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## Appendix A: Datasets Usage Throughout *IIS*

*agricultural\_chargeoff\_rates\_by\_quarter*: Example 2.6;

*airline\_arrivals*: Example 2.7;

*american\_league\_salary\_2014*: Example 1.6; Page 56, Chapter 1; Exercise 1.3.7; Exercise 1.3.19; Exercise 4.7.13; Exercise 4.B.5;

*arion\_subfuscus*: Example 9.3;

*average\_HDL\_levels*: Example 7.1;

*beer\_head*: Exercise 5.B.17; Exercise 9.2.21;

*body\_temperature\_and\_heart\_rate*: Exercise 5.B.13; Exercise 5.B.14; Exercise 7.6.4; Exercise 7.6.5; Exercise 7.B.7; Exercise 7.B.12; Exercise 9.2.18; Exercise 9.4.1;

*chargeoff\_rates*: Example 2.5; Exercise 2.1.8;

*college\_rankings\_2012*: Exercise 2.B.2;

*delinquency\_rates*: Exercise 2.B.1;

*desimipramine*: Example 8.2; Exercise 8.B.10;

*diamonds\_carats\_color\_cost*: Exercise 7.B.1; Exercise 9.2.19;

*emissions*: Example 2.3; Exercise 2.1.7;

*engineering\_drawing\_hours*: Page 131, Chapter 1; Exercise 1.B.6;

*female\_amerindians*: Example 7.6;

*fmr\_white\_tailed\_deer*: Example 12.3;  
*gender\_roles*: Example 10.2;  
*goggled\_green\_turtles*: Example 9.9;  
*health\_care\_by\_affiliation*: Example 10.3;  
*homes\_prices*: Exercise 7.6.2;  
*house\_lot\_sizes*: Exercise 7.B.8; Exercise 7.B.10; Exercise 9.2.17; Exercise 9.3.1; Exercise 9.4.2;  
*infant\_walking*: Example 9.10;  
*interstitial\_lengths*: Example 1.21;  
*kentucky\_derby\_2012*: Exercise 2.1.9; Exercise 4.B.5;  
*meniscal\_repairs\_load\_at\_failure*: Exercise 9.2.22; Example 12.1;  
*mother\_smoking\_age*: Exercise 2.3.1;  
*mother\_smoking\_education*: Example 2.9;  
*mother\_smoking\_education\_1989\_1993*: Exercise 2.3.2;  
*mother\_smoking\_education\_2010*: Example 2.9;  
*motor\_vehicle\_death\_rate\_2012*: Example 1.10; Example 1.17;  
*movie\_facts*: Exercise 5.B.12; Exercise 7.B.13; Exercise 7.B.14; Exercise 7.B.15; Exercise 9.2.20; Exercise 9.3.3; Exercise 9.3.5;  
*national\_league\_salary\_2014*: Example 1.20; Exercise 1.3.7; Exercise 1.3.19; Exercise 4.7.13;  
*nba\_2015\_2016*: Exercise 2.B.5;  
*osu\_math\_salaries\_2015*: Example 3.1; Exercise 4.B.5;  
*pennies\_age*: First paragraph, Section 7.6; Example 7.8;  
*percentage\_hatched\_eggs*: Example 8.1; Exercise 8.B.1; Exercise 8.B.9;  
*pew\_science\_survey\_by\_age\_group*: Exercise 2.3.5;  
*pew\_science\_survey\_data\_by\_party*: Exercise 2.3.4;  
*pinus\_1997*: Exercise 1.B.16; Example 2.2; Exercise 2.1.5; Example 3.4; Exercise 3.1.10; Exercise 4.7.14; Exercise 4.B.1; Exercise 4.B.5; Exercise 6.C.9; Page 870, Chapter 11; Example 11.4; Exercise 11.A.11;

*pmn\_migration*: Example 7.3;  
*population\_estimates\_2015*: Exercise 2.B.3;  
*presidential\_election\_polls*: Exercise 6.D.7;  
*proportion\_for\_profit\_hospitals*: Example 12.2;  
*q2\_q4\_agricultural\_chargeoff\_rates*: Example 2.6;  
*reading\_habits\_2011*: Example 3.5;  
*school\_report\_cards\_2014*: Example 3.2; Exercise 3.1.7;  
*sheep\_weight*: Example 11.2;  
*state\_cdi*: Exercise 2.3.3;  
*state\_poverty\_levels\_2013*: Exercise 1.1.11;  
*tiaa\_cref*: Exercise 2.1.1; Exercise 2.1.2; Exercise 4.B.5;  
*traffic\_accidents*: Example 1.2;  
*weekly\_salaries*: Example 2.1; Exercise 2.1.3; Exercise 2.1.4;  
*weight\_of\_Euros*: Exercise 5.B.15; Exercise 7.B.4;

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## Appendix B: R Functions Usage Throughout *IIS*

*aggregate()*: Example 3.5;  
*all()*: Example 4.12;  
*apply()*: Example 9.9;  
*as.numeric()*: Exercise 3.1.11;  
*barplot()*: Exercise 1.1.16; Exercise 1.1.27; Example 2.9; Example 3.5;  
*binconf()*: Page 652, Chapter 8; Example 8.3;  
*binom.test()*: Page 440, Chapter 6;  
*boxplot()*: Example 1.12;  
*chisq.test()*: Example 5.11;  
*choose()*: Example 5.8;  
*ConDis.matrix()*: Example 11.5;  
*confint()*: Exercise 11.A.11;  
*cor()*: Section 2.2.1; Example 2.8; Exercise 2.2.3;  
*cor.test()*: Example 11.2; Section 11.2, Practice Exercises; Example 11.5;  
*cumsum()*: Example 4.2;  
*dbinom()*: Example 4.10; Exercise 4.3.3; Exercise 4.3.9; Example 5.5; Example 5.8;  
*dgeom()*: Page 272, Chapter 4;  
*pJCK()*: Example 12.3;

*dmultinom()*: Example 5.6; Page 353, Chapter 5;  
*FindTriples()*: Exercise 1.B.6; Exercise 1.B.12;  
*fisher.test()*: Page 803, Chapter 10; Example 10.3;  
*hist()*: Pages 18, 21, Chapter 1; Example 4.2; Example 5.12; Example 7.3;  
*legend()*: Example 2.6;  
*lm()*: Example 11.3; Example 11.4; Exercise 11.A.11;  
*mean()*: Example 9.9;  
*median()*: Example 8.1;  
*outer()*: Example 1.21; Example 9.3;  
*plot()*: Example 2.1; Example 2.2; Example 2.3; Section 2.1.2; Example 2.6;  
Example 2.7; Example 2.9; Exercise 4.3.3;  
*pbinom()*: Exercise 4.3.9; Example 5.5; Figures 5.2, 5.3, and 5.4; Example  
5.10; Exercise 5.A.1; Exercise 5.B.2; Exercise 5.B.3; Exercise 5.B.8; Exercise  
5.B.9; Page 406, Chapter 5; Page 477, Chapter 6; Example 6.9; Page 497,  
Chapter 6;  
*pchisq()*: Page 386, Chapter 5; Example 10.1; Example 10.2; Example 10.4;  
*pf()*: Example 12.2;  
*phyper()*: Page 803, Chapter 10; Example 10.3;  
*pKW()*: Example 12.1;  
*dmultinom()*: Exercise 5.B.8; Exercise 5.B.9;  
*pnorm()*: Example 4.21; Page 299, Chapter 4; Example 4.22; Example 4.23;  
Example 4.25 (twice); Page 341, Chapter 5; Example 5.2; Example 5.3;  
Exercise 5.B.2; Exercise 5.B.3; Example 9.2;  
*ppoints()*: Page 307, Chapter 4;  
*psignrank()*: Page 556, Chapter 7; Page 557, Chapter 7; Exercise 7.2.3;  
Exercise 7.2.4; Example 8.1;  
*pt()*: Page 585, Chapter 7; Example 7.7; Example 11.1;  
*pwilcox()*: Example 5.7; Example 9.3; Page 693, Chapter 9; Example 9.4;  
Example 9.5; Page 697, Chapter 9;

*qbinom*( ): Exercise 6.A.17; Exercise 6.A.18; Exercise 6.A.20; Page 604, Chapter 7;

*qchisq*( ): Page 386, Chapter 5;

*qf*( ): Exercise 6.A.19; Exercise 6.B.20; Exercise 6.B.22;

*qnorm*( ): Example 4.24;

*qqline*( ): Pages 308, 318, Chapter 4; Exercise 4.B.5;

*qqnorm*( ): Pages 307, 308, Chapter 4; Example 6.5;

*qqplot*( ): Exercise 4.B.5;

*qsignrank*( ): Page 560, Chapter 7; Example 7.3; Exercise 7.2.3; Exercise 7.2.4; Example 8.1;

*qt*( ): Pages 577, 578, Chapter 7; Example 7.6; Example 8.2;

*quantile*( ): Exercise 11.A.12;

*qwilcox*( ): Example 5.7; Page 358, Chapter 5; Example 9.4; Exercise 9.2.8; Exercise 9.2.9;

*rbinom*( ): Exercise 4.1.1; Exercise 4.6.1; Exercise 5.4.7; Exercise 5.4.8;

*read.csv*( ): Exercise 2.D.3;

*replicate*( ): Example 5.12; Example 7.8; Exercise 7.6.2;

*rmultinom*( ): Example 5.11;

*rnorm*( ): Page 396, Chapter 5; Exercise 5.4.6; Exercise 7.3.4; Exercise 7.3.5; Exercise 7.3.6; Exercise 7.3.7;

*rt*( ): Page 586, Chapter 7; Exercise 7.3.3;

*runif*( ): Example 3.3; Exercise 3.1.8; Example 4.2; Page 246, Chapter 4; Exercise 5.4.1; Exercise 5.4.2; Exercise 5.4.3; Exercise 5.4.4; Exercise 5.4.5;

*sample*( ): Example 3.3; Exercise 3.1.9; Example 5.12; Exercise 5.4.9; Exercise 5.4.10; Exercise 5.B.14; Example 7.8; Exercise 7.6.2;

*scatter.smooth*( ): Section 2.1.2; Example 2.5;

*sd*( ): Example 1.10; Example 9.9;

*SIGN.test*( ): Example 7.1; Example 7.2; Page 544, Chapter 7;

*sort*( ): Example 1.21; Example 9.3;

*stem()*: Example 7.3;

*sum()*: Example 4.2;

*summary()*: Example 1.10; Page 68, Chapter 1; Example 4.2; Example 11.4;

*table()*: Exercise 4.B.1;

*t.test()*: Example 7.6; Example 7.7; Example 8.2; Example 9.10; Example 9.11;

*walsh()*: Example 7.3; Example 8.1;

*wilcox.test()*: Page 356, Chapter 5; Example 7.3; Page 562, Chapter 7; Exercise 7.2.11; Exercise 7.2.12; Page 571, Chapter 7; Exercise 7.5.2; Example 8.1; Example 9.4; Example 9.6;

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