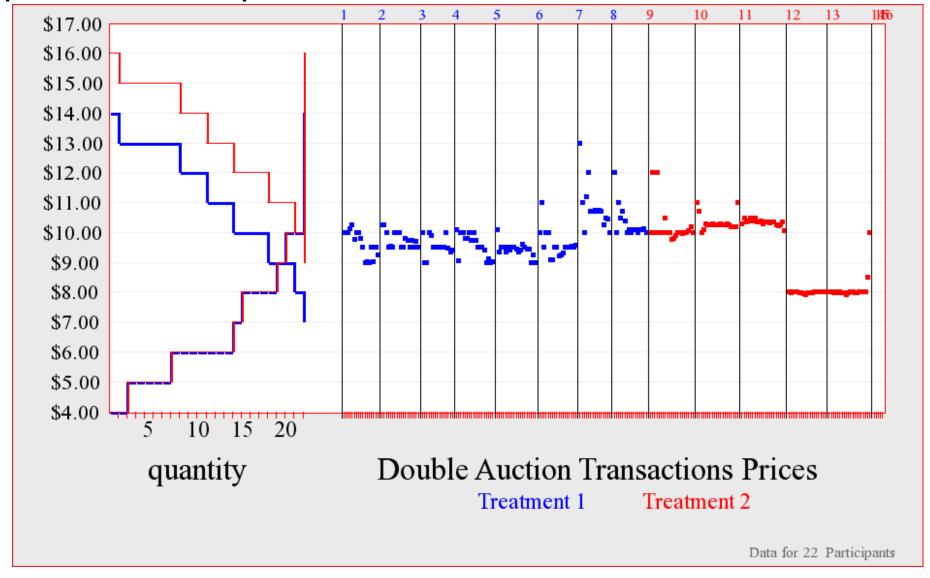
11:00 Experiment

Values and Costs (Treatment 1, Round 1)

Round	Unit	B1	B2	В3	B4	B5	В6	B7	B8	В9	B10	B11
1	1	\$13.00	\$13.00	\$14.00	\$13.00	\$13.00	\$12.00	\$11.00	\$10.00	\$13.00	\$11.00	\$12.00
1	2	\$8.00	\$12.00	\$13.00	\$9.00	\$13.00	\$10.00	\$10.00	\$9.00	\$10.00	\$11.00	\$9.00

Round	Unit	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22
1	1	\$9.00	\$6.00	\$4.00	\$5.00	\$4.00	\$6.00	\$6.00	\$5.00	\$5.00	\$6.00	\$5.00
1	2	\$10.00	\$8.00	\$6.00	\$5.00	\$8.00	\$7.00	\$6.00	\$6.00	\$8.00	\$10.00	\$8.00

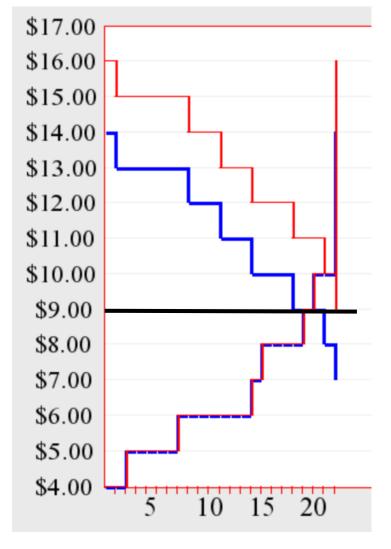
Competitive Equilibrium



Price and Quantity

Round	Expected P*	Average Actual P	Expected Q*	Actual Q	
1	\$9.00	\$9.63	19 – 20	17	
2	\$9.00	\$9.76	19 – 20	18	
3	\$9.00	\$9.54	19 – 20	15	
4	\$9.00	\$9.57	19 – 20	18	
5	\$9.00	\$9.43	19 – 20	19	
6	\$9.00	\$9.59	19 – 20	18	
7	\$10.00	\$10.85	16 – 18	15	
8	\$10.00	\$10.33	16 – 18	16	
9	\$10.00	\$10.20	21 – 22	21	
10	\$10.00	\$10.33	21 – 22	20	
11	\$10.00	\$10.35	21 – 22	21	
12	\$8.00	\$7.99	16 – 19	18	
13	\$8.00	\$8.12	16 - 19	20	

Expected Gains from Exchange: Treatment 1



No Tax

Consumer Surplus = 1 * (14 - 9) = 5 7 * (13 - 9) = 28 3 * (12 - 9) = 9 3 * (11 - 9) = 64 * (10 - 9) = 4

Producer Surplus =

Total = \$52

$$5*(9-5) = 20$$

$$7*(9-6)=21$$

$$1*(9-7)=2$$

$$4*(9-8)=4$$

With Tax

Consumer Surplus =

$$1*(14-10)=4$$

$$7*(13-10)=21$$

$$3*(12-10)=6$$

$$3*(11-10)=3$$

$$4*(10-10)=0$$

Total =
$$$34$$

Producer Surplus =

$$2*(10-6)=8$$

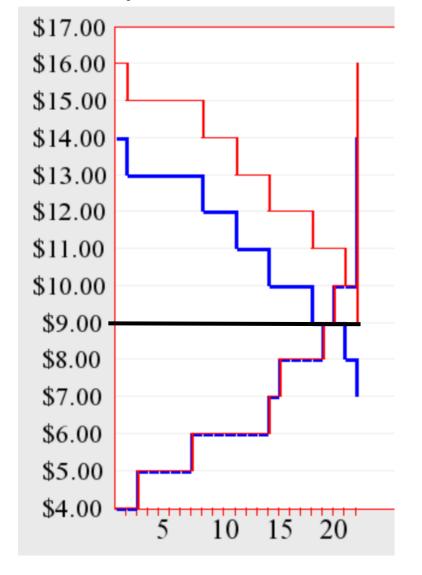
$$5*(10-7)=15$$

$$7*(10-8)=14$$

$$1*(10-9)=1$$

$$3*(10-10)=0$$

Expected Gains from Exchange



Treatment 2, No ceiling Tr. 2, Ceiling (best)

Consumer Surplus =
$$1 * (16 - 10) = 6$$

 $7 * (15 - 10) = 35$
 $3 * (14 - 10) = 12$
 $3 * (13 - 10) = 9$
 $4 * (12 - 10) = 8$
 $3 * (11 - 10) = 3$
Total = \$73

Producer Surplus =
$$2 * (10 - 4) = 12$$

 $5 * (10 - 5) = 25$
 $7 * (10 - 6) = 28$
 $1 * (10 - 7) = 3$
 $4 * (10 - 8) = 8$
 $1 * (10 - 9) = 1$
Total = \$77

Consumer Surplus =
$$1 * (16 - 8) = 8$$

 $7 * (15 - 8) = 49$
 $3 * (14 - 8) = 18$
 $3 * (13 - 8) = 15$
 $4 * (12 - 8) = 16$
 $1 * (11 - 8) = 3$
Total = \$109

Producer Surplus =
$$2 * (8 - 4) = 8$$

 $5 * (8 - 5) = 15$
 $7 * (8 - 6) = 14$
 $1 * (8 - 7) = 1$
 $4 * (8 - 8) = 0$
Total = \$38

Consumer Surplus =
$$1 * (10 - 8) = 2$$

 $3 * (11 - 8) = 24$
 $4 * (12 - 8) = 16$
 $3 * (13 - 8) = 15$
 $3 * (14 - 8) = 18$
 $1 * (11 - 8) = 3$
Total = \$79

Tr. 2, Ceiling (worst)

Producer Surplus =
$$2 * (8 - 4) = 8$$

 $5 * (8 - 5) = 15$
 $7 * (8 - 6) = 14$
 $1 * (8 - 7) = 1$
 $4 * (8 - 8) = 0$
Total = \$38

Potential vs. Realized Gains

Round	Exp. CS	Real. CS	Exp. PS	Real. PS	Exp. Gains	Real. Gains	Efficiency
1	52	40.26	57	62.74	109	103	94.5%
2	52	38.40	57	66.60	109	105	96.3%
3	52	38.88	57	57.12	109	96	88.1%
4	52	40.75	57	60.25	109	101	92.7%
5	52	43.85	57	62.15	109	106	97.2%
6	52	41.40	57	64.60	109	106	97.2%
7	32	21.28	38	48.72	109/72	70	64.2%/97.2%
8	32	28.77	38	43.23	109/72	72	66.1%/100%
9	73	68.85	77	81.15	150	150	100%
10	73	65.37	77	81.63	150	147	98.0%
11	73	65.75	77	84.25	150	150	100%
12	79/109	98.21	38	37.79	117/147/150	136	92.5%/90.7%
13	79/109	105.66	38	38.34	117/147/150	144	98.0%/96.0%