ECO 426 (Market Design) - Lecture 9

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- equilibrium bidding must reflect the information contained in the event you are winning



Bidding in a common value second price auction

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 - public info will on average be good news when the high bidder has high value, reducing the winner's profit when it is high

Examples of common value auctions

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- Question: What is different between these two types of sales?

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TABLE 1—SELECTED STATISTICS ON WILDCAT AND DRAINAGE TRACTS^a

	Wildcat	Drainage
Number of Tracts	1056	144
Number of Tracts Drilled	748	124
Number of Productive Tracts	385	86
Average Winning Bid	2.67	5.76
<u> </u>	(0.18)	(1.07)
Average Net Profits	1.22	4.63
	(0.50)	(1.59)
Average Tract Value	5.27	13.51
	(0.64)	(2.84)
Average Number of Bidders	3.46	2.73

^aSource: Kenneth Hendricks, Robert Porter, and Bryan Boudreau (1987). Dollar figures are in millions of \$1972. The numbers in parentheses are standard deviations of the sample means.

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 drainage sales more profitable than wildcat sale (for the bidders)

TABLE 3 - SAMPLE STATISTICS ON TRACTS WON BY EACH TYPE OF FIRM^a

	Wins by Neighbor Firms		Wins by Non-Neighbor Firms		
	A	Total	В	С	Total
No. of Tracts	35	59	19	36	55
No. of Tracts Drilled	23	47	18	33	51
No. of Productive Tracts	16	36	12	19	31
Average Winning Bid	3.28	6.04	2.15	6.30	4.87
	(0.56)	(2.00)	(0.67)	(1.31)	(0.92
Average Gross Profits	10.05	12.75	-0.54	7.08	4.45
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Average Net Profits	6.76	6.71	- 2.69	0.78	-0.42
	(3.02)	(2.69)	(0.86)	(2.64)	(1.76

^aDollar figures are in millions of \$1972. The numbers in parentheses are the standard deviations of the sample means. Column A refers to tracts which received no non-neighbor firm bid, column B refers to tracts which received no neighbor bid, and column C to those in which a neighbor firm bid, but a non-neighbor firm won the tract.

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