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 massing of abbreviations and symbols, see introductory text)

All larms	Farms		Land in farms (acres)		Harvested crop	oland (acres)	Irrigated land (acres)	
	2002	1997	2002	1997	2002	1997	2002	1997
Land in larms	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 28,017	7,277 6,029	8,917
50 to 69 acres	1,483	1,332	86,124	77,387	24,864 84,249	110,775	24,436	7,726 29,221
70 to 99 acres	2,732	2,849	221,213	230,027 265,410	94,769	122,089	25,059	33,760
100 to 139 acres	2,247	2,277	262,433	205,410	·			•
140 to 179 acres	3,718	4,309	587,459	680,035	261,269 156,978	354,375 188,649	91,828 52,269	115,046 54,941
180 to 219 acres	1,647	1,812	326,043	357,889 513,416	210.263	294,271	71,330	94,355
220 to 259 acres	1,742	2,156 9,351	414,649 2,931,251	3,461,281	1,646,556	2,054,328	618,677	737,889
260 to 499 acres	7,921 9,049	10,631	6,443,140	7,558,770	3,959,611	4,837,625	1,726,452	2,046,878
	· 1						2,487,211	2,128,123
1,000 to 1,999 acres	6,632	6,777	9,090,967	9,240,706	5,238,535 3,910,764	4,961,349 (NA)	1,857,410	2,128,123 (NA)
2,000 to 4,999 acres	3,497	(NA)	10,317,523	(NA) 13,348,830	1,704,961	1,480,491	656,678	427,032
5,000 acres or more	1,367	1,228	15,064,882	13,348,630	· · ·			
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:	47B	577	2.373	2.963	1,711	2,061	429	415
1 to 9 acres	2,496	2,915	67.867	79,370	42,094	50,581	6,158	8,512
50 to 69 acres	678	746	39.457	43,475	24,864	28,017	5,189	7,258
70 to 99 acres	1,553	1,998	126,021	160,662	84,249	110,775	23,139	28,347
100 to 139 acres	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	93,73
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
2,000 to 4,999 acres	3,242	(NA)	9,532,465	(NA)	3,910,764	(NA)	1,855,957	(NA)
5,000 acres or more	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:	210	184	826	753	490	440	514	480
1 to 9 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	54,94
220 to 259 acres	507	666	120,526	159,091	89,424	124,120	71,330	94,355 737,889
260 to 499 acres	2,986	3,476	1,130,739	1,316,082	844,180	1,000,265	618,677 1,726,452	2,046,878
500 to 999 acres	4,652	5,559	3,361,799	4,008,970	2,503,897	3,004,631	1,720,402	2,040,878
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
2,000 to 4,999 acres	2,150	(NA)	6,316,886	(NA)	2,930,178	(NA)	1,857,410	(NA)
5,000 acres or more	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	7,065,556 366	1,000 acres or more farms 1,000 to 1,999 acres farms 1,000 to 1,999 acres acres	1,811 2,866,614 1,499 1,963,609	1,215 1,893,900 (NA) (NA)
1 to 9 acres	520 1,723 1,308	447 1,624 1,468	2,000 acres or more	903,005	(NA (NA (NA
10 to 49 acres	38,175 1,940	43,920 2,286	irrigated land use: Harvested cropland	17,613	19,032
100 to 199 acres acres tarms acres	139,707 3,765 522,544	164,837 4,281 598,357	acres Pastureland and other land	7,506,900 1,191 118,270	6,955,03 98 110,52
200 to 499 acres	5,201 1,669,353	6,075 1,960,880	Land in Irrigated farms acres Cropland acres Harvested cropland acres	24,809,923 13,742,816 11,541,865	23,061,72 12,822,72 10,929,43
500 to 999 acres farms acres	3,425 2,387,054	3,525 2,402,038			

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

[For meaning of abbreviations and symbols, see introductory text]	Irrigated farms							
	All farms		All harvested				Nonirrigated farms	
Characteristics			Any land irrigated		cropland irrigated			
	2002	1997	2002	1997	2002	1997	2002	1997
Farms number Land in larms 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	31,385 21,093,193	35,242 22,791,929
Estimated market value of land and buildings : Average per larm dollars Average per acre dollars	723,863	550,705	1,200,079	904,349	878,546	667,180	455,359	355,625
	776	658	862	757	848	839	676	556
Irrigated land acres	7,625,170	7,065,556	7,625,170	7,065,556	1,989,203	1,908,436	(X)	(X)
Land in farms according to use: Total cropland farms acres	43,722	47,452	17,886	19,250	4,581	5,182	25,836	28,202
	22,520,874	22,633,381	13,742,816	12,822,725	2,331,793	2,179,042	8,778,058	9,810,656
Harvested cropland farms acres	37,143	43,198	17,667	19,095	4,581	5,182	19,476	24,103
	17,336,624	17,897,591	11,541,865	10,929,436	1,956,140	1,865,293	5,794,759	6,968,155
Pastureland, excluding woodland pastured farms acres	30,184	34,310	10,449	11,547	2,086	2,412	19,735	22,763
	23,822,278	23,503,412	11,234,881	10,430,413	2,414,809	2,025,988	12,587,397	13,072,999
Land enrolled in Conservation Reserve or Wetlands Reserve Programs	10,403	10,016	2,389	2,639	337	437	8,014	7,377
	1,166,443	1,276,757	250,973	325,294	48,611	55,126	915,470	951,463
Owned 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
	26,803,749	26,070,258	13,477,808	12,079,122	2,749,060	2,353,822	13,325,941	13,991,136
Rented or leased land in farms farms acres	25,164	29,839	12,476	13,935	2,619	3,117	12,688	15,904
	19,099,367	19,783,398	11,332,115	10,982,605	1,942,271	1,792,490	7,767,252	8,800,793
Market value of agricultural products sold (see text) \$1,000	9,703,657	9,937,248	6,386,593	6,087,415	1,641,457	1,577,189	3,317,064	3,849,834
Average per larm dollars	196,609	182,204	355,403	315,459	358,318	304,359	105,689	109,240
Crops, including nursery and greenhouse crops	31,493 3,388,265	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 2,408	14,902 628,817 17,039	20,069 1,017,944 23,074
Livestock, poultry, and their products	26,809 6,315,392	6,056,130	3,627,145	3,224,241	1,007,185	946,975	2,688,247	2,831,889
Total farm production expenses \$1,000 Average per farm dollars	9,050,038	7,719,265	5,751,107	4,641,182	1,493,655	1,230,613	3,298,931	3,078,083
	183,362	141,557	323,187	239,397	323,022	244,557	104,526	87,585
Fertilizer, lime, and soil conditioners 2	32,982 465,636	36,880 447,687	16,712 358,111	18,608 341,065	4,158 75,848 3,473	4,661 71,117 4,045	16,270 107,524 15,536	18,272 106,622 19,008
Chemicals farms \$1,000 Seeds, plants, vines, and trees farms \$1,000 \$1,000	29,632 281,683 30,944	35,308 283,244 37,060	14,096 202,857 15,631	16,300 196,179 18,398	40,313 3,878	36,619 4,532	78,826 15,313	87,065 18,662
Seeds, piants, vines, and frees	370,108	299,736	280,117	220,011	58,101	45,486	89,991	79,725
	16,074	20,544	6,273	7,449	1,205	1,396	9,801	13,095
	3,211,783	2,418,527	1,989,371	1,396,684	612,805	453,025	1,222,413	1,021,843
Feed purchased	26,376	29,350	9,001	10,246	1,795	2,110	17,375	19,104
\$1,000 Gasoline, fuels, and oils	1,490,523	1,422,635	739,541	672,633	215,630	208,005	750,982	750,002
	46,325	50,659	17,722	19,126	4,584	4,940	28,603	31,533
\$1,000 Utilities (see text)	331,458	328,657	241,882	217,623	52,316	49,330	89,575	111,033
	36,103	(NA)	16,197	(NA)	3,960	(NA)	19,906	(NA)
\$1,000 Supplies, repairs, and maintenance	173,402	(NA)	124,277	(NA)	32,385	(NA)	49,125	(NA)
	44,184	46,187	17,339	18,102	4,478	4,432	26,845	28,085
	465,069	397,140	300,254	243,127	68,705	54,235	164,815	154,014
Hired farm labor	17,489	22,246	9,382	10,984	2,195	2,391	8,107	11,262
	371,650	306,254	260,731	199,996	66,986	52,319	110,919	106,257
Contract labor	5,016	6,287	2,644	3,309	692	804	2,372	2,978
	26,263	23,374	17,965	15,339	5,277	3,979	8,298	8,035
Customwork and custom hauling	15,996	(NA)	7,219	(NA)	1,599	(NA)	8,777	(NA)
	105,236	(NA)	69,019	(NA)	19,718	(NA)	36,216	(NA)
Cash rent for land, buildings, and grazing fees 3	20,243	19,256	9,963	9,735	1,778	1,785	10,280	9,521
	471,124	338,815	341,280	240,616	59,551	43,244	129,844	98,199
Rent and lease expenses for machinery,	6,037	(AA)	3,732	(NA)	870	(NA)	2,305	(NA)
equipment, and farm share of vehicles	58,333	(AA)	47,776	(NA)	11,819	(NA)	10,557	(NA)
Interest expense farms \$1,000	28,741	32,971	13,350	14,708	3,096	3,391	15,391	18,263
	468,738	422,329	308,025	270,326	69,167	61,327	160,713	152,004
\$1,000 Property taxes	45.731	49,675	16,769	17,772	4,250	4,480	28,962	31,903
	272,832	223,992	153,683	121,268	32,376	26,352	119,149	102,724
	36,449	51,253	15,195	19,238	3,646	4,941	21,254	32,015
	486,199	563,676	316,216	342,086	72,655	87,038	169,984	221,590
Commodity Credit Corporation loans (see text) farms	7,199	5,983	4,606	3,948	938	989	2,593	2,035
\$1,000 Government payments received farms \$1,000	258,686 32,007 347,517	221,623 37,059 326,937	220,009 13,565 218,276	185,075 16,100 196,650	42,035 2,965 40,418	42,338 3,853 37,542	38,677 18,442 129,241	36,548 20,959
income from farm-related sources (see text) 4	23,664 227,333	23,038 144,131	11,041 122,546	9,791 69,426	2,307 30,686	2,372 17,622	12,623 104,787	130,287 13,247 74,706
Estimated market value of all machinery and equipment 1	48,046	54,519	17,790	19,376	4,621	5,021	30,256	35,143
\$1,000	5,370,381	4,529,411	3,468,649	2,662,420	753,883	561,760	1,901,732	1,866,991
Average per larm	111,776	83,079	194,977	137,408	163,143	111,882	62,855	53,126
Livestock inventory: Cattle and calves	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
Milk cows farms	866 66.926	1,385	3,595,755	3,614,227 461 30,491	3,300	940,325 79 4,933	2,607,192 559 35,053	3,115,926 924 38,381
Hogs and pigs	3,075	6,312	1,161	2,225	164	345	1,914	4,087
	2,933,620	3,474,386	971,852	1,154,686	150,150	189,042	1,961,768	2,319,700
Sheep and lambs	1,435 97,373	1,717 102,638	392 38,863	36,769	101 10,133	119 15,253	1,043 58,510	1,293 65,869

<sup>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.</sup>