University of Central Florida
College of Business

QMB 6911
Capstone Project in Business Analytics

Solutions: Problem Set #3

Summary Satistics

Summary by Country of Manufacture

	China	Korea	USA
Min. Weight	129.0	331.6	600.0
Mean Weight	34.99	280.22	839.00
Max. Weight	200.0	484.9	1095.0
Min. Diameter	129.0	331.6	600.0
Mean Diameter	34.99	280.22	839.00
Max. Diameter	200.0	484.9	1095.0
Min. Width	129.0	331.6	600.0
Mean Width	34.99	280.22	839.00
Max. Width	200.0	484.9	1095.0
Min. Price	129.0	331.6	600.0
Mean Price	34.99	280.22	839.00
Max. Price	200.0	484.9	1095.0

Table 1: Summary by Country of Manufacture

Country of Manufacture by Brand

	China	Korea	USA	Total
3-TAND	15	0	0	15
Abel	0	0	15	15
Allen	0	18	7	25
Aspen	0	0	8	8
Bauer	0	0	2	2
Cheeky	11	0	0	11
ECHO	0	12	0	12
Galvan	0	0	23	23
Hatch	0	0	8	8
Loop	0	14	0	14
Nautilus	0	0	15	15
Orvis	1	0	1	2
Ross	0	0	28	28
Sage	0	6	0	6
Taylor	0	12	0	12
TFO	0	16	0	16
Tibor	0	0	4	4
Waterworks-Lamson	0	8	24	32
Totals	27	86	135	248

Table 2: Country of Manufacture by Brand of Fly Reel

Reel Design by Brand of Fly Reel

	Unsealed	Sealed	Cast	Machined	Total
3-TAND	0	15	0	15	15
Abel	9	6	0	15	15
Allen	8	17	1	24	25
Aspen	8	0	0	8	8
Bauer	0	2	0	2	2
Cheeky	6	5	6	5	11
ECHO	9	3	12	0	12
Galvan	20	3	0	23	23
Hatch	0	8	0	8	8
Loop	0	14	0	14	14
Nautilus	4	11	0	15	15
Orvis	0	2	0	2	2
Ross	21	7	0	28	28
Sage	2	4	0	6	6
Taylor	0	12	0	12	12
TFO	4	12	4	12	16
Tibor	3	1	0	4	4
Waterworks-Lamson	0	32	8	24	32
Totals	94	154	31	217	248

Table 3: Reel Design by Brand of Fly Reel

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Solutions: Problem Set #4

Empirical Distribution Function of Fly Reel Prices
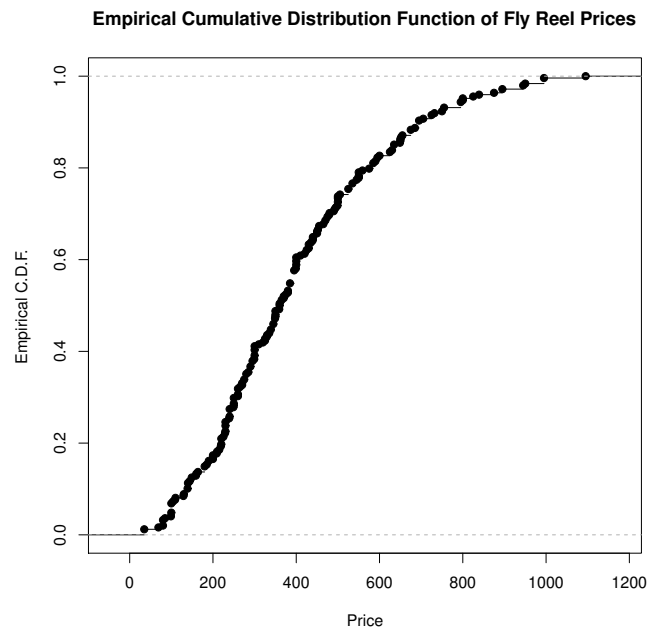

Figure 1: Empirical Distribution Function of Fly Reel Prices

Relative Histogram of Fly Reel Prices

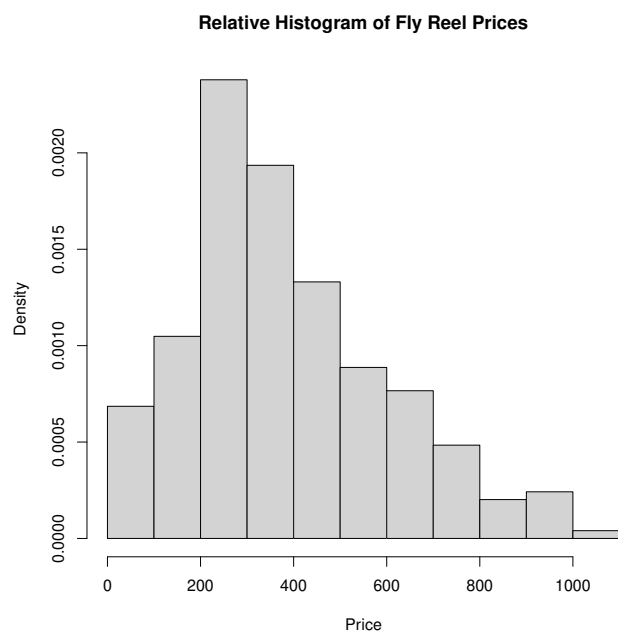**Relative Histogram of Fly Reel Prices**

Figure 2: Relative Histogram of Fly Reel Prices

Probability Density Function of Fly Reel Prices

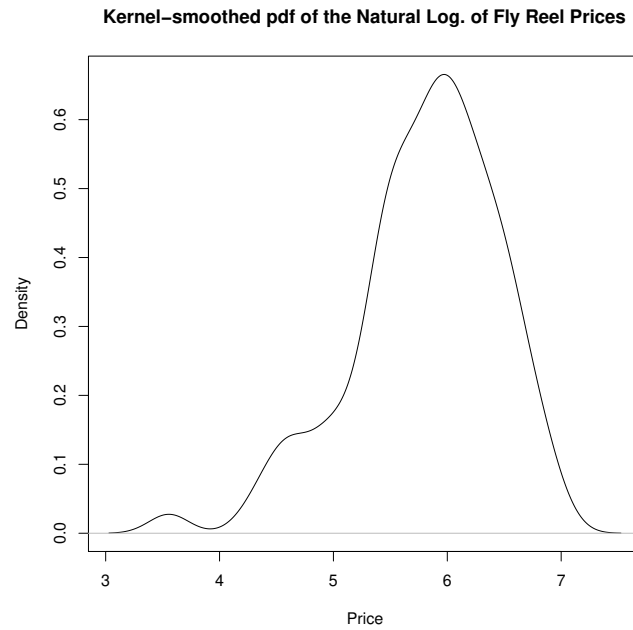This is the kernel-smoothed probability density function of the natural logarithm of price:

Kernel−smoothed pdf of the Natural Log. of Fly Reel Prices

Figure 3: Probability Density Function of Fly Reel Prices

Spring 2021   **Firstname M. Lastname**

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Solutions: Problem Set #x

1. Consider

   a) Now
   b) Then