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## EC98-823 1998 Nebraska Farm Custom Rates - Part I

H. Douglas Jose

*University of Nebraska-Lincoln*, [hjose1@unl.edu](mailto:hjose1@unl.edu)

William L. Miller

*University of Nebraska-Lincoln*

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# 1998 Nebraska Farm Custom Rates - Part I

H. Douglas Jose, Extension Farm Specialist  
William Miller, Extension Economist

Every two years a survey of custom operations is conducted to determine the current rates charged for specific machinery operations. The survey is divided into two parts: spring and summer operations, including planting and small grains harvest in Part I, and information about fall and miscellaneous operations in Part II.

The responses are reported by the Agricultural Statistics Districts shown on the map below. Custom rates reported include charges for the use of necessary equipment, fuel and supplies such as baling wire or twine provided by the custom operator, and labor. Seed, fertilizer and chemical costs are not included unless so indicated.

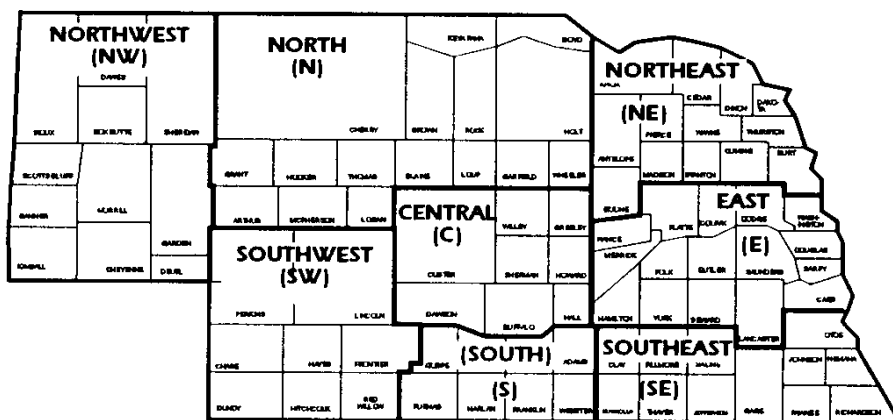
This survey is not based on a random sample of custom operators in Nebraska. Questionnaires were sent to all the names on our custom operators mailing list. Thus, the results reflect the average of those responding to specific questions and may not be representative of the rates charged in a particular area. The **Average Rate** should provide an accurate estimate of the prevailing charge for a specific operation, particularly if there are a large number of responses. The **Most Common Rate** is the rate reported more often than any other for that practice. Usually the Average Rate and Most Common Rate are similar. The Average Rate is calculated to the nearest cent, while the Most Common Rate is more generally reported to the nearest dollar. The **Range** gives the minimum and maximum amounts reported. It indicates the range of conditions under which the work was performed. The range also may reflect the fact that some rates consider travel to and from the field while others do not.

The rates do not necessarily measure the full economic cost of performing the work specified. Some custom operators may only charge for the operating costs of fuel and labor. Other operators may charge for all costs including depreciation on equipment and a charge for risk. Field conditions such as size, terrain and location vary, which will account for some of the range in the rates charged. Estimates of the costs of owning and operating farm machinery are available from the authors to compare with these custom rates.

The information presented here should be used only as a guide to rates charged in localized areas and under unique conditions. Rates change from year to year due to cost changes and the availability of custom operators. For example, the rates reported in this publication were the prevailing rates in the Spring of 1998. In determining the rates for 1999, custom operators and farm owners should consider changes in the costs of machinery, labor and fuel.

Assume the cost of a machinery operation is comprised as follows: Tractor, ownership and repairs - 40 percent; Other machine, ownership and repairs - 15 percent; Fuel and lubrication - 25 percent; Labor - 20 percent. If the price of tractors increased by 5 percent from 1998 to 1999, the change for the custom operation would need to be increased by 2 percent (.05 X .4) to continue to cover all operating costs.

Inquiries or requests to be added to the respondents list can be directed to H. Douglas Jose, University of Nebraska-Lincoln, 304 Filley Hall, P.O. Box 830922, Lincoln, NE 68583-0922. Phone: 402-472-1749; Fax: 402-472-0776; email: agec086@unlvm.unl.edu.



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**1996 FARM CUSTOM RATES (PART I)**  
*Reported by Crop Reporting District, in Dollars Unless Otherwise Specified*

	NW	N	NE	C	E	SW	S	SE	State
<b>CUSTOM CONTRACT FARMING</b>									
<b>DRYLAND CORN (AVERAGE TIMES OVER FIELD = 4), PER ACRE</b>									
Number Reporting	#	#	6	#	7	#	#	5	24
Average Rate	-	-	50.50	-	56.57	-	-	49.00	51.46
Range	-	-	10.00-78.00	-	45.00-65.00	-	-	30.00-70.00	10.00-78.00
Most Common	-	-	60.00	-	60.00	-	-	70.00	60.00
<b>IRRIGATED CORN (AVERAGE TIMES OVER FIELD = 6), PER ACRE</b>									
Number Reporting	4	#	6	4	14	#	#	9	41
Average Rate	85.00	-	59.25	58.50	74.50	-	-	82.61	72.52
Range	70.00-100.00	-	45.00-78.00	14.00-85.00	55.00-135.00	-	-	27.50-125.00	14.00-135.00
Most Common	-	-	-	-	70.00	-	-	88.00	70.00
<b>GRAIN SORGHUM (AVERAGE TIMES OVER FIELD = 4), PER ACRE</b>									
Number Reporting	#	#	#	#	#	#	#	4	13
Average Rate	-	-	-	-	-	-	-	44.00	45.69
Range	-	-	-	-	-	-	-	30.00-60.00	15.00-60.00
Most Common	-	-	-	-	-	-	-	30.00	50.00
<b>SOYBEANS (AVERAGE TIMES OVER FIELD = 5), PER ACRE</b>									
Number Reporting	#	#	#	#	6	#	#	7	23
Average Rate	-	-	-	-	57.33	-	-	63.43	55.70
Range	-	-	-	-	44.00-70.00	-	-	36.00-88.00	17.00-88.00
Most Common	-	-	-	-	70.00	-	-	70.00	70.00
<b>WINTER WHEAT, NO FALLOW GROUND, (AVERAGE TIMES OVER FIELD = 4) PER ACRE</b>									
Number Reporting	#	#	#	#	#	#	#	#	7
Average Rate	-	-	-	-	-	-	-	-	43.60
Range	-	-	-	-	-	-	-	-	20.00-75.00
Most Common	-	-	-	-	-	-	-	-	40.00
<b>WINTER WHEAT, WITH FALLOW GROUND, (AVERAGE TIMES OVER FIELD = 6), PER ACRE</b>									
Number Reporting	#	#	#	#	#	#	#	#	9
Average Rate	-	-	-	-	-	-	-	-	45.33
Range	-	-	-	-	-	-	-	-	30.00-70.00
Most Common	-	-	-	-	-	-	-	-	45.00
<b>FERTILIZING (EXCLUDING COST OF FERTILIZER)</b>									
<b>ANHYDROUS AMMONIA, CONVENTIONAL KNIFE, INCLUDING POWER, LABOR &amp; APPLICATOR, PER ACRE</b>									
Number Reporting	7	4	7	#	20	4	6	19	68
Average Rate	6.60	6.25	7.45	-	6.61	5.63	6.50	6.55	6.59
Range	4.50-10.00	5.00-10.00	5.00-14.00	-	3.50-10.00	5.00-6.50	5.50-7.00	4.50-8.00	3.50-14.00
Most Common	6.50	5.00	6.00	-	6.00	5.00	6.00	7.00	6.00
<b>ANHYDROUS AMMONIA, CONVENTIONAL KNIFE, APPLICATOR RENTAL ONLY, PER ACRE</b>									
Number Reporting	#	#	#	#	4	#	#	6	18
Average Rate	-	-	-	-	2.75	-	-	2.63	2.43
Range	-	-	-	-	1.00-4.50	-	-	1.00-6.00	.75-6.00
Most Common	-	-	-	-	-	-	-	1.50	1.50
<b>ANHYDROUS AMMONIA, CONVENTIONAL KNIFE, APPLICATOR RENTAL ONLY, PER TON</b>									
Number Reporting	#	#	#	#	4	#	#	#	10
Average Rate	-	-	-	-	11.50	-	-	-	10.55
Range	-	-	-	-	2.00-20.00	-	-	-	1.50-25.00
Most Common	-	-	-	-	12.00	-	-	-	12.00
<b>ANHYDROUS AMMONIA, KNIFE WITH COULTERS, INCLUDING POWER, LABOR &amp; APPLICATOR, PER ACRE</b>									
Number Reporting	6	4	4	4	26	#	#	27	76
Average Rate	7.15	5.25	7.65	6.88	6.65	-	-	7.11	6.84
Range	4.25-11.00	5.00-6.00	2.50-15.00	6.00-8.00	4.50-10.00	-	-	5.00-10.00	2.50-15.00
Most Common	-	5.00	-	-	7.50	-	-	7.00	7.00
<b>ANHYDROUS AMMONIA, KNIFE WITH COULTERS, APPLICATOR RENTAL ONLY, PER ACRE</b>									
Number Reporting	#	#	#	#	5	#	#	4	16
Average Rate	-	-	-	-	3.90	-	-	2.50	2.89
Range	-	-	-	-	2.00-7.00	-	-	1.50-3.00	1.00-7.00
Most Common	-	-	-	-	-	-	-	3.00	3.00
<b>ANHYDROUS AMMONIA, KNIFE WITH COULTERS, APPLICATOR RENTAL ONLY, PER TON</b>									
Number Reporting	#	#	#	#	6	#	#	#	13
Average Rate	-	-	-	-	11.25	-	-	-	13.08
Range	-	-	-	-	1.00-25.00	-	-	-	1.00-30.00
Most Common	-	-	-	-	15.00	-	-	-	10.00
<b>DRY FERTILIZERS, INCLUDING POWER, LABOR &amp; APPLICATOR, PER ACRE</b>									
Number Reporting	6	6	10	4	17	#	7	12	64
Average Rate	3.80	3.21	3.45	4.13	4.18	-	3.86	3.81	3.82
Range	2.50-5.00	2.75-4.00	2.00-5.00	3.00-6.00	1.50-8.00	-	3.25-4.08	3.00-5.00	1.50-8.00
Most Common	4.00	3.00	2.00	-	4.00	-	3.50	3.00	4.00

# Too few responses to publish

	NW	N	NE	C	E	SW	S	SE	State
<b>DRY FERTILIZERS, APPLICATOR RENTAL ONLY, PER ACRE</b>									
Number Reporting	4	#	#	#	6	#	#	5	23
Average Rate	3.10	-	-	-	2.25	-	-	2.04	2.46
Range	1.00-5.00	-	-	-	.50-5.00	-	-	.70-5.00	.50-5.00
Most Common	-	-	-	-	2.00	-	-	-	2.00
<b>DRY FERTILIZERS, APPLICATOR RENTAL ONLY, PER TON</b>									
Number Reporting	#	#	#	#	4	#	#	#	13
Average Rate	-	-	-	-	4.50	-	-	-	4.92
Range	-	-	-	-	1.00-6.00	-	-	-	1.00-10.00
Most Common	-	-	-	-	6.00	-	-	-	6.00
<b>LIQUID FERTILIZERS, INCLUDING POWER, LABOR &amp; APPLICATOR, PER ACRE</b>									
Number Reporting	7	#	8	6	21	6	6	21	78
Average Rate	4.70	-	4.40	3.67	4.14	4.25	3.71	3.81	4.06
Range	3.50-9.00	-	3.50-6.00	2.50-6.00	3.00-6.00	3.50-7.00	3.25-4.25	3.00-5.00	2.50-9.00
Most Common	3.50	-	4.00	3.50	4.00	3.50	4.00	3.50	4.00
<b>LIQUID FERTILIZERS, APPLICATOR RENTAL ONLY, PER ACRE</b>									
Number Reporting	#	#	#	#	#	#	#	#	16
Average Rate	-	-	-	-	-	-	-	-	3.19
Range	-	-	-	-	-	-	-	-	1.50-5.00
Most Common	-	-	-	-	-	-	-	-	3.00
<b>HARVESTING SMALL GRAIN (WHEAT, OATS &amp; BARLEY)</b>									
<b>COMBINING SMALL GRAIN, FLAT CHARGE, PER ACRE</b>									
Number Reporting	8	#	14	#	25	7	#	35	94
Average Rate	14.00	-	17.60	-	20.88	17.29	-	19.00	18.61
Range	10.00-20.00	-	10.00-22.00	-	15.00-25.00	13.00-22.00	-	15.00-26.00	10.00-26.00
Most Common	15.00	-	20.00	-	20.00	20.00	-	20.00	20.00
<b>COMBINING SMALL GRAINS, FLAT CHARGE PLUS FEE PER BUSHEL FOR HIGH YIELDS, PER ACRE</b>									
Number Reporting	20	#	#	#	5	8	4	8	52
Average Rate	13.25	-	-	-	16.60	13.25	13.50	14.75	14.23
Range	11.00-20.00	-	-	-	13.00-20.00	12.00-15.00	13.00-14.00	11.00-20.00	11.00-20.00
Most Common	13.00	-	-	-	15.00	13.00	13.00	15.00	13.00
<b>ADDITIONAL FEE PER BUSHEL FOR CROPS YIELDING OVER 20 BUSHEL PER ACRE</b>									
Number Reporting	22	#	#	#	#	8	4	7	49
Average Rate	.13	-	-	-	-	.13	.16	.09	.12
Range	.11-.15	-	-	-	-	.12-.14	.12-.25	.05-.15	.05-.25
Most Common	.13	-	-	-	-	.13	-	.05	.13
<b>COMBINING SMALL GRAIN, COMBINATION CHARGE REGARDLESS OF YIELD, PER ACRE</b>									
Number Reporting	#	#	#	#	#	#	#	#	14
Average Rate	-	-	-	-	-	-	-	-	18.21
Range	-	-	-	-	-	-	-	-	12.00-25.00
Most Common	-	-	-	-	-	-	-	-	20.00
<b>ADDITIONAL FEE, FOR EACH BUSHEL</b>									
Number Reporting	#	#	#	#	#	#	#	#	9
Average Rate	-	-	-	-	-	-	-	-	.12
Range	-	-	-	-	-	-	-	-	.02-.22
Most Common	-	-	-	-	-	-	-	-	.15
<b>HAULING SMALL GRAINS FROM COMBINE TO STORAGE, FLAT RATE, PER BUSHEL</b>									
Number Reporting	24	4	10	7	20	10	10	29	114
Average Rate	.12	.07	.07	.08	.07	.15	.13	.07	.09
Range	.10-.15	.05-.10	.05-.10	.04-.15	.03-.12	.06-.50	.05-.50	.03-.13	.03-.50
Most Common	.13	.05	.05	-	.05	.13	.05	.05	.05
<b>HAULING SMALL GRAINS, EXTRA CHARGE, PER BUSHEL, FOR HAULS OVER 10 MILES</b>									
Number Reporting	9	#	#	#	7	6	5	19	52
Average Rate	.04	-	-	-	.05	.05	.11	.07	.06
Range	.01-.10	-	-	-	.01-.15	.01-.13	.01-.25	.01-.33	.01-.33
Most Common	.01	-	-	-	.01	.01	-	.02	.01
<b>WINDROWING GRAIN CROPS, PER ACRE</b>									
Number Reporting	23	#	12	#	4	5	#	4	50
Average Rate	8.15	-	6.95	-	8.50	9.20	-	9.25	8.05
Range	7.00-10.00	-	6.00-10.00	-	6.00-10.00	6.00-16.00	-	6.00-16.00	6.00-16.00
Most Common	8.00	-	6.00	-	10.00	7.00	-	-	8.00
<b>HAYING AND BALING</b>									
<b>BALING SMALL SQUARE BALES WITH TWINE TIE, (AVERAGE LBS./BALE = 65), PER BALE</b>									
Number Reporting	4	#	10	4	16	4	#	16	57
Average Rate	.48	-	.45	.53	.46	.60	-	.33	.46
Range	.25-.75	-	.25-.75	.35-.75	.30-.65	.40-1.00	-	.23-.40	.23-2.00
Most Common	-	-	.40	.50	.40	.50	-	.35	.40
<b>BALING SMALL SQUARE BALES WITH WIRE TIE, (AVERAGE LBS./BALE = 65), PER BALE</b>									
Number Reporting	#	#	#	#	14	#	#	7	28
Average Rate	-	-	-	-	.51	-	-	.43	.55
Range	-	-	-	-	.35-1.00	-	-	.35-.50	.35-2.00
Most Common	-	-	-	-	.35	-	-	.45	.45

# Too few responses to publish

	NW	N	NE	C	E	SW	S	SE	State
<b>BALING LARGE ROUND BALES, (AVERAGE LBS./BALE = 1450), PER BALE</b>									
Number Reporting	12	9	25	11	39	10	10	53	169
Average Rate	7.30	9.36	6.40	7.23	7.24	7.45	6.65	7.55	7.31
Range	5.00-9.00	5.50-20.00	5.00-8.00	4.00-13.50	5.00-15.00	4.00-12.00	6.00-8.00	5.00-10.00	4.00-20.00
Most Common	7.00	7.00	6.00	6.00	6.00	7.00	6.00	7.00	7.00
<b>BALING LARGE SQUARE BALES, (AVERAGE LBS./BALE = 1380), PER BALE</b>									
Number Reporting	7	#	6	4	6	#	#	11	39
Average Rate	11.40	-	8.00	9.50	10.17	-	-	8.27	9.82
Range	9.00-13.50	-	5.00-10.00	6.00-13.00	6.00-15.00	-	-	5.50-12.00	5.00-15.00
Most Common	12.00	-	10.00	-	-	-	-	8.50	10.00
<b>CHOPPING OF WILTED ALFALFA OR FORAGE, PER ACRE</b>									
Number Reporting	#	#	#	#	#	#	#	#	6
Average Rate	-	-	-	-	-	-	-	-	20.17
Range	-	-	-	-	-	-	-	-	6.00-40.00
Most Common	-	-	-	-	-	-	-	-	20.00
<b>CHOPPING OF WILTED ALFALFA OR FORAGE, PER HOUR</b>									
Number Reporting	#	#	4	#	#	#	#	#	11
Average Rate	-	-	97.50	-	-	-	-	-	112.27
Range	-	-	30.00-160.00	-	-	-	-	-	30.00-300.00
Most Common	-	-	100.00	-	-	-	-	-	100.00
<b>LOADING AND MOVING LARGE ROUND BALES WITH TRACTOR (AVE DISTANCE 1.6 MI) PER BALE</b>									
Number Reporting	4	4	4	5	9	#	#	9	40
Average Rate	1.88	1.50	1.00	1.60	2.44	-	-	1.81	1.89
Range	.50-3.00	1.00-2.00	1.00-1.00	1.00-2.00	1.00-5.00	-	-	1.00-3.50	.50-5.00
Most Common	2.00	-	1.00	2.00	2.00	-	-	1.00	2.00
<b>LOADING AND STACKING SMALL BALES, PER BALE</b>									
Number Reporting	#	#	6	#	4	#	#	#	15
Average Rate	-	-	.26	-	.17	-	-	-	.26
Range	-	-	.10-.50	-	.10-.25	-	-	-	.10-.50
Most Common	-	-	.20	-	.10	-	-	-	.20
<b>LOADING AND STACKING SMALL BALES WITH SP WAGON, (AVERAGE DISTANCE 2 MI), PER LOAD</b>									
Number Reporting	#	#	#	#	#	#	#	#	10
Average Rate	-	-	-	-	-	-	-	-	.41
Range	-	-	-	-	-	-	-	-	.50-5.00
Most Common	-	-	-	-	-	-	-	-	.35
<b>MECHANIZED SELF-CONTAINED LOOSE HAY STACKER, PER TON</b>									
Number Reporting	#	#	4	#	#	#	#	#	9
Average Rate	-	-	7.55	-	-	-	-	-	8.19
Range	-	-	7.00-8.00	-	-	-	-	-	3.50-14.00
Most Common	-	-	8.00	-	-	-	-	-	8.00
<b>MOWING, PER ACRE</b>									
Number Reporting	#	5	7	#	13	#	#	11	42
Average Rate	-	5.20	6.20	-	6.65	-	-	5.60	6.38
Range	-	3.50-7.50	5.00-8.00	-	3.50-10.00	-	-	3.00-8.00	3.00-12.00
Most Common	-	-	6.00	-	10.00	-	-	7.00	7.00
<b>RAKING, PER ACRE</b>									
Number Reporting	4	6	10	#	15	#	#	11	52
Average Rate	2.65	2.91	3.20	-	4.50	-	-	3.45	3.63
Range	1.00-3.50	2.00-4.00	2.00-6.00	-	2.00-10.00	-	-	1.00-6.00	1.00-10.00
Most Common	3.00	3.00	2.00	-	3.00	-	-	3.00	3.00
<b>MOWING AND RAKING, PER ACRE</b>									
Number Reporting	5	4	#	#	8	#	#	4	25
Average Rate	8.40	7.90	-	-	9.50	-	-	9.50	9.18
Range	3.00-15.00	6.00-11.50	-	-	2.50-15.00	-	-	6.00-15.00	2.50-15.00
Most Common	-	6.00	-	-	10.00	-	-	-	10.00
<b>STACKING LOOSE HAY-TRACTOR MOUNTED, PER HOUR</b>									
Number Reporting	#	#	#	#	#	#	#	#	5
Average Rate	-	-	-	-	-	-	-	-	21.40
Range	-	-	-	-	-	-	-	-	15.00-30.00
Most Common	-	-	-	-	-	-	-	-	20.00
<b>SWATHING WITH CRUSHING/CRIMPING, PER HOUR</b>									
Number Reporting	#	#	#	4	6	#	#	24	46
Average Rate	-	-	-	57.40	57.10	-	-	60.00	57.47
Range	-	-	-	50.00-70.00	17.50-100.00	-	-	30.00-90.00	10.00-100.00
Most Common	-	-	-	-	50.00	-	-	60.00	60.00
<b>SWATHING WITH CRUSHING/CRIMPING, PER ACRE</b>									
Number Reporting	14	6	30	13	34	7	7	39	150
Average Rate	9.75	8.05	7.40	7.12	8.21	9.71	7.00	7.88	8.00
Range	8.00-15.00	6.00-9.50	6.00-12.00	5.00-8.00	6.00-12.00	5.00-14.00	5.00-8.00	5.00-10.00	5.00-15.00
Most Common	8.00	-	7.00	7.00	8.00	10.00	7.00	8.00	8.00
<b>SWATHING WITHOUT CRUSHING/CRIMPING, PER HOUR</b>									
Number Reporting	#	#	#	#	#	#	#	#	9
Average Rate	-	-	-	-	-	-	-	-	45.00
Range	-	-	-	-	-	-	-	-	10.00-65.00
Most Common	-	-	-	-	-	-	-	-	65.00

# Too few responses to publish

	NW	N	NE	C	E	SW	S	SE	State
<b>SWATHING WITHOUT CRUSHING/CRIMPING, PER ACRE</b>									
Number Reporting	8	#	6	#	7	#	#	8	36
Average Rate	8.40	-	7.15	-	7.43	-	-	7.06	7.97
Range	6.00-10.00	-	6.00-10.00	-	6.00-10.00	-	-	4.00-9.00	4.00-15.00
Most Common	10.00	-	7.00	-	6.00	-	-	7.00	7.00
<b>PLANTING AND DRILLING</b>									
<b>DRILLING SMALL GRAINS, CONVENTIONAL DRILL, PER ACRE</b>									
Number Reporting	25	9	10	5	20	13	#	18	103
Average Rate	6.54	8.40	7.50	7.10	6.73	7.19	-	7.36	7.10
Range	4.00-14.00	4.00-12.00	4.00-10.00	4.00-9.00	3.00-10.00	5.00-12.50	-	5.00-10.00	3.00-14.00
Most Common	8.00	8.00	8.00	8.00	-	6.00	6.00	7.00	8.00
<b>DRILLING SMALL GRAINS, NO-TILL DRILL, PER ACRE</b>									
Number Reporting	11	4	9	#	17	7	#	31	82
Average Rate	9.91	9.75	10.45	-	10.53	9.14	-	10.85	10.44
Range	5.00-16.00	7.00-14.00	8.00-14.00	-	7.00-15.00	6.00-15.00	-	6.00-16.00	5.00-16.00
Most Common	8.00	-	10.00	-	12.00	8.00	-	10.00	10.00
<b>DRILLING SOYBEANS, CONVENTIONAL DRILL, PER ACRE</b>									
Number Reporting	#	6	12	4	20	#	#	16	63
Average Rate	-	7.75	8.70	9.00	7.95	-	-	8.03	8.50
Range	-	5.00-10.00	4.00-13.00	8.00-10.00	5.00-10.00	-	-	6.00-15.00	4.00-20.00
Most Common	-	10.00	8.00	9.00	8.00	-	-	7.00	8.00
<b>DRILLING SOYBEANS, NO-TILL DRILL, PER ACRE</b>									
Number Reporting	#	#	21	4	72	#	#	45	106
Average Rate	-	-	11.26	9.50	10.72	-	-	11.60	11.24
Range	-	-	8.00-15.00	5.00-12.00	5.00-20.00	-	-	6.00-18.00	5.00-22.00
Most Common	-	-	10.00	12.00	10.00	-	-	10.00	10.00
<b>LISTING, WITH BAND APPLICATION, PER ACRE</b>									
Number Reporting	#	#	#	#	#	#	#	#	7
Average Rate	-	-	-	-	-	-	-	-	9.57
Range	-	-	-	-	-	-	-	-	5.00-15.00
Most Common	-	-	-	-	-	-	-	-	10.00
<b>LISTING, WITHOUT BAND APPLICATION, PER ACRE</b>									
Number Reporting	#	#	#	#	#	#	#	#	5
Average Rate	-	-	-	-	-	-	-	-	9.20
Range	-	-	-	-	-	-	-	-	5.00-13.00
Most Common	-	-	-	-	-	-	-	-	9.00
<b>PLANTING DRY EDIBLE BEANS, PER ACRE</b>									
Number Reporting	15	#	#	#	#	9	#	#	31
Average Rate	10.80	-	-	-	-	11.06	-	-	10.80
Range	5.00-22.00	-	-	-	-	10.00-15.00	-	-	5.00-22.00
Most Common	12.00	-	-	-	-	10.00	-	-	12.00
<b>PLANTING ROW CROPS, NO-TILL, WITH BAND APPLICATION, PER ACRE</b>									
Number Reporting	9	5	9	7	16	10	4	24	84
Average Rate	12.40	12.50	11.40	9.86	9.28	11.15	11.00	10.10	10.62
Range	8.00-26.00	10.50-15.00	9.50-15.00	6.50-14.00	6.00-15.00	8.00-15.00	8.00-14.00	6.00-15.00	6.00-26.00
Most Common	12.00	12.00	10.00	9.00	10.00	11.00	-	12.00	12.00
<b>PLANTING ROW CROPS, NO-TILL, WITHOUT BAND APPLICATOR, PER ACRE</b>									
Number Reporting	4	4	13	#	19	9	#	26	81
Average Rate	12.25	11.50	9.65	-	7.76	9.78	-	9.40	9.35
Range	8.00-20.00	10.00-15.00	7.00-13.50	-	5.00-12.00	7.00-12.00	-	6.50-12.00	5.00-20.00
Most Common	-	10.00	10.00	-	10.00	10.00	-	10.00	10.00
<b>PLANTING ROW CROPS, WITH COULTERS, WITH BAND APPLICATION, PER ACRE</b>									
Number Reporting	7	4	12	#	13	9	5	4	57
Average Rate	13.14	11.40	11.35	-	9.45	11.89	11.40	12.40	11.31
Range	8.00-26.00	8.00-15.00	9.00-17.00	-	6.00-12.50	8.00-15.00	9.00-15.00	7.00-18.00	6.00-26.00
Most Common	13.00	-	10.00	-	10.00	11.00	-	-	10.00
<b>PLANTING ROW CROPS, WITH COULTERS, WITHOUT BAND APPLICATION, PER ACRE</b>									
Number Reporting	5	#	4	#	12	7	#	7	42
Average Rate	12.00	-	10.75	-	8.21	10.57	-	9.79	9.85
Range	8.00-20.00	-	7.00-13.50	-	5.00-12.00	8.00-12.00	-	7.00-12.50	5.00-20.00
Most Common	10.00	-	-	-	7.00	12.00	-	12.00	12.00
<b>PLANTING ROW CROPS, WITH ROW CLEANING, WITH BAND APPLICATION, PER ACRE</b>									
Number Reporting	9	4	5	9	20	8	5	8	68
Average Rate	13.40	10.40	11.70	10.90	10.60	11.44	11.20	11.80	11.35
Range	8.00-26.00	7.50-12.00	8.50-17.00	8.50-14.00	4.00-15.00	8.00-15.00	8.00-15.00	7.00-23.00	4.00-26.00
Most Common	15.00	12.00	-	8.50	12.50	15.00	-	10.00	15.00
<b>PLANTING ROW CROPS, WITH ROW CLEANING, WITHOUT BAND APPLICATION, PER ACRE</b>									
Number Reporting	#	#	4	8	8	6	4	6	41
Average Rate	-	-	10.15	10.45	8.69	9.50	8.25	10.00	9.84
Range	-	-	7.50-12.00	5.00-13.00	5.50-11.00	7.00-12.00	7.00-10.00	9.40-10.50	8.00-20.00
Most Common	-	-	-	12.00	10.00	-	8.00	10.00	10.00

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	NW	N	NE	C	E	SW	S	SE	State
<b>PLANTING SUGAR BEETS, PER ACRE</b>									
Number Reporting	#	#	#	#	#	#	#	#	7
Average Rate	-	-	-	-	-	-	-	-	12.71
Range	-	-	-	-	-	-	-	-	5.00-24.00
Most Common	-	-	-	-	-	-	-	-	15.00
<b>SEEDING GRASS SEED, PER ACRE</b>									
Number Reporting	5	7	7	#	7	#	#	6	38
Average Rate	10.20	10.00	8.90	-	6.00	-	-	8.42	8.71
Range	8.00-14.00	4.00-18.00	7.00-10.00	-	2.00-12.00	-	-	5.00-10.00	2.00-18.00
Most Common	10.00	8.00	10.00	-	-	-	-	10.00	10.00
<b>SEEDING LEGUMES, PER ACRE</b>									
Number Reporting	9	5	6	8	13	4	#	6	53
Average Rate	9.61	9.70	8.70	8.25	8.10	7.94	-	9.17	8.68
Range	6.00-20.00	8.00-12.00	7.00-10.00	3.25-12.00	2.00-12.00	3.75-10.00	-	7.00-12.00	2.00-20.00
Most Common	10.00	10.00	10.00	8.00	10.00	10.00	-	9.00	10.00
<b>POST PLANTING OPERATIONS</b>									
<b>CULTIVATION TILLAGE, CONVENTIONAL CROP CULTIVATOR, PER ACRE</b>									
Number Reporting	10	9	15	6	19	11	#	10	83
Average Rate	7.20	6.60	5.84	6.85	5.87	6.35	-	6.38	6.31
Range	5.00-12.00	4.00-8.00	4.50-7.50	5.50-10.00	3.00-10.00	5.00-10.00	-	5.00-12.00	3.00-14.00
Most Common	5.00	7.50	6.00	6.00	6.00	6.00	-	6.00	6.00
<b>CULTIVATION TILLAGE, CAN HANDLE RESIDUE &amp; MAKE RIDGES, PER ACRE</b>									
Number Reporting	9	5	6	12	17	11	#	12	75
Average Rate	8.11	8.10	7.11	7.58	6.35	6.86	-	7.20	7.22
Range	5.00-13.00	6.00-12.00	6.00-8.50	6.00-14.00	3.00-10.00	5.00-10.00	-	5.00-12.00	3.00-14.00
Most Common	8.00	-	7.00	6.00	6.00	6.00	-	7.00	6.00
<b>HILLING OR DITCHING FOR IRRIGATION, PER ACRE</b>									
Number Reporting	8	#	5	11	15	11	#	8	64
Average Rate	6.30	-	5.45	6.60	6.07	6.41	-	8.10	6.40
Range	5.00-10.00	-	3.00-7.18	5.00-10.00	4.00-8.00	5.00-8.00	-	5.80-15.00	3.00-15.00
Most Common	5.00	-	-	6.00	6.00	6.00	-	7.00	6.00
<b>ROTARY HOEING, PER ACRE</b>									
Number Reporting	12	7	7	5	14	8	#	6	61
Average Rate	5.00	4.80	4.35	5.00	3.93	5.31	-	5.05	4.70
Range	3.25-8.00	3.00-6.00	3.00-6.50	4.00-7.00	2.00-5.00	5.00-6.00	-	3.00-8.00	2.00-8.00
Most Common	6.00	6.00	3.00	5.00	4.00	5.00	-	-	6.00
<b>CROP SPRAYING (EXCLUDE COST OF MATERIALS)</b>									
<b>CROP SPRAYING BY AIRCRAFT, PER ACRE</b>									
Number Reporting	4	#	7	#	8	4	5	7	39
Average Rate	6.50	-	5.70	-	4.53	3.63	3.90	5.23	4.91
Range	4.00-12.00	-	4.50-7.00	-	3.25-7.00	3.00-4.00	2.75-5.25	4.00-7.50	2.75-12.00
Most Common	4.00	-	4.50	-	4.50	4.00	4.00	5.00	4.50
<b>CROP SPRAYING BY SURFACE VEHICLES, PER ACRE</b>									
Number Reporting	8	4	12	#	18	7	5	20	77
Average Rate	4.75	3.75	4.40	-	4.11	3.61	3.69	4.60	4.29
Range	3.50-8.00	3.00-4.00	3.00-5.00	-	3.00-5.50	3.00-4.25	3.25-4.00	3.50-11.00	3.00-11.00
Most Common	4.00	4.00	5.00	-	4.00	3.50	4.00	4.00	4.00
<b>SPRAYING FOR WEED CONTROL, BOOM, PER ACRE</b>									
Number Reporting	13	4	21	7	37	9	7	37	135
Average Rate	4.00	3.44	4.10	4.70	3.94	3.61	3.86	3.88	3.96
Range	3.50-5.00	3.00-4.00	3.00-5.00	2.50-8.00	1.50-6.00	3.00-4.50	3.25-4.50	2.50-5.00	1.50-8.00
Most Common	4.00	3.00	4.50	4.00	4.00	3.00	4.00	4.00	4.00
<b>SPRAYING FOR WEED CONTROL, COMBINATION SPRAYER AND TILLAGE, PER ACRE</b>									
Number Reporting	#	#	6	#	5	#	#	#	19
Average Rate	-	-	7.90	-	7.20	-	-	-	7.67
Range	-	-	2.00-14.00	-	6.00-8.00	-	-	-	2.00-14.00
Most Common	-	-	-	-	8.00	-	-	-	8.00
<b>SPRAYING FOR WEED CONTROL, PIPE WICK APPLICATOR, PER ACRE</b>									
Number Reporting	#	#	#	#	6	#	#	6	22
Average Rate	-	-	-	-	5.92	-	-	5.75	5.23
Range	-	-	-	-	3.50-9.00	-	-	2.50-8.50	2.00-9.00
Most Common	-	-	-	-	-	-	-	5.00	5.00
<b>SPRAYING FOR WEED CONTROL, RECIRCULATING SPRAYER, PER ACRE</b>									
Number Reporting	#	#	#	#	#	4	#	#	11
Average Rate	-	-	-	-	-	4.50	-	-	4.77
Range	-	-	-	-	-	2.50-7.00	-	-	2.50-7.00
Most Common	-	-	-	-	-	-	-	-	4.00
<b>TILLAGE OPERATIONS</b>									
<b>BLADE PLOW WITH SWEEP BLADE, PER ACRE</b>									
Number Reporting	12	#	6	#	#	7	#	#	29
Average Rate	6.38	-	8.92	-	-	6.71	-	-	7.11
Range	5.00-12.00	-	6.00-15.00	-	-	5.00-10.00	-	-	2.00-15.00
Most Common	5.50	-	7.00	-	-	6.00	-	-	6.00

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	NW	N	NE	C	E	SW	S	SE	State
<b>CHISEL PLOW FOR PRIMARY TILLAGE, PER ACRE</b>									
Number Reporting	21	10	10	7	18	9	#	13	92
Average Rate	7.11	9.61	9.90	8.36	8.36	7.03	-	9.95	8.46
Range	4.50-12.00	6.00-16.00	6.00-12.00	5.00-12.00	3.50-13.00	5.00-12.00	-	5.80-15.00	3.50-16.00
Most Common	7.00	8.00	10.00	10.00	10.00	6.00	-	10.00	10.00
<b>COMBINATION TILLAGE TOOL, PRIMARY TILLAGE, PER ACRE</b>									
Number Reporting	#	#	10	#	5	4	#	4	32
Average Rate	-	-	9.65	-	8.30	9.63	-	7.25	9.02
Range	-	-	6.00-12.00	-	6.50-10.00	6.50-15.00	-	6.00-8.00	5.00-12.00
Most Common	-	-	10.00	-	8.50	-	-	8.00	10.00
<b>COMBINATION TILLAGE TOOL, FINISHING TILLAGE, PER ACRE</b>									
Number Reporting	4	4	7	#	10	5	#	5	38
Average Rate	9.00	6.75	7.64	-	8.00	8.00	-	6.80	7.74
Range	6.00-12.00	5.00-8.00	5.00-10.00	-	6.50-11.00	6.00-12.00	-	6.00-8.00	5.00-12.00
Most Common	12.00	8.00	6.00	-	7.00	7.00	-	6.00	6.00
<b>DEEP CHISEL, SUBSOILER, OR RIPPING, PER ACRE</b>									
Number Reporting	15	11	61	9	24	14	4	17	111
Average Rate	9.80	11.81	10.94	10.98	10.39	9.06	9.63	10.97	10.45
Range	6.00-18.00	7.00-22.00	7.50-15.00	5.50-16.00	6.00-20.00	3.75-15.00	8.00-10.50	7.00-15.00	3.75-22.00
Most Common	10.00	10.00	10.00	12.00	10.00	10.00	10.00	12.00	10.00
<b>DISK HARROWING, TANDEM OR OFFSET (PRIMARY TILLAGE), PER ACRE</b>									
Number Reporting	25	13	23	15	37	15	7	27	162
Average Rate	6.75	8.00	7.04	7.20	6.79	6.37	6.79	7.46	7.02
Range	4.25-12.00	5.00-10.00	5.00-12.00	3.00-10.00	3.50-10.00	4.00-8.00	6.00-8.00	5.00-11.00	3.00-12.00
Most Common	8.00	10.00	7.00	8.00	7.00	6.00	6.50	7.00	7.00
<b>DISK HARROWING, TANDEM OR OFFSET (SECONDARY TILLAGE), PER ACRE</b>									
Number Reporting	17	13	19	13	34	13	6	22	137
Average Rate	6.41	6.73	6.03	7.15	6.59	5.73	5.58	6.76	6.49
Range	4.50-10.00	4.00-10.00	4.00-10.00	4.50-10.00	5.00-10.00	4.50-7.00	5.00-7.00	4.00-10.00	4.00-10.50
Most Common	6.00	6.00	6.00	7.00	8.00	7.00	6.00	5.00	6.00
<b>FIELD CULTIVATOR, PER ACRE</b>									
Number Reporting	17	11	41	6	34	10	6	42	120
Average Rate	5.97	7.32	6.59	7.17	6.27	6.55	5.92	6.80	6.51
Range	4.25-10.00	5.00-10.00	5.00-10.00	6.00-10.00	3.50-8.50	5.00-12.00	5.00-9.00	4.00-10.00	3.50-12.00
Most Common	6.00	8.00	6.00	6.00	7.50	6.00	5.00	7.00	6.00
<b>HARROWING, SPIKE TOOTH, PER ACRE</b>									
Number Reporting	7	5	8	4	15	#	#	4	45
Average Rate	4.64	3.00	3.06	4.25	3.38	-	-	3.88	3.66
Range	2.00-7.00	1.00-4.00	1.50-4.00	3.00-5.00	1.25-6.00	-	-	3.00-5.00	1.00-7.00
Most Common	4.50	4.00	3.00	5.00	3.00	-	-	3.00	3.00
<b>HARROWING, SPRING TOOTH, PER ACRE</b>									
Number Reporting	16	4	8	#	7	#	#	#	42
Average Rate	5.50	4.00	4.31	-	5.21	-	-	-	4.95
Range	4.25-8.00	2.00-5.00	1.50-8.00	-	2.00-7.50	-	-	-	1.50-8.00
Most Common	5.00	5.00	5.00	-	4.50	-	-	-	5.00
<b>MOLDBOARD PLOWING WITH PLOW PACKER, PER ACRE</b>									
Number Reporting	9	#	5	#	#	#	#	#	25
Average Rate	13.67	-	10.00	-	-	-	-	-	11.00
Range	9.00-18.00	-	9.00-12.00	-	-	-	-	-	6.00-18.00
Most Common	12.50	-	10.00	-	-	-	-	-	10.00
<b>MOLDBOARD PLOWING WITHOUT PLOW PACKER, PER ACRE</b>									
Number Reporting	19	8	11	#	18	6	#	17	82
Average Rate	9.93	10.63	10.18	-	8.24	8.92	-	10.59	9.64
Range	7.00-16.00	5.00-20.00	8.00-15.00	-	5.00-15.50	6.00-12.00	-	7.00-15.00	4.00-20.00
Most Common	8.50	10.00	8.00	-	10.00	10.00	-	10.00	10.00
<b>ROD WEEDER, PER ACRE</b>									
Number Reporting	18	#	#	#	#	6	#	#	28
Average Rate	5.54	-	-	-	-	5.42	-	-	5.49
Range	4.00-10.00	-	-	-	-	4.00-7.00	-	-	4.00-10.00
Most Common	5.00	-	-	-	-	6.00	-	-	5.00
<b>ROLLING HARROWING AFTER PLOWING, PER ACRE</b>									
Number Reporting	6	#	#	#	#	5	#	#	18
Average Rate	7.25	-	-	-	-	6.60	-	-	6.93
Range	5.00-9.00	-	-	-	-	5.50-8.50	-	-	4.00-15.00
Common	8.00	-	-	-	-	6.00	-	-	8.00
<b>ROLLING STALK CHOPPER, NON-PTO DRIVEN, PER ACRE</b>									
Number Reporting	5	#	#	6	10	11	5	5	47
Average Rate	9.00	-	-	5.25	7.11	5.55	5.50	8.00	6.50
Range	6.00-16.00	-	-	4.00-6.00	3.60-25.00	4.00-8.00	5.00-6.50	5.00-12.00	3.60-25.00
Most Common	8.00	-	-	5.00	6.00	5.00	5.00	5.00	5.00

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	NW	N	NE	C	E	SW	S	SE	State
<b>ROTARY TILLERS, PTO DRIVEN, PER ACRE</b>									
Number Reporting	#	#	#	#	#	#	#	#	14
Average Rate	-	-	-	-	-	-	-	-	10.46
Range	-	-	-	-	-	-	-	-	5.00-20.00
Most Common	-	-	-	-	-	-	-	-	6.00
<b>STALK SHREDDER, PTO DRIVEN, PER ACRE</b>									
Number Reporting	7	5	8	13	18	8	#	10	71
Average Rate	8.29	6.30	7.30	6.38	6.19	6.53	-	7.38	6.83
Range	6.00-15.00	5.00-8.00	4.50-12.00	4.00-10.00	2.50-11.00	3.75-9.00	-	5.00-10.00	2.50-15.00
Most Common	6.00	5.00	5.00	6.00	6.50	6.00	-	10.00	6.00
<b>TRACTOR RENTAL</b>									
<b>TRACTOR RENT, 50-69 PTO H.P., PER METER HOUR</b>									
Number Reporting	#	#	#	#	#	4	#	6	22
Average Rate	-	-	-	-	-	10.63	-	13.00	10.75
Range	-	-	-	-	-	7.50-15.00	-	9.00-20.00	4.00-20.00
Most Common	-	-	-	-	-	-	-	10.00	10.00
<b>TRACTOR RENT, 70-89 PTO H.P., PER METER HOUR</b>									
Number Reporting	#	#	#	4	#	4	#	6	23
Average Rate	-	-	-	10.56	-	12.53	-	14.67	14.67
Range	-	-	-	5.00-15.00	-	9.60-15.00	-	10.00-23.00	5.00-23.00
Most Common	-	-	-	-	-	15.00	-	10.00	10.00
<b>TRACTOR RENT, 90-109 PTO H.P., PER METER HOUR</b>									
Number Reporting	4	#	4	#	4	4	#	9	30
Average Rate	17.25	-	20.50	-	11.75	14.00	-	20.78	16.57
Range	11.00-30.00	-	14.00-25.00	-	10.00-15.00	12.00-16.00	-	10.00-50.00	6.00-50.00
Most Common	-	-	15.00	-	10.00	-	-	15.00	15.00
<b>TRACTOR RENT, 110-149 PTO H.P., PER METER HOUR</b>									
Number Reporting	#	#	8	5	7	4	#	13	42
Average Rate	-	-	21.50	15.92	17.07	19.65	-	22.20	20.33
Range	-	-	13.00-35.00	7.00-20.00	13.00-23.00	15.60-25.00	-	12.50-50.00	7.00-50.00
Most Common	-	-	-	20.00	15.00	-	-	20.00	20.00
<b>TRACTOR RENT, 150-199 PTO H.P., PER HOUR</b>									
Number Reporting	#	#	6	4	9	6	4	14	45
Average Rate	-	-	24.50	22.75	21.53	23.00	22.40	27.57	25.65
Range	-	-	10.00-35.00	20.00-30.00	10.00-28.00	18.00-27.00	17.50-27.80	15.00-50.00	10.00-50.00
Most Common	-	-	28.00	20.00	25.00	21.00	-	25.00	25.00
<b>TRACTOR RENT, 200 AND ABOVE PTO H.P., PER HOUR</b>									
Number Reporting	#	#	7	#	6	6	#	12	40
Average Rate	-	-	26.79	-	29.58	29.17	-	34.48	31.39
Range	-	-	10.00-40.00	-	22.00-37.50	24.00-35.00	-	25.00-50.00	10.00-50.00
Most Common	-	-	30.00	-	28.00	30.00	-	30.00	30.00
<b>WASTE HANDLING</b>									
<b>HAULING AND SPREADING DRY MANURE, PER HOUR</b>									
Number Reporting	#	#	#	4	6	#	#	5	23
Average Rate	-	-	-	56.25	38.75	-	-	35.00	40.85
Range	-	-	-	30.00-100.00	17.50-70.00	-	-	10.00-50.00	10.00-100.00
Most Common	-	-	-	-	50.00	-	-	40.00	50.00
<b>HAULING AND SPREADING LIQUID MANURE, PER HOUR</b>									
Number Reporting	#	#	#	#	7	#	#	#	13
Average Rate	-	-	-	-	30.36	-	-	-	39.42
Range	-	-	-	-	7.50-65.00	-	-	-	7.50-65.00
Most Common	-	-	-	-	20.00	-	-	-	20.00
<b>LOADING MANURE WITH TRACTOR AND LOADER, PER HOUR</b>									
Number Reporting	#	4	4	#	8	#	#	8	28
Average Rate	-	24.38	41.25	-	31.88	-	-	41.25	36.34
Range	-	8.00-42.50	25.00-75.00	-	10.00-50.00	-	-	25.00-75.00	8.00-80.00
Most Common	-	-	-	-	50.00	-	-	40.00	40.00
<b>MISCELLANEOUS</b>									
<b>DIGGING POST HOLES, PER HOLE</b>									
Number Reporting	7	#	#	#	5	#	#	10	29
Average Rate	1.10	-	-	-	.55	-	-	1.12	.90
Range	.25-3.00	-	-	-	.25-1.00	-	-	.50-3.00	.25-3.00
Most Common	.25	-	-	-	.50	-	-	.50	.50
<b>DRIVING WOODEN POSTS, PER POST</b>									
Number Reporting	#	#	#	#	#	#	#	5	13
Average Rate	-	-	-	-	-	-	-	.90	.66
Range	-	-	-	-	-	-	-	.40-2.00	.25-2.00
Most Common	-	-	-	-	-	-	-	-	.50
<b>INJECTION PUMP FOR CHEMICALS WITH CENTER PIVOT IRRIGATION, PER ACRE</b>									
Number Reporting	#	#	#	#	#	#	#	#	7
Average Rate	-	-	-	-	-	-	-	-	1.11
Range	-	-	-	-	-	-	-	-	.50-3.00
Most Common	-	-	-	-	-	-	-	-	1.50
<b>TRENCHING, PER FOOT</b>									
Number Reporting	#	#	#	#	4	#	#	5	17
Average Rate	-	-	-	-	.68	-	-	1.14	1.04
Range	-	-	-	-	.45-1.00	-	-	.60-2.00	.38-4.00
Most Common	-	-	-	-	-	-	-	.60	.60

# Too few responses to report.