

# TABLE NO. 5A

## ADDITIONAL NITROGEN LOADING SOURCES

### Kings County, California

	1999 Number	Animal Units A.U. <sup>4</sup>	Manure <sup>5</sup> lb/day	Total Kjeldahl Nitrogen <sup>5</sup> lb/day	Manure <sup>5</sup> lb/year	Total Kjeldahl Nitrogen <sup>5</sup> lb/year
Dairy Cows <sup>1</sup>	124,688	174,563	15,012,435	78,553	5,479,538,848	28,672,006
other cows <sup>1</sup>	<b>137,000</b>	137,000	7,946,000	43,840	2,900,290,000	16,001,600
Sheep & lambs <sup>1</sup>	11,914	1,191	47,656	500	17,394,440	182,642
Goats <sup>1</sup>	3,980	398	15,920	179	5,810,800	65,372
Hogs & Pigs <sup>1</sup>	11,700	4,680	393,120	2,434	143,488,800	888,264
Turkeys <sup>1</sup>	586,103	11,722	550,937	7,268	201,091,939	2,652,702
horses <sup>2</sup>	604	1,208	61,608	362	22,486,920	132,276
broilers <sup>2,3</sup>	<b>3,000,000</b>	30,000	2,550,000	33,000	930,750,000	12,045,000
			total	166,137	9,700,851,747	60,639,861
			subtotal-nondairy	87,583	4,221,312,899	31,967,855

	Acreage Needed	(all)	218,129
	<b>Acreage Needed</b>	<b>(nondairy)</b>	<b>114,992</b>
<b>Acreage Needed</b>	<b>(nondairy manure)</b>	<b>(50% N reduction)</b>	<b>57,496</b>
	<b>Acreage Needed</b>	<b>(biosolids)</b>	22,000
		Total	79,496
		120% contingency	95,395
		Total Herd Reduction(A.U)	366,684
		Milk Cow Reduction (A.U.)	225,346.84
		<b>Revised Total (A.U.)</b>	<b>517,136</b>
		% reduction	30.4

<sup>1</sup> Data source: Kings County 1999 Agricultural Crop Report

<sup>2</sup> Data source: USDA 1997 Agricultural Census

<sup>3</sup> Estimate of stable broiler flock population assumes four flock rotations per year.

<sup>4</sup> Animal Unit conversions: dairy cow (1.4), other cattle (1.0), Sheep/lamb (0.1), goat (0.1), hog/pig (0.4), turkey (0.02), horse (2.0), broiler (0.01).

<sup>5</sup> Data Source: American Society of Agricultural Engineers, 1999, Manure Production and Characteristics