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 farms	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
1 to 9 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
180 to 219 acres	1,204	1,423	238,318	281,157	156,978	188,649	50,686	53,849
220 to 259 acres	1,362	1,809	323,816	430,930	210,263	294,271	70,649	93,735
260 to 499 acres	6,676	8,223	2,490,034	3,063,182	1,646,556	2,054,328	614,082	733,663
500 to 999 acres	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
1 to 9 acres	210	184	826	753	490	440	514	480
10 to 49 acres	462	472	12,473	13,064	6,965	9,043	7,277	8,917
50 to 69 acres	157	190	9,243	11,023	5,933	8,277	6,029	7,726
70 to 99 acres	422	504	34,165	40,385	26,002	31,445	24,436	29,221
100 to 139 acres	333	417	38,865	49,106	28,067	37,963	25,059	33,760
140 to 179 acres	848	1,053	134,231	166,062	105,618	131,483	91,828	115,046
180 to 219 acres	442	467	87,682	92,538	65,782	71,600	52,269	54,941
220 to 259 acres	507	666	120,526	159,091	89,424	124,120	71,330	94,355
260 to 499 acres	2,986	3,476	1,130,739	1,316,082	844,180	1,000,265	618,677	737,889
500 to 999 acres	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	7.625,170 424 520 1,723 1,308	7,065,556 366 447 1,624 1,468	1,000 acres or more farms acres 1,000 to 1,999 acres farms acres 2,000 acres or more farms acres	1,811 2,866,614 1,499 1,963,609 312 903,005	1,215 1,893,900 (NA) (NA) (NA) (NA)	
50 to 99 acres acres 100 to 199 acres acres 1 acres larms acres acres	38,175 1,940 139,707 3,765 522,544	43,920 2,286 164,837 4,281 598,357	Irrigated land use: Harvested cropland tarms acres Pastureland and other land farms acres	17,613 7,506,900 1,191 118,270	19,03; 6,955,03 98; 110,52;	
200 to 499 acres farms	5,201 1,669,353 3,425 2,387,054	6,075 1,960,880 3,525 2,402,038	Land in irrigated farms acres Cropland acres Harvested cropland acres	24,809,923 13,742,816 11,541,865	23,061,727 12,822,725 10,929,436	

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

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

Characteristics arms	2002 49,355 45,903,116 723,863	1997 54,539	Any land	Irrigated	crop	land	Nonirrigal	ted farms
and in farms acres stimated market value of land and buildings 1: Average per farm dollars Average per acre dollars	49,355 45,903,116 723,863	54,539	2002		All harvested cropland irrigated		Nonirrigated farms	
and in farms acres stimated market value of land and buildings 1: Average per farm dollars Average per acre dollars	45,903,116 723,863	54,539		1997	2002	1997	2002	1997
		45,853,656 550,705	17,970 24,809,923 1,200,079	19,297 23,061,727 904,349	4,581 4,691,331 878,546	5,182 4,146,312 667,180	31,385 21,093,193 455,359	35,242 22,791,929
rigated land	776	658	862	757	848	839	676	355,625 556
ngaleo lano deles	7,625,170	7,065,556	7,625,170	7,065,556	1,989,203	1,908,436	(X)	(X)
and in farms according to use: Total cropland farms acres	43,722 22,520,874	47,452 22,633,381	17,886 13,742,816	19,250 12,822,725	4,581 2,331,793	5,182 2,179,042	25,836 8,778,058	28,202 9,810,656
Harvested cropland	37,143 17,336,624	43,198 17,897,591	17,667 11,541,865	19,095 10,929,436	4,581 1,956,140	2,179,042 5,182 1,865,293	19,476 5,794,759	24,103 6,968,155
Pastureland, excluding woodland pastured	30,184 23,822,278	34,310 23,503,412	10,449 11,234,881	11,547 10,430,413	2,086 2,414,809	2,412 2,025,988	19,735 12,587,397	22,763 13,072,999
and enrolled in Conservation Reserve or Wellands Reserve Programs	10,403 1,166,443	10,016 1,276,757	2,389 250,973	2,639 325,294	337 48,611	437 55,126	8,014 915,470	7,377 951,463
wned and rented land in farms: Owned land in farms	42,837	44,983	15,224	15,490	3,719	3,913	27,613	29,493
acres Rented or leased land in farms	26,803,749 25,164 19,099,367	26,070,258 29,839 19,783,398	13,477,808 12,476 11,332,115	12,079,122 13,935 10,982,605	2,749,060 2,619 1,942,271	2,353,822 3,117 1,792,490	13,325,941 12,688 7,767,252	13,991,136 15,904 8,800,793
arket value of agricultural products sold (see text)\$1,000 Average per larmdoltars	9,703,657 196,609	9,937,248 182,204	6,386,593 355,403	6,087,415 315,459	1,641,457 358,318	1,577,189 304,359	3,317,064 105,689	3,849,834 109,240
Crops, Including nursery and greenhouse crops	31,493 3,388,265 26,809	38,418 3,881,119 34,426	16,591 2,759,448 9,770	18,349 2,863,174 11,352	4,171 634,272 1,901	4,852 630,215	14,902 628,817 17,039	20,069 1,017,944
Livestock, poultry, and their products	6,315,392 9,050,038	6,056,130 7,719,265	3,827,145 5,751,107	3,224,241 4.641,182	1,007,185	2,408 946,975 1,230,613	2,688,247 3,298,931	23,074 2,831,889 3,078,083
otal farm production expenses 1	183,362	141,557	323,187	239,397	323,022	244,557	104,526	87,585
\$1,000 I	465,636 29,632	447,687 35,308	16,712 358,111 14,096	18,608 341,065 16,300	75,848 3,473	4,661 71,117 4.045	16,270 107,524	18,272 106,622
Chemicals farms \$1,000 Seeds, plants, vines, and trees	281,683 30,944	283,244 37,060	202,857 15,631	196,179	40,313 3,878	36,619 4,532	15,536 78,826 15,313	19,008 87,065 18,662
Seeds, plants, vines, and trees S1,000	370,108 16,074 3,211,783	299,736 20,544 2,418,527	280,117 6,273 1,989,371	220,011 7,449 1,396,684	58,101 1,205 612,805	45,486 1,396 453,025	89,991 9,801 1,222,413	79,725 13,095 1,021,843
Feed purchased	26,376	29,350	9,001	10,246	1,795	2,110	17,375	19,104
Gasoline, fuels, and olls	1,490,523 46,325	1,422,635 50,659	739,541 17,722	672,633 19,126	215,630 4,584	208,005 4,940	750,982 28,603	750,002 31,533
Utilities (see text)	331,458 36,103	328,657 (NA) (NA)	241,882 16,197	217,623 (NA)	52,316 3,960	49,330 (NA)	89,575 19,906	111,033 (NA)
\$1,000 Supplies, repairs, and maintenance \$1,000 \$1,000	173,402 44,184 465,069	(NA) 46,187 397,140	124,277 17,339 300,254	(NA) 18,102 243,127	32,385 4,478 68,705	(NA) 4,432 54,235	49,125 26,845 164,815	(NA) 28,085 154,014
Hired farm labor	17,489	22,246	9,382	10,984	2,195	2,391	8,107	11,262
Contract labor	371,650 5,016 26,263	306,254 6,287	260,731 2,644	199,996	66,986 692	52,319 804	110,919	106,257 2,978
Customwork and custom hauling farms 1,000	15,996	23,374 (NA) (NA)	17,965 7,219	15,339 (NA)	5,277 1,599	3,979 (NA)	8,298 8,777	8,035 (NA) (NA)
Cash rent for land, buildings, and grazing fees 3	105,236 20,243 471,124	19,256 338,815	69,019 9,963 341,280	(NA) 9,735 240,616	19,718 1,778 59,551	(NA) 1,785 43,244	36,216 10,280 129,844	(NA) 9,521 98,199
Rent and lease expenses for machinery, equipment, and farm share of vehicles	6,037	(NA)	3,732	(NA)	870	(NA)	2,305	(NA)
\$1,000 \$1,	58,333 28,741 468,738	(NA) 32,971 422,329	47,776 13,350 308,025	(NA) 14,708 270,326	11,819 3,096 69,167	(NA) 3,391 61,327	10,557 15,391 160,713	(NA) 18,263 152,004
Property taxes farms \$1,000 1 arms All other production expenses (see text) 1 arms \$1,000 \$1,000	45,731 272,832 36,449	49,675 223,992 51,253	16,769 153,683 15,195	17,772 121,268 19,238 342,086	4,250 32,376 3,646	4,480 26,352 4,941	28,962 119,149 21,254	31,903 102,724 32,015
mmodity Credit Corporation loans (see text) tarms	7,199	5,983	4,606	3,948	72,655 938	87,038 989	169,984 2,593	221,590 2,035
vernment payments received	258,686 32,007	221,623 37,059	220,009 13,565	185,075 16,100	42,035 2,965	42,338 3,853	38,677 18,442	36,548 20,959
ome from farm-related sources (see text) 4	347,517 23,664 227,333	326,937 23,038 144,131	218,276 11,041 122,546	196,650 9,791 69,426	40,418 2,307 30,686	37,542 2,372 17,622	129,241 12,623 104,787	130,287 13,247 74,706
uinated market value of all machinery and tuipment	48,046 5,370,381	54,519 4,529,411	17,790 3,468,649	19,376 2,662,420	4,621 753,883	5,021 561,760	30,256 1,901,732	35,143
Average per farm dollars	111,776	83,079	194,977	137,408	163,143	111,882	62,855	1,866,991 53,126
Attle and caives	25,083 6,202,947	30,214 6,730,153	9,256 3,595,755	10,169 3,614,227	1,814 900,872	2,073 940,325	15,827 2,607,192	20,045 3,115,926
logs and pigstarms	66,926 3,075	1,385 68,872	307 31,873	30,491	3,300	79 4,933	559 35,053	924 38,381
heep and lambs larms number	3,075 2,933,620 1,435 97,373	6,312 3,474,386 1,717 102,638	1,161 971,852 392 38,863	2,225 1,154,686 424 36,769	164 150,150 101 10,133	345 189,042 119 15,253	1,914 1,961,768 1,043 58,510	4,087 2,319,700 1,293 65,869

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.