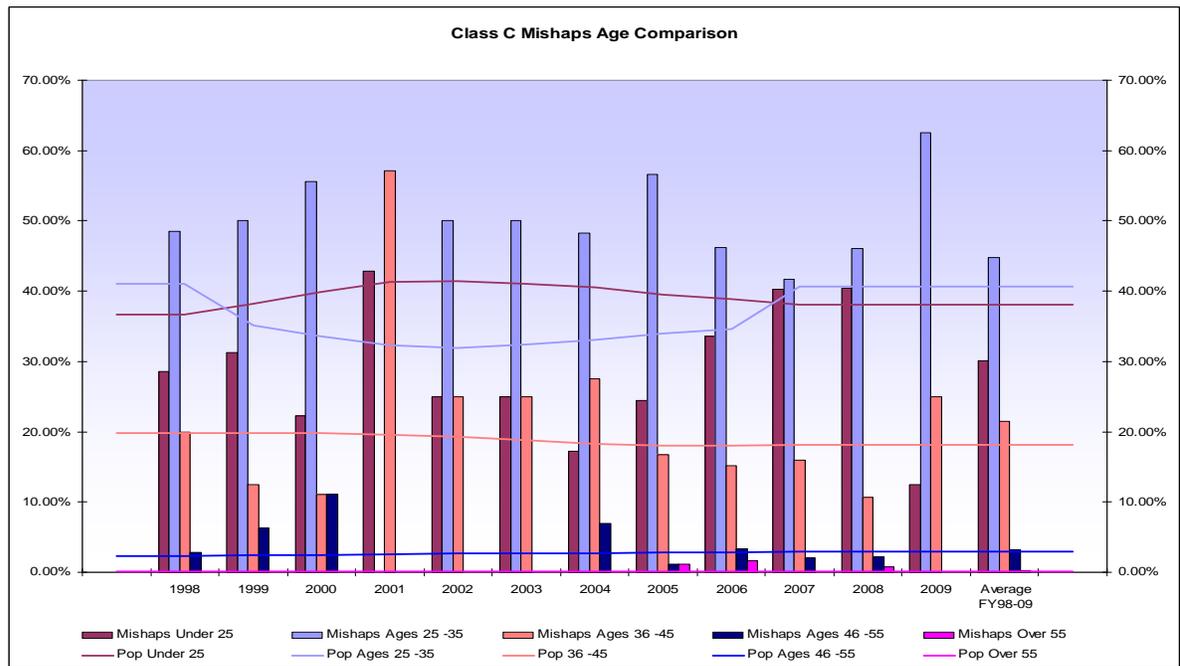


Figure C-7

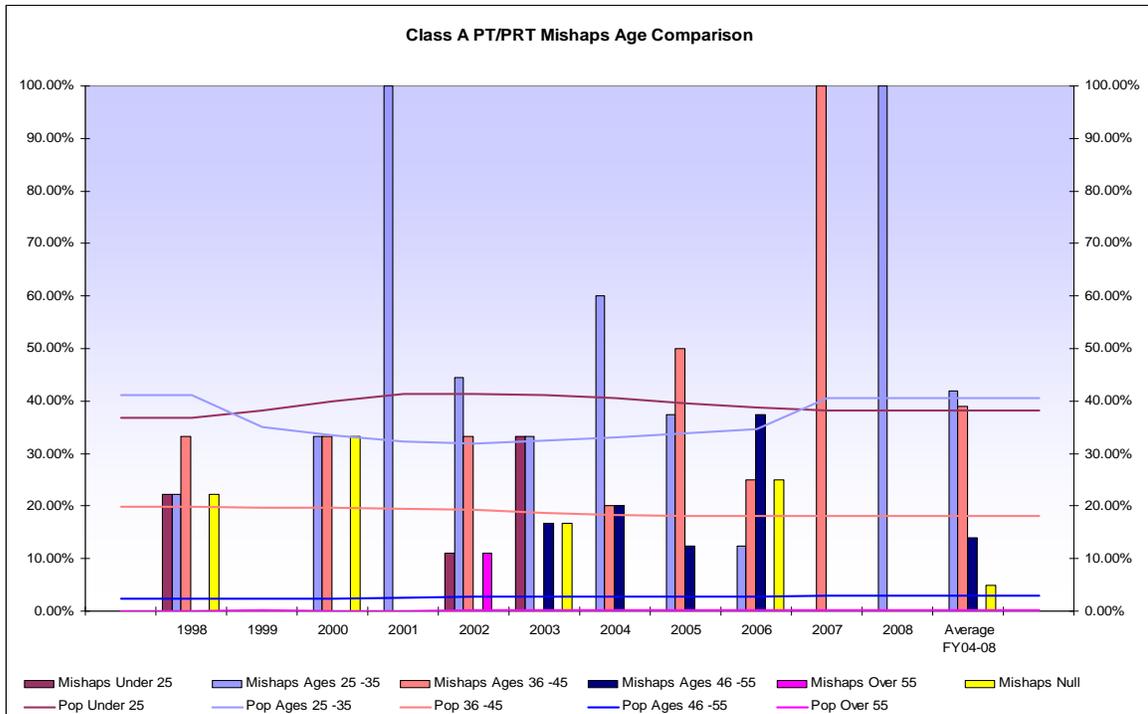


Figure C-8

[Return to Discussion](#)

### Appendix D

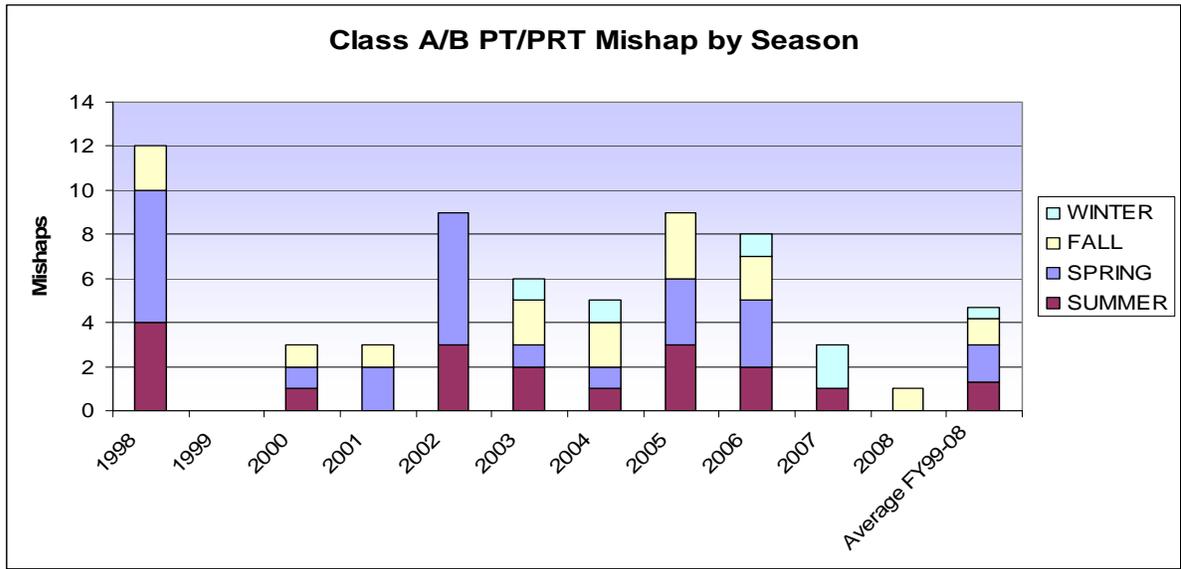


Figure D-1

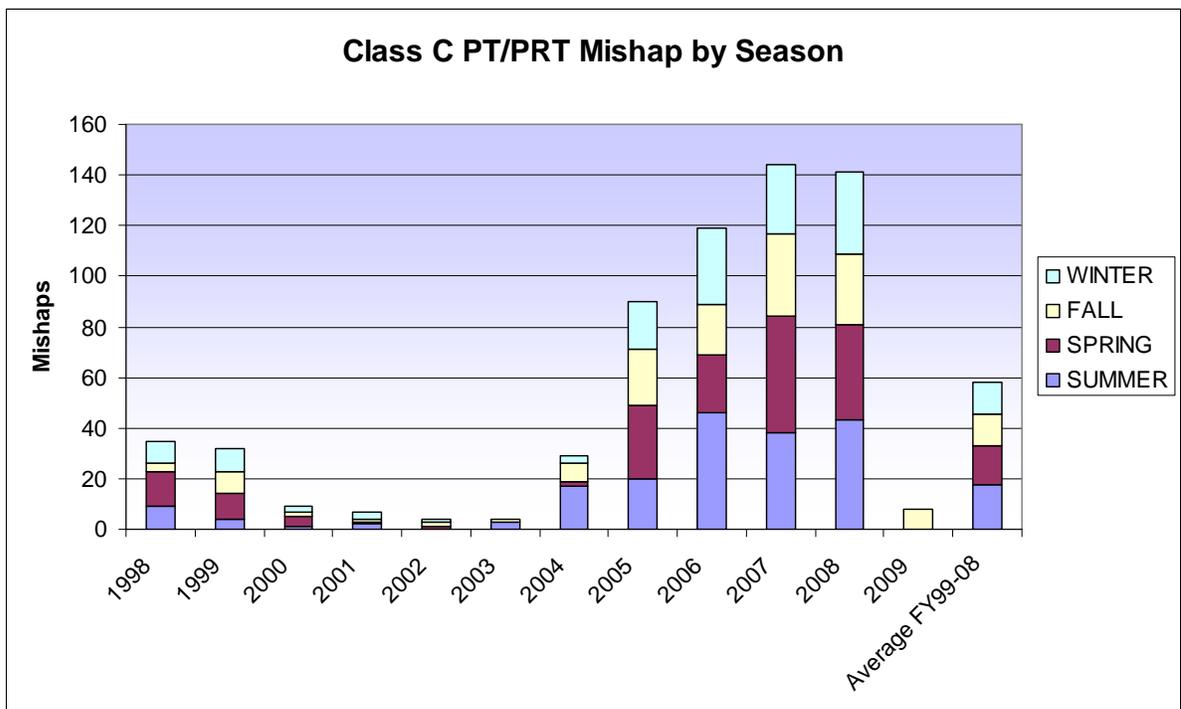


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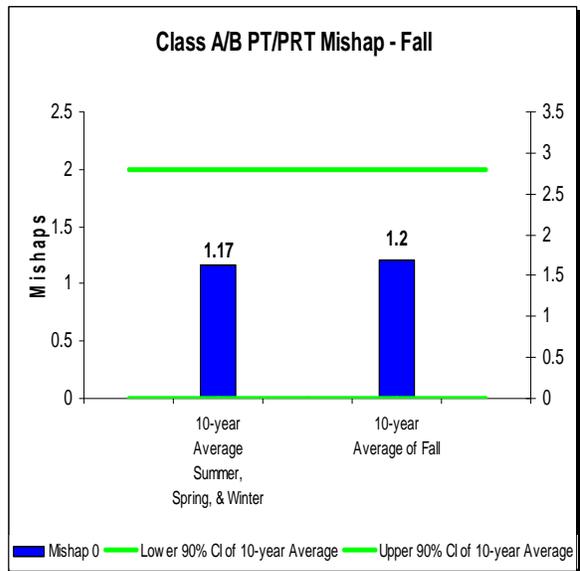
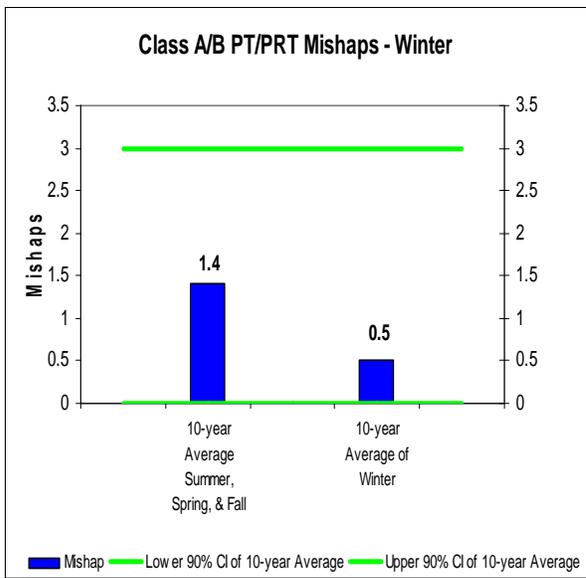
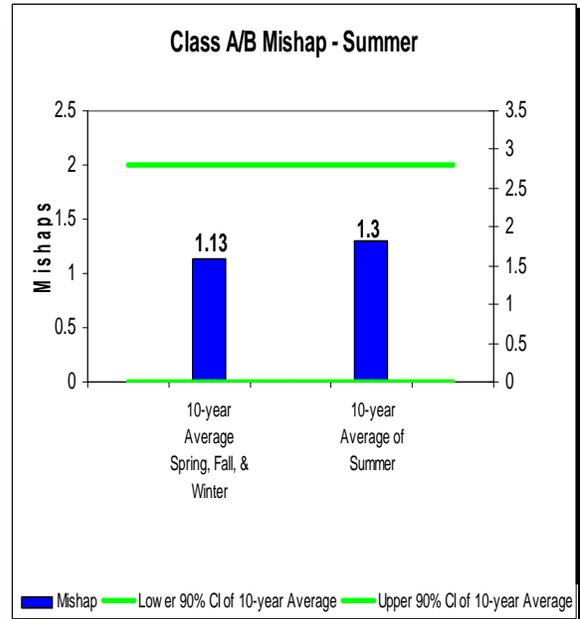
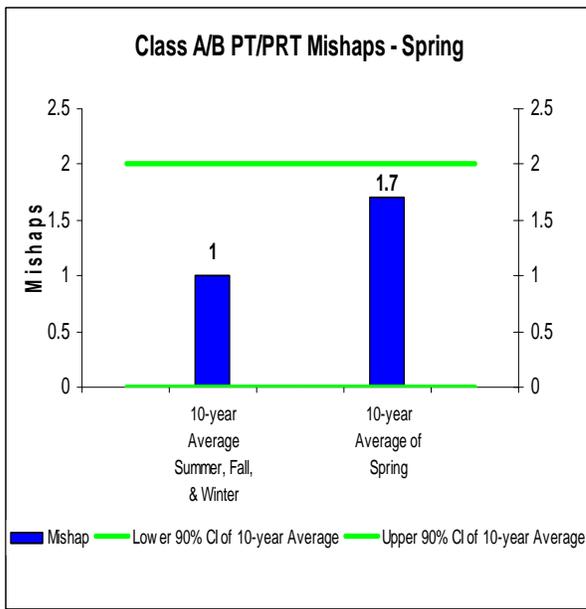


Figure D-3

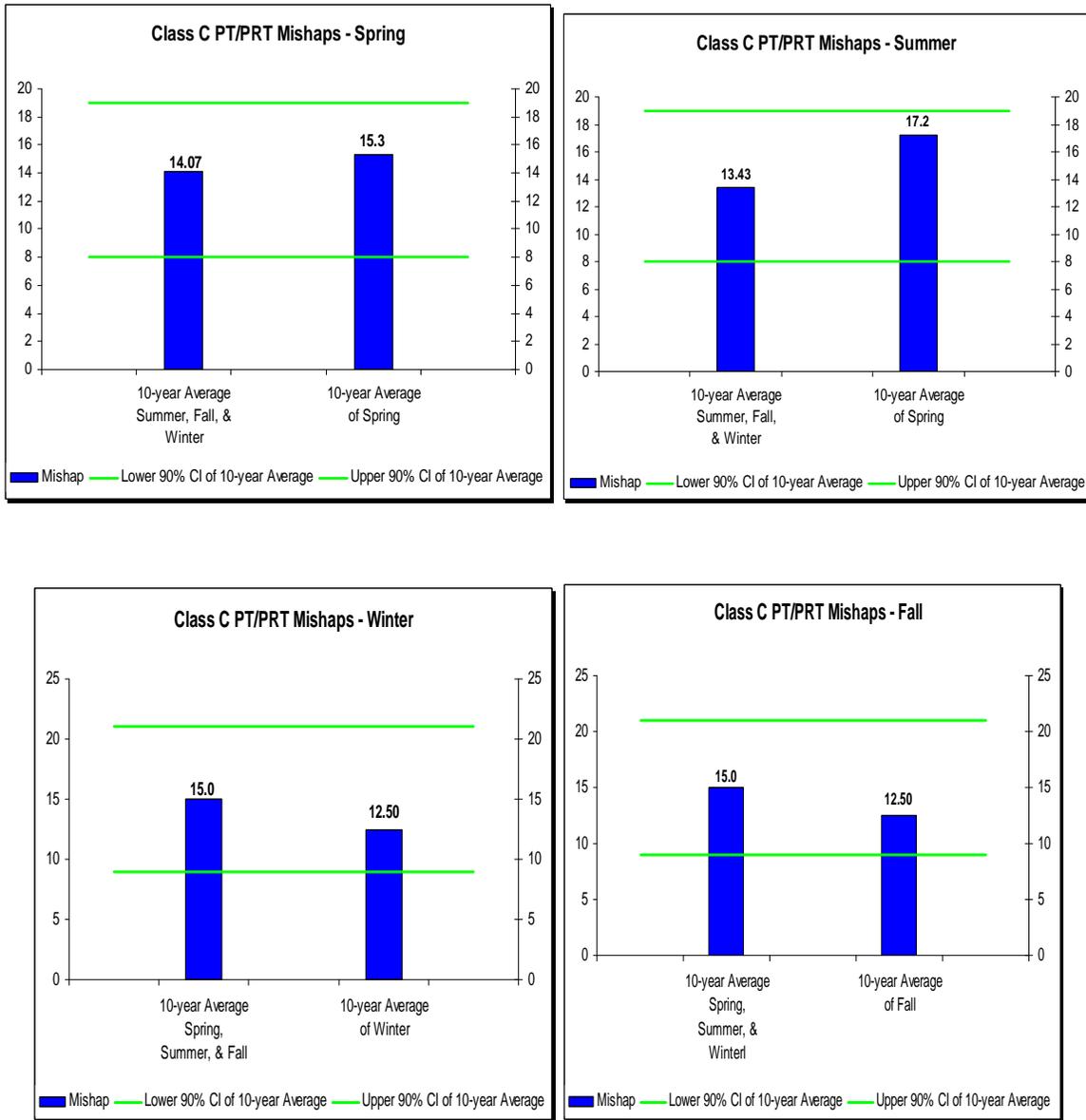


Figure D-4

[Return to Discussion](#)

### Appendix E

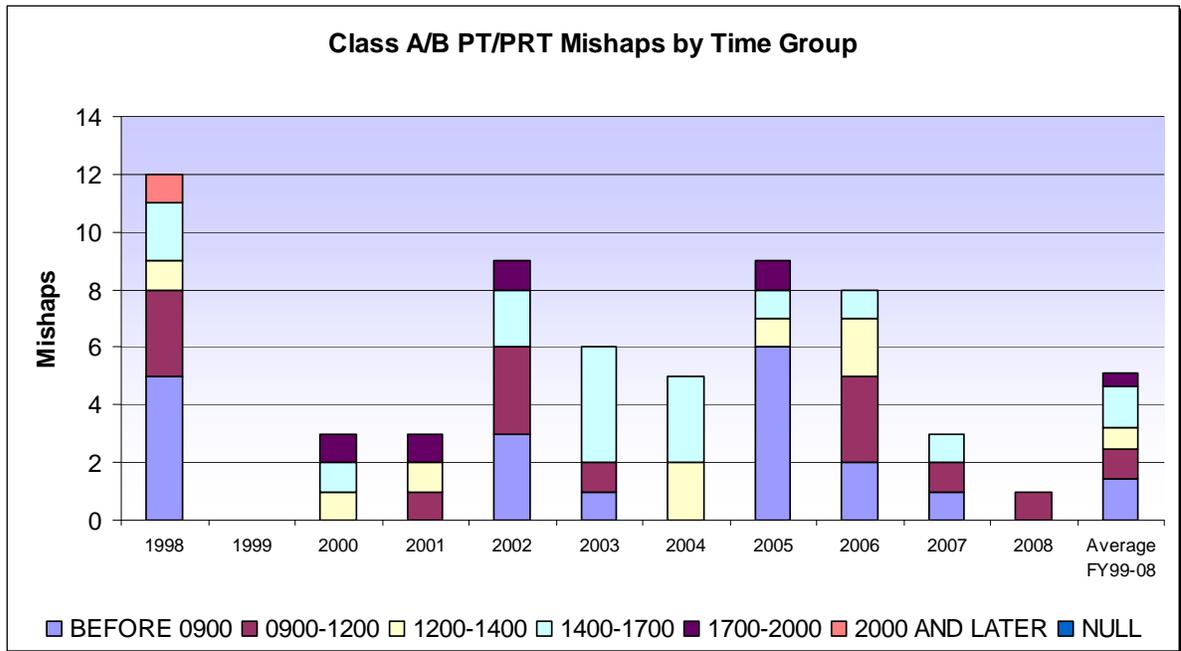


Figure E-1

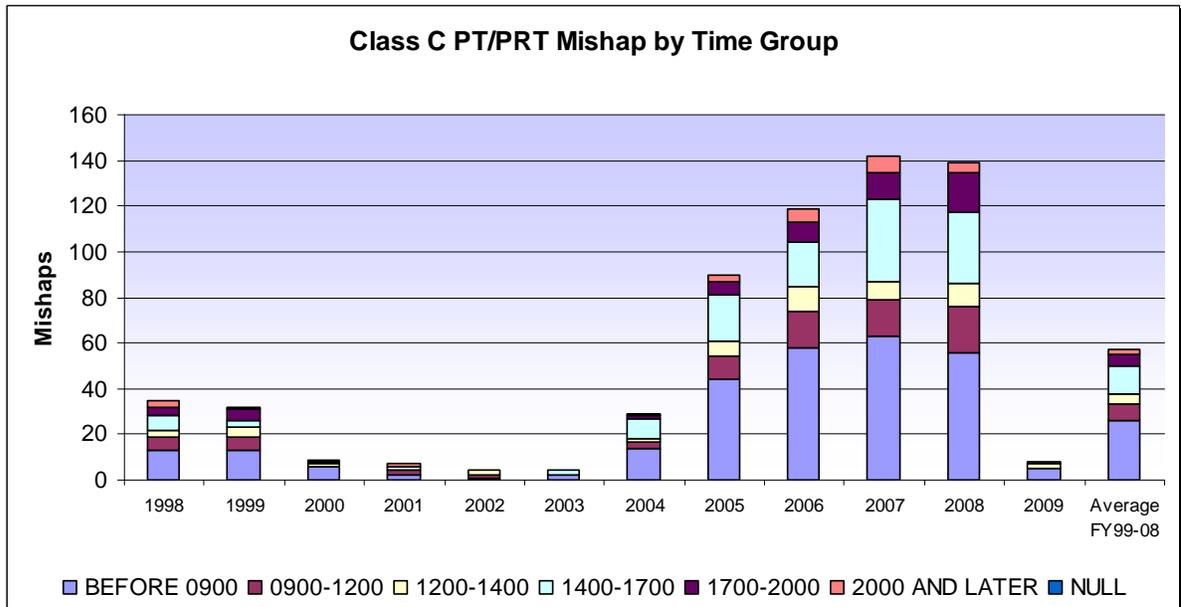


Figure E-2

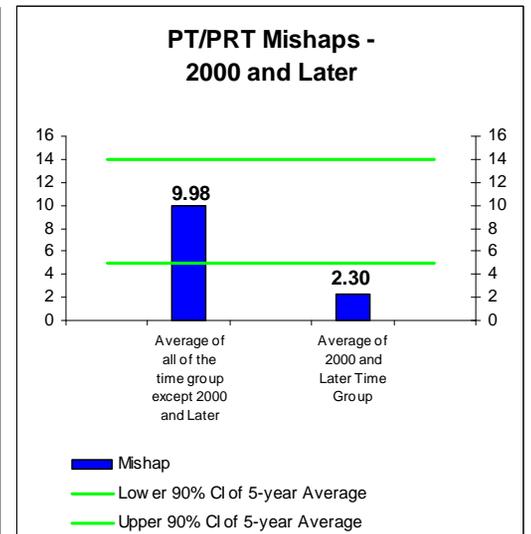
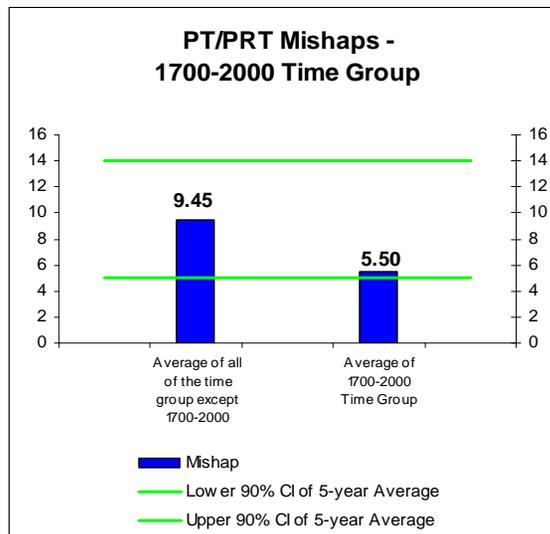
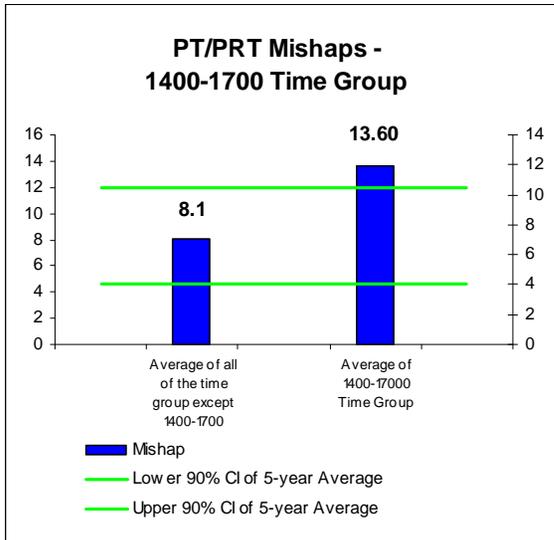
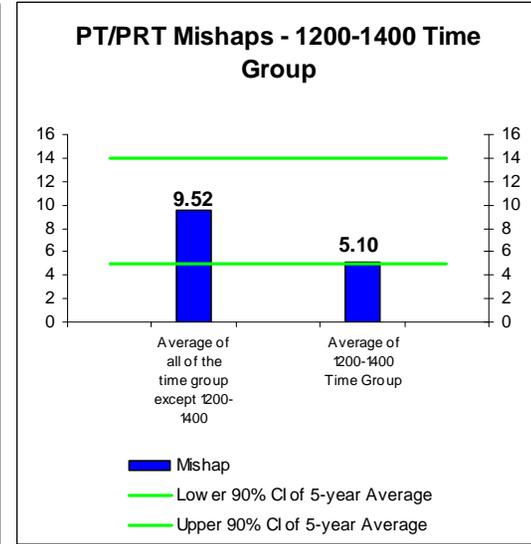
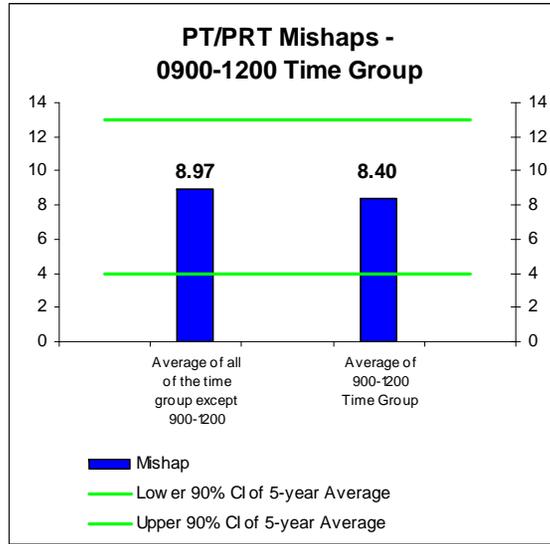
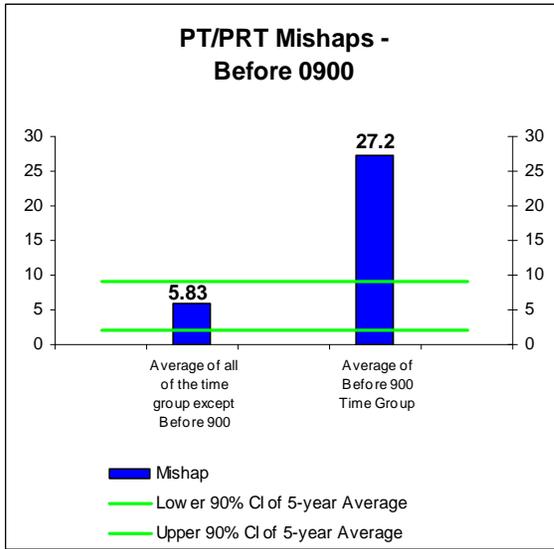


Figure E-3

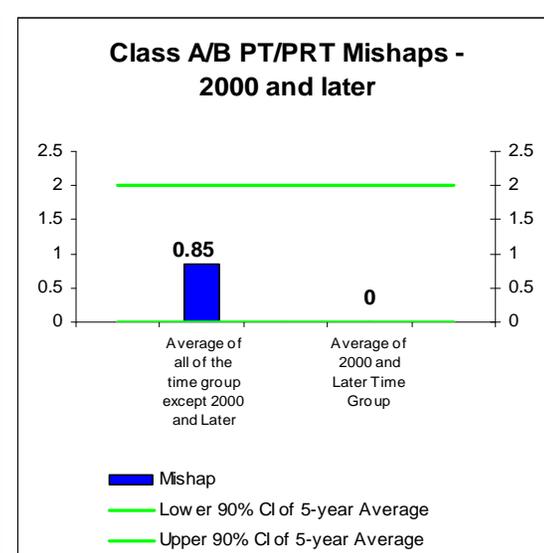
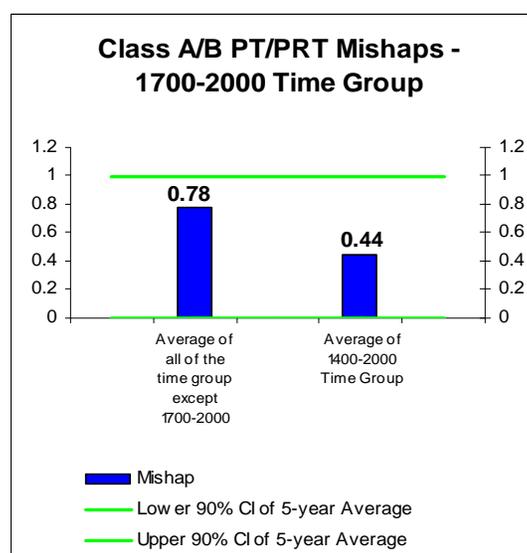
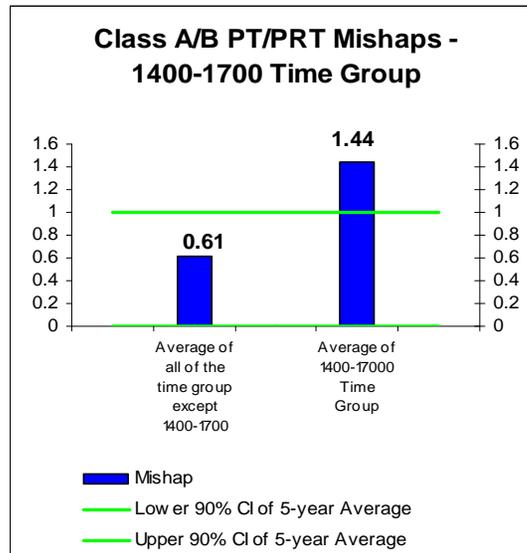
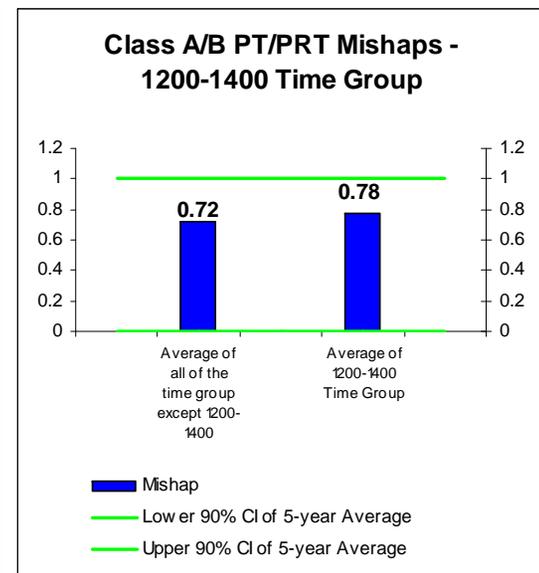
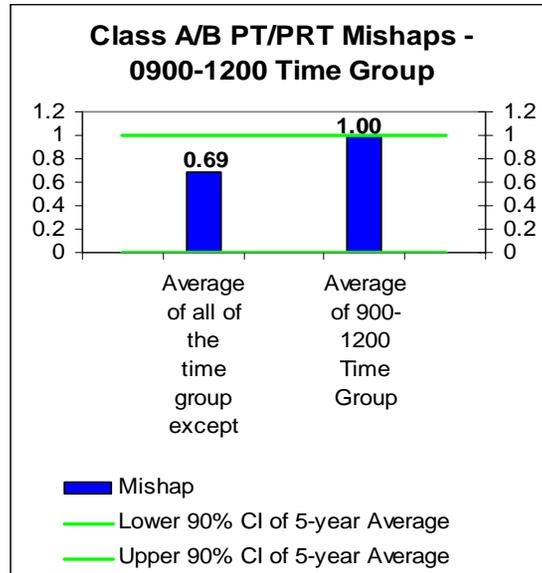
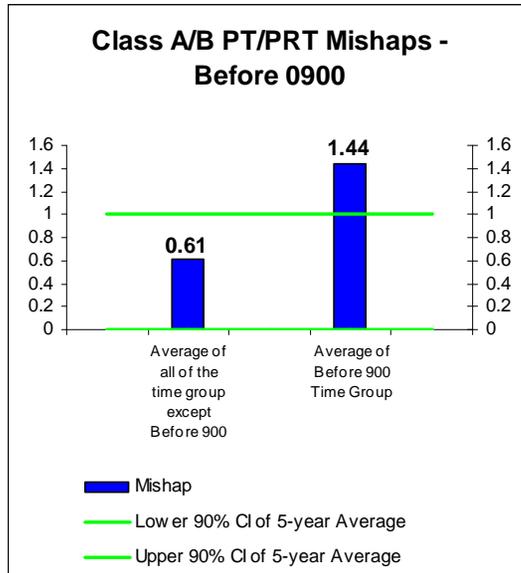


Figure E-4

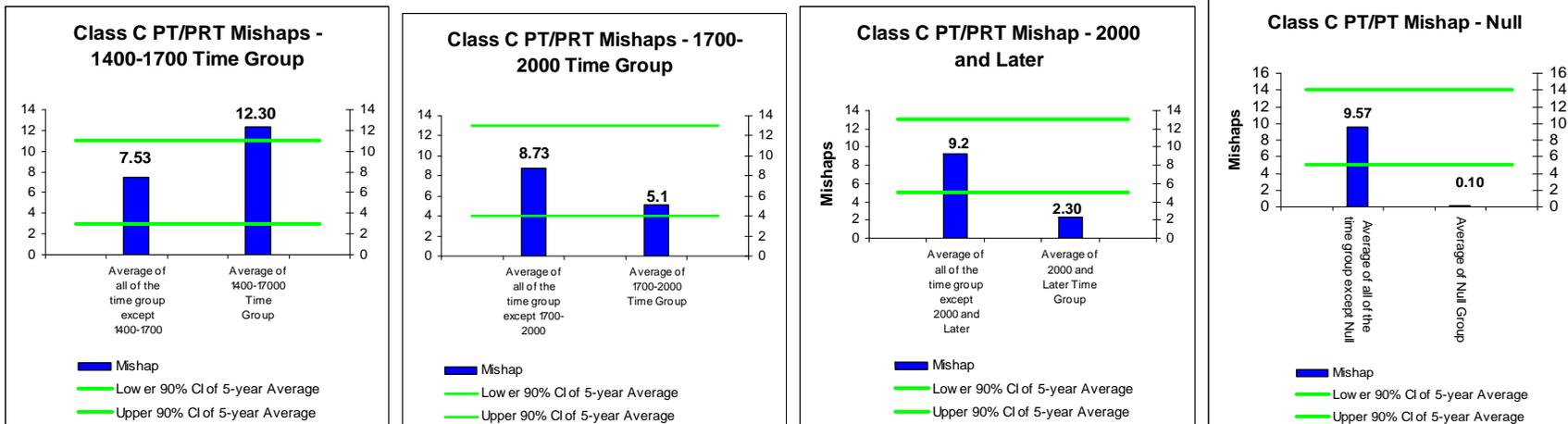
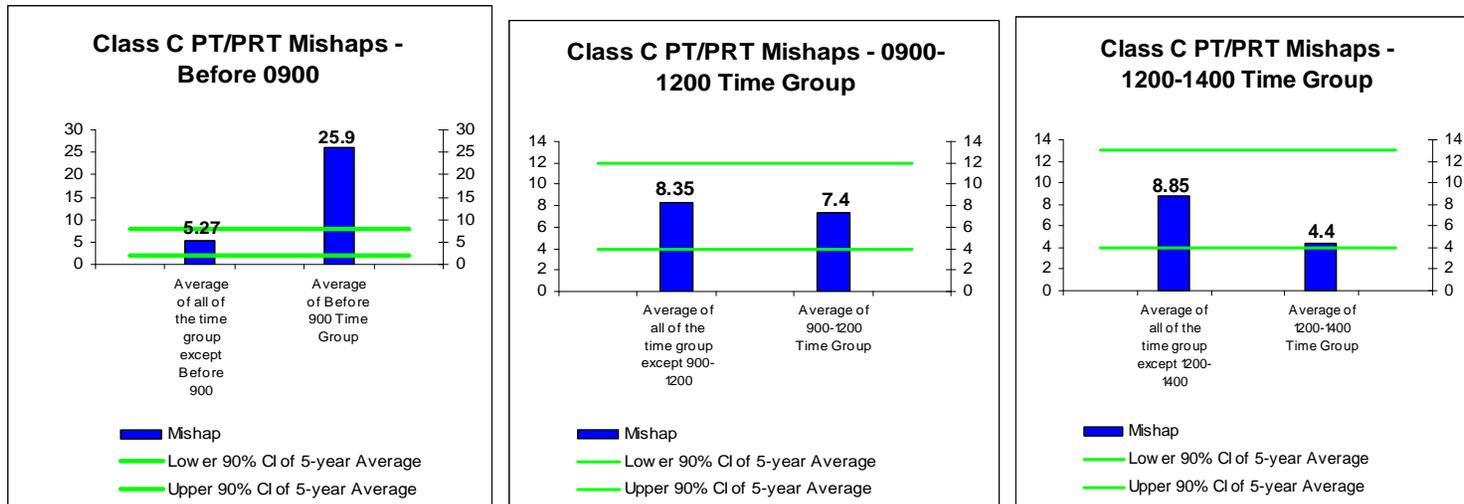


Figure E-5

[Return to Discussion](#)

**Appendix F**

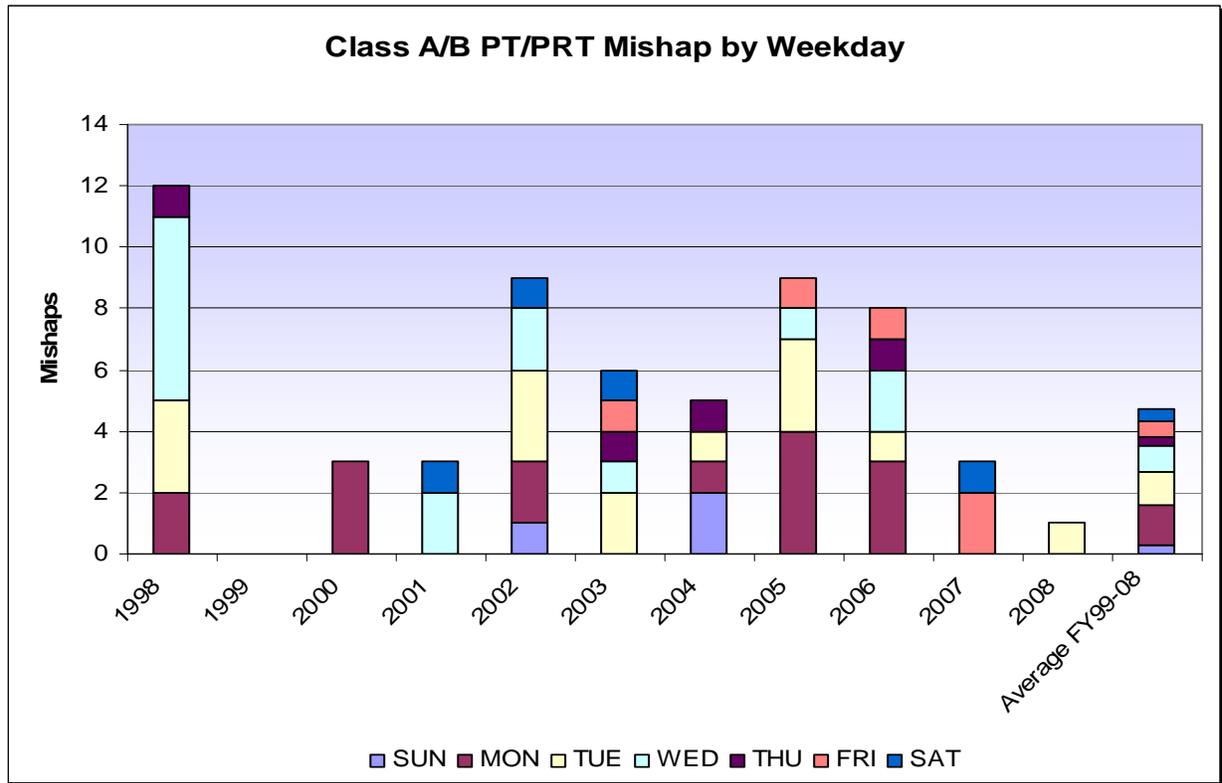


Figure F-1

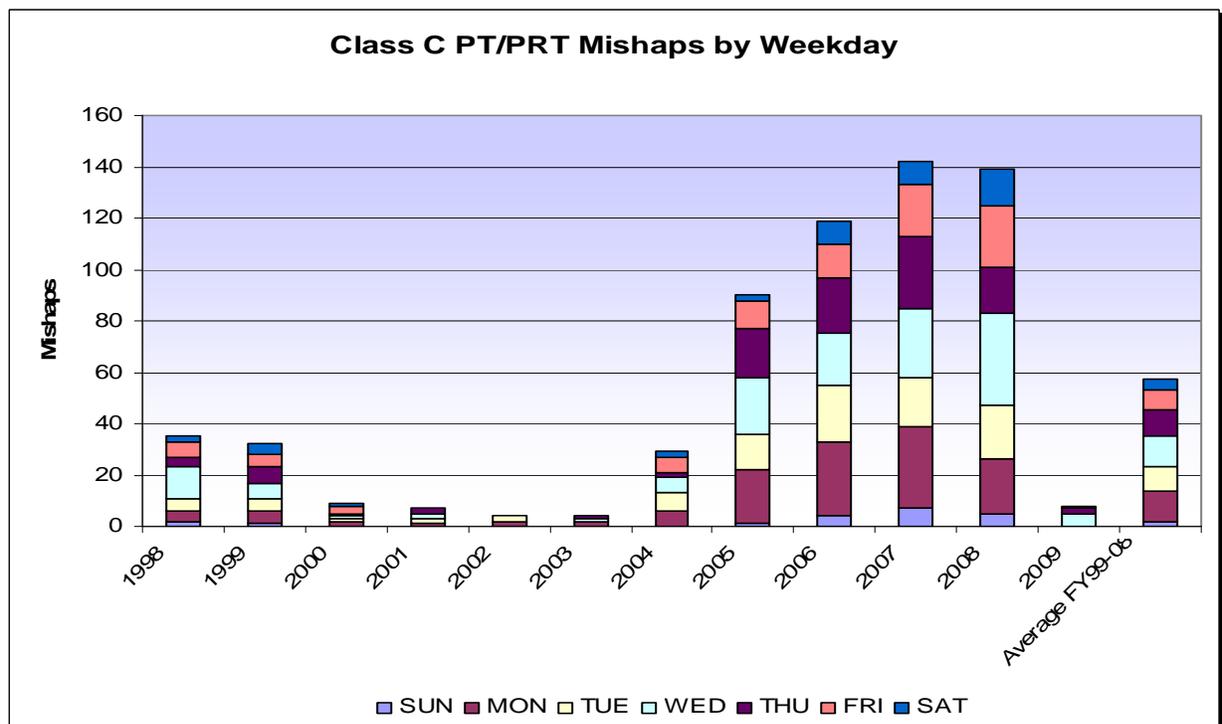


Figure F-2

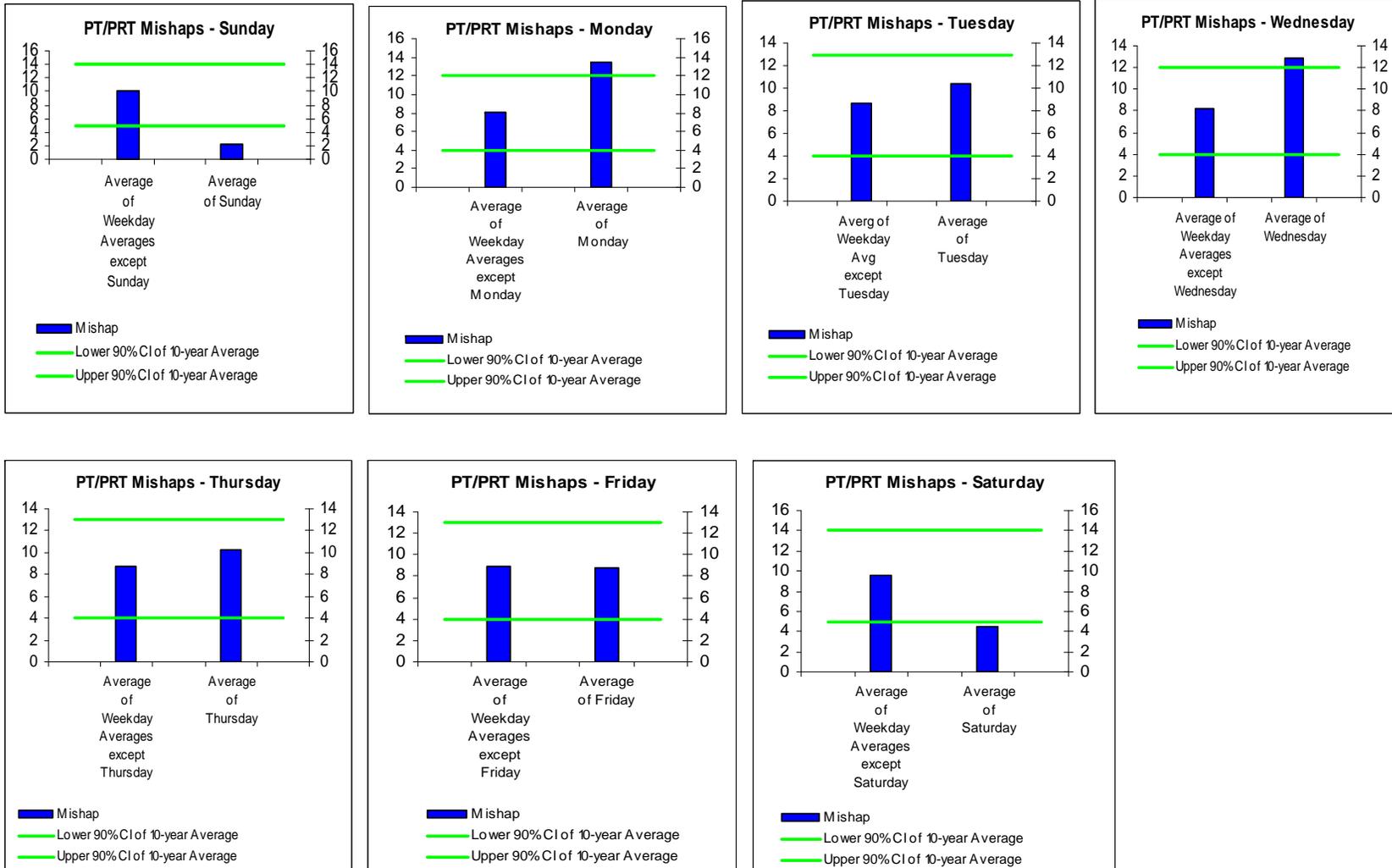


Figure F-3

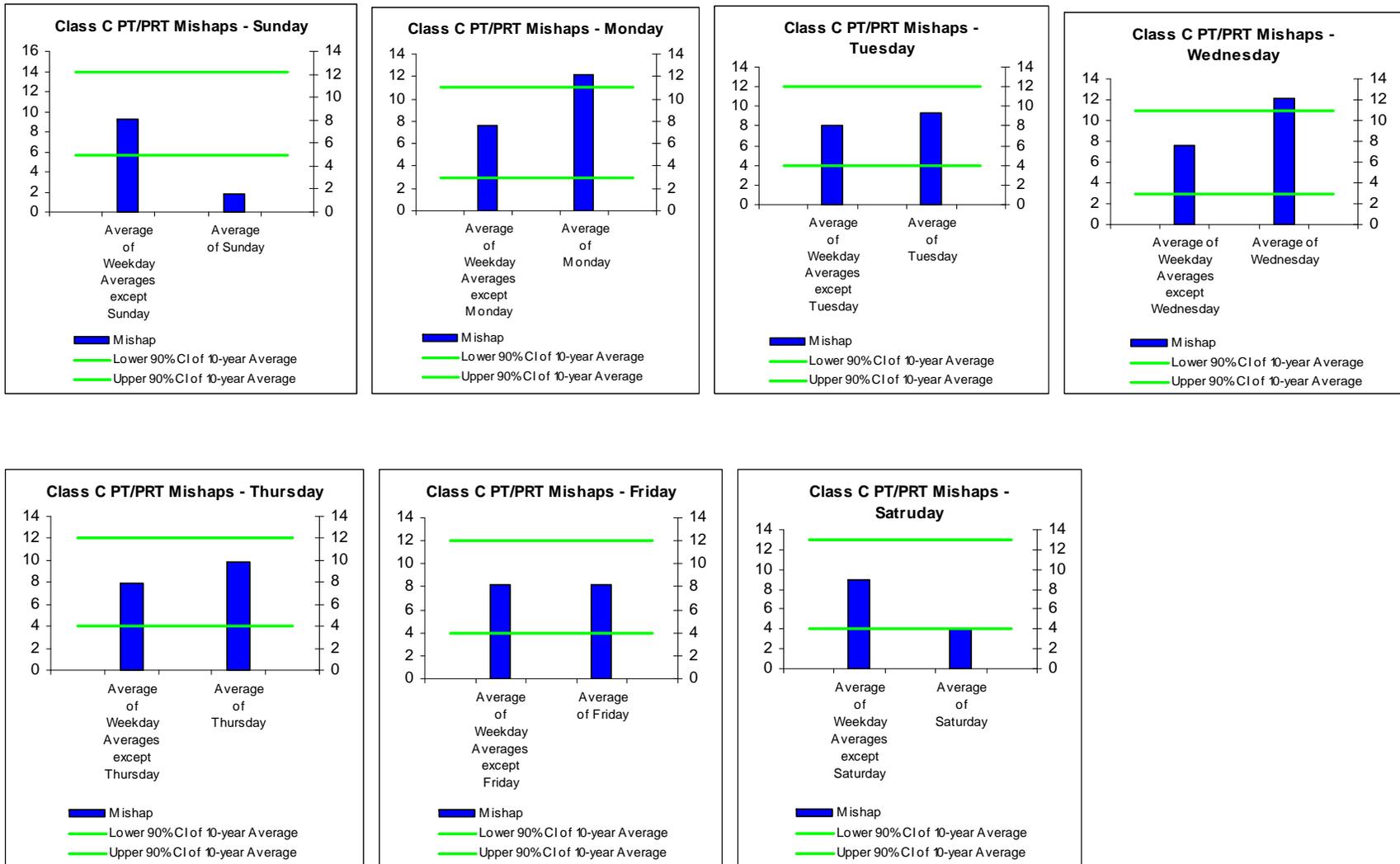


Figure F-4

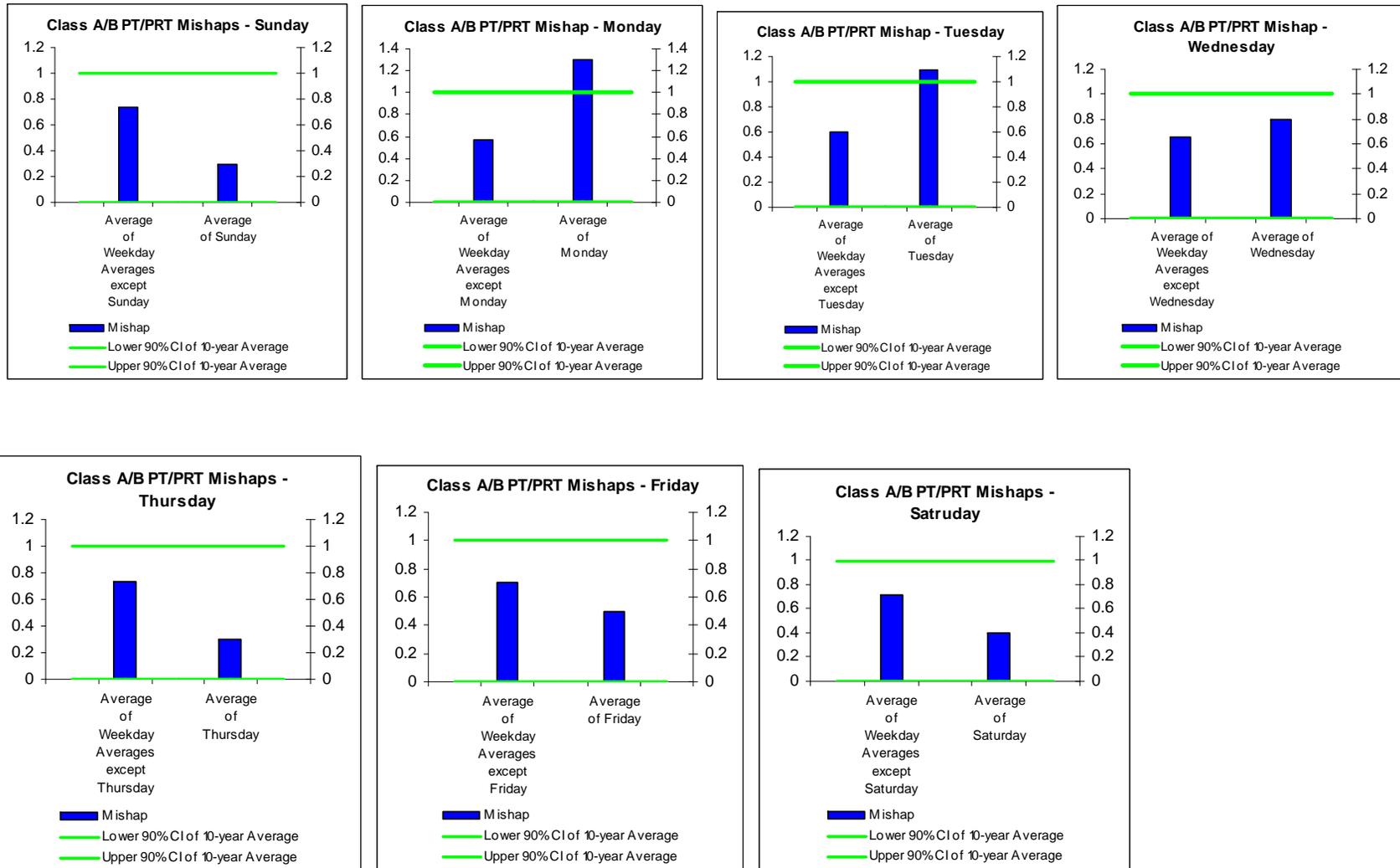


Figure F-5

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## Appendix G

**Table G - 1**

Class A/B												11-Year	5-Year
Reporting Command	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total	Total
RECRUIT TRAINING COMMAND GREAT LAKES IL	2	0	0	0	1	1	0	0	0	0	0	4	0
NAVAL SPECIAL WARFARE CENTER CORONADO CA	1	0	0	1	0	0	0	0	0	0	0	2	0
UIC UNKNOWN	2	0	0	0	0	0	0	0	0	0	0	2	0
US NAVAL AIR STATION KEFLAVIK ICELAND	0	0	1	0	1	0	0	0	0	0	0	2	0
ANZIO	0	0	0	0	0	0	0	1	0	0	0	1	1
BATAAN	0	0	0	0	0	0	0	1	0	0	0	1	1

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**Table G - 2**

All Classes	11-Year	5-Year
Reporting Command	Total	Total
RECRUIT TRAINING COMMAND GREAT LAKES IL	34	30
COMMANDER, NAVY REGION HAWAII	15	15
NAVAL HOSPITAL CORPS SCHOOL GREAT LAKES IL	13	13
OFFICER TRAINING COMMAND (STUDENTS)	13	13
AIMD NAS OCEANA VA	10	10
NAVAL OCEAN PROCESSING FAC NAS WHID ISL	10	10
NAVY INFORMATION OPERATION COMMAND HAWAII	9	9
GEORGE H W BUSH	8	8
OFFICER TRAINING COMMAND (STAFF)	8	8
RECRUIT TRAINING COMMAND(RECRUITS)GREAT LAKES	8	7
NAVAL ACADEMY ANNAPOLIS MD	7	5
NAVAL AMPHIBIOUS BASE LITTLE CREEK NORFOLK VA	7	7
NAVAL AVIATION SCHOOLS COMMAND PENSACOLA FL	7	7
CENTER FOR NAVAL AVIATION TECH TNG LEMOORE	6	6
HELO ANTISUB SQDN LIGHT 44 - HSL-44 SEA COMP	6	6
MID ATLANTIC REGIONAL MAINTENANCE CENTER	6	6
NAVAL AIR STATION PENSACOLA FL	6	3
UIC UNKNOWN	6	1
US NAVAL SUPPORT ACTIVITY SOUDA BAY CRETE	6	6
AIMD NAS JACKSONVILLE FL	5	5
COMMANDER, NAVY REGION NORTHWEST	5	5
NAVAL AIR TECHNICAL TRAINING CEN PENSACOLA FL	5	3
NAVAL CONSTUCTION TRACEN DET FT LEONARD WOOD	5	2
NAVAL SCHOOL OF HEALTH SCIENCES SAN DIEGO CA	5	5
NAVY INFORMTION OPERATION COMMAND MD	5	4
NATIONAL NAVAL MEDICAL CENTER BETHESDA MD	4	4

All Classes	11-Year	5-Year
Reporting Command	Total	Total
NAVAL BASE SAN DIEGO CA	4	3
NAVAL HOSPITAL GREAT LAKES IL	4	4
NAVAL TECHNICAL TRACEN DET LACKLAND AFB TX	4	3
ROBERT G BRADLEY	4	3
TRAINING SUPPORT CENTER GREAT LAKES	4	4
US NAVAL AIR STATION KEFLAVIK ICELAND	4	0
AEGIS TECHNICAL REPRESENTATIVE MOORESTOWN NJ	3	3
AIMD NAF MAYPORT FL	3	3
BONHOMME RICHARD	3	2
BOXER	3	3
MOBILE CONSTRUCTION BATTALION 133	3	3
NAVAL CONSTRUCTION TRACEN PORT HUENEME CA	3	3
NAVAL DIVING AND SALVAGE TRAINING CTR	3	2
NAVAL OPERATIONAL MEDICINE INSTITUTE	3	3
NAVAL SPECIAL WARFARE DEVELOPMENT GROUP	3	2
NAVAL STATION INGLESIDE TX	3	1
NAVY SCHOOL OF MUSIC	3	3
NSHS BETHESDA DET PORTSMOUTH VA	3	3
SAN ANTONIO	3	3
SOUTH CENTRAL REGIONAL MAINTENANCE CENTER	3	3
ABRAHAM LINCOLN	2	2
ADMINISTRATIVE SUPPORT UNIT BAHRAIN	2	2
AIMD TRUAX FIELD CORPUS CHRISTI TX	2	2
AIRCRAFT INTERM MAINT DEPT NAS BRUNSWICK ME	2	2
AIRCRAFT INTERMEDIATE MAINT DEPT NEW ORLEANS	2	2
ASSAULT CRAFT UNIT 1	2	2
CARL VINSON	2	2
CENTER FOR CRYPTOLOGY CORRY STATION	2	2
CNATT UNIT JACKSONVILLE FL	2	2
CNATT UNIT NORTH ISLAND CA	2	2
COMMANDER STRIKE FORCE TRAINING PACIFIC	2	2
COWPENS	2	1
DE WERT	2	2
DEYO	2	0
DWIGHT D EISENHOWER	2	1
ELECTRONIC ATTACK SQUADRON 141 - VAQ-141	2	2
FLEET AIR RECONNAISSANCE SQUADRON 4 SEA	2	2
FLEET COMPOSITE SQUADRON 6 - VC-6	2	2
FLEET LOGISTICS SUPPORT SQUADRON 30 - VRC-30	2	2
HARRY S TRUMAN	2	1
HELICOPTER TRAINING SQUADRON 8	2	2
HELO ANTISUBMARINE SQUADRON 6	2	2
HELO ANTISUBMARINE SQUADRON LIGHT 40	2	2
HELO SEA COMBAT SQUADRON 23 - HSC-23	2	2
IWO JIMA	2	2
JOHN F KENNEDY	2	2

All Classes	11-Year	5-Year
Reporting Command	Total	Total
MARITIME SECURITY SQUADRON 6	2	2
MCM CREW BULWARK	2	2
MOMSEN	2	2
NAVAL AIR STATION ATLANTA GA	2	2
NAVAL AIR STATION CORPUS CHRISTI TX	2	1
NAVAL AIR STATION JRB FT WORTH TX	2	0
NAVAL AIR STATION NEW ORLEANS LA	2	1
NAVAL AIR STATION NORTH ISLAND SAN DIEGO CA	2	2
NAVAL AIR STATION WHIDBEY ISLAND WA	2	2
NAVAL AIR WARFARE CEN A/C DIV PATUXENT RIVER	2	0
NAVAL BASE NORFOLK VA	2	1
NAVAL BASE VENTURA COUNTY PT MUGU CA	2	2
NAVAL COASTAL WARFARE SQUADRON 4	2	2
NAVAL CRIMINAL INVESTIGATIVE SERVICE COMMAND	2	2
NAVAL ENVIRONMENTAL AND PMU NO 2 NORFOLK VA	2	2
NAVAL HEALTH CLINIC NEW ENGLAND NEWPORT RI	2	2
NAVAL HOSPITAL PENSACOLA FL	2	2
NAVAL HOSPITAL ROTA SPAIN	2	2
NAVAL MEDICAL LOGISTICS COMMAND FT DETRICK	2	2
NAVAL MOBILE CONSTRUCTION BATTALION 4	2	2
NAVAL MOBILE CONSTRUCTION BATTALION 5	2	1
NAVAL RESERVE CENTER FT MCHENRY BALTIMORE MD	2	2
NAVAL SPECIAL WARFARE CENTER CORONADO CA	2	0
NAVAL SPECIAL WARFARE GROUP ONE LOGSUPPU	2	2
NAVAL STATION PEARL HARBOR HI	2	0
NAVAL SUBMARINE BASE KINGS BAY GA	2	2
NAVAL SUBMARINE SCHOOL GROTON	2	2
NAVAL WEAPONS STATION EARLE NJ	2	2
NAVCONSTRACEN GULFPORT MS	2	2
NAVSUPPACT MID SOUTH MILLINGTON TN	2	2
NAVSUPPACT WASHINGTON DC	2	2
NIMITZ	2	0
PATROL SQUADRON 26	2	2
PATROL SQUADRON 30 - VP-30	2	2
SOUTHWEST REGIONAL MAINTENANCE CTR SAN DIEGO	2	2
SPECIAL BOAT UNIT 20	2	0
TRAINING SUPPORT CENTER HAMPTON ROADS	2	1
20TH SEBEE READINESS GROUP	1	1
31ST SEABEE READINESS GROUP	1	1
AEW WING ATLANTIC DET WTU	1	1
AFLOAT PLANNING SYSTEM ATLANTIC NORFOLK VA	1	1
AIMD NAF ATSUGI JAPAN	1	1
AIMD NAS NORTH ISLAND SAN DIEGO CA	1	1
AIMD NAS WHIDBEY ISLAND WA	1	1
AIR TEST & EVALUATION SQUADRON 30 - VX-30	1	1
ALBUQUERQUE	1	1

All Classes	11-Year	5-Year
Reporting Command	Total	Total
AMCM WEAPON SYS TRAINING SCHOOL NORFOLK	1	1
ANTIETAM	1	0
ANZIO	1	1
ASSAULT CRAFT UNIT 5 MCB CAMP PENDLETON CA	1	1
AVENGER	1	0
BARRY	1	0
BATAAN	1	1
BOONE	1	0
CARRIER AEW SQUADRON 116 - VAW-116	1	1
CARRIER AEW SQUADRON 123 - VAW-123	1	0
CARRIER AEW SQUADRON 124 - VAW-124	1	1
CARTER HALL	1	1
CENTER FOR SERVICE SUPPORT ATHENS, GA	1	1
CHICAGO	1	0
CNATT SITE GOODFELLOW AFB TX	1	1
COMBAT SYSTEMS TRAINING GROUP NORFOLK VA	1	0
COMBAT TRACEN ATLANTIC VA BEACH STUDENTS	1	1
COMMANDER FLEET ACTIVITIES YOKOSUKA SIM	1	1
COMMANDER JOINT FORCES INTELLIGENCE COMMAND	1	1
COMMANDER MARITIME FORCE PROTECTION COMMAND	1	1
COMMANDER NAVAL RESERVE FORCE NEW ORLEANS LA	1	0
COMMANDER NAVAL SURFACE FORCE US PACIFIC FLT	1	1
COMMANDER OPERATIONAL TEST & EVALUATION FORCE	1	1
COMMANDER STRATEGIC COMMUNICATIONS WING ONE	1	1
COMMANDER SUBMARINE FORCE US ATLANTIC FLEET	1	0
COMMANDER SUBMARINE GROUP 9	1	1
COMMANDER US NAVAL FORCES JAPAN	1	1
COMMANDER, NAVY REGION JAPAN	1	1
COMPATRECONWING TWO	1	1
CSCS LRNG SITE NORFOLK VA	1	1
DALLAS	1	0
DDG CLASSRON NORFOLK VA	1	1
ELECTRONIC ATTACK SQUADRON 129 - VAQ-129	1	1
ELECTRONIC ATTACK SQUADRON 132 - VAQ-132	1	1
ELECTRONIC ATTACK SQUADRON 137 - VAQ-137	1	1
ELECTRONIC ATTACK SQUADRON 140 - VAQ-140	1	1
ELECTRONIC ATTACK SQUADRON 142 - VAQ-142	1	1
ESTOCIN	1	0
EXPEDITIONARY WARFARE TRAINING GROUP PACIFIC	1	1
EXPLOSIVE ORDNANCE DISPOSAL MOBILE UNIT 1	1	1
EXPLOSIVE ORDNANCE DISPOSAL MOBILE UNIT 11	1	0
FASOTRUGRULANT	1	1
FLEET ACTIVITIES OKINAWA/NAF KADENA JAPAN	1	1
FLEET LOGISTICS SUPPORT SQUADRON 61	1	1
FLEET LOGISTICS SUPPORT SQUADRON 64 - VR-64	1	1
FLEET TRAINING CENTER SAN DIEGO CA	1	0

All Classes	11-Year	5-Year
Reporting Command	Total	Total
FLINT	1	0
FRANK CABLE	1	1
FRANK CABLE MAINT & SUPPORT AS-40	1	1
GEORGE WASHINGTON	1	1
GONZALEZ	1	0
GRAPPLE	1	0
GRASP	1	1
GREENEVILLE	1	0
HALSEY	1	1
HALYBURTON	1	1
HAWES	1	1
HAYLER	1	0
HELICOPTER SEA COMBAT WING ATLANTIC DET JAX	1	1
HELO ANTISUB SQDN LIGHT 42 - HSL-42 SEA COMP	1	1
HELO ANTISUB SQDN LIGHT 45 - HSL-45 SEA COMP	1	1
HELO ANTISUB SQDN LIGHT 47 - HSL-47 SEA COMP	1	1
HELO ANTISUBMARINE SQUADRON 7 - HS-7	1	1
HELO ANTISUBMARINE SQUADRON LIGHT 41	1	1
HELO ANTISUBMARINE SQUADRON LIGHT 46 - HSL-46	1	1
HELO ANTISUBMARINE SQUADRON LIGHT 49 - HSL-49	1	1
HELO MINE COUNTERMEASURES SQUADRON 14 - HM-14	1	1
HELO MINE COUNTERMEASURES SQUADRON 15	1	1
HIGGINS	1	1
HSL 49 SEA DUTY COMPONENT	1	1
JEFFERSON CITY	1	1
JOHN S MCCAIN	1	0
JOINT MARITIME FACILITY ST MAWGAN UK	1	1
LAKE CHAMPLAIN	1	1
MCCLUSKY	1	1
MCINERNEY	1	0
MILITARY DEPT USNS JOHN ERICSSON T-AO 194	1	0
MILITARY DEPT USNS TIPPECANOE T-AO 199	1	0
MINE COUNTERMEASURES SQUADRON TWO	1	1
MITSCHER	1	1
MOBILE BAY	1	1
MOBILE INSHORE UNDERSEA WARFARE UNIT 101	1	1
MOBILE SECURITY DETACHMENT 27	1	1
NAS OCEANA DAM NECK DET, VA	1	1
NAVAL DIVE AND SALVAGE TRAINING CTR (STU)	1	1
NAVAL & MARCORPS RESERVE CEN DALLAS TX	1	0
NAVAL & MARCORPS RESERVE CEN ST LOUIS MO	1	1
NAVAL & MARINE CORPS RESERVE CEN PROVID RI	1	0
NAVAL & MARINE CORPS RESERVE CENTER ALBANY NY	1	1
NAVAL AIR FACILITY EL CENTRO CA	1	1
NAVAL AIR MAINTENANCE TRAINING UNIT NORFOLK	1	1
NAVAL AIR STATION BRUNSWICK ME	1	1

All Classes	11-Year	5-Year
Reporting Command	Total	Total
NAVAL AIR STATION JACKSONVILLE FL	1	1
NAVAL AIR STATION LEMOORE CA	1	0
NAVAL AIR STATION MERIDIAN MS	1	1
NAVAL AIR STATION OCEANA VIRGINIA BEACH VA	1	1
NAVAL AIR STATION OPERATIONAL DET WHIDBEY ISL	1	1
NAVAL AIR STATION WHIDBEY ISLAND VAN OPDET	1	1
NAVAL AIR STATION WHITING FIELD MILTON FL	1	1
NAVAL AIR WEAPONS STATION CHINA LAKE	1	1
NAVAL AMBULATORY CARAE CENTER GROTON CT	1	1
NAVAL AMBULATORY CARE CENTER	1	1
NAVAL AND MARCORPS RESERVE CEN GREENVILLE SC	1	0
NAVAL AND MARCORPS RESERVE CEN MORENO VALLEY	1	1
NAVAL AVIATION FORECAST CENTER	1	1
NAVAL AVIATION TECH TRNG CTR PENSACOLA (STU)	1	0
NAVAL BRANCH HEALTH CLINIC SARATOGA SPRINGS	1	0
NAVAL BRANCH MEDICAL CLINIC IWAKUNI JAPAN	1	0
NAVAL BRANCH MEDICAL CLINIC NSA BAHRAIN	1	1
NAVAL BRANCH MEDICAL CLINIC WILLOW GROVE PA	1	0
NAVAL BRIG PENSACOLA	1	1
NAVAL COASTAL WARFARE SQUADRON 21	1	1
NAVAL COMPUTER & TELECOMMSTA CUTLER ME	1	0
NAVAL ED&TRA PROFESSIONAL DEV & TECH CENTER	1	0
NAVAL HOSPITAL BREMERTON WA	1	1
NAVAL HOSPITAL CHERRY POINT NC	1	1
NAVAL HOSPITAL CORPUS CHRISTI TX	1	1
NAVAL HOSPITAL GUANTANAMO BAY CUBA	1	1
NAVAL HOSPITAL JACKSONVILLE	1	1
NAVAL HOSPITAL OKINAWA	1	1
NAVAL ICE CENTER SUITLAND MD	1	1
NAVAL MEDICAL CENTER PORTSMOUTH VA	1	1
NAVAL MEDICAL CENTER SAN DIEGO	1	1
NAVAL MEDICAL CLINIC PEARL HARBOR HI	1	1
NAVAL MOBILE CONSTRUCTION BATTALION 26	1	1
NAVAL POSTGRADUATE SCHOOL MONTEREY CA	1	0
NAVAL RESERVE CEN PORT HUENEME CA	1	1
NAVAL RESERVE CENTER ST LOUIS MO	1	1
NAVAL RESERVE CENTER DECATUR IL	1	0
NAVAL RESERVE CENTER DETROIT MI	1	0
NAVAL RESERVE CENTER HONOLULU HI	1	1
NAVAL RESERVE FACILITY MARQUETTE GWINN MI	1	1
NAVAL RESERVE FORCE COMMAND NEW ORLEANS LA	1	1
NAVAL RESERVE RECRUITING AREA PACIFIC	1	1
NAVAL SAFETY CENTER NORFOLK VA	1	1
NAVAL SCHOOL CIVIL ENGINEERING CORPS OFFICERS	1	1
NAVAL SCHOOL OF HEALTH SCIENCES	1	1
NAVAL SERVICE TRAINING COMMAND GREAT LAKES	1	0

All Classes	11-Year	5-Year
Reporting Command	Total	Total
NAVAL SPECIAL WARFARE CENTER DET LCREEK	1	1
NAVAL SPECIAL WARFARE COMMAND CORONADO CA	1	1
NAVAL SPECIAL WARFARE GROUP 2	1	1
NAVAL SPECIAL WARFARE GROUP 4 (SHORE)	1	1
NAVAL STATION MAYPORT FL	1	0
NAVAL STATION SECURITY DET PEARL HARBOR	1	1
NAVAL SUBMARINE SUPPORT CENTER KINGS BAY	1	1
NAVAL SUBMARINE SUPPORT FACILITY NEW LONDON	1	1
NAVAL SUBMARINE TRACEN PACIFIC PEARL HARBOR	1	1
NAVAL SUPPORT ACTIVITY MONTEREY BAY CA	1	0
NAVAL SUPPORT ACTIVITY NEW ORLEANS LA	1	1
NAVAL WAR COLLEGE NEWPORT RI	1	1
NAVMARFCSTCEN PEARL HARBOR HI	1	1
NAVMED MANPOWER PERS TRNG & EDUCATION COMMAND	1	1
NAVMEDCLINIC PATUXENT RIVER MARYLAND	1	1
NAVOPMEDINST ASTC PAX RIVER MD	1	1
NAVRES READINESS COMMAND REGION 11	1	0
NAVSCOLEOD DET ELGIN AFB FL	1	0
NAVSHIPYD & IMF PEARL HARBOR	1	0
NAVSUPPACT NORFOLK VA	1	1
NAVY INFORMATION OPERATIONS CMD SUGAR GROVE	1	1
NAVY & MARINE INTELLIGENCE TRNG CTR DAM NECK	1	1
NAVY AIR LOGISTICS OFFICE NEW ORLEANS LA	1	1
NAVY COMMAND TELECOMM STATION FAR EAST FE	1	1
NAVY ENVIRONMENTAL & PREVENTIVE MED UNIT NO 5	1	1
NAVY INFOR OPER COMMAND DET SEOUL	1	1
NAVY INFORMATION OPER COMMA YOKOSUKA JA	1	1
NAVY INFORMATION OPERATIONS CMD WHIDBEY ISLND	1	1
NAVY INFORMATION OPERATIONS COMMAND PENSACOLA	1	1
NAVY INFRO OPER COMMAND SUITLAND OPERATIONS	1	1
NAVY MARINE CORPS INTERNET SUPPORT DET	1	1
NAVY MOBILE CONSTRUCTION BATTALION 1	1	1
NAVY PUBLIC WORKS CENTER PEARL HARBOR HI	1	0
NAVY RECRUITING DISTRICT MINNEAPOLIS MN	1	1
NAVY RECRUITING DISTRICT NY EAST MEADOW NY	1	1
NAVY SUBMARINE TORPEDO FACILITY YORKTOWN VA	1	0
NICHOLAS	1	1
NORMANDY	1	0
NR NSA BAHRAIN DET F	1	1
NRCC SINGAPORE (SIM)	1	1
NROTC MID SOUTH REGION UNIV	1	0
NROTC UNIT LAWRENCE KS	1	0
NROTC UNIT MIAMI UNIVERSITY OXFORD OH	1	1
NROTC UNIT UNIVERSITY OF FLORIDA	1	1
OFFICE OF NAVAL INTELLIGENCE	1	0

All Classes	11-Year	5-Year
Reporting Command	Total	Total
OGDEN	1	0
OKLAHOMA CITY	1	0
OLDENDORF	1	0
OSCAR AUSTIN	1	0
PACIFIC MISSILE RANGE FACILITY HAWAIIAN AREA	1	1
PATRIOT	1	0
PATROL SQUADRON 16	1	1
PATROL SQUADRON 30 (STUDENTS)	1	1
PATROL SQUADRON 46 - VP-46	1	1
PATROL SQUADRON 8	1	1
PATROL SQUADRON 9 - VP-9	1	1
PC CREW ALPHA	1	1
PC CREW HOTEL	1	1
PEARL HARBOR	1	1
PELELIU	1	1
PENNSYLVANIA BLUE CREW	1	1
PERS SUPPORT ACT DET BANGOR BREMERTON WA	1	0
PERSONNEL SUPPORT ACTIVITY NORFOLK VA	1	1
PHIBCB ONE	1	1
PINCKNEY	1	1
PONCE	1	1
PORT ROYAL	1	1
PRECOMUNIT GREEN BAY	1	1
PWD OCEANA	1	1
REGIONAL SUPPORT ORGANIZATION SAN DIEGO	1	1
RENTZ	1	1
RIVERINE GROUP ONE	1	1
RONALD REAGAN	1	1
ROSS	1	1
SAMUEL B ROBERTS	1	1
SAND LANCE	1	0
SEA CONTROL SQUADRON 22 - VS-22	1	1
SEAL DELIVERY VEHICLE TEAM 2	1	1
SEAL TEAM 4	1	1
SEAL TEAM TEN	1	1
SHOUP	1	1
SIMA MAYPORT FL	1	1
SIMA PASCAGOULA MS	1	0
SOUTHEAST REGIONAL CALIBRATION CENTER JAX	1	1
SOUTHEAST REGIONAL MAINTENANCE CENTER	1	1
SPACE & WARFARE SYSTEMS CENTER NORFOLK VA	1	1
SPAWARSSYSCEN SAN DIEGO CA	1	1
SPECIAL BOAT UNIT 12	1	0
STOUT	1	0
STRATEGIC WEAPONS FACILITY LANT KINGS BAY GA	1	1
STRIKE FIGHTER SQUADRON 115 - VFA-115	1	1

<b>All Classes</b>	<b>11-Year</b>	<b>5-Year</b>
<b>Reporting Command</b>	<b>Total</b>	<b>Total</b>
STRIKE FIGHTER SQUADRON 87 - VFA-87	1	1
SURFACE COMBAT SYSTEMS CENTER WALLOPS ISLAND	1	1
SURFACE RESCUE SWIMMERS SCHOOL JACKSONVILLE	1	0
SURFACE WARFARE OFFICERS SCHOOL COMMAND	1	0
TARAWA	1	0
THORN	1	0
TPU NORFOLK VA (TRANS/OTHERS)	1	1
TRIDENT TRAINING FACILITY BANGOR SILVERDALE	1	0
TRIDENT TRAINING FACILITY KINGS BAY GA	1	1
U S JOINT FORCES COMMAND NORFOLK VA	1	1
UAVAL MOBILE CONSTRUCTION BATTALION 3	1	1
UNDER WATER CONSTRUCTION TEAM	1	0
UNDERWATER CONSTRUCTION TEAM ONE	1	0
US NAVAL AIR FACILITY ATSUGI JAPAN	1	0
US NAVAL AIR FACILITY MISAWA JAPAN	1	1
US NAVAL FORCES MARIANAS SUPPACT GUAM	1	0
US NAVAL STATION ROOSEVELT ROADS PR	1	0
US NAVAL SUPPORT ACTIVITY NAPLES ITALY	1	1
VAW 120 CARAEWRON TAR AUGMENT	1	1
VINCENNES	1	0
WHIRLWIND	1	0

Table G - 3

<b>Class A/B</b>	<b>11-Year</b>	<b>5-Year</b>
<b>Reporting Command</b>	<b>Total</b>	<b>Total</b>
RECRUIT TRAINING COMMAND GREAT LAKES IL	4	0
NAVAL SPECIAL WARFARE CENTER CORONADO CA	2	0
UIC UNKNOWN	2	0
US NAVAL AIR STATION KEFLAVIK ICELAND	2	0
ANZIO	1	1
BATAAN	1	1
COMMANDER MARITIME FORCE PROTECTION COMMAND	1	1
COWPENS	1	1
HARRY S TRUMAN	1	1
IWO JIMA	1	1
MCCLUSKY	1	1
MID ATLANTIC REGIONAL MAINTENANCE CENTER	1	1
MOBILE BAY	1	1
MOBILE CONSTRUCTION BATTALION 133	1	1
NAVAL & MARINE CORPS RESERVE CENTER ALBANY NY	1	1
NAVAL ACADEMY ANNAPOLIS MD	1	1
NAVAL AVIATION FORECAST CENTER	1	1
NAVAL CRIMINAL INVESTIGATIVE SERVICE COMMAND	1	1
NAVAL RESERVE CENTER ST LOUIS MO	1	1
NAVAL SPECIAL WARFARE COMMAND CORONADO CA	1	1

<b>Class A/B</b>	<b>11-Year</b>	<b>5-Year</b>
<b>Reporting Command</b>	<b>Total</b>	<b>Total</b>
NAVAL SPECIAL WARFARE GROUP ONE LOGSUPPU	1	1
NAVAL SUBMARINE SUPPORT CENTER KINGS BAY	1	1
NAVSUPPACT NORFOLK VA	1	1
NAVY INFOR OPER COMMAND DET SEOUL	1	1
NAVY RECRUITING DISTRICT NY EAST MEADOW NY	1	1
NROTC UNIT UNIVERSITY OF FLORIDA	1	1
PATROL SQUADRON 30 - VP-30	1	1
PERSONNEL SUPPORT ACTIVITY NORFOLK VA	1	1
NAVSUPPACT WASHINGTON DC	1	1
PENNSYLVANIA BLUE CREW	1	1
COMMANDER NAVAL RESERVE FORCE NEW ORLEANS LA	1	0
COMMANDER SUBMARINE FORCE US ATLANTIC FLEET	1	0
NAVAL & MARINE CORPS RESERVE CEN PROVID RI	1	0
NAVAL AIR STATION JRB FT WORTH TX	1	0
NAVAL AND MARCORPS RESERVE CEN GREENVILLE SC	1	0
NAVAL AVIATION TECH TRNG CTR PENSACOLA (STU)	1	0
NAVAL BRANCH HEALTH CLINIC SARATOGA SPRINGS	1	0
NAVAL MOBILE CONSTRUCTION BATTALION 5	1	0
NAVAL POSTGRADUATE SCHOOL MONTEREY CA	1	0
NAVAL SERVICE TRAINING COMMAND GREAT LAKES	1	0
NAVAL SPECIAL WARFARE DEVELOPMENT GROUP	1	0
NAVSCOLEOD DET ELGIN AFB FL	1	0
NAVSHIPYD & IMF PEARL HARBOR	1	0
NAVY SUBMARINE TORPEDO FACILITY YORKTOWN VA	1	0
NROTC MID SOUTH REGION UNIV	1	0
OKLAHOMA CITY	1	0
RECRUIT TRAINING COMMAND(RECRUITS)GREAT LAKES	1	0
SURFACE RESCUE SWIMMERS SCHOOL JACKSONVILLE	1	0
THORN	1	0
TRAINING SUPPORT CENTER HAMPTON ROADS	1	0
US NAVAL AIR FACILITY ATSUGI JAPAN	1	0
JOHN S MCCAIN	1	0
NAVAL DIVING AND SALVAGE TRAINING CTR	1	0

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Table G - 4

<b>Class C</b>	<b>11-Year</b>	<b>5-Year</b>
<b>Reporting Command</b>	<b>Total</b>	<b>Total</b>
RECRUIT TRAINING COMMAND GREAT LAKES IL	30	30
COMMANDER, NAVY REGION HAWAII	15	15
NAVAL HOSPITAL CORPS SCHOOL GREAT LAKES IL	13	13
OFFICER TRAINING COMMAND (STUDENTS)	13	13
AIMD NAS OCEANA VA	10	10
NAVAL OCEAN PROCESSING FAC NAS WHID ISL	10	10
NAVY INFORMATION OPERATION COMMAND HAWAII	9	9
GEORGE H W BUSH	8	8
OFFICER TRAINING COMMAND (STAFF)	8	8
NAVAL AMPHIBIOUS BASE LITTLE CREEK NORFOLK VA	7	7
NAVAL AVIATION SCHOOLS COMMAND PENSACOLA FL	7	7
RECRUIT TRAINING COMMAND(RECRUITS)GREAT LAKES	7	7
CENTER FOR NAVAL AVIATION TECH TNG LEMOORE	6	6
HELO ANTISUB SQDN LIGHT 44 - HSL-44 SEA COMP	6	6
NAVAL ACADEMY ANNAPOLIS MD	6	4
NAVAL AIR STATION PENSACOLA FL	6	3
US NAVAL SUPPORT ACTIVITY SOUDA BAY CRETE	6	6
NAVY INFORMTION OPERATION COMMAND MD	5	4
AIMD NAS JACKSONVILLE FL	5	5
COMMANDER, NAVY REGION NORTHWEST	5	5
MID ATLANTIC REGIONAL MAINTENANCE CENTER	5	5
NAVAL AIR TECHNICAL TRAINING CEN PENSACOLA FL	5	3
NAVAL CONSTUCTION TRACEN DET FT LEONARD WOOD	5	2
NAVAL SCHOOL OF HEALTH SCIENCES SAN DIEGO CA	5	5
NATIONAL NAVAL MEDICAL CENTER BETHESDA MD	4	4
NAVAL BASE SAN DIEGO CA	4	3
NAVAL HOSPITAL GREAT LAKES IL	4	4
NAVAL TECHNICAL TRACEN DET LACKLAND AFB TX	4	3
ROBERT G BRADLEY	4	3
TRAINING SUPPORT CENTER GREAT LAKES	4	4
UIC UNKNOWN	4	1
AEGIS TECHNICAL REPRESENTATIVE MOORESTOWN NJ	3	3
AIMD NAF MAYPORT FL	3	3
BONHOMME RICHARD	3	2
BOXER	3	3
NAVAL CONSTRUCTION TRACEN PORT HUENEME CA	3	3
NAVAL OPERATIONAL MEDICINE INSTITUTE	3	3
NAVAL STATION INGLESIDE TX	3	1
NAVY SCHOOL OF MUSIC	3	3
NSHS BETHESDA DET PORTSMOUTH VA	3	3
SAN ANTONIO	3	3
SOUTH CENTRAL REGIONAL MAINTENANCE CENTER	3	3
ABRAHAM LINCOLN	2	2
ADMINISTRATIVE SUPPORT UNIT BAHRAIN	2	2

<b>Class C</b>	<b>11-Year</b>	<b>5-Year</b>
<b>Reporting Command</b>	<b>Total</b>	<b>Total</b>
AIMD TRUAX FIELD CORPUS CHRISTI TX	2	2
AIRCRAFT INTERM MAINT DEPT NAS BRUNSWICK ME	2	2
AIRCRAFT INTERMEDIATE MAINT DEPT NEW ORLEANS	2	2
ASSAULT CRAFT UNIT 1	2	2
CARL VINSON	2	2
CENTER FOR CRYPTOLOGY CORRY STATION	2	2
CNATT UNIT JACKSONVILLE FL	2	2
CNATT UNIT NORTH ISLAND CA	2	2
DE WERT	2	2
DEYO	2	0
DWIGHT D EISENHOWER	2	1
ELECTRONIC ATTACK SQUADRON 141 - VAQ-141	2	2
FLEET AIR RECONNAISSANCE SQUADRON 4 SEA	2	2
FLEET COMPOSITE SQUADRON 6 - VC-6	2	2
FLEET LOGISTICS SUPPORT SQUADRON 30 - VRC-30	2	2
HELICOPTER TRAINING SQUADRON 8	2	2
HELO ANTISUBMARINE SQUADRON 6	2	2
HELO ANTISUBMARINE SQUADRON LIGHT 40	2	2
HELO SEA COMBAT SQUADRON 23 - HSC-23	2	2
JOHN F KENNEDY	2	2
MARITIME SECURITY SQUADRON 6	2	2
MCM CREW BULWARK	2	2
MOBILE CONSTRUCTION BATTALION 133	2	2
MOMSEN	2	2
NAVAL AIR STATION ATLANTA GA	2	2
NAVAL AIR STATION CORPUS CHRISTI TX	2	1
NAVAL AIR STATION NEW ORLEANS LA	2	1
NAVAL AIR STATION NORTH ISLAND SAN DIEGO CA	2	2
NAVAL AIR STATION WHIDBEY ISLAND WA	2	2
NAVAL AIR WARFARE CEN A/C DIV PATUXENT RIVER	2	0
NAVAL BASE NORFOLK VA	2	1
NAVAL BASE VENTURA COUNTY PT MUGU CA	2	2
NAVAL COASTAL WARFARE SQUADRON 4	2	2
NAVAL DIVING AND SALVAGE TRAINING CTR	2	2
NAVAL ENVIRONMENTAL AND PMU NO 2 NORFOLK VA	2	2
NAVAL HEALTH CLINIC NEW ENGLAND NEWPORT RI	2	2
NAVAL HOSPITAL PENSACOLA FL	2	2
NAVAL HOSPITAL ROTA SPAIN	2	2
NAVAL MEDICAL LOGISTICS COMMAND FT DETRICK	2	2
NAVAL MOBILE CONSTRUCTION BATTALION 4	2	2
NAVAL RESERVE CENTER FT MCHENRY BALTIMORE MD	2	2
NAVAL SPECIAL WARFARE DEVELOPMENT GROUP	2	2
NAVAL STATION PEARL HARBOR HI	2	0
NAVAL SUBMARINE BASE KINGS BAY GA	2	2
NAVAL SUBMARINE SCHOOL GROTON	2	2
NAVAL WEAPONS STATION EARLE NJ	2	2

<b>Class C</b>	<b>11-Year</b>	<b>5-Year</b>
<b>Reporting Command</b>	<b>Total</b>	<b>Total</b>
NAVCONSTRACEN GULFPORT MS	2	2
NAVSUPPACT MID SOUTH MILLINGTON TN	2	2
NIMITZ	2	0
PATROL SQUADRON 26	2	2
SOUTHWEST REGIONAL MAINTENANCE CTR SAN DIEGO	2	2
SPECIAL BOAT UNIT 20	2	0
US NAVAL AIR STATION KEFLAVIK ICELAND	2	0
COMMANDER STRIKE FORCE TRAINING PACIFIC	1	1
NAVAL DIVE AND SALVAGE TRAINING CTR (STU)	1	1
20TH SEBEE READINESS GROUP	1	1
31ST SEABEE READINESS GROUP	1	1
AEW WING ATLANTIC DET WTU	1	1
AFLOAT PLANNING SYSTEM ATLANTIC NORFOLK VA	1	1
AIMD NAF ATSUGI JAPAN	1	1
AIMD NAS NORTH ISLAND SAN DIEGO CA	1	1
AIMD NAS WHIDBEY ISLAND WA	1	1
AIR TEST & EVALUATION SQUADRON 30 - VX-30	1	1
ALBUQUERQUE	1	1
AMCM WEAPON SYS TRAINING SCHOOL NORFOLK	1	1
ANTIETAM	1	0
ASSAULT CRAFT UNIT 5 MCB CAMP PENDLETON CA	1	1
AVENGER	1	0
BARRY	1	0
BOONE	1	0
CARRIER AEW SQUADRON 116 - VAW-116	1	1
CARRIER AEW SQUADRON 123 - VAW-123	1	0
CARRIER AEW SQUADRON 124 - VAW-124	1	1
CARTER HALL	1	1
CENTER FOR SERVICE SUPPORT ATHENS, GA	1	1
CHICAGO	1	0
CNATT SITE GOODFELLOW AFB TX	1	1
COMBAT SYSTEMS TRAINING GROUP NORFOLK VA	1	0
COMBAT TRACEN ATLANTIC VA BEACH STUDENTS	1	1
COMMANDER FLEET ACTIVITIES YOKOSUKA SIM	1	1
COMMANDER JOINT FORCES INTELLIGENCE COMMAND	1	1
COMMANDER NAVAL SURFACE FORCE US PACIFIC FLT	1	1
COMMANDER OPERATIONAL TEST & EVALUATION FORCE	1	1
COMMANDER STRATEGIC COMMUNICATIONS WING ONE	1	1
COMMANDER SUBMARINE GROUP 9	1	1
COMMANDER US NAVAL FORCES JAPAN	1	1
COMMANDER, NAVY REGION JAPAN	1	1
COMPATRECONWING TWO	1	1
COWPENS	1	0
CSCS LRNG SITE NORFOLK VA	1	1
DALLAS	1	0
DDG CLASSRON NORFOLK VA	1	1

<b>Class C</b>	<b>11-Year</b>	<b>5-Year</b>
<b>Reporting Command</b>	<b>Total</b>	<b>Total</b>
ELECTRONIC ATTACK SQUADRON 129 - VAQ-129	1	1
ELECTRONIC ATTACK SQUADRON 132 - VAQ-132	1	1
ELECTRONIC ATTACK SQUADRON 137 - VAQ-137	1	1
ELECTRONIC ATTACK SQUADRON 140 - VAQ-140	1	1
ELECTRONIC ATTACK SQUADRON 142 - VAQ-142	1	1
ESTOCIN	1	0
EXPEDITIONARY WARFARE TRAINING GROUP PACIFIC	1	1
EXPLOSIVE ORDNANCE DISPOSAL MOBILE UNIT 1	1	1
EXPLOSIVE ORDNANCE DISPOSAL MOBILE UNIT 11	1	0
FASOTRUGRULANT	1	1
FLEET ACTIVITIES OKINAWA/NAF KADENA JAPAN	1	1
FLEET LOGISTICS SUPPORT SQUADRON 61	1	1
FLEET LOGISTICS SUPPORT SQUADRON 64 - VR-64	1	1
FLEET TRAINING CENTER SAN DIEGO CA	1	0
FLINT	1	0
FRANK CABLE	1	1
FRANK CABLE MAINT & SUPPORT AS-40	1	1
GEORGE WASHINGTON	1	1
GONZALEZ	1	0
GRAPPLE	1	0
GRASP	1	1
GREENEVILLE	1	0
HALSEY	1	1
HALYBURTON	1	1
HARRY S TRUMAN	1	0
HAWES	1	1
HAYLER	1	0
HELICOPTER SEA COMBAT WING ATLANTIC DET JAX	1	1
HELO ANTISUB SQDN LIGHT 42 - HSL-42 SEA COMP	1	1
HELO ANTISUB SQDN LIGHT 45 - HSL-45 SEA COMP	1	1
HELO ANTISUB SQDN LIGHT 47 - HSL-47 SEA COMP	1	1
HELO ANTISUBMARINE SQUADRON 7 - HS-7	1	1
HELO ANTISUBMARINE SQUADRON LIGHT 41	1	1
HELO ANTISUBMARINE SQUADRON LIGHT 46 - HSL-46	1	1
HELO ANTISUBMARINE SQUADRON LIGHT 49 - HSL-49	1	1
HELO MINE COUNTERMEASURES SQUADRON 14 - HM-14	1	1
HELO MINE COUNTERMEASURES SQUADRON 15	1	1
HIGGINS	1	1
HSL 49 SEA DUTY COMPONENT	1	1
IWO JIMA	1	1
JEFFERSON CITY	1	1
JOINT MARITIME FACILITY ST MAWGAN UK	1	1
LAKE CHAMPLAIN	1	1
MCINERNEY	1	0
MILITARY DEPT USNS JOHN ERICSSON T-AO 194	1	0
MILITARY DEPT USNS TIPPECANOE T-AO 199	1	0

<b>Class C</b>	<b>11-Year</b>	<b>5-Year</b>
<b>Reporting Command</b>	<b>Total</b>	<b>Total</b>
MINE COUNTERMEASURES SQUADRON TWO	1	1
MITSCHER	1	1
MOBILE INSHORE UNDERSEA WARFARE UNIT 101	1	1
MOBILE SECURITY DETACHMENT 27	1	1
NAS OCEANA DAM NECK DET, VA	1	1
NAVAL & MARCORPS RESERVE CEN DALLAS TX	1	0
NAVAL & MARCORPS RESERVE CEN ST LOUIS MO	1	1
NAVAL AIR FACILITY EL CENTRO CA	1	1
NAVAL AIR MAINTENANCE TRAINING UNIT NORFOLK	1	1
NAVAL AIR STATION BRUNSWICK ME	1	1
NAVAL AIR STATION JACKSONVILLE FL	1	1
NAVAL AIR STATION JRB FT WORTH TX	1	0
NAVAL AIR STATION LEMOORE CA	1	0
NAVAL AIR STATION MERIDIAN MS	1	1
NAVAL AIR STATION OCEANA VIRGINIA BEACH VA	1	1
NAVAL AIR STATION OPERATIONAL DET WHIDBEY ISL	1	1
NAVAL AIR STATION WHIDBEY ISLAND VAN OPDET	1	1
NAVAL AIR STATION WHITING FIELD MILTON FL	1	1
NAVAL AIR WEAPONS STATION CHINA LAKE	1	1
NAVAL AMBULATORY CARE CENTER GROTON CT	1	1
NAVAL AMBULATORY CARE CENTER	1	1
NAVAL AND MARCORPS RESERVE CEN MORENO VALLEY	1	1
NAVAL BRANCH MEDICAL CLINIC IWAKUNI JAPAN	1	0
NAVAL BRANCH MEDICAL CLINIC NSA BAHRAIN	1	1
NAVAL BRANCH MEDICAL CLINIC WILLOW GROVE PA	1	0
NAVAL BRIG PENSACOLA	1	1
NAVAL COASTAL WARFARE SQUADRON 21	1	1
NAVAL COMPUTER & TELECOMMSTA CUTLER ME	1	0
NAVAL CRIMINAL INVESTIGATIVE SERVICE COMMAND	1	1
NAVAL ED&TRA PROFESSIONAL DEV & TECH CENTER	1	0
NAVAL HOSPITAL BREMERTON WA	1	1
NAVAL HOSPITAL CHERRY POINT NC	1	1
NAVAL HOSPITAL CORPUS CHRISTI TX	1	1
NAVAL HOSPITAL GUANTANAMO BAY CUBA	1	1
NAVAL HOSPITAL JACKSONVILLE	1	1
NAVAL HOSPITAL OKINAWA	1	1
NAVAL ICE CENTER SUITLAND MD	1	1
NAVAL MEDICAL CENTER PORTSMOUTH VA	1	1
NAVAL MEDICAL CENTER SAN DIEGO	1	1
NAVAL MEDICAL CLINIC PEARL HARBOR HI	1	1
NAVAL MOBILE CONSTRUCTION BATTALION 26	1	1
NAVAL MOBILE CONSTRUCTION BATTALION 5	1	1
NAVAL RESERVE CEN PORT HUENEME CA	1	1
NAVAL RESERVE CENTER DECATUR IL	1	0
NAVAL RESERVE CENTER DETROIT MI	1	0
NAVAL RESERVE CENTER HONOLULU HI	1	1

<b>Class C</b>	<b>11-Year</b>	<b>5-Year</b>
<b>Reporting Command</b>	<b>Total</b>	<b>Total</b>
NAVAL RESERVE FACILITY MARQUETTE GWINN MI	1	1
NAVAL RESERVE FORCE COMMAND NEW ORLEANS LA	1	1
NAVAL RESERVE RECRUITING AREA PACIFIC	1	1
NAVAL SAFETY CENTER NORFOLK VA	1	1
NAVAL SCHOOL CIVIL ENGINEERING CORPS OFFICERS	1	1
NAVAL SCHOOL OF HEALTH SCIENCES	1	1
NAVAL SPECIAL WARFARE CENTER DET LCREEK	1	1
NAVAL SPECIAL WARFARE GROUP 2	1	1
NAVAL SPECIAL WARFARE GROUP 4 (SHORE)	1	1
NAVAL SPECIAL WARFARE GROUP ONE LOGSUPPU	1	1
NAVAL STATION MAYPORT FL	1	0
NAVAL STATION SECURITY DET PEARL HARBOR	1	1
NAVAL SUBMARINE SUPPORT FACILITY NEW LONDON	1	1
NAVAL SUBMARINE TRACEN PACIFIC PEARL HARBOR	1	1
NAVAL SUPPORT ACTIVITY MONTEREY BAY CA	1	0
NAVAL SUPPORT ACTIVITY NEW ORLEANS LA	1	1
NAVAL WAR COLLEGE NEWPORT RI	1	1
NAVMARFCSTCEN PEARL HARBOR HI	1	1
NAVMED MANPOWER PERS TRNG & EDUCATION COMMAND	1	1
NAVMEDCLINIC PATUXENT RIVER MARYLAND	1	1
NAVOPMEDINST ASTC PAX RIVER MD	1	1
NAVRES READINESS COMMAND REGION 11	1	0
NAVSUPPACT WASHINGTON DC	1	1
NAVY INFORMATION OPERATIONS CMD SUGAR GROVE	1	1
NAVY & MARINE INTELLIGENCE TRNG CTR DAM NECK	1	1
NAVY AIR LOGISTICS OFFICE NEW ORLEANS LA	1	1
NAVY COMMAND TELECOMM STATION FAR EAST FE	1	1
NAVY ENVIRONMENTAL & PREVENTIVE MED UNIT NO 5	1	1
NAVY INFORMATION OPER COMMA YOKOSUKA JA	1	1
NAVY INFORMATION OPERATIONS CMD WHIDBEY ISLND	1	1
NAVY INFORMATION OPERATIONS COMMAND PENSACOLA	1	1
NAVY INFRO OPER COMMAND SUITLAND OPERATIONS	1	1
NAVY MARINE CORPS INTERNET SUPPORT DET	1	1
NAVY MOBILE CONSTRUCTION BATTALION 1	1	1
NAVY PUBLIC WORKS CENTER PEARL HARBOR HI	1	0
NAVY RECRUITING DISTRICT MINNEAPOLIS MN	1	1
NICHOLAS	1	1
NORMANDY	1	0
NR NSA BAHRAIN DET F	1	1
NRCC SINGAPORE (SIM)	1	1
NROTC UNIT LAWRENCE KS	1	0
NROTC UNIT MIAMI UNIVERSITY OXFORD OH	1	1
OFFICE OF NAVAL INTELLIGENCE	1	0
OGDEN	1	0
OLDENDORF	1	0

<b>Class C</b>	<b>11-Year</b>	<b>5-Year</b>
<b>Reporting Command</b>	<b>Total</b>	<b>Total</b>
OSCAR AUSTIN	1	0
PACIFIC MISSILE RANGE FACILITY HAWAIIAN AREA	1	1
PATRIOT	1	0
PATROL SQUADRON 16	1	1
PATROL SQUADRON 30 - VP-30	1	1
PATROL SQUADRON 30 (STUDENTS)	1	1
PATROL SQUADRON 46 - VP-46	1	1
PATROL SQUADRON 8	1	1
PATROL SQUADRON 9 - VP-9	1	1
PC CREW ALPHA	1	1
PC CREW HOTEL	1	1
PEARL HARBOR	1	1
PELELIU	1	1
PERS SUPPORT ACT DET BANGOR BREMERTON WA	1	0
PHIBCB ONE	1	1
PINCKNEY	1	1
PONCE	1	1
PORT ROYAL	1	1
PRECOMUNIT GREEN BAY	1	1
PWD OCEANA	1	1
REGIONAL SUPPORT ORGANIZATION SAN DIEGO	1	1
RENTZ	1	1
RIVERINE GROUP ONE	1	1
RONALD REAGAN	1	1
ROSS	1	1
SAMUEL B ROBERTS	1	1
SAND LANCE	1	0
SEA CONTROL SQUADRON 22 - VS-22	1	1
SEAL DELIVERY VEHICLE TEAM 2	1	1
SEAL TEAM 4	1	1
SEAL TEAM TEN	1	1
SHOUP	1	1
SIMA MAYPORT FL	1	1
SIMA PASCAGOULA MS	1	0
SOUTHEAST REGIONAL CALIBRATION CENTER JAX	1	1
SOUTHEAST REGIONAL MAINTENANCE CENTER	1	1
SPACE & WARFARE SYSTEMS CENTER NORFOLK VA	1	1
SPAWARSYSCEN SAN DIEGO CA	1	1
SPECIAL BOAT UNIT 12	1	0
STOUT	1	0
STRATEGIC WEAPONS FACILITY LANT KINGS BAY GA	1	1
STRIKE FIGHTER SQUADRON 115 - VFA-115	1	1
STRIKE FIGHTER SQUADRON 87 - VFA-87	1	1
SURFACE COMBAT SYSTEMS CENTER WALLOPS ISLAND	1	1
SURFACE WARFARE OFFICERS SCHOOL COMMAND	1	0
TARAWA	1	0

<b>Class C</b>	<b>11-Year</b>	<b>5-Year</b>
<b>Reporting Command</b>	<b>Total</b>	<b>Total</b>
TPU NORFOLK VA (TRANS/OTHERS)	1	1
TRAINING SUPPORT CENTER HAMPTON ROADS	1	1
TRIDENT TRAINING FACILITY BANGOR SILVERDALE	1	0
TRIDENT TRAINING FACILITY KINGS BAY GA	1	1
U S JOINT FORCES COMMAND NORFOLK VA	1	1
UVAL MOBILE CONSTRUCTION BATTALION 3	1	1
UNDER WATER CONSTRUCTION TEAM	1	0
UNDERWATER CONSTRUCTION TEAM ONE	1	0
US NAVAL AIR FACILITY MISAWA JAPAN	1	1
US NAVAL FORCES MARIANAS SUPPACT GUAM	1	0
US NAVAL STATION ROOSEVELT ROADS PR	1	0
US NAVAL SUPPORT ACTIVITY NAPLES ITALY	1	1
VAW 120 CARAEWRON TAR AUGMENT	1	1
VINCENNES	1	0
WHIRLWIND	1	0

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## Appendix H

**Table H – 1: E01**

Class	Diagnoses	Instance
A/B	INFARCT	5
	UNDETERMINEABLE	0
C	SPRAIN	14
	UNCONSCIOUSNESS	7
	TEAR, MUSCLE/LIGAMENT/ OTHER BODY PART	6
	OTHER	5
	FRACTURE	3
	CONCUSSION	2
	DISLOCATION	2
	INJURY, HEAT	1
	STROKE, HEAT/SUN	1
	TRAUMA	1

**Table 15**

Class	Diagnoses	Instance
A	INFARCT	3
	UNDETERMINEABLE	2
	BLUNT TRAUMA	1
C	FRACTURE	7
	SPRAIN	6
	TEAR, MUSCLE/LIGAMENT/ OTHER BODY PART	2
	OTHER	1
	LACERATION	1
	DISLOCATION	1
	STRAIN	1
	STRESS	1
	WOUND, OPEN	1

**Table H – 2: E06**

Class	Diagnoses	Instance
A/B	INFARCT	10
	UNDETERMINEABLE	2
C	SPRAIN	44
	FRACTURE	20
	TEAR, MUSCLE/LIGAMENT/ OTHER BODY PART	10
	OTHER	7
	TRAUMA	4
	INFARCT	2
	LACERATION	2
	DEHYDRATION/FATIGUE	1
	DISLOCATION	1
	HEMATOMA	1
	INJURY(IES), MULTIPLE TYPES	1
	INJURY, HEAT	1
	PNEUMO-HEMOTHORAX	1
	RUPTURE	1
	STRAIN	1
	UNCONSCIOUSNESS	1

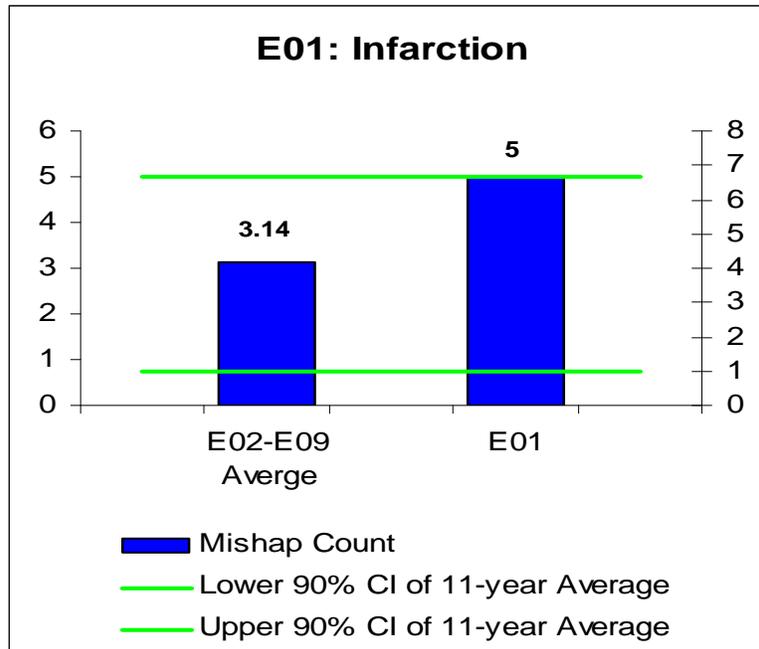


Figure H-1

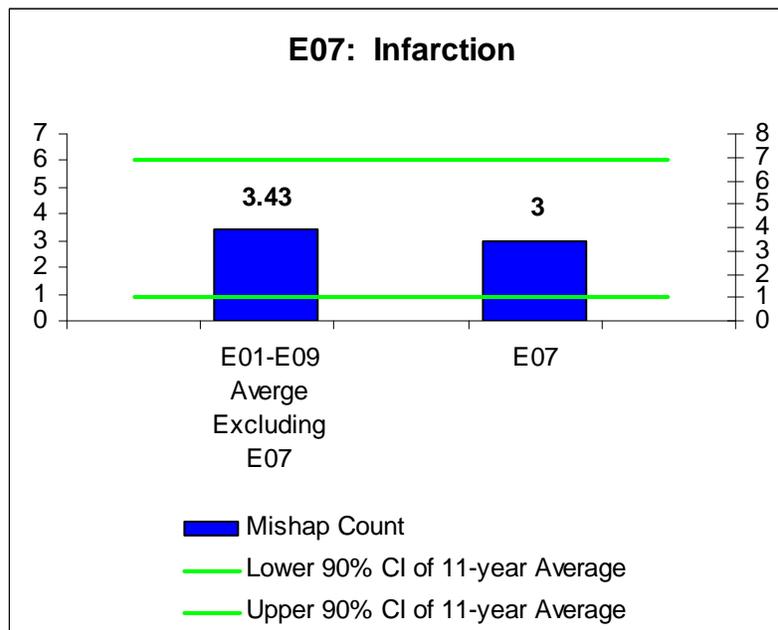


Table H-2

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**Appendix I**

**Table I - 1**

Class	Diagnoses	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	FY99-08 AVERAGE	Total
A/B	INFARCT	0	3	3	5	6	4	7	4	2	0	3.4	34
	UNDETERMINABLE	0	0	0	2	0	1	2	3	0	1	0.9	9
	TRAUMA	0	0	0	0	0	0	1	0	0	0	0.1	1
	BLUNT TRAUMA	0	0	0	1	0	0	0	0	0	0	0.1	1
	HEMORRHAGE	0	0	0	0	0	0	0	1	0	0	0.1	1
	INHALATION, DAMAGING OR NOXIOUS MATERIAL	0	0	1	0	0	0	0	0	0	0	0.1	1
	RHABDOMYOLYSIS	0	0	0	1	0	0	0	0	0	0	0.1	1
C	SPRAIN	5	0	1	1	0	7	52	58	61	67	25.2	252
	FRACTURE	14	6	0	0	4	15	12	21	29	26	12.7	127
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	9	1	0	0	1	3	7	17	10	18	6.6	66
	INJURY, HEAT	0	0	0	0	0	1	1	4	15	3	2.4	24
	UNCONSCIOUSNESS	0	0	0	0	0	1	4	2	2	12	2.1	21
	STRAIN	6	2	3	2	0	0	1	2	0	0	1.6	16
	TRAUMA	0	0	1	0	0	1	3	4	6	5	2	20
	DISLOCATION	3	0	2	0	0	0	3	2	1	3	1.4	14
	OTHER	0	0	0	0	0	0	2	3	4	5	1.4	14
	CONCUSSION	0	0	0	0	0	0	1	3	3	5	1.2	12
	DEHYDRATION/FATIGUE	0	0	0	0	0	0	1	3	5	2	1.1	11
	INFARCT	0	1	0	1	0	1	0	5	0	1	0.9	9
	LACERATION	0	0	0	0	0	0	0	2	3	5	1	10
	RUPTURE	3	0	0	0	0	0	0	0	0	0	0.3	3
	BITE	1	0	0	0	0	0	1	1	0	0	0.3	3
	CONTUSION	0	0	0	0	0	0	0	0	2	0	0.2	2
	HERNIA	1	0	0	0	0	0	0	0	1	0	0.2	2
	INJURY(IES), MULTIPLE TYPES	0	0	0	0	0	0	1	0	0	2	0.3	3
	PNEUMO-HEMOTHORAX	0	0	0	0	0	0	0	0	2	0	0.2	2
	STRESS	1	0	0	0	0	1	0	0	0	0	0.2	2
	UNDETERMINABLE	0	0	0	0	0	1	0	0	0	0	0.1	1
	WOUND, OPEN	0	0	0	0	0	0	1	1	0	0	0.2	2
	ABRASION	0	0	0	0	0	0	0	0	0	1	0.1	1
	BLISTER	1	0	0	0	0	0	0	0	0	0	0.1	1
	FRACTURE, SIMPLE	0	0	0	0	0	0	0	0	0	0	0	0
	STRETCHING	0	0	0	0	0	0	0	0	0	0	0	0
	STROKE, HEAT/SUN	0	0	0	0	1	0	0	0	0	0	0.1	1

Table I - 2

Class	Diagnoses	E01	E02	E03	E04	E05	E06	E07	E08	E09	Total Enlisted
A/B	INFARCT	5	1	1	3	3	10	3	0	1	278
	UNDETERMINABLE	0	0	0	0	3	2	2	0	0	7
	BLUNT TRAUMA	0	0	0	0	0	0	1	0	0	1
	HEMORRHAGE	0	0	0	0	1	0	0	0	0	1
	INHALATION, DAMAGING OR NOXIOUS MATERIAL	0	0	0	0	0	0	0	0	0	0
	RHABDOMYOLYSIS	0	0	0	0	0	0	0	0	0	0
	TRAUMA	0	0	0	0	0	0	0	0	0	0
C	SPRAIN	14	12	16	37	63	46	7	2	2	199
	FRACTURE	5	3	7	22	28	23	9	0	0	97
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	8	1	7	5	12	10	2	2	0	47
	INJURY, HEAT	1	5	0	0	5	1	0	0	0	12
	UNCONSCIOUSNESS	9	0	2	4	1	3	0	0	0	19
	TRAUMA	1	1	2	1	3	5	0	1	0	14
	STRAIN	0	0	0	3	5	1	1	2	0	12
	DISLOCATION	2	0	1	5	2	1	1	0	0	12
	OTHER	3	0	4	0	0	4	1	0	0	12
	CONCUSSION	3	0	0	1	2	0	0	0	0	6
	DEHYDRATION/FATIGUE	0	0	2	0	4	1	0	0	0	7
	LACERATION	2	0	2	0	0	2	1	0	0	7
	INFARCT	0	0	0	0	2	3	0	0	0	5
	BITE	0	0	0	0	0	0	0	0	0	0
	CONTUSION	0	1	1	0	0	1	0	0	0	3
	INJURY(IES), MULTIPLE TYPES	0	0	0	0	2	1	0	0	0	3
	RUPTURE	0	0	0	0	0	1	0	0	0	1
	HERNIA	0	0	0	1	1	0	0	0	0	2
	PNEUMO-HEMOTHORAX	0	0	0	0	1	1	0	0	0	2
	STRESS	0	0	0	0	0	0	1	0	0	1
	WOUND, OPEN	0	0	0	0	1	0	1	0	0	2
	ABRASION	0	1	0	0	0	0	0	0	0	1
	BLISTER	0	0	0	0	0	0	0	0	0	0
	STROKE, HEAT/SUN	1	0	0	0	0	0	0	0	0	1
	UNDETERMINABLE	0	0	1	0	0	0	0	0	0	1

Table I - 3

Class	Diagnoses	O01	O02	O03	O04	O05	O06	Total Officers
A/B	INFARCT	0	0	4	1	1	1	7
	UNDETERMINABLE	0	1	2	1	0	0	4
	BLUNT TRAUMA	0	0	0	0	0	0	0
	HEMORRHAGE	0	0	0	0	0	0	0
	INHALATION, DAMAGING OR NOXIOUS MATERIAL	0	0	1	0	0	0	1
	RHABDOMYOLYSIS	0	0	1	0	0	0	1
	TRAUMA	0	0	1	0	0	0	1
C	SPRAIN	2	1	5	1	3	0	12
	FRACTURE	1	1	2	3	0	0	7
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	1	0	2	1	1	0	5
	INJURY, HEAT	3	0	0	0	0	0	3
	UNCONSCIOUSNESS	0	0	0	0	1	0	1
	TRAUMA	1	0	1	0	0	0	2
	STRAIN	1	0	0	0	0	0	1
	DISLOCATION	0	0	0	0	0	0	0
	OTHER	0	0	0	1	0	0	1
	CONCUSSION	0	0	0	0	0	0	0
	DEHYDRATION/FATIGUE	0	0	0	0	0	0	0
	LACERATION	0	0	0	0	0	0	0
	INFARCT	0	0	0	0	0	0	0
	BITE	2	0	0	0	0	0	2
	CONTUSION	0	0	0	0	0	0	0
	INJURY(IES), MULTIPLE TYPES	0	0	0	0	0	0	0
	RUPTURE	0	0	0	0	0	0	0
	HERNIA	0	0	0	0	0	0	0
	PNEUMO-HEMOTHORAX	0	0	0	0	0	0	0
	STRESS	0	0	0	1	0	0	1
	WOUND, OPEN	0	0	0	0	0	0	0
	ABRASION	0	0	0	0	0	0	0
	BLISTER	0	0	0	0	0	0	0
	STROKE, HEAT/SUN	0	0	0	0	0	0	0
	UNDETERMINABLE	0	0	0	0	0	0	0

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**Table I - 4**

Class	Diagnoses	FC-	GS0	Blank	Total Other
A/B	INFARCT	0	0	0	0
	UNDETERMINABLE	0	1	0	1
	BLUNT TRAUMA	0	0	0	0
	HEMORRHAGE	0	0	0	0
	INHALATION, DAMAGING OR NOXIOUS MATERIAL	0	0	0	0
	RHABDOMYOLYSIS	0	0	0	0
	TRAUMA	0	0	0	0
C	SPRAIN	0	23	21	44
	FRACTURE	2	5	16	23
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	0	8	6	14
	INJURY, HEAT	0	1	8	9
	UNCONSCIOUSNESS	0	0	1	1
	TRAUMA	0	1	2	3
	STRAIN	0	2	1	3
	DISLOCATION	0	0	3	3
	OTHER	0	0	1	1
	CONCUSSION	0	0	5	5
	DEHYDRATION/FATIGUE	0	0	4	4
	LACERATION	0	1	2	3
	INFARCT	0	2	2	4
	BITE	0	0	0	0
	CONTUSION	0	0	0	0
	INJURY(IES), MULTIPLE TYPES	0	0	0	0
	RUPTURE	0	0	2	2
	HERNIA	0	0	0	0
	PNEUMO-HEMOTHORAX	0	0	0	0
	STRESS	0	0	0	0
	WOUND, OPEN	0	0	0	0
	ABRASION	0	0	0	0
	BLISTER	0	1	0	1
	STROKE, HEAT/SUN	0	0	0	0
	UNDETERMINABLE	0	0	0	0

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**Table I – 5: Infarction, Jogging/Running, 25-35 Age Group**

<b>Pay Grade</b>	<b>Ages</b>
E01	26 31
E03	30
E04	33
E05	25 26
E06	28 30 30 31

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## Appendix J

**Table J – 1: Class A, B, and C**

ACTIVITY	INSTANCES
TRAINING, N. E. C.	219
BASKETBALL	117
JOGGING/RUNNING	88
PHYSICAL FITNESS PROGRAMS	52
FOOTBALL	36
RECREATION, N. E. C.	26
VOLLEYBALL	22
SOCCER	20
RACQUETBALL	13
BLANK	12
OTHER N. E. C.	12
SPORTS, N.E.C.	12
FRISBEE	8
WALKING/STEPPING	7
WEIGHT LIFTING	7
BASEBALL	6
BICYCLING	6
SWIMMING,INTENTIONAL	4
CLIMBING FENCE, WALL, TREE	2
MOTOR VEHICLE OPERATIONS	1
SOFTBALL	1
UNKNOWN/NOT REPORTED	1

**Table J – 3: Class C**

Redefined Activity	Total
JOGGING/RUNNING	184
BASKETBALL	126
GENERAL	58
FOOTBALL	41
EXERCISE	42
WEIGHT LIFTING	32
VOLLEYBALL	29
SOCCER	24
RACQUETBALL	14
FRISBEE	12
WALKING/STEPPING	9
ITE	8
BALL (OTHER BALL SPORTS)	9
CLIMBING FENCE, WALL, TREE	6
BICYCLING	6
BASEBALL/SOFTBALL	6
CONTACT SPORTS (WRESTLING, KARATE, ETC.)	4
SWIMMING,INTENTIONAL	1
PPCT PRACTICAL EXAM	1
MOTOR VEHICLE OPERATIONS	1
HOCKEY	1

**Table J – 2: Class A, B, and C**

REDEFINED ACTIVITY	INSTANCES
JOGGING/RUNNING	219
BASKETBALL	132
GENERAL	72
EXERCISE	43
FOOTBALL	43
WEIGHT LIFTING	34
VOLLEYBALL	29
SOCCER	24
RACQUETBALL	15
FRISBEE	12
BALL (OTHER BALL SPORTS)	9
WALKING/STEPPING	9
ITE	8
BASEBALL/SOFTBALL	6
BICYCLING	6
CLIMBING FENCE, WALL, TREE	6
SWIMMING,INTENTIONAL	6
CONTACT SPORTS (WRESTLING, KARATE, ETC.)	5
HOCKEY	1
MOTOR VEHICLE OPERATIONS	1
PPCT PRACTICAL EXAM	1

**Table J – 4: Class C**

Activity	Instances
TRAINING, N. E. C.	214
BASKETBALL	114
JOGGING/RUNNING	69
PHYSICAL FITNESS PROGRAMS	42
FOOTBALL	35
RECREATION, N. E. C.	24
VOLLEYBALL	23
SOCCER	20
RACQUETBALL	13
SPORTS, N.E.C.	12
	12
FRISBEE	8
WALKING/STEPPING	7
BICYCLING	6
BASEBALL	6
WEIGHT LIFTING	5
CLIMBING FENCE, WALL, TREE	2
SOFTBALL	1
MOTOR VEHICLE OPERATIONS	1

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### Appendix K

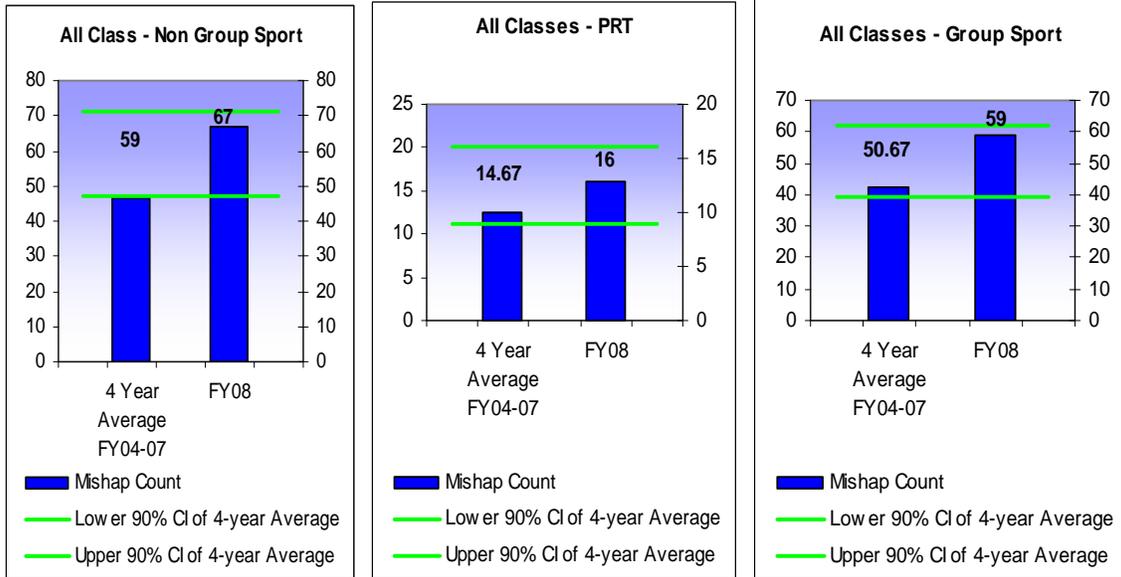


Figure K-1

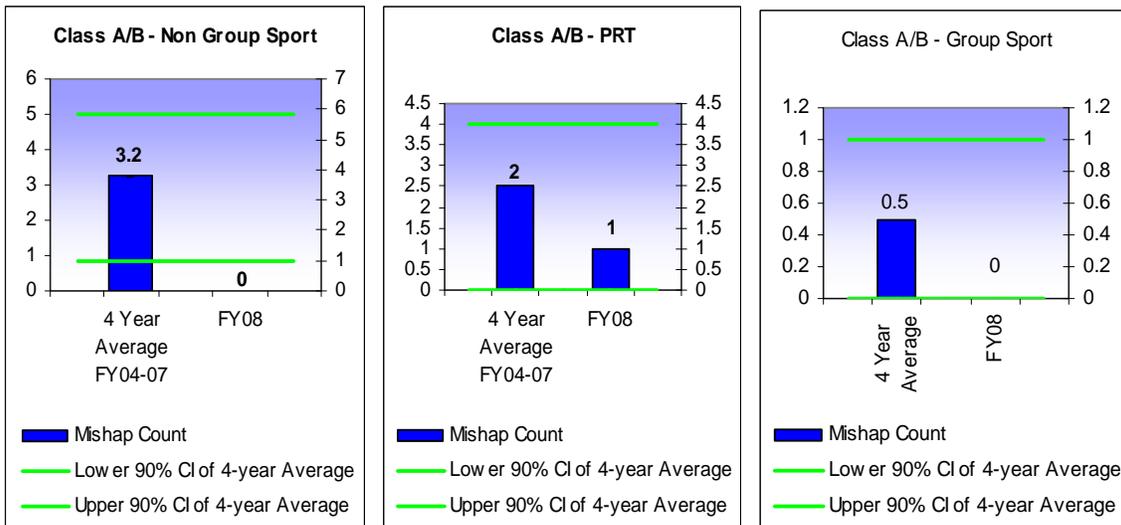


Figure K-2

**Table K – 1: Group Sport**

Sport	FY98-08 Total
BASKETBALL	126
FOOTBALL	41
VOLLEYBALL	28
SOCCER	24
RACQUETBALL	14
FRISBEE	12
BALL (OTHER BALL SPORTS)	9
BASEBALL/SOFTBALL	7
CONTACT SPORTS (WRESTLING, KARATE, ETC.)	3
GENERAL	2
HOCKEY	1

**Table K – 2: Group Sport**

Sport	INJURY	FY98-08 Total
BASKETBALL	SPRAIN	59
	FRACTURE	29
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	15
	DISLOCATION	7
	TRAUMA	5
	CONCUSSION	3
	RUPTURE	3
	STRAIN	2
	CONTUSION	1
	FRACTURE, W/DISLOCATION	1
LACERATION	1	
FOOTBALL	SPRAIN	16
	FRACTURE	15
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	6
	OTHER	1
	LACERATION	1
	CONCUSSION	1
	ABRASION	1
VOLLEYBALL	SPRAIN	14
	FRACTURE	7
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	5
	CONCUSSION	1
	TRAUMA	1
SOCCER	FRACTURE	12
	SPRAIN	8
	CONTUSION	1
	STRETCHING	1
	TRAUMA	1
	WOUND, OPEN	1
RACQUETBALL	SPRAIN	5
	FRACTURE	2
	OTHER	2
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	2
	CONCUSSION	1
	INJURY(IES), MULTIPLE TYPES	1
	STRAIN	1

**Table K – 3: Group Sport**

Sport	Injured Body Part	FY98-08 Totals
BASKETBALL	ANKLE	55
	KNEE	24
	HAND, INCLUDE FINGERS	12
	BLANK	6
	FOOT, INCLUDE TOES	4
	LEG, LOWER	4
	SHOULDER	3
	WRIST	3
	ARM, LOWER	2
	BACK (LUMBAR REGION)	2
	BRAIN	2
	EYE	2
	LEG, UPPER/ LEG NOT SPECIFIED	2
	ELBOW	1
	FACE	1
	MOUTH	1
	NOSE	1
SKULL (CRANIUM)	1	
FOOTBALL	KNEE	12
	ANKLE	7
	LEG, LOWER	5
	HAND, INCLUDE FINGERS	4
	SHOULDER	4
	ARM, UPPER/ARM NOT SPECIFIED	2
	ARM, LOWER	1
	BRAIN	1
	ELBOW	1
	FACE	1
	GROIN	1
	HIP(S)	1
WRIST	1	
VOLLEYBALL	ANKLE	11
	LEG, LOWER	7
	KNEE	4
	BACK (LUMBAR REGION)	3
	FOOT, INCLUDE TOES	2
	BRAIN	1
SOCCER	ANKLE	8
	LEG, LOWER	6
	GROIN	2
	BLANK	1
	ARM, LOWER	1
	ELBOW	1
	FOOT, INCLUDE TOES	1
	HAND, INCLUDE FINGERS	1
	KNEE	1
	LEG, UPPER/ LEG NOT SPECIFIED	1
MULTIPLE BODY PARTS	1	
RACQUETBALL	LEG, LOWER	4
	EYE	3
	LEG, UPPER/ LEG NOT SPECIFIED	2
	BLANK	1
	ANKLE	1

Sport	Injured Body Part	FY98-08 Totals
	BODY SYSTEMS-SPECIFY IN NARRATIVE	1
	MULTIPLE BODY PARTS	1
	SKULL (CRANIUM)	1

**Table K – 4: Group Sport**

Activity	FY98-08 Totals
JOGGING/RUNNING	131
GENERAL EXERCISE	47
WEIGHT LIFTING	38
WALKING/STEPPING	32
ITE	9
CLIMBING FENCE, WALL, TREE	8
BICYCLING	6
CONTACT SPORTS (WRESTLING, KARATE, ETC.)	5
PPCT PRACTICAL EXAM	1
	1

**Table K – 5: Non-Group Sport**

Activity	Diagnoses	FY98-08 Totals
JOGGING/RUNNING	SPRAIN	67
	FRACTURE	22
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	11
	INJURY, HEAT	8
	STRAIN	5
	DEHYDRATION/FATIGUE	4
	OTHER	2
	LACERATION	2
	TRAUMA	2
	DISLOCATION	1
	INJURY(IES), MULTIPLE TYPES	1
	PNEUMO-HEMOTHORAX	1
	STROKE, HEAT/SUN	1
	WOUND, OPEN	1
UNCONSCIOUSNESS	1	
CONCUSSION	0	
EXERCISE	SPRAIN	16
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	8
	FRACTURE	6
	BITE	2
	CONCUSSION	2
	OTHER	2
	STRAIN	1
	DISLOCATION	1

WEIGHT LIFTING	SPRAIN	16
	FRACTURE	3
	STRAIN	3
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	2
	TRAUMA	2
	CONTUSION	1
	HERNIA	1
	INFARCT	1
	INJURY(IES), MULTIPLE TYPES	1
	OTHER	1
	RUPTURE	1
WALKING/STEPPING	FRACTURE	4
	SPRAIN	2
	BLISTER	1
	INJURY, HEAT	1
	OTHER	1
ITE	SPRAIN	4
	OTHER	1
	DISLOCATION	1
	UNCONSCIOUSNESS	1
	INJURY, HEAT	1

**Table K – 6: Non-Group Sport**

Activity	Body Part	FY98-08 Totals
JOGGING/RUNNING	ANKLE	51
	BODY SYSTEMS-SPECIFY IN NARRATIVE	15
	KNEE	14
	LEG, LOWER	14
	BACK (LUMBAR REGION)	10
	LEG, UPPER/ LEG NOT SPECIFIED	7
	FOOT, INCLUDE TOES	4
	ARM, UPPER/ARM NOT SPECIFIED	2
	CHEST	2
	HIP(S)	2
	SHOULDER	2
	WRIST	2
	BRAIN	1
	EAR(S)	1
	FACE	1
	GROIN	1
	HAND, INCLUDE FINGERS	1
	HEART	1
	INTERNAL ORGANS	1
	LUNGS	1

EXERCISE	BACK (LUMBAR REGION)	8
	SHOULDER	7
	ARM, UPPER/ARM NOT SPECIFIED	3
	KNEE	3
	ANKLE	2
	CHEST	2
	HAND, INCLUDE FINGERS	2
	LEG, LOWER	2
	FOOT, INCLUDE TOES	2
	ABDOMEN	1
	BODY SYSTEMS-SPECIFY IN NARRATIVE	1
	BRAIN	1
	GROIN	1
	MULTIPLE BODY PARTS	1
SKULL (CRANIUM)	1	
WRIST	1	
WEIGHT LIFTING	BACK (LUMBAR REGION)	12
	SHOULDER	4
	HAND, INCLUDE FINGERS	3
	KNEE	3
	CHEST	2
	NECK	2
	ANKLE	1
	BRAIN	1
	ELBOW	1
	FOOT, INCLUDE TOES	1
	LEG, UPPER/ LEG NOT SPECIFIED	1
	WRIST	1
WALKING/STEPPING	FOOT, INCLUDE TOES	2
	HAND, INCLUDE FINGERS	2
	BACK (LUMBAR REGION)	1
	BODY SYSTEMS-SPECIFY IN NARRATIVE	1
	HIP(S)	1
	LEG, LOWER	1
	MULTIPLE BODY PARTS	1
ITE	BODY SYSTEMS-SPECIFY IN NARRATIVE	2
	KNEE	2
	ANKLE	1
	BACK (LUMBAR REGION)	1
	CHEST	1
	LEG, LOWER	1

**Table K – 7: PRT**

Activity	1998	1999	2000	2001	2002	2004	2005	2006	2007	2008	FY98-08 Total
JOGGING/RUNNING	4	3	0	1	2	2	9	10	7	13	51
GENERAL	1	0	1	0	0	0	2	1	2	2	9
EXERCISE	0	0	0	0	0	0	1	1	2	0	4
BICYCLING	0	0	0	0	0	0	0	0	1	0	1
MOTOR VEHICLE OPERATIONS	0	0	0	0	0	1	0	0	0	0	1
SWIMMING, INTENTIONAL	0	0	0	0	0	0	0	1	0	0	1
VOLLEYBALL	0	1	0	0	0	0	0	0	0	0	1

**Table K – 8: PRT**

Activity	Diagnoses	FY98-08 Total
JOGGING/RUNNING	SPRAIN	11
	UNCONSCIOUSNESS	8
	TEAR, MUSCLE/LIGAMENT/OTHER BODY PART	7
	OTHER	7
	TRAUMA	5
	STRAIN	3
	DEHYDRATION/FATIGUE	2
	INFARCT	2
	STRESS	2
	INJURY, HEAT	1
	HERNIA	1
	PNEUMO-HEMOTHORAX	1
	Unknown	1
EXERCISE	DISLOCATION	1
	INFARCT	1
	SPRAIN	1
	TRAUMA	1
BICYCLING	UNCONSCIOUSNESS	1
MOTOR VEHICLE OPERATIONS	UNCONSCIOUSNESS	1
SWIMMING, INTENTIONAL	LACERATION	1
VOLLEYBALL	FRACTURE	1

**Table K – 9: PRT**

Activity	Body Part	FY98-08 Total
JOGGING/RUNNING	TOTAL BODY	11
	CHEST	9
	ANKLE	7
	KNEE	6
	LEG, LOWER	5
	INTERNAL ORGANS	2
	SKULL (CRANIUM)	2
	ABDOMEN	1
	FOOT, INCLUDE TOES	1
	HEART	1
	LEG, UPPER/ LEG NOT SPECIFIED	1
	LUNGS	1
EXERCISE	BACK (LUMBAR REGION)	2
	HEART	1
	SHOULDER	1
BICYCLING	BODY SYSTEMS-SPECIFY IN NARRATIVE	1
MOTOR VEHICLE OPERATIONS	BODY SYSTEMS-SPECIFY IN NARRATIVE	1
SWIMMING,INTENTIONAL	HAND, INCLUDE FINGERS	1
VOLLEYBALL	KNEE	1

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