## LR 118 Preliminary Report

Senator Schrock introduced LR 118, an interim study to evaluate issues related to earmarking of personal property tax revenue from irrigation equipment (pivots, pumps, pipes, motors, etc.) for natural resources districts. Natural resource districts have additional obligations under LB 962 for monitoring of water levels and water appropriations in any basin designated by Department of Natural Resources as fully or over appropriated. Funding for these additional duties are not available under NRD levy limits in some areas, yet these same duties are integral to water resources management under the law.

The principal obstacle to LR 118 is the inaccessibility of accurate tax revenue information on irrigation equipment. Aggregated personal property tax revenue is available at state and county level, but not for component types of personal property. Accurate information on this portion of tax revenue would only be available by hand audit of each property parcel's tax card in each county. According to the Nebraska Association of County Officials, some counties have computerized recording of this information, but there is no software available for such a county to recover the information. Therefore, actual tabulation of irrigation equipment tax revenue is not feasible, and it may only be estimated, even for Legislative hearing, if a congruent bill is introduced.

The Legislative Fiscal Office (LFO) has offered a "best estimate" of irrigation equipment personal property tax revenue, approximately \$8 million for 2004. This represents 29% of the total agricultural personal property tax revenue for 2004, \$27.8 million. LFO's estimate was based on probable irrigation equipment market values using data from the 2002 USDA census for Nebraska. LFO compared estimated total agricultural equipment values for irrigated farms and non irrigated farms, assuming the difference to be the value of irrigation equipment. USDA's market values were derived from "a sample of farms". The USDA information and LFO memo are attached below.

By their nature, estimates are subject to disagreement. LFO presents a number of disclaimers to accuracy, and opponents to earmarking irrigation equipment tax revenue will have an opportunity to challenge the amount. We do know some things for sure, however. We know through DNR how many irrigation wells are active now and historically, by county and within any NRD. We know from the 2002 USDA report that 36.4% of all Nebraska farms have irrigation, that there is a pattern of larger, but fewer farms between 1997 and 2002. We also know that 1.8 million more acres were irrigated in 2002 than 1997, suggesting a relatively growing proportion of irrigation equipment being taxed compared to any agricultural personal property.

Irrigation equipment is expensive, but much farm equipment is expensive. Valmont Industries, a major manufacturer estimates a grower will pay \$43-46 thousand for a center pivot alone. Pumps cost \$10-30 thousand, depending on well depth, motors cost between \$7,500 and \$10,500, and drive generators \$1,850. These costs are depreciated for tax purposes in seven years, much shorter than the 25 year normal lifespan, so

irrigation equipment tax revenue could be uneven, but nevertheless, upgrades and expensive replacement components may be more frequently taxed.

The potential utility of LR 118 for ultimate implementation in law might be limited due to some expected obstacles. Briefly, any resulting bill will meet institutional resistance in Revenue Committee as they have a tradition of opposing "earmarked" tax revenue on general principles. Any such law must meet Constitutional scrutiny for having uniformity and some rational basis connecting the beneficial purpose with the tax burden. Separating irrigation equipment tax revenue to benefit irrigation regulation and management seems rationally related. Other beneficiaries of personal property tax revenue, county governments and school districts, may object for obvious reasons. Replacement of local school resources through the formula for state aid to education will be automatic, but could offend wider state policies on real property taxation.

To: Senator Schrock – District #38

Ron Theis – Legislative Aide

From: Doug Nichols - Legislative Fiscal Office

RE: Irrigation Equipment

Date: August 15, 2005

You wanted to know the value of irrigation equipment (LR 118). The Department of Property Assessment and Taxation collects personal property tax information on agricultural machinery and equipment. However, the value of irrigation equipment is not itemized. The Legislative Fiscal Office (LFO) estimated the value of irrigation equipment using Census data. See below.

AMOUNT: It is estimated that personal property taxes on irrigation equipment could amount to \$8 million in 2004.

METHOD: The LFO used data from the 2002 Census of Agriculture for Nebraska to estimate the value of irrigation equipment. The Ag Census has an item called "estimated market value of all machinery and equipment". This item is on both irrigated and nonirrigated farms. The irrigated equipment value was subtracted from the nonirrigated value to arrive at an amount that was assumed to be the value of irrigation equipment. It was assumed that nonirrigated farms would not have any irrigation equipment and irrigated farms would have such equipment so the difference would be the value of irrigation equipment. It is possible that the amount estimated in this manner includes more than irrigation equipment. However, the LFO has not found any other source of data to estimate the value of irrigation equipment. Estimating irrigation equipment is this manner resulted in such equipment being slightly less than 1/3 of all agricultural machinery and equipment.

Amounts that appear on a fiscal note may differ due to the specifics of the legislation, cash flow considerations, and/or additional information received after this request was prepared.

Please feel free to contact me if you require further information.

Table 9. Land in Farms, Harvested Cropland, and Irrigated Land, by Size of Farm: 2002 and 1997

[For meaning of abbreviations and symbols, see introductory text]

All larms	Farms		Land in farms (acres)		Harvested cropland (acres)		Irrigated land (acres)	
	2002	1997	2002	1997	2002	1997	2002	1997
Land in farms	49,355	54,539	45,903,116	45,853,656	17,336,624	17,897,591	7,625,170	7,065,556
1 to 9 acres	1,656	2,943	7,708	9,954	1,711	2,061	514	480
10 to 49 acres	5,664	5,522	149,724	144,197	42,094	50,581	7,277	8,917
50 to 69 acres	1,483	1,332	86,124	77,387	24,864	28,017	6,029	7,726
70 to 99 acres	2,732	2,849	221,213	230,027	84,249	110,775	24,436	29,221
100 to 139 acres	2,247	2,277	262,433	265,410	94,769	122,089	25,059	33,760
140 to 179 acres	3,718	4,309	587,459	680,035	261,269	354,375	91,828	115,046
180 to 219 acres	1,647	1,812	326,043	357,889	156,978	188,649	52,269	54,941
220 to 259 acres	1,742	2,156	414,649	513,416	210,263	294,271	71,330	94,355
260 to 499 acres	7,921	9,351	2,931,251	3,461,281	1,646,556	2,054,328	618,677	737,889
500 to 999 acres	9,049	10,631	6,443,140	7,558,770	3,959,611	4,837,625	1,726,452	2,046,878
1,000 to 1,999 acres	6,632	6,777	9,090,967	9,240,706	5,238,535	4,961,349	2,487,211	2,128,123
	3,497	(NA)	10,317,523	(NA)	3,910,764	(NA)	1,857,410	(NA)
	1,367	1,228	15,064,882	13,348,830	1,704,961	1,480,491	656,678	427,032
Farms with harvested cropland	37,143	43,198	41,361,667	42,310,371	17,336,624	17,897,591	7,597,457	7,050,351
Farms by size: 1 to 9 acres 10 to 49 acres 50 to 69 acres 70 to 99 acres 100 to 139 acres	478	577	2,373	2,963	1,711	2,061	429	415
	2,496	2,915	67,867	79,370	42,094	50,581	6,158	8,512
	678	746	39,457	43,475	24,864	28,017	5,189	7,258
	1,553	1,998	126,021	160,662	84,249	110,775	23,139	28,347
	1,250	1,519	146,537	177,724	94,769	122,089	23,157	32,763
140 to 179 acres	2,486	3,330	393,152	525,656	261,269	354,375	89,636	113,444
	1,204	1,423	238,318	281,157	156,978	188,649	50,686	53,849
	1,362	1,809	323,816	430,930	210,263	294,271	70,649	93,735
	6,676	8,223	2,490,034	3,063,182	1,646,556	2,054,328	614,082	733,663
	8,230	9,970	5,875,385	7,107,862	3,959,611	4,837,625	1,719,752	2,043,500
1,000 to 1,999 acres	6,260	6,434	8,591,181	8,768,814	5,238,535	4,961,349	2,484,820	2,127,048
	3,242	(NA)	9,532,465	(NA)	3,910,764	(NA)	1,855,957	(NA)
	1,228	1,131	13,535,061	12,403,829	1,704,961	1,480,491	653,803	426,872
Farms with Irrigated land	17,970	19,297	24,809,923	23,061,727	11,541,865	10,929,436	7,625,170	7,065,556
Farms by size: 1 to 9 acres 10 to 49 acres 50 to 69 acres 70 to 99 acres 100 to 139 acres	210 462 157 422 333	184 472 190 504 417	826 12,473 9,243 34,165 38,865	753 13,064 11,023 40,385 49,106	490 6,965 5,933 26,002 28,067	9,043 8,277 31,445 37,963	514 7,277 6,029 24,436 25,059	480 8,917 7,726 29,221 33,760
140 to 179 acres	848	1,053	134,231	166,062	105,618	131,483	91,828	115,046
	442	467	87,682	92,538	65,782	71,600	52,269	54,941
	507	666	120,526	159,091	89,424	124,120	71,330	94,355
	2,986	3,476	1,130,739	1,316,082	844,180	1,000,265	618,677	737,889
	4,652	5,559	3,361,799	4,008,970	2,503,897	3,004,631	1,726,452	2,046,878
1,000 to 1,999 acres	4,049	3,879	5,582,793	5,275,625	3,757,465	3,336,354	2,487,211	2,128,123
	2,150	(NA)	6,316,886	(NA)	2,930,178	(NA)	1,857,410	(NA)
	752	587	7,979,695	6,491,641	1,177,864	857,946	656,678	427,032

Table 10. Irrigation: 2002 and 1997

[For meaning of abbreviations and symbols, see introductory text]

Farms with irrigation	2002	1997	Farms with irrigation	2002	1997
Farmsnumber Proportion of farmspercent	17,970 36.4	19,297 35.4	Irrigated land - Con. Acres irrigated - Con.		
Irrigated land acres Average per farm acres Acres irrigated: 1 to 9 acres farms	7,625,170 424 520	7,065,556 366	1,000 acres or more     farms acres       1,000 to 1,999 acres     farms acres       2,000 acres or more     farms	1,811 2,866,614 1,499 1,963,609 312	1,215 1,893,900 (NA (NA
10 to 49 acres	1,723 1,308 38,175	1,624 1,468 43,920	acres Irrigated land use:	903,005	(NA (NA
50 to 99 acres	1,940 139,707 3,765	2,286 164,837 4,281	Harvested cropland farms acres Pastureland and other land farms	17,613 7,506,900 1,191	19,03 6,955,03 98
200 to 499 acres	522,544 5,201 1,669,353	598,357 6,075	Land in irrigated farms	118,270 24,809,923 13,742,816	110,529 23,061,721 12,822,729
500 to 999 acres farms acres acres	3,425 2,387,054	1,960,880 3,525 2,402,038	narvested crophand acres	11,541,865	10,929,43

Table 11. Selected Characteristics of Irrigated and Nonirrigated Farms: 2002 and 1997

[For meaning of abbreviations and symbols, see introductory text] All harvested Nonirrigated farms All farms cropland irrigated Any land irrigated Characteristics 1997 2002 2002 1997 2002 1997 2002 1997 31,385 21,093,193 35,242 22,791,929 Farms number Land in farms acres Estimated market value of land and buildings 1: 49,355 45,903,116 54,539 45,853,656 17,970 24,809,923 19,297 23,061,727 4,581 4,691,331 5,182 4,146,312 nated market value of land and buildings <sup>1</sup>:

Average per larm dollars

Average per acre dollars 667,180 839 455,359 676 1,200,079 862 878.546 550,705 658 904,349 757 355,625 556 7,065,556 1,989,203 1.908.436 (X) 7,625,170 7,065,556 7,625,170 (X) Irrigated land ...... acres Land in farms according to use:
Total cropland 4,581 2,331,793 4,581 1,956,140 5,182 2,179,042 5,182 1,865,293 25,836 8,778,058 19,476 5,794,759 28,202 9,810,656 43,722 22,520,874 37,143 47,452 22,633,381 43,198 17,886 13,742,816 19,250 12,822,725 Harvested cropland ,,..... farms 19,095 10,929,436 24,103 6,968,155 11,541,865 17,897,591 17,336,624 30,184 23,822,278 34,310 23,503,412 10,449 11,234,881 2,086 2,414,809 22,763 13,072,999 Pastureland, excluding woodland pastured ..... 11,547 2,412 2,025,988 19,735 12,587,397 Land enrolled in Conservation Reserve or Wetlands Reserve Programs 2,639 325,294 7,377 951,463 10,403 1,166,443 8,014 915,470 250,973 48.611 55.126 27,613 13,325,941 12,688 7,767,252 29,493 13,991,136 15,904 8,800,793 15,490 12,079,122 13,935 10,982,605 3,719 2,749,060 3,913 2,353,822 44,983 26,070,258 29,839 19,783,398 15,224 13,477,808 12,476 11,332,115 42,837 26,803,749 25,164 2,619 1,942,271 3,117 1,792,490 19.099.367 3,317,064 3,849,834 6,386,593 355,403 6,087,415 315,459 1,641,457 358,318 1,577,189 9,703,657 9,937,248 4,852 630,215 2,408 31,493 3,388,265 26,809 6,315,392 38,418 3,881,119 34,426 6,056,130 . 16,591 2,759,448 9,770 4,171 634,272 1,901 14,902 628,817 17,039 20.069 Crops, including nursery and greenhouse crops ..... 18 349 2,863,174 1,017,944 3,627,145 946,975 2,831,889 3,224,241 1,007,185 2,688,247 3,298,931 104,526 5,751,107 323,187 4,641,182 239,397 1,493,655 323,022 .....\$1,000 7,719,265 141,557 Total farm production expenses 1 9.050.038 183,362 36,880 447,687 35,308 283,244 37,060 299,736 32,982 465,636 29,632 281,683 30,944 370,108 18,608 341,065 16,300 196,179 18,398 220,011 4,158 75,848 3,473 40,313 3,878 58,101 18,272 106,622 Fertilizer, time, and soil conditioners 2 ...... 16.712 4,661 71,117 16,270 107,524 16,712 358,111 14,096 202,857 15,631 280,117 6,273 1,989,371 15,536 78,826 15,313 89,991 4,045 36,619 4,532 45,486 19,008 87,065 18,662 79,725 . farms Seeds, plants, vines, and trees ..... . farms \$1,000 1,396 453,025 Livestock and poultry purchased ..... 9,801 1,222,413 13,095 1,021,843 . farms \$1,000 16,074 3,211,783 20,544 2,418,527 7,449 1,396,684 1,205 612,805 29,350 1,422,635 50,659 2,110 208,005 19,104 . farms 26.376 9,001 10,246 672,633 Feed purchased ..... 1,795 215,630 4,584 52,316 3,960 32,385 4 478 750,982 28,603 89,575 750,002 31,533 111,033 \$1,000 1,490,523 46,325 Gasoline, fuels, and oils ..... 19,126 217,623 4,940 49,330 17,722 241,882 16,197 124,277 17,339 300,254 331,458 36,103 173,402 328,657 (NA) (NA) (NA) (NA) 18,102 243,127 (NA) (NA) 4,432 54,235 19,906 49,125 26,845 164,815 (NA) (NA) 28,085 154,014 44,184 465,069 46,187 397,140 →,478 68,705 22,246 306,254 6,287 23,374 (NA) (NA) 19,256 338,815 10,984 199,996 3,309 15,339 (NA) (NA) 9,735 240,616 17,489 371,650 5,016 26,263 15,996 105,236 20,243 471,124 8,107 110,919 2,372 8,298 8,777 36,216 10,280 129,844 11,262 106,257 2,978 8,035 (NA) (NA) 9,382 260,731 2,644 17,965 7,219 69,019 Hired farm labor ..... 2,195 66,986 2,391 52.319 66,986 692 5,277 1,599 19,718 1,778 59,551 804 3,979 (NA) (NA) 1,785 43,244 Customwork and custom hauling ..... Cash rent for land, buildings, and grazing lees 3 ...... 9,963 341,280 9,521 98,199 Rent and lease expenses for machinery, equipment, and farm share of vehicles 6,037 58,333 28,741 468,738 45,731 272,832 36,449 (NA) (NA) 3,391 61,327 4,480 26,352 4,941 87,038 (NA) (NA) 32,971 422,329 49,675 223,992 3,732 47,776 13,350 308,025 16,769 153,683 15,195 316,216 (NA) (NA) 14,708 270,326 17,772 121,268 19,238 342,086 (NA) (NA) 18,263 152,004 31,903 102,724 870 2,305 11.819 3,096 69,167 4,250 32,376 3,646 72,655 .... farms \$1,000 5,983 221,623 37,059 326,937 23,038 144,131 989 42,338 3,853 37,542 2,372 17,622 938 42,035 2,965 40,418 2,307 4,606 2,035 38,677 18,442 129,241 12,623 104,787 258,686 32,007 347,517 220,009 13,565 218,276 11,041 185,075 16,100 196,650 9,791 36,548 20,959 130,287 13,247 \$1,000 Government payments received ...... \$1,000 Income from farm-related sources (see text) 4 ...... 23.664 \$1,000 227,333 122,546 69,426 30,686 74,706 Estimated market value of all machinery and equipment 1 48,046 5,370,381 111,776 54,519 4,529,411 83,079 19,376 2,662,420 137,408 5,021 561,760 111,882 30,256 1,901,732 62,855 35,143 1,866,991 53,126 17,790 4,621 3,468,649 194,977 753,883 163,143

Milk cows .....

Hogs and pigs .....

. farms

25,083 6,202,947

6,202,947 866 66,926 3,075 2,933,620 1,435 97,373

6,730,153 1,385 68,872 6,312

3,474,386 1,717 102,638

20,045 3,115,926 924 38,381 4,087 2,319,700

1,293 65,869

2,073 940,325 79

79 4,933 345 189,042 119 15,253

2,607,192

1,914 1,961,768

559 35,053

1,043 58,510

1,814 900,872

3,300 164 150,150 101 10,133

10,169 3,614,227

30,491 2,225 1,154,686

424 36,769

461

3.595.755

307 31,873 1,161 971,852

392 38,863

Data are based on a sample of farms. 1997 data exclude lime and manure. 1997 data exclude grazing fees. 1997 data are based on a sample of farms.