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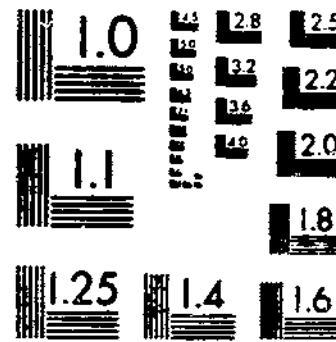
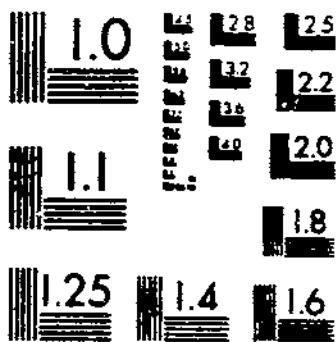
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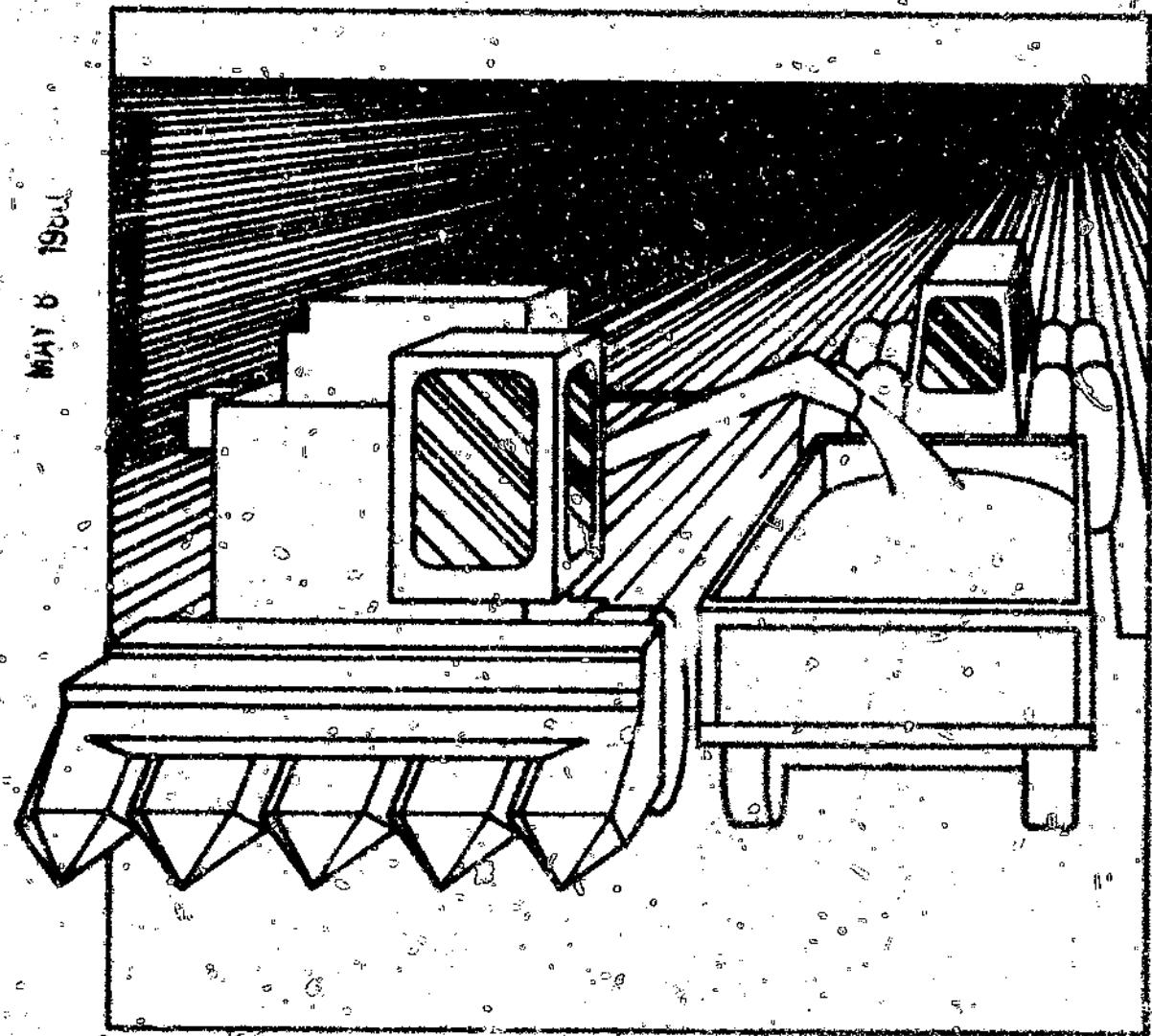
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Energy and U.S. Agriculture: 1974 and 1978

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ENERGY AND U.S. AGRICULTURE: 1974 and 1978, by David Torgerson and Harold Cooper.
National Economics Division and Data Services Center; Economics, Statistics, and
Cooperatives Service; U.S. Department of Agriculture. Statistical Bulletin No. 632.

ABSTRACT

Agricultural production used approximately 8.5 billion gallons of liquid fuel in 1978. This was up from the nearly 8 billion gallons in 1974. Fuel oil and liquified petroleum (LP) gas usage remained relatively constant between 1974 and 1978. The most dramatic changes were in diesel and gasoline usage. Gasoline use dropped about 0.2 billion gallons and diesel fuel use increased almost 0.7 billion gallons, accounting for the net 0.5 billion gallon increase in liquid fuel usage. Onfarm business use of natural gas and electricity showed virtually no change between 1974 and 1978.

Keywords: Energy; Fuel; Agriculture; Agricultural production; Energy requirements.

ACKNOWLEDGMENTS

The Federal Energy Administration (now part of the Department of Energy) and the Economic Research Service (now part of the Economics, Statistics, and Cooperatives Service of the U.S. Department of Agriculture) cooperatively developed the first comprehensive farm production energy data base. This data was published in Energy and U.S. Agriculture: 1974 Data Base Volume 1, FEA/D-76/456 and Volume 2, FEA/D-77/140. The data base, which contained estimates of fuel and electricity used in agricultural production, including energy invested in fertilizers and pesticides by State and commodity and use, was developed by R. Thomas Van Arsdall (now vice president, National Council of Farmer Cooperatives).

Edward Rall (now a graduate student in agricultural economics at Purdue University) did much of the compilation of production data and energy coefficients for the original project, coordinated the development of 1974's unpublished revisions, and updated 1975 and 1976 energy estimates. William Lindamood was the systems analyst on both the projects headed by Mr. Van Arsdall and Mr. Rall.

Special contributions to the 1978 update were made by Ronald Krenz and Gail Garst of ESCS who reran the programs which were developed for the original 1974 data base using new technologies.

John Duncan, ESCS, assisted in the compilation and verification of production data. Annie Lamb, ESCS, produced the final as well as several preliminary versions of this text. Annette Dargan, ESCS, assisted in the production of several tables.

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Energy and U.S. Agriculture: 1974 and 1978

David Torgerson and Harold Cooper

INTRODUCTION

Energy prices or energy shortages greatly affect a State's production and cost of food and fiber. Agricultural production, particularly dependent on fossil fuels, is sensitive to energy shortages which can interrupt output and decimate an entire crop. The data base used in this report was structured to reflect use by State, particularly with regard to the development of accurate total and relative gasoline and diesel fuel estimates and their relation to the cultural and technological practices associated with agricultural production in 1978.

Agricultural production consumes only 3 percent of the total energy used in the United States; however, this energy is a vital concern of U.S. and foreign consumers of farm products, who consume the production from roughly one-third of U.S. agricultural land. Therefore, agriculture must be accorded a high priority in the distribution of energy supplies.

A reflection of this concern was the Department of Energy's Allocation Rule Number 9 for the allocation of diesel fuel to agriculture in the spring of 1979. Major steps have also been taken to save energy used in agricultural production as part of a national conservation program. However, the future development of national energy policies must consider the sometimes conflicting nature of national energy goals and the Nation's goals with respect to food and fiber production.

Furthermore, there is a special need for accurate, but timely, data in the area of petroleum fuels. For example, State gasoline and diesel fuel allocations will be based on the November 1977 to October 1978 use of those fuels.

ESCS developed a revised set of estimates of 1980 fuel use in 1978 and early 1980. Special emphasis was given to improving its accuracy, owing to the critical nature of gasoline and diesel estimation. Except for these two fuels, the 1978 updating process uses acreage and livestock inventory changes between 1974 and 1978 and the adjustment procedures developed by Edward Rall and associates.

Major Definition Changes Between the Original 1974 and the Revised 1974 Data Base

Crop Drying

Data on commercial crop drying, which were incorporated in the original 1974 data base, have been deleted from the 1974 estimates so that only onfarm use is reflected

in the 1974 estimates published herein. This change, together with the use of new liquified petroleum (LP) control totals discussed below, results in a large decrease in LP gas estimates. There are also small differences in electricity, fuel oil, and natural gas estimates as a result of this definitional change.

Operation Definitions

The operations breakdown was expanded by splitting grain handling into two separate operations: grain handling machine drive, such as elevators, and grain handling vehicles used for hauling grain. All gasoline and diesel data in the original grain handling operation were allocated to the grain handling farm vehicle operation. The electricity component was assigned to grain handling machine-driven vehicles.

Major Estimation Changes from the 1974 Original Data Base

Farm Auto

The original 1974 data for the farm auto have been replaced with the 1975 Farm Production Expenditure Survey results. It is unlikely that farm auto energy use changed drastically between 1974 and 1975.

LP Gas Data

The preliminary 1974 data base LP gas estimates were developed without the use of any secondary sources, as no reliable data were available. This resulted in significant errors at the State level. The results of the 1975 Farm Production Expenditure Survey were incorporated into the revised 1974 LP gas estimates.

Invested Energy

Those interested in utilizing the invested energy section of the data base should note the changes made (invested energy is that which is required to produce and transport pesticides and fertilizer to the farm gate). Original estimates overcounted pesticide use on cotton by a factor of two. Preliminary fertilizer data were replaced by ESCS survey data for corn, soybeans, wheat, and cotton, the major crops fertilized.

Gasoline and Diesel Use

The revised 1974 data base was adjusted to reflect energy expenditures in the 1974 Census of Agriculture. Gasoline and diesel fuel expenditures by State were converted to quantities by dividing by price estimates. The 1974 data base was modified to reflect these control totals. Where appropriate, ESCS Firm Enterprise Data System (FEDS) crop gasoline and diesel coefficients for various major field crops modified the data base energy use estimates.^{1/} Finally, any discrepancy between the 1974 Census of Agriculture and the data base was allocated proportionately to the fuel used in the major crops and livestock. The use of Census of Agriculture control totals for gasoline and diesel fuel was an innovation from the previous revision developed by Rall.

^{1/} The Firm Enterprise Data System is a system of budgets representing production costs for various types of crops and livestock. It is operated and maintained by Ronald Krenz at Oklahoma State University.

Construction of 1978 Energy Estimates

The revised 1974 energy data estimates were converted into per acre and per live-stock unit energy coefficients, adjusted by the processes outlined below, and multiplied by 1978 acreages and livestock inventories to estimate energy use for 1978. Production data for 1978 were based on ESCS survey results. Irrigation and farm auto use were treated separately and thus did not directly mirror production data changes.

Irrigation Energy

Estimates made by ESCS irrigation specialists show that average well depth increases over time. The irrigation energy requirements were adjusted to reflect the general trend of increasing well depth.

Farm Auto

Farm auto energy use per acre was kept constant at the State level from 1974 to 1978. Some potential inconsistency is introduced because State energy control totals were based on 1975 Farm Production Expenditure Survey data, and indirectly on 1974 Census of Agriculture controls, but there is no reason to believe that there was a significant change in relative farm business automobile energy consumption throughout these 4 years.

Increased Diesel Use and Minimum Tillage

Over the past 20 years there has been a major trend toward increased utilization of diesel-powered farm machinery. This trend was incorporated into the 1978 energy use coefficients. 2/ In addition, better sales figures on diesel-powered equipment became available to implement the update algorithm. The increasing use of minimum tillage practices was reflected in the estimates of 1978 energy consumption. 3/

Gasoline and Diesel Use

The FEDS budgets were updated in late 1979 and early 1980 to incorporate 1978 farm technology. The 1978 data base diesel and gasoline coefficients were updated to reflect the percentage changes which were implied by the percentage difference between 1974 and 1978 in FEDS budget fuel use. Where there was disagreement, this procedure over-rode the update process which reflected the increased diesel use already outlined.

2/ A more detailed description of the algorithm will be available in a future publication detailing the methodology of the construction of the 1978 data base and the 1974 revised data base. In the interim, methodological questions may be addressed to John Duncan of ESCS, USDA, Washington, D.C.

3/ Published in Alternative Futures for U.S. Agriculture: A Progress Report (Part I), Minimum Tillage: A Preliminary Technology Assessment (Part II). 94th Congress 1st Session, Rpt. No. 57-398, U.S. Dept. Agr., Off. Planning and Evaluation, Govt. Print. Off., Washington, D.C., Sept. 1975, pp. 59-89.

Comparison of the 1978 and Revised and Original 1974 Estimates

There are three sources of the changes between the previously published 1974 data base and the 1978 data base. First, the 1974 per acre coefficients changed because of the definitional and substantive revision efforts and the use of 1974 Census of Agriculture controls for gasoline and diesel. Second, the coefficients have been changed by the procedures indicated in the previous section. Finally, production numbers were changed to reflect the cropping and livestock patterns of 1978. Table I reveals the magnitude of the shift from the original to the revised 1974 fuel use estimates and the shift between 1974 and 1978.

Two nationally significant changes between the original 1974 and revised 1974 estimates are the relatively large drops in LP gas and natural gas consumption. The LP gas statistics declined because of the use of different LP usage estimates and the exclusion of commercial crop drying activities (to conform to the Department of Energy's industrial classification scheme). Natural gas consumption declined almost solely because of the exclusion of off-farm crop drying operations. Therefore, no large drop in usage should be inferred from these differences.

Table 1--Energy in U.S. agricultural production, by type of fuel
1974 and 1978

Fuel	Unit	Original 1/ 1974	Revised 1974	1978
Gasoline	1,000 gallons	3,698,641	3,709,290	3,515,656
Diesel	do.	2,638,955	2,620,459	3,307,747
Fuel oil	do.	303,929	292,126	292,869
LP gas	do.	1,481,542	1,375,476	1,424,835
Natural gas	Million cu. ft.	164,125	137,434	140,063
Coal	Tons	32,725	32,725	36,552
Electricity	Million kWh	32,088	31,755	31,909
		:	:	:

1/ Published in Energy and Agriculture: 1974 Data Base Volume 1, and Volume 2: Commodity Series of Energy Tables, prepared cooperatively by FEA, Off. Con. and U.S. Dept. Agr., Econ. Res. Serv., Sept. 1976 and Apr. 1977. Govt. Print. Off., Washington, D.C. (Stock No. 041-008-00128-0 and 041-018-00136-1 respectively).

The most abrupt change between the revised 1974 data base and 1978 estimates is the large increase in diesel fuel use. This mirrors the basic continuation of the mechanical revolution in agriculture. A large diesel use increase was only slightly offset by a decline in gasoline use. This is consistent with trends shown in the Farm Production Expenditure Surveys. In addition, the real decline in petroleum fuel prices from 1974 to 1978 leads one to expect an increase of petroleum use relative to other inputs in this period.

The differences between the original 1974 data base and the revised 1974 data base are significant for gasoline, diesel, and LP gas. Table 2 shows the differences between the original and the revised estimates for gasoline and diesel. There is essentially no difference between the revised and original data base for gasoline and diesel at the national level. The 1974 Census of Agriculture and the original data base show a high degree of consistency for national gasoline and diesel estimates.

Table 2—Comparison of gasoline and diesel use on farms estimated for 1974 revised and original data bases 1/

State	Gasoline			Diesel		
	1974			1974		
	Revised estimates 1/	Original data base 2/	Difference	Revised estimates 1/	Original data base 2/	Difference
	1,000 gallons	Percent		1,000 gallons	Percent	
Alabama	48,091	38,589	25	36,543	37,562	-3
Alaska	377	282	34	182	48	279
Arizona	21,601	24,181	-11	23,674	16,530	43
Arkansas	71,018	71,302	0	93,199	94,618	-1
California	152,526	157,369	-3	135,663	166,183	-18
Colorado	67,004	50,136	34	46,975	45,838	2
Connecticut	7,186	4,049	77	1,678	1,646	2
Delaware	7,665	10,349	-26	3,532	5,704	-38
Florida	49,187	78,805	-38	57,054	88,500	-36
Georgia	64,284	68,673	-6	67,986	62,624	9
Hawaii	6,387	8,976	-29	9,922	6,493	53
Idaho	58,212	42,097	38	43,365	41,277	5
Illinois	253,783	268,529	-5	146,414	129,635	13
Indiana	130,048	143,900	-10	69,977	66,999	4
Iowa	246,711	328,274	-25	148,497	164,581	-10
Kansas	193,626	148,982	30	158,397	136,263	16
Kentucky	65,203	59,364	10	33,112	34,449	-4
Louisiana	40,530	48,003	-16	64,817	68,594	-6
Maine	13,456	7,980	69	4,529	3,059	48
Maryland	25,492	25,408	0	12,332	11,526	7
Massachusetts	7,364	4,220	75	1,641	1,894	-13
Michigan	82,201	85,409	-4	40,594	48,629	-17
Minnesota	230,022	244,160	-6	133,779	109,489	22
Mississippi	45,979	56,679	-19	63,727	70,876	-10
Missouri	153,168	139,758	10	70,919	75,767	-6
Montana	67,692	58,538	16	45,107	29,419	53
Nebraska	152,989	141,446	8	142,257	240,587	-41
Nevada	7,968	8,297	-4	4,949	8,529	-42
New Hampshire	3,313	1,850	79	1,042	591	76
New Jersey	16,067	15,078	7	4,621	6,893	-33
New Mexico	25,870	26,847	-4	17,239	19,310	-11
New York	90,257	74,952	20	34,493	29,002	19
North Carolina	78,961	66,060	20	46,617	56,668	-18
North Dakota	125,464	124,088	1	109,566	98,404	11
Ohio	126,871	119,093	7	71,395	51,631	38
Oklahoma	59,802	103,933	-42	62,502	62,026	1
Oregon	56,167	30,731	83	34,320	23,670	45
Pennsylvania	82,443	74,030	11	29,198	32,903	-11
Rhode Island	1,184	507	134	383	169	127
South Carolina	27,995	29,847	-6	24,338	30,232	-19
South Dakota	152,029	89,022	71	90,881	104,390	-13
Tennessee	47,464	50,644	-6	39,768	37,817	5
Texas	214,937	264,191	-19	224,627	181,661	24
Utah	22,493	14,831	52	10,006	11,817	-15
Vermont	10,647	8,555	24	4,794	1,536	212
Virginia	41,116	33,328	23	20,881	27,455	-24
Washington	83,403	43,000	94	66,621	31,742	110
West Virginia	7,590	9,129	-17	1,572	4,281	-63
Wisconsin	140,482	177,800	-21	53,969	45,097	20
Wyoming	24,957	17,576	42	10,807	14,249	-24
United States	3,709,282	3,698,647	0	2,620,461	2,638,963	-1

1/ The revised State and national totals may differ slightly from those in the other sets of tables because of differences in rounding. The above numbers were generated using double-precision arithmetic and the numbers in the State summary tables using single-precision arithmetic.

2/ See footnote 1, table 1.

The breakdown by State for gasoline and diesel use shows large percentage differences between the original and revised 1974 estimates. Rhode Island had the largest percentage increase in estimated gasoline use, whereas, Oklahoma had the largest percentage decrease in the estimated gasoline consumption. The gasoline estimates for Arkansas, Maryland, and North Dakota virtually were not changed.

West Virginia registered the largest percentage decline in the 1974 diesel estimate. The largest percentage increase was Alaska with 279 percent. Arkansas and Oklahoma had virtually identical diesel estimates in each version of the 1974 data base.

Table 3 indicates the large difference between the original and revised LP estimates which was caused by a definitional change (the use of only onfarm crop drying) and the use of Farm Production Expenditure Survey controls. Oklahoma had its LP gas estimate increase over 100 percent. Simultaneously, the LP use estimate for Montana dropped sharply.

The relative and absolute change between onfarm gasoline and diesel usage between 1974 and 1978 was the focus of the update process. Gasoline usage dropped 5 percent at the national level. U.S. farm use of diesel fuel increased by 26 percent between 1974 and 1978.

The relatively minor drop in gasoline use reflects the switch to diesel fuel to perform activities previously done by gasoline. Table 4 shows the percentage drop in gasoline use by States. The largest decline (23 percent) occurred in Hawaii. ^{4/} Gasoline use in Oklahoma dropped 15 percent. Wisconsin, Maryland, Idaho, and Tennessee had virtually no change in gasoline usage between 1974 and 1978. Indeed, for most States, the movements in gasoline use are smaller than the change between the revised and original 1974 data bases.

The onfarm increase in diesel use between 1974 and 1978 is much more pronounced than the gasoline decline. Ohio's 66-percent increase in usage may be above the actual increase, but it is reasonably likely that the error is small (table 5). The large increases shown in New England States are probably larger than actual. Washington, South Dakota, and Nevada showed essentially no growth in diesel use.

Table 5 indicates the growth patterns reflected in the data base between 1974 and 1978. The national growth rate of 26 percent is somewhat below what would be implied by the 1978 Farm Production Expenditure Survey but somewhat above the trend for the 1974 to 1977 surveys. The increases between the revised 1974 diesel use and 1978 data base estimates are generally much larger than the increases between the original 1974 data base diesel use figures and the revised 1974 data base figures.

Reliability and Limitations of the Data

The data base represented in the following tables is a modeled estimate of the relative size of various uses of energy in agriculture. The original 1974 estimates were constructed with the aid of over 40 commodity specialists in ERS. Special studies were undertaken to obtain accurate estimates for energy use in specialized operations. A more detailed description of the validation of the preliminary 1974 data base is contained in Energy and U.S. Agriculture: 1974 Data Base.

^{4/} This change probably reflects the limitation of the update methodology more than a shift in actual use of fuel in Hawaii. Both the original and revised 1974 and 1978 data bases are heavily dependent on the use of field-crop energy use estimates. These crops play a relatively small role in Hawaiian agriculture.

Table 3--Comparison of liquified petroleum gas use on farms estimated for 1974 between revised and original data bases

State	1974	1974	Difference	
	revised	original		
	estimates 1/	data base 2/		
:				
<u>1,000 gallons</u>		<u>Percent</u>		
Alabama	22,298	24,011	-7	
Alaska	23	64	-64	
Arizona	1,523	1,301	17	
Arkansas	65,673	57,400	14	
California	26,288	24,940	5	
Colorado	9,970	8,531	17	
Connecticut	1,766	2,004	-12	
Delaware	6,609	7,080	-7	
Florida	19,736	21,998	-10	
Georgia	50,758	54,878	-8	
Hawaii	155	173	-10	
Idaho	4,912	6,769	-27	
Illinois	131,852	138,738	-5	
Indiana	62,339	73,929	-16	
Iowa	118,376	143,390	-17	
Kansas	48,948	45,002	9	
Kentucky	10,041	15,912	-37	
Louisiana	16,927	10,537	61	
Maine	537	844	-36	
Maryland	11,352	13,516	-16	
Massachusetts	771	985	-22	
Michigan	15,310	21,787	-29	
Minnesota	68,150	89,909	-24	
Mississippi	19,353	19,792	-2	
Missouri	36,138	46,097	-22	
Montana	711	5,861	-88	
Nebraska	143,653	149,219	-4	
Nevada	818	1,989	-59	
New Hampshire	380	436	-13	
New Jersey	1,059	1,758	-40	
New Mexico	19,154	18,142	6	
New York	5,214	11,594	-55	
North Carolina	133,918	142,808	-6	
North Dakota	2,733	5,793	-53	
Ohio	28,640	38,700	-26	
Oklahoma	45,407	21,467	112	
Oregon	2,570	6,504	-60	
Pennsylvania	11,898	18,681	-36	
Rhode Island	69	97	-29	
South Carolina	23,419	26,163	-10	
South Dakota	16,003	31,326	-49	
Tennessee	6,645	10,668	-38	
Texas	121,874	67,329	81	
Utah	2,150	3,014	-29	
Vermont	1,680	2,322	-28	
Virginia	24,912	29,635	-16	
Washington	3,249	7,297	-55	
West Virginia	1,800	2,817	-36	
Wisconsin	26,698	46,578	-43	
Wyoming	814	1,758	-54	
:		:		
United States	1,375,473	1,481,543	-7	
:				

1/ See footnote 1, table 2.

2/ See footnote 1, table 1.

Table 4--Comparison of gasoline fuel use on farms between the updated
1974 data base and 1978 data base 1/

State	1974 gasoline	1978 gasoline	Difference
	revised		
:			
<u>1,000 gallons</u>			
<u>Percent</u>			
Alabama	48,091	47,520	-1
Alaska	377	347	-8
Arizona	21,601	19,542	-10
Arkansas	71,018	70,550	-1
California	152,526	146,964	-4
Colorado	67,004	61,758	-8
Connecticut	7,186	6,482	-10
Delaware	7,665	7,317	-5
Florida	49,187	48,682	-1
Georgia	64,284	58,388	-9
Hawaii	6,387	4,938	-23
Idaho	58,212	58,795	1
Illinois	253,783	244,647	-4
Indiana	130,048	120,723	-7
Iowa	246,711	235,714	-4
Kansas	193,626	169,006	-13
Kentucky	65,203	62,300	-4
Louisiana	40,530	45,224	12
Maine	13,456	12,745	-5
Maryland	25,492	25,315	-1
Massachusetts	7,364	6,920	-6
Michigan	82,201	79,875	-3
Minnesota	230,022	221,567	-4
Mississippi	45,979	44,911	-2
Missouri	153,168	147,322	-4
Montana	67,692	64,263	-5
Nebraska	152,989	139,355	-9
Nevada	7,968	7,408	-7
New Hampshire	3,313	3,203	-3
New Jersey	16,067	16,125	0
New Mexico	25,870	22,668	-12
New York	90,257	89,275	-1
North Carolina	78,961	72,425	-8
North Dakota	125,464	113,400	-10
Ohio	126,871	120,335	-5
Oklahoma	59,802	50,953	-15
Oregon	56,167	53,493	-5
Pennsylvania	82,443	79,646	-3
Rhode Island	1,184	1,019	-14
South Carolina	27,995	24,974	-11
South Dakota	152,029	137,351	-10
Tennessee	47,464	47,302	0
Texas	214,937	204,642	-5
Utah	22,493	20,812	-7
Vermont	10,647	10,025	-6
Virginia	41,116	38,458	-6
Washington	83,403	80,504	-3
West Virginia	7,590	7,110	-6
Wisconsin	140,482	140,485	0
Wyoming	24,957	22,878	-8
United States	3,709,285	3,515,661	-5
	:		

1/ See footnote 1, table 2.

Table 5--Comparison of diesel fuel use on farms between the updated 1974 data base and 1978 data base 1/

State	: 1974 diesel fuel revised	: 1978 diesel fuel	Difference
:			
: <u>1,000 gallons</u>			
: <u>Percent</u>			
Alabama	: 36,543	47,413	30
Alaska	: 182	250	37
Arizona	: 23,674	30,089	27
Arkansas	: 93,199	108,105	16
California	: 135,663	167,595	24
Colorado	: 46,975	67,944	45
Connecticut	: 1,678	2,383	42
Delaware	: 3,532	4,594	30
Florida	: 57,054	74,126	30
Georgia	: 67,986	89,082	31
Hawaii	: 9,922	13,571	37
Idaho	: 43,365	61,987	43
Illinois	: 146,414	181,209	24
Indiana	: 69,977	79,559	14
Iowa	: 148,497	215,154	45
Kansas	: 158,397	201,931	27
Kentucky	: 33,112	38,030	15
Louisiana	: 64,817	72,626	12
Maine	: 4,529	6,252	38
Maryland	: 12,332	17,018	38
Massachusetts	: 1,641	2,434	48
Michigan	: 40,594	54,898	35
Minnesota	: 133,779	158,056	18
Mississippi	: 63,727	73,577	15
Missouri	: 70,919	110,409	56
Montana	: 45,107	50,032	11
Nebraska	: 142,257	177,754	25
Nevada	: 4,949	5,263	6
New Hampshire	: 1,042	1,656	59
New Jersey	: 4,621	6,574	42
New Mexico	: 17,239	19,006	10
New York	: 34,493	55,805	62
North Carolina	: 46,617	59,916	29
North Dakota	: 109,566	125,940	15
Ohio	: 71,395	118,746	66
Oklahoma	: 62,502	68,793	10
Oregon	: 34,320	39,892	16
Pennsylvania	: 29,198	38,343	31
Rhode Island	: 383	577	51
South Carolina	: 24,338	31,703	30
South Dakota	: 90,881	94,297	4
Tennessee	: 39,768	43,241	9
Texas	: 224,627	279,756	25
Utah	: 10,006	12,169	22
Vermont	: 4,794	7,766	52
Virginia	: 20,881	30,070	44
Washington	: 66,621	68,745	3
West Virginia	: 1,572	2,292	46
Wisconsin	: 53,969	76,012	41
Wyoming	: 10,807	15,107	40
:			
United States	: 2,620,461	3,307,747	26
:			

1/ See footnote 1, table 2.

The 1978 estimates are not comparable to the 1974 estimates as independent observations because a comparative cross sectional analysis between the revised 1974 and 1978 data base would reflect nothing but acreage changes and the trends (dieselization, increasing use of minimum tillage, and the like) that are built into the estimation method. The 1978 nonpetroleum fuel estimates have not received the amount of scrutiny which the preliminary 1974 estimates received.

The 1978 energy use estimates are probably a good indication of the relative consumption of various energy forms in agricultural production. At the level of aggregation in the 1978 estimates, the original 1974 estimates were generally regarded as reasonable by most non-ESCS users and reviewers. The 1978 estimates are logical extensions of the 1974 normal (weather factors excluded) usage levels with the previously mentioned trends incorporated. Thus, given commodity production for 1978, the estimates reflect a normal expected usage of energy for 1978.

Because the per acre energy use estimates are essentially (if somewhat indirectly) based on USDA's Firm Enterprise Data System (FEDS) budgets, the orientation of field operation estimates is reflected throughout the data base. The FEDS budget for a particular crop assumes that a certain production technology in a production area has an optimal utilization of resources per acre. For field operations, there is no reason to believe that any type of farmer (classified by crop or geographic area) is any more or less efficient than any other type of farmer. Thus, relative energy use is probably closely captured by this method for field operations such as preplanting, planting, cultivation, and harvesting. Estimates of other operations, such as farm auto usage, were not and could not have been generated using this methodology. Thus these estimates have a somewhat less reliable character.

Gasoline and diesel national totals are accurate within 10 percent. The State totals for gasoline and diesel should have a 20-percent confidence interval for large agricultural States such as Illinois, Indiana, and Iowa. 5/ 6/ An interval of 30 percent would be appropriate for States such as Oregon and Washington. For smaller agricultural producers such as Rhode Island and Connecticut, a 40-percent error is possible.

The 1978 energy estimates for other fuels and electricity should be regarded as reflective of relative operational use within a State. When the appropriate 1978 Census of Agriculture expenditure data are published, better comparisons can be made with State and national totals. This data base could then be used to reasonably disaggregate total use on a proportional basis by operation and between crops and livestock.

The 1978 estimates for fuels other than gasoline and diesel are being published because they are the only consistent set available. They do retain, in a strong sense, the limitations of the construction and methodology of this update.

5/ This is not a confidence interval in a classical statistical sense but a Bayesian heuristic (a confidence interval based on subjective instead of objective probability estimates) one. In particular, if we were offered a bet at two to one against that any of our estimates were within the prescribed intervals we would take the bet.

6/ The one exception would be California where the field crop orientation of our data would make our estimates of uncertain reliability.

Energy Productivity in Agriculture

Between 1974 and 1978 there was a substantial increase in the production of most major crops. The increasingly intensive use of liquid fuels was accompanied by an increase in the usage of embodied energy (pesticides and fertilizer). As electricity and natural gas usage were relatively constant, most of the increase in Btus used is attributable to the increase in diesel fuel being partially offset by a decline in gasoline and agricultural chemical use. The amount of energy used in agricultural production in 1978 was 2.05 Quads (trillion Btus) up from 1.92 Quads in 1974, an increase of about 7 percent. During the same period, the index for farm output rose from 106 in 1974 to 121 in 1978—an increase of 14 percent.^{7/} The index for livestock production remained constant at 106 between 1974 and 1978. The crop output index rose from 110 in 1974 to 131 in 1978.

Comparing the 2 years shows that the 7-percent increase in energy usage was accompanied by a growth of output of 14 percent. This production increase was, of course, accompanied by increased usage of other inputs so that no implication of increased "energy efficiency" should necessarily be made. An adequate analysis of energy efficiency would involve the use of sophisticated econometric or operations research techniques which are beyond the scope of this work.

Table 6 indicates clearly the change in level and composition of crop output between 1974 and 1978. Production of most of the major crops increased between 1974 and 1978. Corn for grain, soybeans, fresh vegetables, and barley registered the largest production increases. There were relatively small production declines in cotton, processed vegetables, oats, and dry edible beans. Therefore, it was reasonable that the index of crop output would increase between 1974 and 1978.

Overall, livestock production as shown in table 7 is relatively constant. The production declines recorded for beef cows, calves, hogs, and sheep and lambs were counterbalanced by increased milk, egg, broiler, and turkey production.

^{7/} Changes in Farm Production and Efficiency, 1978. Stat. Bull. 628, U.S. Dept. Agr., Econ., Stat., and Coop. Serv.

Table 6--Crop production, 1974 and 1978

Major crops	Acreage harvested			Production		Percent change		Yield/acre 1974	Percent change 1978-74
	Units	1974	1978	1974	1978	1974	1978		
	(000)	(000)	78-74	(000)	(000)	78-74			
:									
Corn for grain	Bushels	65,357	70,275	8	4,663,631	7,086,666	52	71.4	100.8
Soybeans	do.	52,368	63,343	21	1,214,802	1,870,181	54	23.2	29.5
All wheat	do.	65,613	56,942	-13	1,796,187	1,797,528	0	27.4	31.6
All hay	Tons	60,571	61,515	2	127,143	142,209	12	2.10	2.31
Cotton	Pounds	12,567	12,370	-2	11,540	10,856	-6	441	421
Grain sorghum	Bushels	13,876	13,561	-2	629,222	747,790	19	45.3	55.1
Vegetables	:								
Fresh (22)	Cwt.	1,549	1,617	4	1,867,748	2,763,007	48	—	—
Processed (9)	do.	1,769	1,611	-9	927,084	874,675	-6	—	—
Potatoes	do.	1,391	1,371	-1	342,060	365,249	7	246	266
Rice	Pounds	2,536	2,970	17	112,394	133,170	18	4,432	4,484
Sugarbeets	Tons	1,213	1,269	5	22,123	25,725	16	18.2	20.3
Oats	Bushels	13,206	11,426	-13	613,777	595,882	-3	46.5	52.2
All tobacco	Pounds	963	948	-2	1,989,728	2,024,369	2	2,067	2,135
Sugarcane	Tons	734	744	1	24,812	25,997	5	33.8	35.0
Barley	Bushels	8,168	9,247	13	304,112	449,177	48	37.2	48.6
Fruits	:								
Citrus (7)	Tons	—	—	—	13,412	14,255	6	—	—
Noncitrus (18)	do.	—	—	—	11,185	11,872	6	—	—
Peanuts	Pounds	1,472	1,512	3	3,667,604	3,988,624	9	2,491	2,639
Dry edible beans	do.	1,542	1,481	-4	20,343	19,040	-6	1,320	1,285
Dry edible peas	do.	213	202	-5	3,228	3,601	12	1,515	1,783
:									

— = Not available

Source: Crop Production Annual Summary CrPr 2-1 (77) and CrPr 2-1 (80); Noncitrus Fruits and Nuts, Annual Summary, FRN 1-3 (77) and FRN 1-3 (80); Citrus Fruits Production, Use, and Value, FRN 3-1 (76) and FRN 3-1 Vegetables, Acreage, Yield, Production, and Value, Vg. 1-2 (76), and (Vg. 1-2) (79). Crop Rptg. Bd., USDA, Washington, D.C.

Table 7--Livestock production, 1974 and 1978

Livestock	: Units : (thousands)	: Inventory		: change: 78-74	: Percent: change Mil. units	: Production		: Percent change 78-74
		1974	1978			1974	1978	
Beef cows and calves	Head	45,712	36,989	-19	Pounds	426,496	39,812.1	-7
Beef feedlot	do.	1/ 23,330	1/ 26,645	14	--	--	--	--
Milk cows	Number	11,219	10,853	-3	Pounds	115,553.0	121,928.0	6
Hogs	Head	2/ 85,962	2/ 81,266	-5	do.	20,101.5	19,557.6	-3
Chicken-layers	Average Number							
Chicken-pullets	Layers	286,652	281,478	-2	Eggs	66,083.0	67,034.0	1
Broilers	Number							
Turkeys	produced	2,992,344	3,523,068	18	Pounds	11,318.7	13,662.4	21
Sheep and lambs	Number							
	raised	131,347	139,800	6	do.	2,424.4	2,669.4	10
	Head	14,515	12,224	-16	do.	806.8	698.5	-13

-- = Not Available.

1/ Cattle marketed.

2/ Hogs marketed.

Source: Livestock and Meat Statistics Supplements for 1975 and 1978, Stat. Bull. No. 522; Meat Animals, Production, Disposition, Income, Final Estimates 1970-74, Stat. Bull. No. 598 and Mt AN 1-1 (79); Chicken, Eggs and Broilers, Production, Disposition, Cash Receipts, Gross Income, 1974-1975, POV 2-3 (76); Poultry, Production, Disposition and Income 1977-1978; POV 2-3 (79); Layers and Egg Production, POV 3 (3-76) and POV 3(1-80) Turkeys, POV 3(3-76) and POV 3(1-80); Milk Productio DAL-1(6-76) and DA 1-1 (1-80); Crop Rptg. Bd., USDA, Washington, D.C.

ALABAMA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^{b/}	BTU TOTAL (BILLION)
PREPLANT	317	12366	-	29	-	-	-	-	1758
PLANT	42	4341	-	4	-	-	-	-	608
CULTIVATE	11	7794	-	2	-	-	-	-	1083
HARVEST	7820	6123	-	749	-	-	-	-	1898
FARM PICKUP	11075	-	-	-	-	-	-	-	1384
FERTILIZER APPLIC.	25	5995	-	2	-	-	-	-	635
PESTICIDE APPLIC.	214	4331	-	25	-	-	-	-	630
FARM TRUCK	11789	15	-	-	-	-	-	-	1476
FARM AUTO-CROPS	5598	-	-	-	-	-	-	-	700
CROP DRYING(UN-FM)	-	-	-	1278	-	-	2	-	128
IRRIGATION	252	163	-	29	1	-	1	-	61
FERTILIZER	-	-	-	-	-	-	-	6667	6667
PESTICIDES	-	-	-	-	-	-	-	1813	1813
ELECTRICITY	-	-	-	-	-	-	20	-	69
MISCELLANEOUS	-	78	-	-	-	-	-	-	11
TOTAL-CROPS	37145	41206	-	2120	1	-	23	8481	19120
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	3	-	-	-	-	50	N/A	170
FEED HANDLING	1131	3261	-	120	-	-	16	N/A	658
WASTE DISP.(LIVESTK)	2218	942	-	206	-	-	-	N/A	427
WASTE DISP.(MACH)	-	-	-	513	11	-	1	N/A	64
WATER SUPPLY	-	-	-	-	-	-	19	N/A	63
LIVESTOCK HANDLING	92	6	-	9	-	-	-	N/A	13
SPACE HEATING	-	-	-	236	-	-	1	N/A	26
VENTILATION	-	-	-	-	-	-	48	N/A	165
WATER HEATING	-	-	-	742	-	-	4	N/A	84
MILKING	-	-	-	-	-	-	7	N/A	24
MILK COOLING	-	-	-	-	-	-	10	N/A	35
EGG HANDLING	-	-	-	-	-	-	1	N/A	4
BROODING	-	-	-	20391	143	8149	-	N/A	2279
FARM VEHICLES	4028	793	-	-	-	-	-	N/A	613
FARM AUTO-LVSTK	1368	-	-	-	-	-	-	N/A	171
OTHER	1538	1206	-	-	-	-	2	N/A	367
TOTAL-LIVESTOCK	10376	6208	-	22217	154	8149	159	N/A	5164
TOTAL-AGRICULTURE	47521	47414	-	26337	155	8149	182	8481	24284

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

ALASKA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
PREPLANT	25	-	-	-	-	-	-	-	3
PLANT	33	-	-	-	-	-	-	-	4
CULTIVATE	36	-	-	-	-	-	-	-	5
HARVEST	101	-	-	-	-	-	-	-	13
IRRIGATION	15	2	-	-	-	-	-	-	4
FERTILIZER	-	-	-	-	-	-	-	27	27
PESTICIDES	-	-	-	-	-	-	-	1	1
MISCELLANEOUS	80	-	-	-	-	-	-	-	10
TOTAL-CROPS	290	2	-	-	-	-	-	28	66
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
FEED HANDLING	17	248	-	-	-	-	-	N/A	36
WASTE DISP.(VEHS)	17	-	-	-	-	-	-	N/A	2
WATER HEATING	-	-	-	15	-	-	-	N/A	2
MILKING	-	-	-	-	-	-	-	N/A	1
MILK COOLING	-	-	-	-	-	-	-	N/A	1
BREEDING	-	-	5	-	-	-	-	N/A	1
FARM VEHICLES	6	-	-	-	-	-	-	N/A	2
OTHER	15	-	-	-	-	-	-	N/A	-
TOTAL-LIVESTOCK	57	248	6	16	-	-	1	N/A	46
TOTAL-AGRICULTURE	347	250	6	16	-	-	1	28	112

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

ARIZONA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION)
PREPLANT	22	14526	-	4	-	-	-	-	2018
PLANT	2	1867	-	-	-	-	-	-	259
CULTIVATE	8	5025	-	1	-	-	-	-	698
HARVEST	879	3451	-	121	-	-	-	-	600
FARM PICKUP	6000	2	-	-	-	-	-	-	750
FERTILIZER APPLIC.	5	1405	-	1	-	-	-	-	195
PESTICIDE APPLIC.	26	206	-	4	-	-	-	-	32
FARM TRUCK	1977	22	-	-	-	-	-	-	250
FARM AUTO-CROPS	2245	-	-	-	-	-	-	-	281
CROP DRYING(ON-FM)	-	-	-	21	-	-	-	-	2
IRRIGATION	-	-	-	-	14547	-	2098	-	22010
FROST PROTECTION	1338	1341	5963	1	-	-	-	-	1203
FERTILIZER	-	-	-	-	-	-	-	4802	4802
PESTICIDES	-	-	-	-	-	-	-	506	506
ELECTRICITY	-	-	-	-	-	-	-	-	21
MISCELLANEOUS	39	79	-	-	-	-	-	-	16
TOTAL-CROPS	12541	27924	5963	154	14547	-	2111	5307	33644
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	22	N/A	73
FEED HANDLING	1799	1922	-	243	-	-	33	N/A	627
WASTE DISP.(VEHS)	910	227	-	128	-	-	-	N/A	158
WASTE DISP.(MACH)	-	-	-	15	-	-	-	N/A	2
WATER SUPPLY	-	-	-	-	-	-	3	N/A	11
LIVESTOCK HANDLING	277	2	-	37	-	-	-	N/A	38
SPACE HEATING	-	-	-	56	-	-	-	N/A	5
VENTILATION	-	-	-	-	-	-	5	N/A	16
WATER HEATING	-	-	-	813	-	-	2	N/A	83
MILKING	-	-	-	-	-	-	7	N/A	25
MILK COOLING	-	-	-	-	-	-	10	N/A	32
BREEDING	-	-	-	27	-	-	-	N/A	3
FARM VEHICLES	3459	1	-	-	-	5	-	N/A	433
FARM AUTO-LVSTK	97	-	-	-	-	-	-	N/A	12
OTHER	459	13	-	-	-	-	2	N/A	66
TOTAL-LIVESTOCK	7001	2165	-	1320	-	5	82	N/A	1583
TOTAL-AGRICULTURE	19542	30089	5963	1474	14547	5	2193	5307	35227

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

ARKANSAS

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	1965	36151	-	2633	-	-	-	-	5511
PLANT	17	8948	-	29	-	-	-	-	1246
CULTIVATE	2	20154	-	3	-	-	-	-	2796
HARVEST	4465	16834	-	6274	-	-	-	-	3492
FARM PICKUP	30850	5	-	594	-	-	-	-	3905
FERTILIZER APPLIC.	317	270	-	431	-	-	-	-	119
PESTICIDE APPLTC.	1229	1916	-	1532	-	-	-	-	566
FARM TRUCK	2658	4	-	-	-	-	-	-	333
FARM AUTO-CROPS	7829	-	-	-	-	-	-	-	978
GRAIN HNDLNG(VFHS)	28	-	-	-	-	-	-	-	5
CROP DRYING(ON-FARM)	-	-	-	1809	23	-	9	-	225
IRRIGATION	12696	3576	-	21735	248	-	84	-	4700
FERTILIZER	-	-	-	-	-	-	-	10620	10620
PESTICIDES	-	-	-	-	-	-	-	3618	3618
ELECTRICITY	-	-	-	-	-	-	39	-	133
MISCELLANEOUS	-	367	-	-	-	-	-	-	51
TOTAL-CROPS	62058	88228	-	34951	270	-	132	14239	38298
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	55	N/A	189
FEED HANDLING	619	2350	-	1011	-	-	17	N/A	557
WASTE DISP.(VENS)	1150	274	-	1878	-	-	-	N/A	361
WASTE DISP.(MACH)	-	-	-	581	20	-	1	N/A	80
WATER SUPPLY	-	-	-	-	-	-	16	N/A	55
LIVESTOCK HANDLING	93	33	-	153	-	-	-	N/A	31
SPACE HEATING	-	-	-	159	-	-	-	N/A	17
VENTILATION	-	-	-	-	-	-	51	N/A	174
WATER HEATING	-	-	-	812	-	-	4	N/A	92
MILKING	-	-	-	-	-	-	8	N/A	26
MILK COOLING	-	-	-	-	-	-	11	N/A	39
EGG HANDLING	-	-	-	-	-	-	2	N/A	7
BROODING	-	-	-	26006	356	-	-	N/A	2847
FARM VEHICLES	4249	366	-	85	-	-	-	N/A	590
FARM AUTO-LVSTK	956	-	-	-	-	-	-	N/A	120
OTHER	1892	1947	-	38	-	-	2	N/A	518
TOTAL-LIVESTOCK	8960	1971	-	30721	376	-	168	N/A	5700
TOTAL-AGRICULTURE	71018	93199	-	65672	646	-	300	14239	43998

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

CALIFORNIA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
PREPLANT	2093	78323	-	272	-	-	-	-	11150
PLANT	194	6880	-	24	-	-	-	-	981
CULTIVATE	126	17716	-	23	-	-	-	-	2475
HARVEST	16504	19793	-	1875	-	-	-	-	4988
FARM PICKUP	34256	59	-	4534	-	-	-	-	4723
FERTILIZER APPLIC.	309	1721	-	41	-	-	-	-	281
PESTICIDE APPLIC.	509	11245	-	63	-	-	-	-	1629
FARM TRUCK	13053	1768	-	-	-	-	-	-	1877
FARM AUTO-CROPS	21380	-	-	-	-	-	-	-	2673
GRAIN HNDLING(VEHS)	106	-	-	-	-	-	-	-	13
GRAIN HNDLING(MACH)	-	-	-	-	-	-	-	-	1
CROP DRYING(ON-FM)	-	-	-	440	56	-	2	-	107
IRRIGATION	-	62	-	-	1173	-	4547	-	16720
FROST PROTECTION	13773	7073	46811	552	-	-	40	-	9386
FERTILIZER	-	-	-	-	-	-	-	28602	28602
PESTICIDES	-	-	-	-	-	-	-	5408	9408
ELECTRICITY	-	-	-	-	-	-	46	-	159
MISCELLANEOUS	744	3221	-	-	-	-	-	-	540
TOTAL-CROPS	103048	147861	46811	7825	1229	-	4636	34011	91712
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	136	N/A	463
FEED HANDLING	17736	1369	-	2149	-	-	124	N/A	3035
WASTE DISP.(VEHS)	9635	4028	-	1210	-	-	-	N/A	1879
WASTE DISP.(MACH)	-	-	79	397	196	-	1	N/A	251
WATER SUPPLY	-	13923	-	-	-	-	61	N/A	2073
LIVESTOCK HANDLING	127	327	-	20	-	-	-	N/A	63
SPACE HEATING	-	-	-	613	3	-	7	N/A	84
VENTILATION	-	-	-	-	-	-	96	N/A	329
WATER HEATING	-	-	-	9480	-	-	30	N/A	1009
MILKING	-	-	-	-	-	-	89	N/A	304
MILK COOLING	-	-	-	-	-	-	115	N/A	391
EGG HANDLING	-	-	-	-	-	-	9	N/A	29
BROODING	-	-	2225	3583	1363	-	-	N/A	2042
FARM VEHICLES	6703	87	-	926	-	-	-	N/A	938
FARM AUTO-LVSTK	3744	-	-	-	-	-	-	N/A	466
OTHER	5970	-	-	825	-	-	27	N/A	917
TOTAL-LIVESTOCK	43916	19734	2304	19203	1561	-	675	N/A	14277
TOTAL-AGRICULTURE	146964	167595	49115	27028	2790	-	5311	34011	105989

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

COLORADO

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	136	22527	-	78	-	-	-	-	3149
PLANT	1	4172	-	1	-	-	-	-	579
CULTIVATE	77	3711	-	42	-	-	-	-	528
HARVEST	7029	11825	-	2524	-	-	-	-	2760
FARM PICKUP	14171	-	-	-	-	-	-	-	1771
FERTILIZER APPLIC.	33	1296	-	23	-	-	-	-	186
PESTICIDE APPLIC.	55	1094	-	18	-	-	-	-	160
FARM TRUCK	12131	35	-	-	-	-	-	-	1521
FARM AUTO-CROPS	13734	-	-	-	-	-	-	-	1717
GRAIN HNDLNG(VENS)	283	-	-	-	-	-	-	-	35
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	2
CRGP DRYING(ON-FM)	-	-	-	2447	-	-	2	-	240
IRRIGATION	412	1482	-	1887	4814	-	409	-	6743
FROST PROTECTION	76	124	691	17	-	-	-	-	125
FERTILIZER	-	-	-	-	-	-	-	8152	8142
PESTICIDES	-	-	-	-	-	-	-	489	489
ELECTRICITY	-	-	-	-	-	-	29	-	100
MISCELLANEOUS	903	149	-	-	-	-	-	-	133
TOTAL-CROPS	49042	46414	691	7037	4814	-	441	6631	28386
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	54	N/A	185
FEED HANDLING	3226	21019	-	1229	-	-	2	N/A	3443
WASTE DISP.(VEHSL)	777	353	-	229	-	-	-	N/A	160
WASTE DISP.(MACH)	-	-	-	67	5	-	-	N/A	12
WATER SUPPLY	-	-	-	-	-	-	5	N/A	16
LIVESTOCK HANDLING	1007	16	-	284	-	-	-	N/A	155
SPACE HEATING	-	-	-	67	-	-	-	N/A	6
VENTILATION	-	-	-	-	-	-	6	N/A	20
WATER HEATING	-	-	-	791	-	-	1	N/A	80
MILKING	-	-	-	-	-	-	7	N/A	23
MILK COOLING	-	-	-	-	-	-	10	N/A	33
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	-	1193	76	95	-	N/A	194
FARM VEHICLES	4796	6	-	-	-	-	-	N/A	600
FARM AUTO-LVSTK	2216	-	-	-	-	-	-	N/A	277
OTHER	694	137	-	-	-	-	2	N/A	113
TOTAL-LIVESTOCK	12716	21530	-	3860	81	95	87	N/A	5326
TOTAL-AGRICULTURE	61758	67944	691	10897	4895	95	528	6631	33712

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP-PRODUCTION TECHNOLOGIES IN 1978.

CONNECTICUT

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(A)	BTU TOTAL (BILLION)
PREPLANT	48	622	-	-	-	-	-	-	92
PLANT	29	151	-	-	-	-	-	-	25
CULTIVATE	13	167	-	-	-	-	-	-	25
HARVEST	1242	1034	-	-	-	-	-	-	299
FARM PICKUP	917	13	-	-	-	-	-	-	116
FERTILIZER APPLIC.	75	35	-	-	-	-	-	-	14
PESTICIDE APPLIC.	22	132	-	-	-	-	-	-	21
FARM TRUCK	759	4	-	-	-	-	-	-	95
FARM AUTO-CROPS	654	-	-	-	-	-	-	-	82
CROP DRYING(ON-FM)	-	-	-	683	-	-	-	-	65
IRRIGATION	158	39	-	3	-	-	-	-	26
FERTILIZER	-	-	-	-	-	-	-	413	413
PESTICIDES	-	-	-	-	-	-	-	57	57
ELECTRICITY	-	-	-	-	-	-	1	-	3
MISCELLANEOUS	-	25	-	-	-	-	-	-	3
TOTAL-CROPS	3917	2222	-	686	-	-	1	470	1336
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	9	N/A	31
FEED HANDLING	244	103	-	-	-	-	3	N/A	57
WASTE DISP.(VEHS)	1036	21	-	-	-	-	-	N/A	132
WASTE DISP.(MACH)	-	-	44	43	-	-	-	N/A	11
WATER SUPPLY	-	-	-	-	-	-	2	N/A	7
LIVESTOCK HANDLING	49	-	-	-	-	-	-	N/A	6
SPACE HEATING	-	-	-	50	-	-	-	N/A	3
VENTILATION	-	-	-	-	-	-	8	N/A	27
WATER HEATING	-	-	-	281	-	-	4	N/A	40
MILKING	-	-	-	-	-	-	4	N/A	12
MILK COOLING	-	-	-	-	-	-	6	N/A	21
EGG HANDLING	-	-	-	-	-	-	1	N/A	2
BROODING	-	-	89	277	-	-	-	N/A	39
FARM VEHICLES	86	37	-	-	-	-	-	N/A	16
FARM AUTO-LVSTK	286	-	-	-	-	-	-	N/A	36
OTHER	864	-	-	-	-	-	1	N/A	111
TOTAL-LIVESTOCK	2565	161	133	631	-	-	38	N/A	550
TOTAL-AGRICULTURE	6482	2383	133	1317	-	-	39	470	1886

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

DELAWARE

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION) ^b
PREPLANT	6	2345	-	-	-	-	-	-	326
PLANT	3	362	-	-	-	-	-	-	51
CULTIVATE	2	325	-	-	-	-	-	-	45
HARVEST	1203	468	-	-	-	-	-	-	215
FARM PICKUP	3145	3	-	-	-	-	-	-	393
FERTILIZER APPLIC.	7	80	-	-	-	-	-	-	12
PESTICIDE APPLIC.	2	317	-	-	-	-	-	-	44
FARM TRUCK	1581	1	-	-	-	-	-	-	198
FARM AUTO-CROPS	259	-	-	-	-	-	-	-	32
IRRIGATION	422	178	-	201	-	-	-	-	100
FERTILIZER	-	-	-	-	-	-	-	3462	1442
PESTICIDES	-	-	-	-	-	-	-	91	91
ELECTRICITY	-	-	-	-	-	-	3	-	10
MISCELLANEOUS	-	392	-	-	-	-	-	-	54
TOTAL-CROPS	6632	4471	-	201	-	-	4	1583	3016
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	13	N/A	46
FEED HANDLING	64	64	-	-	-	-	3	N/A	27
WASTE DISP.(VEH)	339	31	-	-	-	-	-	N/A	47
WASTE DISP.(MACH)	-	-	8	59	-	-	-	N/A	7
WATER SUPPLY	-	-	-	-	-	-	2	N/A	6
SPACE HEATING	-	-	-	47	-	-	-	N/A	5
VENTILATION	-	-	-	-	-	-	21	N/A	72
WATER HEATING	-	-	-	95	-	-	1	N/A	11
MILKING	-	-	-	-	-	-	1	N/A	3
MILK COOLING	-	-	-	-	-	-	1	N/A	5
BREEDING	-	-	354	7068	-	-	-	N/A	724
FARM VEHICLES	122	27	-	-	-	-	-	N/A	19
FARM AUTO-LVSTK	76	-	-	-	-	-	-	N/A	10
OTHER	81	-	-	-	-	-	-	N/A	11
TOTAL-LIVESTOCK	685	122	361	7269	-	-	43	N/A	993
TOTAL-AGRICULTURE	7317	4593	361	7470	-	-	47	1583	4009

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

FLORIDA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
PREPLANT	81	8192	-	-	-	-	-	-	1146
PLANT	44	2815	-	-	-	-	-	-	396
CULTIVATE	31	11908	-	-	-	-	-	-	1655
HARVEST	3711	11892	-	7	-	-	-	-	2114
FARM PICKUP	4872	-	-	-	-	-	-	-	609
FERTILIZER APPLIC.	14	6744	-	-	-	-	-	-	937
PESTICIDE APPLIC.	60	3864	-	-	-	-	-	-	541
FARM TRUCK	9650	-	-	-	-	-	-	-	1206
FARM AUTO-CROPS	4079	-	-	-	-	-	-	-	510
CROP DRYING(ON-FH)	-	-	1271	4267	-	-	5	-	599
IRRIGATION	3671	14302	-	10121	-	-	159	-	3950
FROST PROTECTION	17087	10854	119810	-	-	-	136	-	20723
FERTILIZER	-	-	-	-	-	-	-	11583	11583
PESTICIDES	-	-	-	-	-	-	-	3656	3656
ELECTRICITY	-	-	-	-	-	-	13	-	45
MISCELLANEOUS	-	1544	-	-	-	-	-	-	214
TOTAL-CROPS	43280	72114	121080	14376	-	-	313	15240	49886
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	28	N/A	94
FEED HANDLING	1301	574	-	2	-	-	7	N/A	268
WASTE DISP.(VEHS)	1419	211	-	2	-	-	-	N/A	207
WASTE DISP.(MACH)	-	-	-	420	-	-	-	N/A	60
WATER SUPPLY	-	-	-	-	-	-	13	N/A	45
LIVESTOCK HANDLING	49	2	-	-	-	-	-	N/A	24
SPACE HEATING	-	-	-	231	-	-	19	N/A	65
VENTILATION	-	-	-	-	-	-	6	N/A	213
WATER HEATING	-	-	-	2038	-	-	18	N/A	63
MILKING	-	-	-	-	-	-	25	N/A	86
MILK COOLING	-	-	-	-	-	-	-	N/A	1
EGG HANDLING	-	-	-	-	-	-	-	N/A	279
BROODING	-	-	-	2921	-	-	-	N/A	284
FARM VEHICLES	1517	683	-	-	-	-	-	N/A	23
FARM AUTO-LVSTK	182	-	-	-	-	-	-	N/A	208
OTHER	934	542	-	-	-	-	5	N/A	-
TOTAL-LIVESTOCK	5401	2012	-	5615	-	-	122	N/A	1906
TOTAL-AGRICULTURE	48681	76126	121080	19991	-	-	435	15240	51792

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

GEORGIA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(A)	BTU TOTAL (BILLION)
PREPLANT	225	21313	-	35	-	-	-	-	2988
PLANT	184	7198	-	38	-	-	-	-	1025
CULTIVATE	87	11771	-	21	-	-	-	-	1646
HARVEST	9910	17394	-	1520	-	-	-	-	3796
FARM PICKUP	12675	-	-	-	-	-	-	-	1584
FERTILIZER APPLIC.	65	10774	-	11	-	-	-	-	1503
PESTICIDE APPLIC.	429	9847	-	65	-	-	-	-	1426
FARM TRUCK	12829	24	-	-	-	-	-	-	1607
FARM AUTO-CROPS	6884	-	-	-	-	-	-	-	860
GRAIN HNDLNG(VEH)	287	-	-	-	-	-	-	-	36
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	2
CROP DRYING(ON-FARM)	-	-	5726	19807	255	-	25	-	3030
IRRIGATION	3097	2677	-	1433	-	-	3	-	905
FROST PROTECTION	135	222	1234	30	-	-	-	-	222
FERTILIZER	-	-	-	-	-	-	-	13823	13823
PESTICIDES	-	-	-	-	-	-	-	2317	2317
ELECTRICITY	-	-	-	-	-	-	28	-	94
MISCELLANEOUS	72	140	-	-	-	-	-	-	28
TOTAL-CROPS	46877	81361	6960	22961	255	-	56	16141	36895
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	72	N/A	245
FEED HANDLING	1433	3816	-	243	-	-	25	N/A	816
WASTE DISP.(VENS)	2512	1731	-	363	-	-	-	N/A	589
WASTE DISP.(MACH)	-	-	-	1012	27	-	3	N/A	133
WATER SUPPLY	-	-	-	-	-	-	35	N/A	121
LIVESTOCK HANDLING	129	5	-	19	-	-	-	N/A	19
SPACE HEATING	-	-	-	487	-	-	2	N/A	54
VENTILATION	-	-	-	-	-	-	77	N/A	262
WATER HEATING	-	-	-	1060	-	-	6	N/A	122
MILKING	-	-	-	-	-	-	11	N/A	36
MILK COOLING	-	-	-	-	-	-	15	N/A	53
EGG HANDLING	-	-	-	-	-	-	2	N/A	6
BROODING	-	-	-	25624	218	-	-	N/A	2650
FARM VEHICLES	4793	891	-	-	-	-	-	N/A	723
FARM AUTO-LVSTK	1129	-	-	-	-	-	-	N/A	141
OTHER	1515	1278	-	-	-	-	4	N/A	379
TOTAL-LIVESTOCK	11511	7721	-	28608	245	-	251	N/A	6349
TOTAL-AGRICULTURE	58388	89082	6960	51569	500	-	307	16141	43244

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

HAWAII

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^{b/}	BTU TOTAL (BILLION) ^{c/}
PREPLANT	-	978	-	-	-	-	-	-	136
PLANT	-	438	-	-	-	-	-	-	61
CULTIVATE	-	641	-	-	-	-	-	-	89
HARVEST	56	622	-	-	-	-	-	-	93
FERTILIZER APPLIC.	-	291	-	-	-	-	-	-	40
PESTICIDE APPLIC.	-	233	-	-	-	-	-	-	32
IRRIGATION	744	-	-	-	-	-	716	-	2536
FERTILIZER	-	-	-	-	-	-	-	718	718
PESTICIDES	-	-	-	-	-	-	-	44	44
ELECTRICITY	-	-	-	-	-	-	1	-	3
MISCELLANEOUS	720	-	-	-	-	-	-	-	90
TOTAL-CROPS	1520	3204	-	-	-	-	717	782	3842
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	2	N/A	8
FEED HANDLING	1040	9331	-	-	-	-	1	N/A	1429
WASTE DISP.(VEHIS)	617	1037	-	-	-	-	-	N/A	221
WASTE DISP.(MACH)	-	-	30	-	-	-	-	N/A	4
WATER SUPPLY	-	-	-	-	-	-	1	N/A	2
LIVESTOCK HANDLING	176	-	-	-	-	-	-	N/A	22
SPACE HEATING	-	-	-	9	-	-	-	N/A	1
VENTILATION	-	-	-	-	-	-	2	N/A	6
WATER HEATING	-	-	-	145	-	-	1	N/A	16
MILKING	-	-	-	-	-	-	1	N/A	5
MILK COOLING	-	-	-	-	-	-	2	N/A	6
BROODING	-	-	8	-	-	-	-	N/A	1
FARM VEHICLES	1358	-	-	-	-	-	-	N/A	170
OTHER	226	-	-	-	-	-	-	N/A	30
TOTAL-LIVESTOCK	3418	10367	38	154	-	-	11	N/A	1922
TOTAL-AGRICULTURE	4938	13571	38	154	-	-	726	782	5764

^{a/}AI DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. ^{b/}INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). ^{c/}GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

IDaho

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION)
PREPLANT	510	21288	-	57	-	-	-	-	3022
PLANT	159	8455	-	11	-	-	-	-	1193
CULTIVATE	79	5143	-	10	-	-	-	-	724
HARVEST	8800	14680	-	461	-	-	-	-	3180
FARM PICKUP	10903	-	-	-	-	-	-	-	1363
FERTILIZER APPLIC.	215	3410	-	12	-	-	-	-	501
PESTICIDE APPLIC.	21	3606	-	1	-	-	-	-	503
FARM TRUCK	5881	2361	-	-	-	-	-	-	1063
FARM AUTO-CROPS	5656	-	-	-	-	-	-	-	707
GRAIN HNDLNG(VEHS)	200	-	-	-	-	-	-	-	25
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	1
IRRIGATION	6329	1467	-	2189	410	-	1597	-	7073
FERTILIZER	-	-	-	-	-	-	-	9664	9664
PESTICIDES	-	-	-	-	-	-	-	731	731
ELECTRICITY	-	-	-	-	-	-	23	-	78
MISCELLANEOUS	225	358	-	-	-	-	-	-	78
TOTAL-CROPS	38978	60769	-	2742	410	-	1621	10395	29906
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	19	N/A	64
FEED HANDLING	8234	194	-	477	-	-	43	N/A	1248
WASTE DISP.(VEHS)	2236	909	-	140	-	-	-	N/A	419
WASTE DISP.(MACH)	-	-	-	18	-	-	3	N/A	10
WATER SUPPLY	-	-	-	-	-	-	14	N/A	49
LIVESTOCK HANDLING	5	114	-	-	-	-	-	N/A	16
SPACE HEATING	-	-	-	128	4	-	5	N/A	32
VENTILATION	-	-	-	-	-	-	7	N/A	24
WATER HEATING	-	-	-	1265	-	-	5	N/A	138
MILKING	-	-	-	-	-	-	12	N/A	40
MILK COOLING	-	-	-	-	-	-	18	N/A	60
BROODING	-	-	-	106	1	24	-	N/A	11
FARM VEHICLES	7221	1	-	-	-	-	-	N/A	903
FARM AUTO-LVSTK	571	-	-	-	-	-	-	N/A	71
OTHER	1550	-	-	-	-	-	9	N/A	224
TOTAL-LIVESTOCK	19817	1219	-	2134	4	24	133	N/A	3310
TOTAL-AGRICULTURE	58795	61988	-	4876	414	24	1754	10395	33216

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

ILLINOIS

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
PREPLANT	5068	69036	-	1716	-	-	-	-	10373
PLANT	2093	24823	-	386	-	-	-	-	3741
CULTIVATE	2608	25122	-	916	-	-	-	-	3898
HARVEST	28690	30569	-	8131	-	-	-	-	8603
FARM PICKUP	104803	26	-	110	-	-	-	-	13114
FERTILIZER APPLIC.	3433	288	-	1032	-	-	-	-	568
PESTICIDE APPLIC.	3342	878	-	1187	-	-	-	-	653
FARM TRUCK	42201	6	-	-	-	-	-	-	5276
FARM AUTO-CROPS	31414	-	-	-	-	-	-	-	3927
GRAIN HNDLNG(VEHS)	2288	-	-	-	-	-	-	-	286
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	4	-	14
CROP DRYING(ON-FM)	-	-	-	112579	40	-	89	-	11087
IRRIGATION	808	408	-	582	-	-	2	-	221
FERTILIZER	-	-	-	-	-	-	-	62377	62377
PESTICIDES	-	-	-	-	-	-	-	3764	3764
ELECTRICITY	-	-	-	-	-	-	115	-	393
MISCELLANEOUS	-	119	-	-	-	-	-	-	16
TOTAL-CROPS	226747	151275	-	126638	40	-	211	66141	128320
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	36	N/A	129
FEED HANDLING	2352	13569	-	729	-	-	25	N/A	2333
WASTE DISP.(VEHS)	1321	8265	-	317	-	-	-	N/A	1342
WASTE DISP.(MACH)	-	-	4	83	-	-	4	N/A	22
WATER SUPPLY	-	-	-	-	-	-	147	N/A	503
LIVESTOCK HANDLING	25	5	-	7	-	-	-	N/A	4
SPACE HEATING	-	-	-	7817	-	-	19	N/A	811
VENTILATION	-	-	-	-	-	-	137	N/A	466
WATER HEATING	-	-	-	1314	-	-	21	N/A	198
MILKING	-	-	-	-	-	-	16	N/A	53
MILK COOLING	-	-	-	-	-	-	27	N/A	91
EGG HANDLING	-	-	-	-	-	-	1	N/A	2
BROODING	-	-	36	776	3	326	-	N/A	90
FARM VEHICLES	10124	8095	-	11	-	-	-	N/A	2389
FARM AUTO-LVSTK	2361	-	-	-	-	-	-	N/A	295
OTHER	1717	-	-	2	-	-	6	N/A	234
TOTAL-LIVESTOCK	17900	29935	40	11056	3	326	439	N/A	6962
TOTAL-AGRICULTURE	244647	181210	40	137694	43	326	650	66141	137282

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

INDIANA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
PREPLANT	2713	28373	-	10	-	-	-	-	4275
PLANT	1692	10123	-	3	-	-	-	-	1616
CULTIVATE	1311	10016	-	5	-	-	-	-	1554
HARVEST	16324	11077	-	47	-	-	-	-	3582
FARM PICKUP	48598	13	-	-	-	-	-	-	6076
FERTILIZER APPLIC.	2187	148	-	7	-	-	-	-	295
PESTICIDE APPLIC.	1404	293	-	5	-	-	-	-	217
FARM TRUCK	18492	7	-	-	-	-	-	-	2312
FARM AUTO-CROPS	13171	-	-	-	-	-	-	-	1646
GRAIN HNDLNG(VEHS)	964	-	-	-	-	-	-	-	120
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	2	-	6
CROP DRYING(ON-FM)	-	-	-	57644	19	-	45	-	5678
IRRIGATION	476	231	-	766	3	-	2	-	173
FERTILIZER	-	-	-	-	-	-	-	35520	35520
PESTICIDES	-	-	-	-	-	-	-	2201	2201
ELECTRICITY	-	-	-	-	-	-	61	-	210
MISCELLANEOUS	-	116	-	-	-	-	-	-	16
TOTAL-CROPS	107334	60398	-	58486	22	-	110	37722	65499
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	42	N/A	144
FEED HANDLING	2638	9998	-	7	-	-	15	N/A	1770
WASTE DISP.(VEHS)	1923	4644	-	4	-	-	-	N/A	885
WASTE DISP.(MACH)	-	-	10	232	1	-	3	N/A	36
WATER SUPPLY	-	-	-	-	-	-	66	N/A	226
LIVESTOCK HANDLING	133	17	-	-	-	-	-	N/A	19
SPACE HEATING	-	-	-	2517	-	-	6	N/A	259
VENTILATION	-	-	-	-	-	-	79	N/A	271
WATER HEATING	-	-	-	1154	-	-	19	N/A	174
MILKING	-	-	-	-	-	-	14	N/A	47
MILK COOLING	-	-	-	-	-	-	23	N/A	79
EGG HANDLING	-	-	-	-	-	-	1	N/A	4
BROODING	-	193	4103	141	1116	-	-	N/A	588
FARM VEHICLES	5830	4502	-	-	-	-	-	N/A	1353
FARM AUTO-LVSTK	1277	-	-	-	-	-	-	N/A	160
OTHER	1590	-	-	-	-	-	4	N/A	213
TOTAL-LIVESTOCK	13389	19161	203	8018	142	1116	273	N/A	6226
TOTAL-AGRICULTURE	120723	79556	203	66504	164	1116	383	37722	71725

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

IOWA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION)
PREPLANT	2508	63104	-	160	-	-	-	-	9081
PLANT	2833	22487	-	51	-	-	-	-	3478
CULTIVATE	1310	22598	-	79	-	-	-	-	3306
HARVEST	40115	38297	-	1017	-	-	-	-	10423
FARM PICKUP	81164	3	-	-	-	-	-	-	10146
FERTILIZER APPLIC.	2440	68	-	108	-	-	-	-	325
PESTICIDE APPLIC.	1611	147	-	91	-	-	-	-	230
FARM TRUCK	36772	8	-	-	-	-	-	-	4597
FARM AUTO-CROPS	21625	-	-	-	-	-	-	-	2703
GRAIN HNDLING(VEH)	1650	-	-	-	-	-	-	-	206
GRAIN HNDLING(MACH)	-	-	-	-	-	-	-	-	18
CROP DRYING(DN-FM)	-	-	-	93479	60	-	74	-	9219
IRRIGATION	231	415	-	86	-	-	2	-	103
FERTILIZER	-	-	-	-	-	-	-	59869	59869
PESTICIDES	-	-	-	-	-	-	-	4067	4067
ELECTRICITY	-	-	-	-	-	-	125	-	427
MISCELLANEOUS	279	628	-	-	-	-	-	-	122
TOTAL-CROPS	192538	147753	-	95070	40	-	207	63937	118322
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	85	N/A	291
FEED HANDLING	4492	27446	-	96	-	-	67	N/A	4605
WASTE DISP.(VEHS)	2898	19970	-	48	-	-	-	N/A	3137
WASTE DISP.(MACH)	-	-	6	137	-	-	7	N/A	36
WATER SUPPLY	-	-	-	-	-	-	383	N/A	1306
LIVESTOCK HANDLING	64	13	-	1	-	-	-	N/A	10
SPACE HEATING	-	-	-	21341	-	-	53	N/A	2210
VENTILATION	-	-	-	-	-	-	335	N/A	1144
WATER HEATING	-	-	-	2144	-	-	35	N/A	324
MILKING	-	-	-	-	-	-	25	N/A	87
MILK COOLING	-	-	-	-	-	-	43	N/A	148
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	42	4465	-	198	-	N/A	437
FARM VEHICLES	26228	19971	-	-	-	-	-	N/A	6048
FARM AUTO-LVSTK	6415	-	-	-	-	-	-	N/A	802
OTHER	3078	-	-	-	-	-	10	N/A	419
TOTAL-LIVESTOCK	43174	67400	48	28233	-	198	1043	N/A	21013
TOTAL-AGRICULTURE	235714	215153	48	123303	40	198	1250	63937	139335

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

KANSAS

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION AS
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
PREPLANT	212	83853	-	165	-	-	-	-	11673
PLANT	-	15430	-	-	-	-	-	-	2140
CULTIVATE	5	9080	-	3	-	-	-	-	1260
HARVEST	16907	31636	-	10241	-	-	-	-	7479
FARM PICKUP	68482	5	-	20	-	-	-	-	8563
FERTILIZER APPLIC.	84	2926	-	48	-	-	-	-	421
PESTICIDE APPLIC.	96	1722	-	38	-	-	-	-	254
FARM TRUCK	35117	-	-	-	-	-	-	-	4390
FARM AUTO-CROPS	31353	-	-	-	-	-	-	-	3919
GRAIN HNDLNG(VEHS)	674	-	-	-	-	-	-	-	84
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	6
CRGP DRYING(ON-FM)	-	-	-	15166	6	-	25	-	1529
IRRIGATION	1899	8836	-	17677	19705	-	136	-	23734
FERTILIZER	-	-	-	-	-	-	-	32685	32685
PESTICIDES	-	-	-	-	-	-	-	1383	1363
ELECTRICITY	-	-	-	-	-	-	102	-	348
MISCELLANEOUS	1471	679	-	-	-	-	-	-	278
TOTAL-CROPS	156299	154167	-	63359	19711	-	264	34047	100135
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	75	N/A	257
FEED HANDLING	3964	45954	-	1956	-	-	4	N/A	7069
WASTE DISP.(VEHS)	1154	1604	-	426	-	-	-	N/A	407
WASTE DISP.(MACH)	-	-	-	34	-	-	-	N/A	5
WATER SUPPLY	-	-	-	-	-	-	10	N/A	36
LIVESTOCK HANDLING	1821	3	-	668	-	-	-	N/A	292
SPACE HEATING	-	-	-	231	-	-	-	N/A	23
VENTILATION	-	-	-	-	-	-	6	N/A	20
WATER HEATING	-	-	-	1407	-	-	2	N/A	141
MILKING	-	-	-	-	-	-	12	N/A	41
MILK COOLING	-	-	-	-	-	-	18	N/A	60
BROODING	-	-	11	324	2	-	-	N/A	34
FARM VEHICLES	2536	1	-	1	-	-	-	N/A	317
FARM AUTO-LVSTK	1839	-	-	-	-	-	-	N/A	230
OTHER	1592	202	-	-	-	-	3	N/A	214
TOTAL-LIVESTOCK	12707	47764	11	5049	2	-	131	N/A	9145
TOTAL-AGRICULTURE	169006	201931	11	48408	19713	-	395	34047	109280

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNADING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

KENTUCKY

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION)
PREPLANT	1077	10091	-	-	-	-	-	-	1534
PLANT	1857	3141	-	-	-	-	-	-	668
CULTIVATE	980	5338	-	-	-	-	-	-	863
HARVEST	14308	4757	-	-	-	-	-	-	2448
FARM PICKUP	8146	3	-	-	-	-	-	-	1019
FERTILIZER APPLIC.	517	4273	-	-	-	-	-	-	657
PESTICIDE APPLIC.	215	1284	-	-	-	-	-	-	205
FARM TRUCK	9238	1	-	-	-	-	-	-	1155
FARM AUTO-CROPS	10693	-	-	-	-	-	-	-	1336
GRAIN HNDLNG(VEHNS)	393	-	-	-	-	-	-	-	49
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	1	-	2
CROP DRYING(DOM-FMI)	-	-	-	8338	4	-	3	-	811
IRRIGATION	333	47	-	-	-	-	-	-	48
FERTILIZER	-	-	-	-	-	-	-	15905	15905
PESTICIDES	-	-	-	-	-	-	-	674	674
ELECTRICITY	-	-	-	-	-	-	26	-	89
MISCELLANEOUS	-	131	-	-	-	-	-	-	10
TOTAL-CROPS	47757	29068	-	8338	4	-	30	16579	27482
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	15	N/A	92
FEED HANDLING	1575	4917	-	-	-	-	11	N/A	919
WASTE DISP.(VEHNS)	1788	2293	-	-	-	-	-	N/A	941
WASTE DISP.(MACH)	-	-	-	-	46	-	4	N/A	19
WATER SUPPLY	-	-	-	-	-	-	32	N/A	109
LIVESTOCK HANDLING	20	-	-	-	-	-	-	N/A	2
SPACE HEATING	-	-	-	-	389	-	1	N/A	42
VENTILATION	-	-	-	-	-	-	31	N/A	105
WATER HEATING	-	-	-	-	1530	-	23	N/A	230
MILKING	-	-	-	-	-	-	18	N/A	62
MILK COOLING	-	-	-	-	-	-	31	N/A	106
BROODING	-	-	-	5	539	432	-	N/A	63
FARM VEHICLES	5209	412	-	-	-	-	-	N/A	708
FARM AUTO-LVSTK	2014	-	-	-	-	-	-	N/A	252
OTHER	3936	1340	-	-	-	-	4	N/A	492
TOTAL-LIVESTOCK	14542	8962	5	2504	1	432	174	N/A	3904
TOTAL-AGRICULTURE	62299	38030	5	10842	5	432	204	16579	31386

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

LOUISIANA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) (B)	BTU TOTAL (BILLION)
PREPLANT	4093	22786	-	4826	-	-	-	-	4133
PLANT	581	4693	-	682	-	-	-	-	788
CULTIVATE	1824	11155	-	2271	-	-	-	-	1992
HARVEST	1429	20242	-	1493	-	-	-	-	3129
FARM PICKUP	12040	-	-	3113	-	-	-	-	1803
FERTILIZER APPLIC.	55	566	-	65	-	-	-	-	92
PESTICIDE APPLIC.	344	1418	-	410	-	-	-	-	279
FARM TRUCK	2945	1	-	-	-	-	-	-	368
FARM ALTO-CROPS	4217	-	-	-	-	-	-	-	527
GRAIN HNDLNG(VEHS)	101	-	-	-	-	-	-	-	12
CROP CRYING(ION-FM)	-	-	-	1315	24	-	7	-	173
IRRIGATION	4809	6475	-	1357	542	-	32	-	2291
FERTILIZER	-	-	-	-	-	-	-	6395	6395
PESTICIDES	-	-	-	-	-	-	-	2789	2769
ELECTRICITY	-	-	-	-	-	-	24	-	81
MISCELLANEOUS	8927	1503	-	-	-	-	-	-	1330
TOTAL-CROPS	41415	68838	-	15532	567	-	62	9164	26163
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	13	N/A	43
FEED HANDLING	590	2253	-	515	-	-	5	N/A	453
WASTE DISP.(VENS)	797	176	-	670	-	-	-	N/A	188
WASTE DISP.(MACH)	-	-	-	72	42	-	-	N/A	51
WATER SUPPLY	-	-	-	-	-	-	7	N/A	24
LIVESTOCK HANDLING	11	-	-	9	-	-	-	N/A	13
SPACE HEATING	-	-	-	133	-	-	-	N/A	44
VENTILATION	-	-	-	1097	-	-	13	N/A	125
WATER HEATING	-	-	-	-	-	-	6	N/A	36
MILKING	-	-	-	-	-	-	11	N/A	54
MILK COOLING	-	-	-	-	-	-	16	N/A	593
BROODING	-	-	-	1787	414	-	-	N/A	235
FARM VEHICLES	1163	439	-	298	-	-	-	N/A	39
FARM ALTO-LVSTK	313	-	-	-	-	-	-	N/A	276
OTHER	936	920	-	240	-	-	3	N/A	-
TOTAL-LIVESTOCK	3809	3788	-	4821	456	-	73	N/A	2178
TOTAL-AGRICULTURE	45224	72626	-	20353	1023	-	135	9164	28341

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

MAINE

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^{B/}	BTU TOTAL (BILLION)
PREPLANT	118	1700	-	-	1	-	-	-	251
PLANT	14	540	-	-	-	-	-	-	77
CULTIVATE	5	749	-	-	-	-	-	-	104
HARVEST	1672	1387	-	-	8	-	-	-	402
FARM PICKUP	1317	26	-	-	8	-	-	-	169
FERTILIZER APPLIC.	49	48	-	-	-	-	-	-	13
PESTICIDE APPLIC.	15	1524	-	-	-	-	-	-	213
FARM TRUCK	292	6	-	-	-	-	-	-	412
FARM AUTO-CROPS	2395	-	-	-	-	-	-	-	299
IRRIGATION	142	41	-	-	4	-	-	-	24
FERTILIZER	-	-	-	-	-	-	-	1078	1078
PESTICIDES	-	-	-	-	-	-	-	201	201
ELECTRICITY	-	-	-	-	-	-	2	-	7
MISCELLANEOUS	-	30	-	-	-	-	-	-	4
TOTAL-CROPS	9019	6051	-	22	-	-	2	1279	3256
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	24	N/A	83
FEED HANDLING	258	131	-	-	1	-	6	N/A	72
WASTE DISP.(VEH)	1368	20	-	-	6	-	-	N/A	174
WASTE DISP.(MACH)	-	-	187	-	81	-	-	N/A	35
WATER SUPPLY	-	-	-	-	-	-	3	N/A	10
LIVESTOCK HANDLING	87	-	-	-	-	-	-	N/A	11
SPACE HEATING	-	-	-	29	-	-	-	N/A	3
VENTILATION	-	-	-	-	-	-	27	N/A	93
WATER HEATING	-	-	-	237	-	-	6	N/A	43
MILKING	-	-	-	-	-	-	4	N/A	13
MILK COOLING	-	-	-	-	-	-	7	N/A	23
EGG HANDLING	-	-	-	-	-	-	2	N/A	5
BROODING	-	-	3983	149	-	-	-	N/A	567
FARM VEHICLES	150	51	-	1	-	-	-	N/A	26
FARM AUTO-LVSTK	1146	-	-	-	-	-	-	N/A	143
OTHER	718	-	-	4	-	-	1	N/A	93
TOTAL-LIVESTOCK	3727	202	4170	508	-	-	80	N/A	1394
TOTAL-AGRICULTURE	12746	6253	4170	530	-	-	82	1279	4650

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

MARYLAND

ENERGY AND AGRICULTURE. 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) L/	GALS OF DIESEL (1000) L/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION)
PREPLANT	261	7858	-	-	-	-	-	-	1122
PLANT	238	1256	-	-	-	-	-	-	204
CULTIVATE	116	984	-	-	-	-	-	-	151
HARVEST	4687	2325	-	-	-	-	-	-	908
FARM PICKUP	8225	16	-	-	-	-	-	-	1030
FERTILIZER APPLIC.	125	236	-	-	-	-	-	-	48
PESTICIDE APPLIC.	29	943	-	-	-	-	-	-	134
FARM TRUCK	4186	8	-	-	-	-	-	-	524
FARM AUTO-CROPS	2309	-	-	-	-	-	-	-	289
CROP DRYING(ON-FARM)	-	-	-	1804	-	-	1	-	176
IRRIGATION	293	320	-	231	-	-	1	-	106
FERTILIZER	-	-	-	-	-	-	-	4791	4791
PESTICIDES	-	-	-	-	-	-	-	299	299
ELECTRICITY	-	-	-	-	-	-	8	-	28
MISCELLANEOUS	-	1672	-	-	-	-	-	-	232
TOTAL-CROPS	20471	15618	-	2036	-	-	10	5090	10044
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) L/	GALS OF DIESEL (1000) L/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	23	N/A	79
FEED HANDLING	799	757	-	-	-	-	8	N/A	232
WASTE DISP.(VEH)	1629	311	-	-	-	-	-	N/A	247
WASTE DISP.(MACH)	-	-	-	89	-	-	3	N/A	17
WATER SUPPLY	-	-	-	-	-	-	8	N/A	29
LIVESTOCK HANDLING	13	-	-	-	-	-	-	N/A	2
SPACE HEATING	-	-	-	192	-	-	-	N/A	19
VENTILATION	-	-	-	-	-	-	35	N/A	119
WATER HEATING	-	-	-	1007	-	-	7	N/A	121
MILKING	-	-	-	-	-	-	9	N/A	31
MILK COOLING	-	-	-	-	-	-	16	N/A	54
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	488	9510	-	-	-	N/A	976
FARM VEHICLES	540	332	-	-	-	-	-	N/A	113
FARM AUTO-LVSTK	716	-	-	-	-	-	-	N/A	90
OTHER	1145	-	-	-	-	-	2	N/A	151
TOTAL-LIVESTOCK	4845	1399	488	10798	-	-	112	N/A	2281
TOTAL-AGRICULTURE	25318	17017	488	12834	-	-	122	5090	12325

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

MASSACHUSETTS

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
PREPLANT	53	869	-	-	4	-	-	-	128
PLANT	21	75	-	-	-	-	-	-	13
CULTIVATE	5	286	-	-	-	-	-	-	40
HARVEST	1270	479	-	31	-	-	-	-	228
FARM PICKUP	865	30	-	-	-	-	-	-	112
FERTILIZER APPLIC.	56	27	-	1	-	-	-	-	11
PESTICIDE APPLI.	13	349	-	-	-	-	-	-	50
FARM TRUCK	827	37	-	-	-	-	-	-	108
FARM AUTO-CROPS	1325	-	-	-	-	-	-	-	165
IRRIGATION	429	-	-	79	-	-	1	-	63
FROST PROTECTION	61	101	562	14	-	-	-	-	101
FERTILIZER	-	-	-	-	-	-	-	525	525
PESTICIDES	-	-	-	-	-	-	-	69	59
ELÉCTRICITY	-	-	-	-	-	-	1	-	3
MISCELLANEOUS	-	24	-	-	-	-	-	-	3
TOTAL-CROPS	4925	2278	562	129	-	-	2	584	1612
OPERATIONS-LIVESTOCK	GALS OF GASLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	4	N/A	15
FEED HANDLING	223	89	-	5	-	-	2	N/A	47
WASTE DISP.(VEH)	620	32	-	14	-	-	-	N/A	83
WASTE DISP.(MACH)	-	-	16	15	-	-	1	N/A	6
WATER SUPPLY	-	-	-	-	-	-	2	N/A	7
LIVESTOCK HANDLING	17	-	-	-	-	-	-	N/A	2
SPACE HEATING	-	-	-	46	-	-	-	N/A	5
VENTILATION	-	-	-	-	-	-	5	N/A	12
WATER HEATING	-	-	-	357	-	-	3	N/A	44
MILKING	-	-	-	-	-	-	3	N/A	11
MILK COOLING	-	-	-	-	-	-	6	N/A	20
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	111	107	-	-	-	N/A	26
FARM VEHICLES	116	35	-	-	-	-	-	N/A	19
FARM AUTO-LVSTK	471	-	-	-	-	-	-	N/A	59
OTHER	546	-	-	-	-	-	1	N/A	71
TOTAL-LIVESTOCK	1995	156	127	544	-	-	27	N/A	432
TOTAL-AGRICULTURE	6920	2434	689	673	-	-	29	584	2044

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

MICHIGAN

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATION	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	1066	16943	-	39	-	-	-	-	2487
PLANT	1516	4593	-	21	-	-	-	-	828
CULTIVATE	379	5806	-	12	-	-	-	-	854
HARVEST	12680	18186	-	281	-	-	-	-	4134
FARM PICKUP	26472	180	-	-	-	-	-	-	3335
FERTILIZER APPLIC.	1208	401	-	28	-	-	-	-	209
PESTICIDE APPLIC.	1044	2842	-	24	-	-	-	-	527
FARM TRUCK	14373	191	-	-	-	-	-	-	1823
FARM AUTO-CROPS	9655	-	-	-	-	-	-	-	1207
GRAIN HNDLNG(VEH'S)	336	-	-	-	-	-	-	-	42
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	1	-	2
CROP DRYING(ON-FARM)	-	-	-	13218	4	-	10	-	1302
IRRIGATION	230	467	-	-	-	-	38	-	224
FROST PROTECTION	781	1139	6331	159	-	-	1	-	1152
FERTILIZER	-	-	-	-	-	-	-	14272	14272
PESTICIDES	-	-	-	-	-	-	-	1672	1672
ELECTRICITY	-	-	-	-	-	-	34	-	117
MISCELLANEOUS	123	267	-	-	-	-	-	-	52
TOTAL-CROPS	69864	51020	6331	13782	4	-	85	15944	34241
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	29	N/A	98
FEED HANDLING	1593	1726	-	32	-	-	19	N/A	505
WASTE DISP.(VEH'S)	2711	1149	-	46	-	-	-	N/A	503
WASTE DISP.(MACH)	-	-	5	116	-	-	8	N/A	40
WATER SUPPLY	-	-	-	-	-	-	38	N/A	131
LIVESTOCK HANDLING	38	2	-	1	-	-	-	N/A	5
SPACE HEATING	-	-	-	707	-	-	2	N/A	74
VENTILATION	-	-	-	-	-	-	38	N/A	130
WATER HEATING	-	-	-	2030	-	-	40	N/A	330
MILKING	-	-	-	-	-	-	27	N/A	93
MILK COOLING	-	-	-	-	-	-	47	N/A	161
EGG HANDLING	-	-	-	-	-	-	1	N/A	2
BROODING	-	-	38	1306	-	-	-	N/A	130
FARM VEHICLES	1544	1002	-	-	-	-	-	N/A	332
FARM AUTO-LVSTK	1067	-	-	-	-	-	-	N/A	134
OTHER	3056	-	-	-	-	-	9	N/A	411
TOTAL-LIVESTOCK	10011	3878	43	4237	-	-	258	N/A	3079
TOTAL-AGRICULTURE	79875	56898	6374	18019	4	-	343	15944	37320

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

MINNESOTA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^{B/}	BTU TOTAL (BILLION)
PREPLANT	2325	67623	-	93	-	-	-	-	9679
PLANT	6201	20591	-	69	-	-	-	-	3638
CULTIVATE	972	16342	-	39	-	-	-	-	2392
HARVEST	44065	26295	-	846	-	-	-	-	9236
FARM PICKUP	65180	6	-	-	-	-	-	-	8148
FERTILIZER APPLIC.	2466	565	-	62	-	-	-	-	392
PESTICIDE APPLIC.	2245	1700	-	73	-	-	-	-	523
FARM TRUCK	31859	3	-	-	-	-	-	-	3983
FARM AUTO-CROPS	32842	-	-	-	-	-	-	-	4105
GRAIN HNDLNG(VEHS)	1260	-	-	-	-	-	-	-	157
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	12
CROP DRYING(ON-FRM)	-	-	-	40425	15	-	32	-	3987
IRRIGATION	305	1772	-	602	-	-	32	-	450
FERTILIZER	-	-	-	-	-	-	-	38708	38708
PESTICIDES	-	-	-	-	-	-	-	2698	2698
ELECTRICITY	-	-	-	-	-	-	105	-	358
MISCELLANEOUS	3540	284	-	-	-	-	-	-	484
TOTAL-CROPS	193281	135182	-	42210	15	-	173	41406	88952
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	70	N/A	240
FEED HANDLING	2632	9603	-	55	-	-	39	N/A	1812
WASTE DISP.(VEHS)	4642	7313	-	78	-	-	-	N/A	1602
WASTE DISP.(MACH)	-	-	6	192	-	-	6	N/A	40
WATER SUPPLY	-	-	-	-	-	-	161	N/A	548
LIVESTOCK HANDLING	102	30	-	2	-	-	-	N/A	17
SPACE HEATING	-	-	-	6678	-	-	17	N/A	698
VENTILATION	-	-	-	-	-	-	155	N/A	528
WATER HEATING	-	-	-	2021	-	-	128	N/A	630
MILKING	-	-	-	-	-	-	53	N/A	181
MILK COOLING	-	-	-	-	-	-	93	N/A	318
EGG HANDLING	-	-	-	-	-	-	1	N/A	2
BROODING	-	-	56	19437	-	273	-	N/A	1870
FARM VEHICLES	8017	5849	-	-	-	-	-	N/A	1813
FARM AUTO-LVSTK	5482	-	-	-	-	-	-	N/A	685
OTHER	7412	-	-	-	-	-	8	N/A	952
TOTAL-LIVESTOCK	28286	22874	62	28463	-	273	731	N/A	11936
TOTAL-AGRICULTURE	221567	158056	62	70673	15	273	904	41406	100888

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

MISSISSIPPI

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) L/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	5277	25677	-	1281	-	-	-	-	4343
PLANT	1601	3907	-	399	-	-	-	-	780
CULTIVATE	5366	14185	-	1332	-	-	-	-	2766
HARVEST	3981	16755	-	934	-	-	-	-	2911
FARM PICKUP	13679	-	-	1800	-	-	-	-	1882
FERTILIZER APPLIC.	358	318	-	95	-	-	-	-	98
PESTICIDE APPLIC.	1374	2080	-	399	-	-	-	-	498
FARM TRUCK	964	6	-	-	-	-	-	-	121
FARM AUTO-CROPS	4511	-	-	-	-	-	-	-	564
GRAIN HNDLNG(VEHS)	62	-	-	-	-	-	-	-	8
CRCP DRYING(ON-FARM)	-	-	-	699	22	-	3	-	99
IRRIGATION	700	4946	-	1555	-	-	24	-	1005
FERTILIZER	-	-	-	-	-	-	-	8887	8887
PESTICIDES	-	-	-	-	-	-	-	4130	4130
ELECTRICITY	-	-	-	-	-	-	31	-	107
MISCELLANEOUS	-	345	-	-	-	-	-	-	48
TOTAL-CROPS	37873	68224	-	8495	22	-	58	13016	28246
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) L/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	31	N/A	105
FEED HANDLING	799	3166	-	156	-	-	10	N/A	589
WASTE DISP.(VEHS)	1400	422	-	253	-	-	-	N/A	258
WASTE DISP.(MACH)	-	-	-	269	22	-	1	N/A	53
WATER SUPPLY	-	-	-	-	-	-	12	N/A	39
LIVESTOCK HANDLING	60	4	-	11	-	-	-	N/A	9
SPACE HEATING	-	-	-	171	-	-	1	N/A	18
VENTILATION	-	-	-	-	-	-	30	N/A	101
WATER HEATING	-	-	-	936	-	-	5	N/A	106
MILKING	-	-	-	-	-	-	9	N/A	30
MILK COOLING	-	-	-	-	-	-	13	N/A	44
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	-	9996	242	-	-	N/A	1201
FARM VEHICLES	2596	513	-	289	-	-	-	N/A	423
FARM AUTO-LVSTK	688	-	-	-	-	-	-	N/A	86
OTHER	1494	1246	-	166	-	-	3	N/A	384
TOTAL-LIVESTOCK	7038	5352	-	12248	263	-	113	N/A	3448
TOTAL-AGRICULTURE	46911	73576	-	20743	285	-	171	13016	31694

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

MISSOURI

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^{B/}	BTU TOTAL (BILLION)
PREPLANT	2447	34492	-	390	-	-	-	-	5127
PLANT	1227	11951	-	153	-	-	-	-	1826
CULTIVATE	1252	13702	-	221	-	-	-	-	2078
HARVEST	25530	15759	-	2629	-	-	-	-	5628
FARM PICKUP	55334	16	-	-	-	-	-	-	6919
FERTILIZER APPLIC.	1994	228	-	223	-	-	-	-	302
PESTICIDE APPLIC.	1437	933	-	242	-	-	-	-	332
FARM TRUCK	18855	2	-	-	-	-	-	-	2357
FARM AUTO-CROPS	18212	-	-	-	-	-	-	-	2276
GRAIN HNDLNG(VEHS)	622	-	-	-	-	-	-	-	78
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	1	-	3
CROP DRYING(FM)	-	-	-	15321	22	-	18	-	1547
IRRIGATION	724	657	-	1494	3	-	6	-	349
FERTILIZER	-	-	-	-	-	-	-	22914	22914
PESTICIDES	-	-	-	-	-	-	-	1454	1454
ELECTRICITY	-	-	-	-	-	-	69	-	235
MISCELLANEOUS	-	211	-	-	-	-	-	-	29
TOTAL-CROPS	127633	77952	-	20674	26	-	94	24368	53456
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	32	N/A	110
FEED HANDLING	3872	20105	-	466	-	-	18	N/A	3376
WASTE DISP.(VEHS)	2615	4163	-	262	-	-	-	N/A	929
WASTE DISP.(MACH)	-	-	4	113	-	-	2	N/A	20
WATER SUPPLY	-	-	-	-	-	-	95	N/A	324
LIVESTOCK HANDLING	50	16	-	6	-	-	-	N/A	9
SPACE HEATING	-	-	-	5358	-	-	13	N/A	555
VENTILATION	-	-	-	-	-	-	92	N/A	315
WATER HEATING	-	-	-	2504	-	-	7	N/A	263
MILKING	-	-	-	-	-	-	22	N/A	74
MILK COOLING	-	-	-	-	-	-	34	N/A	115
EGG HANDLING	-	-	-	-	-	-	1	N/A	2
BROODING	-	-	73	4410	-	-	-	N/A	431
FARM VEHICLES	8582	8173	-	-	-	-	-	N/A	2206
FARM AUTO-LVSTK	2977	-	-	-	-	-	-	N/A	372
OTHER	1593	-	-	-	-	-	7	N/A	223
TOTAL-LIVESTOCK	19689	32457	78	13119	-	-	323	N/A	9327
TOTAL-AGRICULTURE	147322	110409	78	33793	26	-	417	24368	62763

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

MONTANA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
PREPLANT	457	31888	-	-	-	-	-	-	4480
PLANT	4	4297	-	-	-	-	-	-	596
CULTIVATE	-	408	-	-	-	-	-	-	57
HARVEST	13070	6653	-	-	-	-	-	-	2557
FARM PICKUP	20616	-	-	4	-	-	-	-	2577
FERTILIZER APPLIC.	288	1461	-	-	-	-	-	-	239
PESTICIDE APPLIC.	97	2071	-	-	-	-	-	-	299
FARM TRUCK	12435	-	-	-	-	-	-	-	1554
FARM AUTO-CROPS	9756	-	-	-	-	-	-	-	1219
GRAIN HNDLNG(VEHS)	366	-	-	-	-	-	-	-	45
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	5
IRRIGATION	1324	3122	-	282	8	-	179	-	1244
FERTILIZER	-	-	-	-	-	-	-	6925	6925
PESTICIDES	-	-	-	-	-	-	-	166	166
ELECTRICITY	-	-	-	-	-	-	47	-	139
MISCELLANEOUS	956	27	-	-	-	-	-	-	123
TOTAL-CROPS	59367	49927	-	286	8	-	227	7091	22246
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	8	N/A	28
FEED HANDLING	1782	33	-	-	-	-	1	N/A	232
WASTE DISP.(VEHS)	255	21	-	-	-	-	-	N/A	35
WASTE DISP.(MACH)	-	-	-	15	-	-	1	N/A	3
WATER SUPPLY	-	-	-	-	-	-	5	N/A	18
LIVESTOCK HANDLING	4	49	-	-	-	-	-	N/A	7
SPACE HEATING	-	-	-	30	-	-	6	N/A	17
VENTILATION	-	-	-	-	-	-	2	N/A	6
WATER HEATING	-	-	-	237	-	-	1	N/A	26
MILKING	-	-	-	-	-	-	2	N/A	7
MILK COOLING	-	-	-	-	-	-	3	N/A	11
BROODING	-	-	-	126	-	28	-	N/A	13
FARM VEHICLES	2027	1	-	-	-	-	-	N/A	253
FARM AUTO-LVSTK	389	-	-	-	-	-	-	N/A	49
OTHER	439	-	-	-	-	-	1	N/A	59
TOTAL-LIVESTOCK	4896	105	-	409	-	28	29	N/A	764
TOTAL-AGRICULTURE	64263	50032	-	695	8	28	256	7091	23010

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

NEBRASKA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^B	BTU TOTAL (BILLION)
PREPLANT	505	28132	-	223	-	-	-	-	3986
PLANT	64	6382	-	16	-	-	-	-	895
CULTIVATE	88	11627	-	30	-	-	-	-	1626
HARVEST	15844	45720	-	6321	-	-	-	-	8925
FARM PICKUP	44017	-	-	-	-	-	-	-	5502
FERTILIZER APPLIC.	228	2065	-	86	-	-	-	-	323
PESTICIDE APPLIC.	133	2285	-	34	-	-	-	-	337
FARM TRUCK	31304	-	-	-	-	-	-	-	3913
FARM AUTO-CROPS	26960	-	-	-	-	-	-	-	3370
GRAIN HNDLNG(VEH)	1185	-	-	-	-	-	-	-	148
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	10
CROP DRYING(ON-FM)	-	-	-	36452	6	-	28	-	3584
IRRIGATION	4753	46452	-	104112	6349	-	965	-	26753
FERTILIZER	-	-	-	-	-	-	-	42287	42287
PESTICIDES	-	-	-	-	-	-	-	2093	2093
ELECTRICITY	-	-	-	-	-	-	87	-	297
MISCELLANEOUS	1886	694	-	-	-	-	-	-	332
TOTAL-CROPS	126969	143357	-	147275	6355	-	1083	44380	104383
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	91	N/A	310
FEED HANDLING	4405	33264	-	1538	-	-	4	N/A	5323
WASTE DISP.(VEH)	1034	954	-	266	-	-	-	N/A	287
WASTE DISP.(MACH)	-	-	-	55	-	-	1	N/A	8
WATER SUPPLY	-	-	-	-	-	-	9	N/A	31
LIVESTOCK HANDLING	1170	2	-	299	-	-	-	N/A	175
SPACE HEATING	-	-	-	183	-	-	-	N/A	19
VENTILATION	-	-	-	-	-	-	7	N/A	23
WATER HEATING	-	-	-	1232	-	-	2	N/A	125
MILKING	-	-	-	-	-	-	11	N/A	36
MILK COOLING	-	-	-	-	-	-	16	N/A	54
BROODING	-	-	11	517	2	-	-	N/A	53
FARM VEHICLES	3256	1	-	-	-	-	-	N/A	407
FARM AUTO-LVSTK	1379	-	-	-	-	-	-	N/A	172
OTHER	1142	177	-	-	-	-	3	N/A	178
TOTAL-LIVESTOCK	12386	34397	11	4090	2	-	143	N/A	7201
TOTAL-AGRICULTURE	139355	177754	11	151365	6357	-	1226	44380	111584

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

NEVADA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
PREPLANT	336	187	-	-	-	-	-	-	68
PLANT	19	59	-	-	-	-	-	-	11
CULTIVATE	-	56	-	-	-	-	-	-	8
HARVEST	1563	102	-	-	-	-	-	-	209
FARM PICKUP	777	-	-	-	-	-	-	-	97
FERTILIZER APPLIC.	56	29	-	-	-	-	-	-	11
PESTICIDE APPLIC.	26	1	-	-	-	-	-	-	3
FARM TRUCK	321	-	-	-	-	-	-	-	40
FARM AUTO-CROPS	187	-	-	-	-	-	-	-	23
IRRIGATION	500	4733	-	636	-	-	385	-	2095
FERTILIZER	-	-	-	-	-	-	-	527	527
PESTICIDES	-	-	-	-	-	-	-	28	28
ELECIRICITY	-	-	-	-	-	-	2	-	6
MISCELLANEOUS	165	26	-	-	-	-	-	-	24
TOTAL-CROPS	3951	5194	-	636	-	-	388	564	3153
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	4	N/A	14
FEED HANDLING	1701	40	-	-	-	-	1	N/A	223
WASTE DISP.(EVENS)	153	10	-	-	-	-	-	N/A	20
WATER SUPPLY	-	-	-	-	-	-	2	N/A	6
LIVESTOCK HANDLING	-	19	-	-	-	-	-	N/A	3
SPACE HEATING	-	-	-	11	-	-	-	N/A	9
VENTILATION	-	-	-	-	-	-	1	N/A	2
WATER HEATING	-	-	-	184	-	-	-	N/A	18
MILKING	-	-	-	-	-	-	2	N/A	6
MILK COOLING	-	-	-	-	-	-	2	N/A	7
FARM VEHICLES	1087	-	-	-	-	-	-	N/A	136
FARM AUTO-LVSTK	35	-	-	-	-	-	-	N/A	4
OTHER	480	-	-	-	-	-	1	N/A	62
TOTAL-LIVESTOCK	3457	69	-	196	-	-	15	N/A	510
TOTAL-AGRICULTURE	7408	5263	-	832	-	-	403	554	3663

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

NEW HAMPSHIRE

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (\$BILLION)B/	BTU TOTAL (\$BILLION)
PREPLANT	22	619	-	-	7	-	-	-	89
PLANT	10	140	-	-	1	-	-	-	21
CULTIVATE	1	118	-	-	-	-	-	-	16
HARVEST	569	435	-	-	52	-	-	-	136
FARM PICKUP	195	14	-	-	-	-	-	-	26
FERTILIZER APPLIC.	15	10	-	-	1	-	-	-	3
PESTICIDE APPLIC.	-	95	-	-	-	-	-	-	13
FARM TRUCK	340	2	-	-	-	-	-	-	43
FARM AUTO-CROPS	1058	-	-	-	-	-	-	-	132
IRRIGATION	76	40	-	-	-	-	-	-	15
FERTILIZER	-	-	-	-	-	-	-	321	321
PESTICIDES	-	-	-	-	-	-	-	26	26
ELECTRICITY	-	-	-	-	-	-	-	-	2
MISCELLANEOUS	-	5	-	-	-	-	-	-	1
TOTAL-CROPS	2286	1479	-	61	-	-	1	348	846
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (\$BILLION)	BTU TOTAL (\$BILLION)
LIGHTING	-	-	-	-	-	-	3	N/A	9
FEED HANDLING	70	108	-	-	6	-	2	N/A	30
WASTE DISP.(VEHS)	280	24	-	-	24	-	-	N/A	41
WASTE DISP.(MACH)	-	-	11	9	-	-	-	N/A	3
WATER SUPPLY	-	-	-	-	-	-	1	N/A	4
LIVESTOCK HANDLING	9	-	-	-	1	-	-	N/A	1
SPACE HEATING	-	-	-	-	19	-	-	N/A	2
VENTILATION	-	-	-	-	-	-	3	N/A	10
WATER HEATING	-	-	-	-	168	-	2	N/A	24
MILKING	-	-	-	-	-	-	2	N/A	7
MILK COOLING	-	-	-	-	-	-	4	N/A	12
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	60	53	-	-	-	N/A	13
FARM VEHICLES	29	45	-	-	-	-	-	N/A	10
FARM AUTO-LVSTA	419	-	-	-	-	-	-	N/A	52
OTHER	109	-	-	-	-	-	1	N/A	16
TOTAL-LIVESTOCK	916	177	71	281	-	-	17	N/A	234
TOTAL-AGRICULTURE	3202	1656	71	342	-	-	18	348	1080

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

NEW JERSEY

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION) ^c
PREPLANT	56	2510	-	2	-	-	-	-	355
PLANT	38	405	-	-	-	-	-	-	61
CULTIVATE	15	738	-	-	-	-	-	-	104
HARVEST	2205	769	-	33	-	-	-	-	386
FARM PICKUP	3967	26	-	-	-	-	-	-	499
FERTILIZER APPLIC.	47	185	-	1	-	-	-	-	32
PESTICIDE APPLIC.	16	875	-	-	-	-	-	-	124
FARM TRUCK	2703	24	-	-	-	-	-	-	341
FARM AUTO-CROPS	1757	-	-	-	-	-	-	-	220
IRRIGATION	4255	554	-	378	-	-	6	-	664
FERTILIZER	-	-	-	-	-	-	-	1606	1606
PESTICIDES	-	-	-	-	-	-	-	300	300
ELECTRICITY	-	-	-	-	-	-	4	-	12
MISCELLANEOUS	-	301	-	-	-	-	-	-	42
TOTAL-CROPS	15060	6387	-	414	-	-	9	1906	4746
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION) ^c
LIGHTING	-	-	-	-	-	-	5	N/A	16
FEED HANDLING	129	105	-	2	-	-	2	N/A	39
WASTE DISP.(VEHIS)	313	39	-	4	-	-	-	N/A	45
WASTE DISP.(MACH)	-	-	-	21	20	-	1	N/A	7
WATER SUPPLY	-	-	-	-	-	-	3	N/A	9
LIVESTOCK HANDLING	11	-	-	-	-	-	-	N/A	5
SPACE HEATING	-	-	-	46	-	-	-	N/A	25
VENTILATION	-	-	-	-	-	-	7	N/A	36
WATER HEATING	-	-	-	239	-	-	4	N/A	11
MILKING	-	-	-	-	-	-	3	N/A	19
MILK COOLING	-	-	-	-	-	-	6	N/A	1
EGG HANDLING	-	-	-	-	-	-	-	N/A	20
BROODING	-	-	-	11	187	1	-	N/A	19
FARM VEHICLES	102	44	-	-	-	-	-	N/A	19
FARM AUTO-LVSTK	153	-	-	-	-	-	-	N/A	19
OTHER	358	-	-	-	-	-	1	N/A	47
TOTAL-LIVESTOCK	1066	187	31	499	1	-	31	N/A	319
TOTAL-AGRICULTURE	16126	6574	31	913	1	-	40	1906	5065

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

NEW MEXICO

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^{a/b}	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	47	4967	-	18	-	-	-	-	696
PLANT	8	845	-	3	-	-	-	-	119
CULTIVATE	36	802	-	11	-	-	-	-	117
HARVEST	791	2179	-	314	-	-	-	-	431
FARM PICKUP	2684	-	-	110	-	-	-	-	346
FERTILIZER APPLIC.	8	133	-	2	-	-	-	-	20
PESTICIDE APPLIC.	34	89	-	15	-	-	-	-	18
FARM TRUCK	1000	4	-	-	-	-	-	-	126
FARM AUTO-CROPS	2479	-	-	-	-	-	-	-	310
CROP DRYING(ON-FARM)	-	-	-	37	-	-	-	-	4
IRRIGATION	6694	8567	-	17259	15290	-	408	-	20675
FERTILIZER	-	-	-	-	-	-	-	1614	1614
PESTICIDES	-	-	-	-	-	-	-	201	201
ELECTRICITY	-	-	-	-	-	-	5	-	18
MISCELLANEOUS	300	27	-	-	-	-	-	-	41
TOTAL-CROPS	14084	17613	-	17770	15290	-	413	1815	24736
OPERATIONS-LIVESTOCK									
LIGHTING	-	-	-	-	-	-	15	N/A	52
FEED HANDLING	1994	1279	-	513	-	-	18	N/A	539
WASTE DISP.(VEH'S)	510	103	-	113	-	-	-	N/A	89
WASTE DISP.(INACH)	-	-	-	43	1	-	-	N/A	5
WATER SUPPLY	-	-	-	-	-	-	2	N/A	9
LIVESTOCK HANDLING	513	6	-	108	-	-	-	N/A	75
SPACE HEATING	-	-	-	25	-	-	-	N/A	2
VENTILATION	-	-	-	-	-	-	4	N/A	13
WATER HEATING	-	-	-	423	-	-	1	N/A	43
MILKING	-	-	-	-	-	-	4	N/A	13
MILK COOLING	-	-	-	-	-	-	5	N/A	16
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	-	117	1	26	-	N/A	13
FARM VEHICLES	5172	2	-	177	-	-	-	N/A	664
FARM AUTO-LVSTK	177	-	-	-	-	-	-	N/A	22
OTHER	217	3	-	8	-	-	1	N/A	31
TOTAL-LIVESTOCK	8583	1393	-	1527	2	26	50	N/A	1586
TOTAL-AGRICULTURE	22667	19006	-	19297	15292	26	463	1815	26322

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

NEW YORK

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLIONS)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^B	BTU TOTAL (BILLION)
PREPLANT	373	19606	-	6	-	-	-	-	2766
PLANT	432	3972	-	2	-	-	-	-	605
CULTIVATE	105	3746	-	1	-	-	-	-	533
HARVEST	22007	17047	-	119	-	-	-	-	5127
FARM PICKUP	19036	214	-	-	-	-	-	-	2409
FERTILIZER APPLIC.	921	613	-	4	-	-	-	-	200
PESTICIDE APPLIC.	176	3576	-	1	-	-	-	-	518
FARM TRUCK	15570	63	-	-	-	-	-	-	1952
FARM AUTO-CROPS	11255	-	-	-	-	-	-	-	1407
GRAIN HNDLING(VEHS)	211	-	-	-	-	-	-	-	26
GRAIN HNDLING(MACH)	-	-	-	-	-	-	-	-	1
IRRIGATION	771	570	-	-	-	-	1	-	180
FROST PROTECTION	752	748	4159	118	-	-	1	-	788
FERTILIZER	-	-	-	-	-	-	-	10019	10019
PESTICIDES	-	-	-	-	-	-	-	763	763
ELECTRICITY	-	-	-	-	-	-	23	-	79
MISCELLANEOUS	-	4094	-	-	-	-	-	-	568
TOTAL-CROPS	71610	54230	4159	251	-	-	26	10781	27943
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLIONS)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	50	N/A	172
FEED HANDLING	1466	942	-	8	-	-	31	N/A	421
WASTE DISP.(VEHS)	5063	256	-	25	-	-	-	N/A	671
WASTE DISP.(MACH)	-	-	68	74	3	-	12	N/A	59
MATER SUPPLY	-	-	-	-	-	-	31	N/A	106
LIVESTOCK HANDLING	80	-	-	-	-	-	-	N/A	10
SPACE HEATING	-	-	-	229	-	-	-	N/A	23
VENTILATION	-	-	-	-	-	-	90	N/A	306
WATER HEATING	-	-	-	3667	-	-	107	N/A	716
MILKING	-	-	-	-	-	-	57	N/A	195
MILK COOLING	-	-	-	-	-	-	108	N/A	368
EGG HANDLING	-	-	-	-	-	-	1	N/A	5
BROODING	-	-	44	818	254	1196	-	N/A	371
FARM VEHICLES	354	378	-	-	-	-	-	N/A	97
FARM AUTO-LVSTK	2476	-	-	-	-	-	-	N/A	309
OTHER	8225	-	-	-	-	-	10	N/A	1062
TOTAL-LIVESTOCK	17665	1575	112	4822	257	1196	498	N/A	4890
TOTAL-AGRICULTURE	89275	55805	4271	5073	257	1196	524	10781	32833

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

NORTH CAROLINA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLIONS)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	1134	16427	-	-	-	-	-	-	2420
PLANT	2014	6379	-	-	-	-	-	-	1136
CULTIVATE	1025	7662	-	-	-	-	-	-	1191
HARVEST	13757	13740	-	-	-	-	-	-	3625
FARM PICKUP	13508	67	-	-	-	-	-	-	1698
FERTILIZER APPLIC.	389	5451	-	-	-	-	-	-	805
PESTICIDE APPLIC.	1868	2724	-	-	-	-	-	-	611
FARM TRUCK	14199	23	-	-	-	-	-	-	1778
FARM AUTO-CROPS	8756	-	-	-	-	-	-	-	1099
GRAIN HNDLNG(VEHS)	444	-	-	-	-	-	-	-	56
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	2
CROP DRYING(ON-FMH)	-	-	42506	113394	-	-	101	-	17064
IRRIGATION	125	97	-	-	-	-	21	-	102
FROST PROTECTION	113	187	1037	25	-	-	-	-	187
FERTILIZER	-	-	-	-	-	-	-	-	15129
PESTICIDES	-	-	-	-	-	-	-	3104	3104
ELECTRICITY	-	-	-	-	-	-	25	-	85
MISCELLANEOUS	-	191	-	-	-	-	-	-	26
TOTAL-CROPS	57374	52949	43543	113359	-	-	148	18233	50119
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLIONS)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	51	N/A	174
FEED HANDLING	2893	3406	-	-	-	-	20	N/A	903
WASTE DISP.(VEHS)	3464	2137	-	-	-	-	-	N/A	729
WASTE DISP.(MACH)	-	-	22	500	12	-	3	N/A	74
WATER SUPPLY	-	-	-	-	-	-	44	N/A	148
LIVESTOCK HANDLING	225	5	-	-	-	-	-	N/A	29
SPACE HEATING	-	-	-	622	-	-	3	N/A	69
VENTILATION	-	-	-	-	-	-	78	N/A	265
WATER HEATING	-	-	-	1175	-	-	7	N/A	135
MILKING	-	-	-	-	-	-	12	N/A	40
MILK COOLING	-	-	-	-	-	-	17	N/A	58
EGG HANDLING	-	-	-	-	-	-	1	N/A	4
BREEDING	-	-	395	22284	161	8836	-	N/A	2549
FARM VEHICLES	5634	416	-	-	-	-	-	N/A	762
FARM AUTO-LVSTK	987	-	-	-	-	-	-	N/A	123
OTHER	1848	1002	-	-	-	-	3	N/A	382
TOTAL-LIVESTOCK	15051	6967	417	24581	173	8836	238	N/A	6445
TOTAL-AGRICULTURE	72425	59916	43960	137940	173	8836	386	18233	56564

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

NORTH DAKOTA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
 (A) DATA IS IN PHYSICAL QUANTITIES INDICATED

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
PREPLANT	688	54154	-	78	-	-	-	-	7605
PLANT	9	19163	-	3	-	-	-	-	2659
CULTIVATE	25	3245	-	2	-	-	-	-	453
HARVEST	7253	21183	-	816	-	-	-	-	3923
FARM PICKUP	39261	-	-	-	-	-	-	-	4908
FERTILIZER APPLIC.	209	395	-	14	-	-	-	-	82
PESTICIDE APPLIC.	459	1534	-	34	-	-	-	-	273
FARM TRUCK	19964	-	-	-	-	-	-	-	2495
FARM AUTO-CROPS	15333	-	-	-	-	-	-	-	1917
GRAIN HNDLNG(VEHS)	788	-	-	-	-	-	-	-	98
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	8
CROP DRYING(ON-FM)	-	-	-	17	-	-	-	-	2
IRRIGATION	144	375	-	67	-	-	20	-	144
FERTILIZER	-	-	-	-	-	-	-	13523	13523
PESTICIDES	-	-	-	-	-	-	-	647	647
ELECTRICITY	-	-	-	-	-	-	94	-	321
MISCELLANEOUS	22435	147	-	-	-	-	-	-	2825
TOTAL-CROPS	106568	100196	-	1032	-	-	116	14170	41884
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	6	N/A	22
FEED HANDLING	451	25723	-	33	-	-	2	N/A	3634
WASTE DISP.(VEHS)	610	18	-	42	-	-	-	N/A	83
WASTE DISP.(MACH)	-	-	-	9	-	-	2	N/A	6
WATER SUPPLY	-	-	-	-	-	-	4	N/A	15
LIVESTOCK HANDLING	1303	-	-	89	-	-	-	N/A	171
SPACE HEATING	-	-	-	69	-	-	-	N/A	7
VENTILATION	-	-	-	-	-	-	4	N/A	14
WATER HEATING	-	-	-	546	-	-	12	N/A	92
MILKING	-	-	-	-	-	-	7	N/A	23
MILK COOLING	-	-	-	-	-	-	11	N/A	36
BROODING	-	-	2	689	-	30	-	N/A	67
FARM VEHICLES	1890	-	-	-	-	-	-	N/A	236
FARM AUTO-LVSTK	1612	-	-	-	-	-	-	N/A	201
OTHER	965	3	-	-	-	-	2	N/A	126
TOTAL-LIVESTOCK	6832	25744	2	1475	-	30	49	N/A	4733
TOTAL-AGRICULTURE	113400	125940	2	2507	-	30	165	14170	46617

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

OHIO

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
PREPLANT	2269	50043	-	-	6	-	-	-	7225
PLANT	2900	16950	-	-	4	-	-	-	2714
CULTIVATE	1262	17963	-	-	3	-	-	-	2649
HARVEST	17074	17249	-	-	33	-	-	-	4530
FARM PICKUP	43995	54	-	-	-	-	-	-	5507
FERTILIZER APPLIC.	2042	219	-	-	4	-	-	-	286
PESTICIDE APPLIC.	1438	728	-	-	4	-	-	-	281
FARM TRUCK	13489	15	-	-	-	-	-	-	1688
FARM AUTO-CROPS	20447	-	-	-	-	-	-	-	2556
GRAIN HNDLNG(VEHS)	769	-	-	-	-	-	-	-	96
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	5
CROP DRYING(ON-FM)	-	-	-	21109	18	-	18	-	2094
IRRIGATION	359	162	-	-	122	-	-	-	90
FROST PROTECTION	92	151	839	-	20	-	-	-	151
FERTILIZER	-	-	-	-	-	-	-	24652	24652
PESTICIDES	-	-	-	-	-	-	-	1685	1685
ELECTRICITY	-	-	-	-	-	-	55	-	187
MISCELLANEOUS	-	106	-	-	-	-	-	-	15
TOTAL-CROPS	106140	103640	839	21305	18	-	77	26337	56412
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	36	N/A	124
FEED HANDLING	3283	2798	-	7	-	-	19	N/A	1556
WASTE DISP.(VEHS)	3041	3593	-	5	-	-	-	N/A	879
WASTE DISP.(MACH)	-	-	8	176	-	-	6	N/A	39
WATER SUPPLY	-	-	-	-	-	-	43	N/A	148
LIVESTOCK HANDLING	55	7	-	-	-	-	-	N/A	8
SPACE HEATING	-	-	-	1279	-	-	3	N/A	133
VENTILATION	-	-	-	-	-	-	52	N/A	179
WATER HEATING	-	-	-	2647	-	-	27	N/A	344
MILKING	-	-	-	-	-	-	27	N/A	93
MILK COOLING	-	-	-	-	-	-	44	N/A	151
EGG HANDLING	-	-	-	-	-	-	1	N/A	3
BROODING	-	-	109	2911	1	682	-	N/A	309
FARM VEHICLES	3382	3708	-	-	-	-	-	N/A	937
FARM AUTO-LVSTK	2177	-	-	-	-	-	-	N/A	272
OTHER	2256	-	-	-	-	-	9	N/A	312
TOTAL-LIVESTOCK	14195	15106	117	7025	1	682	268	N/A	5487
TOTAL-AGRICULTURE	120335	118746	956	28330	19	682	345	26387	61899

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

OKLAHOMA

ENERGY AND AGRICULTURE: 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
PREPLANT	165	37875	-	313	-	-	-	-	5304
PLANT	-	8024	-	-	-	-	-	-	1113
CULTIVATE	72	2875	-	136	-	-	-	-	421
HARVEST	6064	5284	-	12249	-	-	-	-	2661
FARM PICKUP	16894	-	-	3616	-	-	-	-	2457
FERTILIZER APPLIC.	44	676	-	82	-	-	-	-	107
PESTICIDE APPLTC.	34	1302	-	65	-	-	-	-	191
FARM TRUCK	8635	3	-	-	-	-	-	-	1080
FARM AUTO-CROPS	7162	-	-	-	-	-	-	-	995
GRAIN HNDLNG(VEH'S)	88	-	-	-	-	-	-	-	11
CROP DRYING(MACH)	-	-	-	-	-	-	-	-	1
IRRIGATION	1646	3946	-	13387	5940	-	108	-	8465
FERTILIZER	-	-	-	-	-	-	-	12489	12489
PESTICIDES	-	-	-	-	-	-	-	774	774
ELECTRICITY	-	-	-	-	-	-	55	-	188
MISCELLANEOUS	745	1931	-	-	-	-	-	-	361
TOTAL-CROPS	41551	61916	-	29938	5969	-	164	13264	36558
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	30	N/A	102
FEED HANDLING	3966	492	-	7500	-	-	30	N/A	1384
WASTE DISP.(VEHS)	825	82	-	1560	-	-	-	N/A	263
WASTE DISP.(MACH)	-	-	-	57	19	-	-	N/A	25
WATER SUPPLY	-	-	-	-	-	-	8	N/A	28
LIVESTOCK HANDLING	735	5	-	1389	-	-	-	N/A	225
SPACE HEATING	-	-	-	112	-	-	-	N/A	11
VENTILATION	-	-	-	-	-	-	12	N/A	41
WATER HEATING	-	-	-	1294	-	-	6	N/A	143
MILKING	-	-	-	-	-	-	11	N/A	39
MILK COOLING	-	-	-	-	-	-	16	N/A	54
BROODING	-	-	-	1378	250	-	-	N/A	387
FARM VEHICLES	11290	3	-	2087	-	-	-	N/A	1611
FARM AUTO-LVSTK	941	-	-	-	-	-	-	N/A	118
OTHER	494	4	-	91	-	-	3	N/A	80
TOTAL-LIVESTOCK	18251	586	-	15469	270	-	117	N/A	4513
TOTAL-AGRICULTURE	59802	62502	-	45407	6239	-	281	13264	41071

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

OREGON

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	301	14025	-	-	1	-	-	-	1983
PLANT	2	2742	-	-	-	-	-	-	380
CULTIVATE	7	2438	-	-	-	-	-	-	339
HARVEST	9434	11029	-	-	15	-	-	-	2710
FARM PICKUP	7453	-	-	-	-	-	-	-	932
FERTILIZER APPLIC.	134	585	-	-	-	-	-	-	98
PESTICIDE APPLIC.	53	2969	-	-	-	-	-	-	419
FARM TRUCK	8061	226	-	-	-	-	-	-	1039
FARM AUTO-CROPS	9441	-	-	-	-	-	-	-	1180
GRAIN HNDLNG(VEHS)	102	-	-	-	-	-	-	-	13
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	1
IRRIGATION	-	1827	-	-	-	-	1595	-	5694
FROST PROTECTION	815	1341	7453	181	-	-	1	-	1343
FERTILIZER	-	-	-	-	-	-	-	5842	5842
PESTICIDES	-	-	-	-	-	-	-	218	218
ELECTRICITY	-	-	-	-	-	-	16	-	55
MISCELLANEOUS	556	1304	-	-	-	-	-	-	250
TOTAL-CROPS	36361	38489	7453	197	-	-	1612	6060	22497
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	20	N/A	67
FEED HANDLING	6479	163	-	-	9	-	20	N/A	900
WASTE DISP.(VEHS)	1774	520	-	-	3	-	-	N/A	294
WASTE DISP.(MACH)	-	-	-	-	86	-	2	N/A	14
WATER SUPPLY	-	-	-	-	-	-	9	N/A	32
LIVESTOCK HANDLING	19	715	-	-	-	-	-	N/A	101
SPACE HEATING	-	-	-	101	1	-	6	N/A	32
VENTILATION	-	-	-	-	-	-	9	N/A	31
WATER HEATING	-	-	-	872	-	-	4	N/A	97
MILKING	-	-	-	-	-	-	8	N/A	27
MILK COOLING	-	-	-	-	-	-	13	N/A	43
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	-	1423	-	-	-	N/A	136
FARM VEHICLES	6122	4	-	-	-	-	-	N/A	766
FARM AUTO-LVSTK	1092	-	-	-	-	-	-	N/A	136
OTHER	1646	-	-	-	-	-	4	N/A	219
TOTAL-LIVESTOCK	17132	1402	-	2494	1	-	94	N/A	2897
TOTAL-AGRICULTURE	53493	39891	7453	2691	1	-	1706	6060	25394

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDED. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

PENNSYLVANIA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLIONS)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
PREPLANT	314	12052	-	4	-	-	-	-	1712
PLANT	446	2002	-	2	-	-	-	-	334
CULTIVATE	72	1775	-	1	-	-	-	-	255
HARVEST	18135	9740	-	91	-	-	-	-	3626
FARM PICKUP	18935	99	-	-	-	-	-	-	2361
FERTILIZER APPLIC.	670	248	-	3	-	-	-	-	118
PESTICIDE APPLIC.	82	1731	-	-	-	-	-	-	251
FARM TRUCK	11653	10	-	-	-	-	-	-	1458
FARM AUTO-CROPS	12665	-	-	-	-	-	-	-	1583
GRAIN HNDLNG(VEH'S)	332	-	-	-	-	-	-	-	41
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	1	-	2
CROP DRYING(ON-FM)	-	-	-	3249	-	-	2	-	318
IRRIGATION	337	63	-	6	-	-	-	-	53
FROST PROTECTION	308	374	2081	55	-	-	-	-	305
FERTILIZER	-	-	-	-	-	-	-	9643	9643
PESTICIDES	-	-	-	-	-	-	-	718	718
ELECTRICITY	-	-	-	-	-	-	22	-	77
MISCELLANEOUS	-	6018	-	-	-	-	-	-	835
TOTAL-CROPS	63948	34112	2081	3411	-	-	26	10389	23788
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLIONS)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	62	N/A	212
FEED HANDLING	1797	2236	-	10	-	-	29	N/A	635
WASTE DISP.(VEH'S)	4415	986	-	21	-	-	-	N/A	691
WASTE DISP.(MACH)	-	-	121	165	-	-	9	N/A	62
WATER SUPPLY	-	-	-	-	-	-	32	N/A	111
LIVESTOCK HANDLING	86	8	-	-	-	-	-	N/A	12
SPACE HEATING	-	1	-	492	-	-	1	N/A	50
VENTILATION	-	-	-	-	-	-	85	N/A	292
WATER HEATING	-	-	-	2776	-	-	82	N/A	549
MILKING	-	-	-	-	-	-	45	N/A	155
MILK COOLING	-	-	-	-	-	-	82	N/A	281
EGG HANDLING	-	-	-	-	-	-	2	N/A	8
BROODING	-	-	301	7299	-	4462	-	N/A	840
FARM VEHICLES	1205	1000	-	-	-	-	-	N/A	269
FARM AUTO-LVSTK	2656	-	-	-	-	-	-	N/A	332
OTHER	5538	-	-	-	-	-	8	N/A	719
TOTAL-LIVESTOCK	15698	4231	422	10762	-	4462	439	N/A	5234
TOTAL-AGRICULTURE	79646	38343	2503	14173	-	4462	465	10360	29022

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

RHODE ISLAND

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
PREPLANT	3	90	-	-	-	-	-	-	13
PLANT	3	37	-	-	-	-	-	-	6
CULTIVATE	-	51	-	-	-	-	-	-	7
HARVEST	173	201	-	-	-	-	-	-	49
FARM PICKUP	121	-	-	-	-	-	-	-	15
FERTILIZER APPLIC.	11	-	-	-	-	-	-	-	1
PESTICIDE APPLIC.	2	88	-	-	-	-	-	-	13
FARM TRUCK	254	-	-	-	-	-	-	-	32
FARM AUTO-CROPS	74	-	-	-	-	-	-	-	9
IRRIGATION	31	12	-	-	-	-	-	-	4
FERTILIZER	-	-	-	-	-	-	-	77	77
PESTICIDES	-	-	-	-	-	-	-	9	9
TOTAL-CROPS	674	484	-	-	-	-	-	86	237
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	1	N/A	2
FEED HANDLING	45	54	-	-	-	-	-	N/A	14
WASTE DISP.(VEHIS)	113	16	-	-	-	-	-	N/A	16
WASTE DISP.(MACH)	-	-	2	2	-	-	-	N/A	1
WATER SUPPLY	-	-	-	-	-	-	-	N/A	1
LIVESTOCK HANDLING	4	-	-	-	-	-	-	N/A	1
VENTILATION	-	-	-	-	-	-	-	N/A	2
WATER HEATING	-	-	-	35	-	-	-	N/A	4
MILKING	-	-	-	-	-	-	-	N/A	1
MILK COOLING	-	-	-	-	-	-	1	N/A	2
BROODING	-	-	8	11	-	-	-	N/A	2
FARM VEHICLES	26	23	-	-	-	-	-	N/A	6
FARM AUTO-LVSTK	26	-	-	-	-	-	-	N/A	3
OTHER	131	-	-	-	-	-	-	N/A	17
TOTAL-LIVESTOCK	345	93	11	54	-	-	3	N/A	72
TOTAL-AGRICULTURE	1019	577	11	54	-	-	3	86	300

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

SB-222 (1980) - USDA STATISTICAL BULLETIN
ENERGY AND THE AGRICULTURE 1974 AND 1975
JORGENSEN AND COOPER

SOUTH CAROLINA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^{b/}	BTU TOTAL (BILLION)
PREPLANT	148	9265	-	2	-	-	-	-	1304
PLANT	261	3080	-	3	-	-	-	-	460
CULTIVATE	143	5051	-	2	-	-	-	-	718
HARVEST	5583	3527	-	62	-	-	-	-	1193
FARM PICKUP	5232	6	-	-	-	-	-	-	655
FERTILIZER APPLIC.	69	4099	-	1	-	-	-	-	577
PESTICIDE APPLIC.	397	3456	-	4	-	-	-	-	529
FARM TRUCK	5384	23	-	-	-	-	-	-	676
FARM ALTC-CROPS	3587	-	-	-	-	-	-	-	448
CRCP DRYINGON-FM	-	-	6670	18230	-	-	19	-	2730
IRRIGATION	-	306	-	-	-	-	15	-	95
FROST PROTECTION	140	231	1283	31	-	-	-	-	231
FERTILIZER	-	-	-	-	-	-	-	5186	5186
PESTICIDES	-	-	-	-	-	-	-	1362	1362
ELECTRICITY	-	-	-	-	-	-	15	-	51
MISCELLANEOUS	-	111	-	-	-	-	-	-	15
TOTAL-CROPS	20944	29155	7954	18337	-	-	49	6549	16233
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	13	N/A	43
FEED HANDLING	624	1244	-	7	-	-	6	N/A	271
WASTE DISP.(VEH)	728	529	-	7	-	-	-	N/A	165
WASTE DISP.(MACH)	-	-	-	165	1	-	1	N/A	20
WATER SUPPLY	-	-	-	-	-	-	10	N/A	36
LIVESTOCK HANDLING	40	-	-	-	-	-	-	N/A	6
SPACE HEATING	-	-	-	157	-	-	1	N/A	17
VENTILATION	-	-	-	-	-	-	15	N/A	51
WATER HEATING	-	-	-	443	-	-	3	N/A	51
MILKING	-	-	-	-	-	-	4	N/A	15
MILK COOLING	-	-	-	-	-	-	7	N/A	22
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	21	2495	8	367	-	N/A	258
FARM VEHICLES	1687	322	-	-	-	-	-	N/A	255
FARM AUTO-LVSTK	288	-	-	-	-	-	-	N/A	36
OTHER	657	453	-	-	-	-	1	N/A	150
TOTAL-LIVESTOCK	4030	2546	21	3275	9	367	61	N/A	1397
TOTAL-AGRICULTURE	24974	31703	7975	21612	9	367	110	6549	17630

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

SOUTH DAKOTA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	610	19026	-	168	-	-	-	-	2731
PLANT	-	7261	-	-	-	-	-	-	1007
CULTIVATE	-	5957	-	-	-	-	-	-	826
HARVEST	13023	32640	-	2355	-	-	-	-	6380
FARM PICKUP	46237	-	-	-	-	-	-	-	5780
FERTILIZER APPLIC.	382	727	-	50	-	-	-	-	153
PESTICIDE APPLIC.	340	531	-	46	-	-	-	-	121
FARM TRUCK	16354	-	-	-	-	-	-	-	2044
FARM AUTO-CROPS	19166	-	-	-	-	-	-	-	2396
GRAIN HNDLNG(VEHS)	1012	-	-	-	-	-	-	-	126
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	5
CROP DRYING(ON-FARM)	-	-	-	6891	2	-	5	-	677
IRRIGATION	1298	1897	-	4114	-	-	44	-	969
FERTILIZER	-	-	-	-	-	-	-	7410	7410
PESTICIDES	-	-	-	-	-	-	-	1004	1004
ELECTRICITY	-	-	-	-	-	-	77	-	262
MISCELLANEOUS	18682	332	-	-	-	-	-	-	2381
TOTAL-CROPS	117106	68371	-	13625	2	-	128	8414	34274
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	22	N/A	75
FEED HANDLING	1757	25425	-	279	-	-	4	N/A	3787
WASTE DISP.(VEHS)	1730	471	-	229	-	-	-	N/A	303
WASTE DISP.(MACH)	-	-	-	41	-	-	2	N/A	12
WATER SUPPLY	-	-	-	-	-	-	8	N/A	27
LIVESTOCK HANDLING	2442	2	-	322	-	-	-	N/A	336
SPACE HEATING	-	-	-	128	-	-	-	N/A	13
VENTILATION	-	-	-	-	-	-	10	N/A	34
WATER HEATING	-	-	-	889	-	-	18	N/A	148
MILKING	-	-	-	-	-	-	12	N/A	39
MILK COOLING	-	-	-	-	-	-	19	N/A	65
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	5	873	-	77	-	N/A	86
FARM VEHICLES	7816	1	-	-	-	-	-	N/A	977
FARM ALTO-LVSTK	3672	-	-	-	-	-	-	N/A	459
OTHER	2827	27	-	-	-	-	2	N/A	365
TOTAL-LIVESTOCK	20245	25926	5	2761	-	77	98	N/A	6728
TOTAL-AGRICULTURE	137351	94297	5	16386	2	77	226	8414	41002

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

TENNESSEE

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
PREPLANT	840	11871	-	12	-	-	-	-	1753
PLANT	501	3959	-	7	-	-	-	-	612
CULTIVATE	250	6742	-	4	-	-	-	-	967
HARVEST	9555	3190	-	164	-	-	-	-	1653
FARM PICKUP	7459	2	-	-	-	-	-	-	932
FERTILIZER APPLIC.	195	5192	-	3	-	-	-	-	745
PESTICIDE APPLIC.	92	2773	-	5	-	-	-	-	396
FARM TRUCK	7181	2	-	-	-	-	-	-	898
FARM AUTO-CROPS	6881	-	-	-	-	-	-	-	860
GRAIN HANDLING(VEHS)	108	-	-	-	-	-	-	-	14
CROP DRYING(ON-FM)	-	-	-	1719	5	-	2	-	176
IRRIGATION	190	121	-	50	1	-	1	-	50
FERTILIZER	-	-	-	-	-	-	-	9411	9411
PESTICIDES	-	-	-	-	-	-	-	627	627
ELECTRICITY	-	-	-	-	-	-	26	-	90
MISCELLANEOUS	-	152	-	-	-	-	-	-	21
TOTAL-CROPS	33254	34004	-	1962	6	-	29	10038	19205
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	10	N/A	35
FEED HANDLING	1907	5076	-	31	-	-	12	N/A	985
WASTE DISP.(VEHS)	1894	2099	-	27	-	-	-	N/A	530
WASTE DISP.(MACH)	-	-	-	87	-	-	2	N/A	17
WATER SUPPLY	-	-	-	-	-	-	35	N/A	118
LIVESTOCK HANDLING	22	-	-	-	-	-	-	N/A	3
SPACE HEATING	-	-	-	519	-	-	2	N/A	55
VENTILATION	-	-	-	-	-	-	27	N/A	92
WATER HEATING	-	-	-	1815	-	-	5	N/A	169
MILKING	-	-	-	-	-	-	16	N/A	53
MILK COOLING	-	-	-	-	-	-	25	N/A	86
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BREEDING	-	-	23	2624	6	992	-	N/A	282
FARM VEHICLES	5594	500	-	-	-	-	-	N/A	769
FARM AUTO-LVSTK	1584	-	-	-	-	-	-	N/A	198
OTHER	3047	1562	-	-	-	-	5	N/A	615
TOTAL-LIVESTOCK	14048	9237	23	5103	6	992	138	N/A	6028
TOTAL-AGRICULTURE	47302	43241	23	7065	12	992	167	10038	23233

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

TEXAS

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
PREPLANT	3204	158986	-	4690	-	-	-	-	22900
PLANT	82	40237	-	154	-	-	-	-	5606
CULTIVATE	145	30536	-	261	-	-	-	-	4278
HARVEST	20060	19712	-	27651	-	-	-	-	7682
FARM PICKUP	54202	-	-	8913	-	-	-	-	7627
FERTILIZER APPLIC.	127	887	-	155	-	-	-	-	154
PESTICIDE APPLIC.	3787	798	-	5017	-	-	-	-	1063
FARM TRUCK	28564	129	-	-	-	-	-	-	3588
FARM AUTO-CROPS	26586	-	-	-	-	-	-	-	3324
GRAIN HNDLNG(VEHS)	83	-	-	-	-	-	-	-	10
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	1
CROP DRYING(ON-FM)	-	-	-	1862	98	-	8	-	306
IRRIGATION	6561	8105	-	37343	64886	-	1427	-	76628
FROST PROTECTION	2118	1952	10316	-	-	-	11	-	2005
FERTILIZER	-	-	-	-	-	-	-	41282	41282
PESTICIDES	-	-	-	-	-	-	-	7052	7052
ELECTRICITY	-	-	-	-	-	-	123	-	420
MISCELLANEOUS	8085	4382	-	-	-	-	-	-	1618
TOTAL-CROPS	153607	265724	10316	86046	64984	-	1570	48334	185744
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(C)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	188	N/A	641
FEED HANDLING	9447	11836	-	11519	-	-	266	N/A	4830
WASTE DISP.(VEHS)	3189	2009	-	4123	-	-	-	N/A	1071
WASTE DISP.(MACH)	-	-	-	369	84	-	-	N/A	122
WATER SUPPLY	-	-	-	-	-	-	21	N/A	70
LIVESTOCK HANDLING	2075	104	-	2532	-	-	-	N/A	516
SPACE HEATING	-	-	-	261	-	-	-	N/A	25
VENTILATION	-	-	-	-	-	-	37	N/A	124
WATER HEATING	-	-	-	3272	-	-	16	N/A	369
MILKING	-	-	-	-	-	-	30	N/A	101
MILK COOLING	-	-	-	-	-	-	40	N/A	137
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	-	6797	811	-	-	N/A	1477
FARM VEHICLES	32441	44	-	5336	-	-	-	N/A	4571
FARM AUTO-LVSTK	2093	-	-	-	-	-	-	N/A	262
OTHER	1791	39	-	295	-	-	7	N/A	281
TOTAL-LIVESTOCK	51035	14032	-	34504	895	-	605	N/A	14600
TOTAL-AGRICULTURE	204642	279756	10316	120550	65879	-	2175	48334	200344

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

UTAH

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	169	2421	-	-	-	-	-	-	357
PLANT	24	494	-	-	-	-	-	-	72
CULTIVATE	8	250	-	-	-	-	-	-	36
HARVEST	1362	3222	-	-	-	-	-	-	617
FARM PICKUP	1927	-	-	-	-	-	-	-	241
FERTILIZER APPLIC.	45	334	-	-	-	-	-	-	52
PESTICIDE APPLIC.	17	163	-	-	-	-	-	-	23
FARM TRUCK	2435	13	-	-	-	-	-	-	306
FARM AUTO-CROPS	1734	-	-	-	-	-	-	-	217
IRRIGATION	5080	4846	-	460	92	-	337	-	2596
FERTILIZER	-	-	-	-	-	-	-	1159	1159
PESTICIDES	-	-	-	-	-	-	-	74	74
ELECTRICITY	-	-	-	-	-	-	5	-	19
MISCELLANEOUS	193	20	-	-	-	-	-	-	27
TOTAL-CROPS	12995	11765	-	460	92	-	343	1233	5797
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	9	N/A	31
FEED HANDLING	2776	193	-	-	-	-	7	N/A	398
WASTE DISP.(VEHS)	1175	109	-	-	-	-	-	N/A	162
WASTE DISP.(MACH)	-	-	-	28	6	-	1	N/A	14
WATER SUPPLY	-	-	-	-	-	-	4	N/A	12
LIVESTOCK HANDLING	13	99	-	-	-	-	-	N/A	15
SPACE HEATING	-	-	-	74	-	-	2	N/A	13
VENTILATION	-	-	-	-	-	-	6	N/A	19
WATER HEATING	-	-	-	596	-	-	4	N/A	69
MILKING	-	-	-	-	-	-	6	N/A	19
MILK COOLING	-	-	-	-	-	-	9	N/A	31
BROODING	-	-	-	798	32	1611	-	N/A	145
FARM VEHICLES	2247	3	-	-	-	-	-	N/A	201
FARM AUTO-LVSTK	379	-	-	-	-	-	-	N/A	47
OTHER	1227	-	-	-	-	-	3	N/A	164
TOTAL-LIVESTOCK	7817	404	-	1496	38	1611	50	N/A	1421
TOTAL-AGRICULTURE	20812	12169	-	1956	130	1611	393	1233	7218

A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

VERMONT

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION AS
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	58	1913	-	5	-	-	-	-	273
PLANT	37	503	-	1	-	-	-	-	75
CULTIVATE	13	443	-	1	-	-	-	-	63
HARVEST	2223	4280	-	78	-	-	-	-	879
FARM PICKUP	1077	13	-	-	-	-	-	-	136
FERTILIZER APPLIL.	98	-	-	3	-	-	-	-	13
PESTICIDE APPLIC.	19	81	-	1	-	-	-	-	14
FARM TRUCK	989	-	-	-	-	-	-	-	124
FARM AUTO-CROPS	1750	-	-	-	-	-	-	-	219
IRRIGATION	21	8	-	-	-	-	-	-	4
FERTILIZER	-	-	-	-	-	-	-	1284	1284
PESTICIDES	-	-	-	-	-	-	-	56	56
ELECTRICITY	-	-	-	-	-	-	3	-	9
MISCELLANEOUS	-	79	-	-	-	-	-	-	11
TOTAL-CROPS	6285	7321	-	89	-	-	3	1341	3160
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	8	N/A	27
FEED HANDLING	423	286	-	14	-	-	6	N/A	113
WASTE DISP.(VEHES)	1251	51	-	39	-	-	-	N/A	167
WASTE DISP.(MACH)	-	-	-	6	5	-	2	N/A	9
WATER SUPPLY	-	-	-	-	-	-	6	N/A	20
SPACE HEATING	-	-	-	74	-	-	-	N/A	7
VENTILATION	-	-	-	-	-	-	12	N/A	39
WATER HEATING	-	-	-	1404	-	-	11	N/A	172
MILKING	-	-	-	-	-	-	12	N/A	42
MILK COOLING	-	-	-	-	-	-	23	N/A	78
BROODING	-	-	18	16	-	-	-	N/A	4
FARM VEHICLES	23	107	-	-	-	-	-	N/A	18
FARM AUTO-LVSTK	728	-	-	-	-	-	-	N/A	91
OTHER	1313	-	-	-	-	-	2	N/A	172
TOTAL-LIVESTOCK	3740	445	25	1552	-	-	61	N/A	959
TOTAL-AGRICULTURE	10025	7766	25	1641	-	-	94	1341	4119

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

VIRGINIA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^B	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	948	5555	-	2	-	-	-	-	P80
PLANT	584	1900	-	2	-	-	-	-	336
CULTIVATE	294	2375	-	1	-	-	-	-	366
HARVEST	8917	3387	-	22	-	-	-	-	1586
FARM PICKUP	6117	83	-	-	-	-	-	-	776
FERTILIZER APPLIC.	228	1960	-	1	-	-	-	-	300
PESTICIDE APPLC.	288	1403	-	1	-	-	-	-	231
FARM TRUCK	6588	8	-	-	-	-	-	-	825
FARM AUTO-CROPS	6167	-	-	-	-	-	-	-	770
CROP DRYING(ON-FARM)	-	-	6565	18560	-	-	13	-	2729
IRRIGATION	750	124	-	74	-	-	1	-	121
FROST PROTECTION	140	231	1283	31	-	-	-	-	231
FERTILIZER	-	-	-	-	-	-	-	8720	8720
PESTICIDES	-	-	-	-	-	-	-	937	937
ELECTRICITY	-	-	-	-	-	-	16	-	54
MISCELLANEOUS	-	121	-	-	-	-	-	-	17
TOTAL-CROPS	31021	17147	7848	18694	-	-	30	9657	18890
OPERATIONS-LIVESTOCK									
LIGHTING	-	-	-	-	-	-	18	N/A	62
FEED HANDLING	1883	1759	-	3	-	-	12	N/A	469
WASTE DISP.(VENCS)	2062	750	-	5	-	-	-	N/A	362
WASTE DISP.(MACH)	-	-	11	87	2	-	5	N/A	27
WATER SUPPLY	-	-	-	-	-	-	23	N/A	80
LIVESTOCK HANDLING	62	-	-	-	-	-	-	N/A	9
SPACE HEATING	-	-	-	255	-	-	1	N/A	29
VENTILATION	-	-	-	-	-	-	29	N/A	98
WATER HEATING	-	-	-	1096	-	-	11	N/A	141
MILKING	-	-	-	-	-	-	12	N/A	39
MILK COOLING	-	-	-	-	-	-	18	N/A	63
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	409	4771	34	4858	-	N/A	664
FARM VEHICLES	3507	473	-	-	-	-	-	N/A	504
FARM AUTO-LVSTK	1015	-	-	-	-	-	-	N/A	127
OTHER	1966	751	-	-	-	-	4	N/A	363
TOTAL-LIVESTOCK	10094	3734	460	6218	35	4898	133	N/A	3038
TOTAL-AGRICULTURE	41115	20881	8308	24912	35	4898	163	9657	21928

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

WASHINGTON

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^{B/}	BTU TOTAL (BILLION)
PREPLANT	646	31491	-	-	1	-	-	-	4449
PLANT	132	6042	-	-	-	-	-	-	855
CULTIVATE	29	6260	-	-	-	-	-	-	872
HARVEST	16650	9712	-	-	12	-	-	-	3429
FARM PICKUP	14035	-	-	-	13	-	-	-	1756
FERTILIZER APPLIC.	72	631	-	-	-	-	-	-	96
PESTICIDE APPLIC.	38	6275	-	-	-	-	-	-	875
FARM TRUCK	9742	707	-	-	-	-	-	-	1316
FARM AUTO-CROPS	18751	-	-	-	-	-	-	-	2344
GRAIN HNDLNG(VEHNS)	183	-	-	-	-	-	-	-	23
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	1
IRRIGATION	-	-	-	-	-	-	3757	-	12820
FROST PROTECTION	1055	1431	7954	204	-	-	1	-	1457
FERTILIZER	-	-	-	-	-	-	-	11192	11192
PESTICIDES	-	-	-	-	-	-	-	895	895
ELECTRICITY	-	-	-	-	-	-	25	-	85
MISCELLANEOUS	347	4357	-	-	-	-	-	-	640
TOTAL-CROPS	61680	66905	7954	230	-	-	3784	12088	43113
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OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	26	N/A	88
FEED HANDLING	7127	330	-	-	6	-	-	N/A	1084
WASTE DISP.(VEHNS)	3193	1217	-	-	3	-	43	N/A	568
WASTE DISP.(MACH)	-	-	-	-	160	-	-	N/A	39
WATER SUPPLY	-	-	-	-	-	-	14	N/A	48
LIVESTOCK HANDLING	30	281	-	-	-	-	-	N/A	43
SPACE HEATING	-	-	-	-	148	3	4	N/A	32
VENTILATION	-	-	-	-	-	-	22	N/A	75
WATER HEATING	-	-	-	-	1296	-	11	N/A	160
MILKING	-	-	-	-	-	-	14	N/A	48
MILK COOLING	-	-	-	-	-	-	23	N/A	77
EGG HANDLING	-	-	-	-	-	-	1	N/A	3
BREEDING	-	-	-	-	1568	-	-	N/A	150
FARM VEHICLES	4849	11	-	-	4	-	-	N/A	608
FARM AUTO-LVSTK	1362	-	-	-	-	-	-	N/A	170
OTHER	2262	-	-	-	2	-	7	N/A	307
TOTAL-LIVESTOCK	18824	1840	-	3186	3	-	171	N/A	3499
TOTAL-AGRICULTURE	80504	60745	7954	3416	3	-	3955	12088	46612

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

WEST VIRGINIA

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
PREPLANT	130	918	-	-	1	-	-	-	143
PLANT	34	35	-	-	-	-	-	-	9
CULTIVATE	9	173	-	-	-	-	-	-	25
HARVEST	1586	110	-	6	-	-	-	-	214
FARM PICKUP	632	48	-	-	-	-	-	-	86
FERTILIZER APPLIC.	41	43	-	1	-	-	-	-	11
PESTICIDE APPLIC.	3	305	-	-	-	-	-	-	43
FARM TRUCK	627	-	-	-	-	-	-	-	78
FARM AUTO-CROPS	2399	-	-	-	-	-	-	-	300
IRRIGATION	53	12	-	-	-	-	-	-	9
FROST PROTECTION	81	133	740	18	-	-	-	-	133
FERTILIZER	-	-	-	-	-	-	-	1842	1842
PESTICIDES	-	-	-	-	-	-	-	104	104
ELECTRICITY	-	-	-	-	-	-	4	-	13
TOTAL-CROPS	5596	1781	740	29	-	-	4	1946	3012
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	5	N/A	16
FEED HANDLING	385	328	-	2	-	-	2	N/A	101
WASTE DISP.(VEHRS)	217	63	-	1	-	-	-	N/A	36
WASTE DISP.(MACH)	-	-	1	19	-	-	1	N/A	5
WATER SUPPLY	-	-	-	-	-	-	5	N/A	16
LIVESTOCK HANDLING	7	-	-	-	-	-	-	N/A	1
SPACE HEATING	-	-	-	54	-	-	-	N/A	7
VENTILATION	-	-	-	-	-	-	5	N/A	17
WATER HEATING	-	-	-	250	-	-	3	N/A	34
MILKING	-	-	-	-	-	-	3	N/A	9
MILK COOLING	-	-	-	-	-	-	4	N/A	14
BROODING	-	-	105	1362	8	1470	-	N/A	186
FARM VEHICLES	261	120	-	-	-	-	-	N/A	49
FARM AUTO-LVSTK	563	-	-	-	-	-	-	N/A	70
OTHER	80	-	-	-	-	-	3	N/A	13
TOTAL-LIVESTOCK	1513	511	106	1688	8	1470	28	N/A	574
TOTAL-AGRICULTURE	7109	2292	846	1717	8	1470	32	1946	3586

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

WISCONSIN

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION) ^a
PREPLANT	504	28834	-	2	-	-	-	-	4063
PLANT	3135	8456	-	3	-	-	-	-	1565
CULTIVATE	218	7688	-	1	-	-	-	-	1094
HARVEST	45022	15699	-	74	-	-	-	-	7812
FARM PICKUP	23625	20	-	-	-	-	-	-	2956
FERTILIZER APPLIC.	1857	1009	-	4	-	-	-	-	372
PESTICIDE APPLIC.	267	3815	-	1	-	-	-	-	563
FARM TRUCK	22697	5	-	-	-	-	-	-	2838
FARM AUTO-CROPS	15526	-	-	-	-	-	-	-	1941
GRAIN HNDLING(VEHS)	340	-	-	-	-	-	-	-	42
GRAIN HNDLING(MACH)	-	-	-	-	-	-	-	-	5
CROP DRYING(ON-FARM)	-	-	-	17785	-	-	14	-	1744
IRRIGATION	326	1287	-	-	-	-	68	-	450
FERTILIZER	-	-	-	-	-	-	-	17709	17709
PESTICIDES	-	-	-	-	-	-	-	1261	1261
ELECTRICITY	-	-	-	-	-	-	48	-	165
MISCELLANEOUS	338	183	-	-	-	-	-	-	67
TOTAL-CROPS	113855	66995	-	17872	-	-	131	18970	44648
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	87	N/A	297
FEED HANDLING,	1922	4453	-	3	-	-	48	N/A	1023
WASTE DISP.(VEHS)	6388	2401	-	10	-	-	-	N/A	1132
WASTE DISP.(MACH)	-	-	4	80	-	-	12	N/A	49
WATER SUPPLY	-	-	-	-	-	-	98	N/A	333
LIVESTOCK HANDLING	37	5	-	-	-	-	-	N/A	5
SPACE HEATING	-	-	-	1758	-	-	5	N/A	185
VENTILATION	-	-	-	-	-	-	165	N/A	562
WATER HEATING	-	-	-	6345	-	-	245	N/A	1443
MILKING	-	-	-	-	-	-	109	N/A	373
MILK COOLING	-	-	-	-	-	-	211	N/A	718
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	139	4153	-	-	-	N/A	416
FARM VEHICLES	1989	2158	-	-	-	-	-	N/A	548
FARM AUTO-LVSTK	4442	-	-	-	-	-	-	N/A	555
OTHER	11853	-	-	-	-	-	12	N/A	1524
TOTAL-LIVESTOCK	26630	9017	143	12350	-	-	993	N/A	9167
TOTAL-AGRICULTURE	140485	76012	143	30222	-	-	1124	18970	53815

^aAIJ DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. ^bAIJ INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

WYOMING

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
PREPLANT	220	3329	-	-	-	-	-	-	489
PLANT	-	640	-	-	-	-	-	-	89
CULTIVATE	14	299	-	-	-	-	-	-	43
HARVEST	2766	5670	-	-	-	-	-	-	1132
FARM PICKUP	4432	-	-	-	-	-	-	-	554
FERTILIZER APPLIC.	135	322	-	-	-	-	-	-	61
PESTICIDE APPLIC.	79	66	-	-	-	-	-	-	19
FARM TRUCK	3596	-	-	-	-	-	-	-	449
FARM AUTO-CROPS	4197	-	-	-	-	-	-	-	525
IRRIGATION	328	1313	-	678	124	-	213	-	1141
FERTILIZER	-	-	-	-	-	-	-	2343	2363
PESTICIDES	-	-	-	-	-	-	-	61	61
ELECTRICITY	-	-	-	-	-	-	9	-	31
MISCELLANEOUS	676	358	-	-	-	-	-	-	134
TOTAL-CROPS	16444	11998	-	678	124	-	222	2404	7072
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	1	N/A	4
FEED HANDLING	339	2495	-	-	-	-	2	N/A	395
WASTE DISP.(VEHS)	159	23	-	-	-	-	-	N/A	23
WASTE DISP.(MACH)	-	-	-	1	-	-	-	N/A	1
WATER SUPPLY	-	-	-	-	-	-	1	N/A	5
LIVESTOCK HANDLING	514	-	-	-	-	-	-	N/A	64
SPACE HEATING	-	-	-	12	-	-	-	N/A	1
VENTILATION	-	-	-	-	-	-	1	N/A	2
WATER HEATING	-	-	-	97	-	-	-	N/A	10
MILKING	-	-	-	-	-	-	1	N/A	3
MILK COOLING	-	-	-	-	-	-	1	N/A	5
BROODING	-	-	-	9	-	5	-	N/A	1
FARM VEHICLES	4312	590	-	-	-	-	-	N/A	621
FARM AUTO-LVSTK	851	-	-	-	-	-	-	N/A	106
OTHER	258	-	-	-	-	-	-	N/A	33
TOTAL-LIVESTOCK	6434	3108	-	120	-	5	8	N/A	1276
TOTAL-AGRICULTURE	22878	15106	-	798	124	5	230	2404	8348

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

UNITED STATES

ENERGY AND AGRICULTURE, 1978 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
PREPLANT	45949	1212328	-	17214	-	-	-	-	175537
PLANT	31178	315600	-	2076	-	-	-	-	47870
CULTIVATE	20310	338682	-	5406	-	-	-	-	50031
HARVEST	523994	582510	-	88593	-	-	-	-	154755
FARM PICKUP	1018323	1057	-	22234	-	-	-	-	129559
FERTILIZER APPLIC.	24251	70084	-	2567	-	-	-	-	12996
PESTICIDE APPLIC.	25271	92764	-	9535	-	-	-	-	16937
FARM TRUCK	535485	5747	-	-	-	-	-	-	67732
FARM AUTO-CROPS	486159	-	-	-	-	-	-	-	60767
GRAIN HNDLNG(CHEMS)	15253	-	-	-	-	-	-	-	1905
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	34	-	114
CROP DRYING(ON-FARM)	-	-	62102	629396	700	-	565	-	71354
IRRIGATION	73622	136894	-	242512	134222	-	19453	-	254764
FROST PROTECTION	38866	27634	218548	1458	-	-	200	-	39824
FERTILIZER	-	-	-	-	-	-	-	652532	652532
PESTICIDES	-	-	-	-	-	-	-	68130	68130
ELECTRICITY	-	-	-	-	-	-	1696	-	5783
MISCELLANEOUS	72633	37162	-	-	-	-	-	-	14232
TOTAL-CROPS	2911293	2820464	280651	1020990	134922	-	21948	720662	1824843
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000) C/	GALS OF DIESEL (1000) C/	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	1734	N/A	5914
FEED HANDLING	120284	316904	-	29606	-	-	1110	N/A	65606
WASTE DISP.(LVEHS)	91665	79759	-	12931	-	-	-	N/A	23756
WASTE DISP.(MACH)	-	-	679	6983	461	-	119	N/A	1639
WATER SUPPLY	-	13923	-	-	-	-	1537	N/A	7174
LIVESTOCK HANDLING	13763	1942	-	5719	-	-	-	N/A	2536
SPACE HEATING	-	1	-	54357	11	-	164	N/A	5761
VENTILATION	-	-	-	-	-	-	2020	N/A	6892
WATER HEATING	-	-	-	68220	-	-	946	N/A	9745
MILKING	-	-	-	-	-	-	794	N/A	2708
MILK COOLING	-	-	-	-	-	-	1301	N/A	4438
EGG HANDLING	-	-	-	-	-	-	31	N/A	106
BREEDING	-	-	9539	215600	4669	36522	-	N/A	27512
FARM VEHICLES	214474	62225	-	8777	-	-	-	N/A	36278
FARM AUTO-LVSTK	68891	-	-	-	-	-	-	N/A	6611
OTHER	95283	12527	-	1659	-	-	205	N/A	14505
TOTAL-LIVESTOCK	604363	487283	10218	403845	5141	36522	9961	N/A	223179
TOTAL-AGRICULTURE	3515656	3307747	290869	1424835	140063	36522	31909	720662	2048022

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION). (C) GASOLINE & DIESEL USE REFLECT MACHINERY COMPLEMENTS AND CROP PRODUCTION TECHNOLOGIES IN 1978.

ALABAMA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	307	9145	-	28	-	-	-	-	1309
PLANT	48	3182	-	5	-	-	-	-	448
CULTIVATE	20	5800	-	2	-	-	-	-	807
HARVEST	8594	5170	-	726	-	-	-	-	1861
FARM PICKUP	9169	-	-	-	-	-	-	-	1146
FERTILIZER APPLIC.	20	4351	-	2	-	-	-	-	606
PESTICIDE APPLIC.	468	3147	-	43	-	-	-	-	499
FARM TRUCK	11325	15	-	-	-	-	-	-	1418
FARM AUTO-CROPS	5598	-	-	-	-	-	-	-	700
CROP DRYING(ON-FM)	-	-	-	1383	-	-	2	-	130
IRRIGATION	270	172	-	29	1	-	1	-	64
FERTILIZER	-	-	-	-	-	-	-	7734	7734
PESTICIDES	-	-	-	-	-	-	-	2157	2157
ELECTRICITY	-	-	-	-	-	-	12	-	60
MISCELLANEOUS	-	65	-	-	-	-	-	-	2
TOTAL-CROPS	35819	31046	-	2138	1	-	20	9862	18918
OPERATIONS-LIVESTOCK									
LIGHTING	-	-	-	-	-	-	46	N/A	158
FEED HANDLING	1528	2289	-	141	-	-	15	N/A	575
WASTE DISP.(VEHES)	2171	590	-	200	-	-	-	N/A	372
WASTE DISP.(MACH)	-	-	-	472	10	-	1	N/A	59
WATER SUPPLY	-	-	-	-	-	-	21	N/A	73
LIVESTOCK HANDLING	83	3	-	8	-	-	-	N/A	12
SPACE HEATING	-	-	-	295	-	-	1	N/A	32
VENTILATION	-	-	-	-	-	-	48	N/A	164
WATER HEATING	-	-	-	819	-	-	4	N/A	95
MILKING	-	-	-	-	-	-	8	N/A	27
MILK COOLING	-	-	-	-	-	-	12	N/A	40
EGG HANDLING	-	-	-	-	-	-	1	N/A	3
BROODING	-	-	-	18205	128	7276	-	N/A	2036
FARM VEHICLES	5177	972	-	-	-	-	-	N/A	782
FARM AUTO-LVSTK	1368	-	-	-	-	-	-	N/A	171
OTHER	1944	1643	-	-	-	-	3	N/A	480
TOTAL-LIVESTOCK	12272	5497	-	20160	138	7276	161	N/A	5079
TOTAL-AGRICULTURE	48091	36543	-	22298	139	7276	181	9862	23987

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

ALASKA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION 1/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)B/	BTU TOTAL (BILLION)
PREPLANT	27	-	-	-	-	-	-	-	3
PLANT	34	-	-	-	-	-	-	-	4
CULTIVATE	41	-	-	-	-	-	-	-	5
HARVEST	99	-	-	-	-	-	-	-	12
IRRIGATION	15	2	-	-	-	-	-	-	4
FERTILIZER	-	-	-	-	-	-	-	24	24
PESTICIDES	-	-	-	-	-	-	-	2	2
MISCELLANEOUS	80	-	-	-	-	-	-	-	10
TOTAL-CROPS	296	2	-	-	-	-	-	26	65
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	-	N/A	1
FEED HANDLING	24	180	-	-	-	-	-	N/A	28
WASTE DISP. (EVENS)	24	-	-	-	-	-	-	N/A	3
LIVESTOCK HANDLING	4	-	-	-	-	-	-	N/A	1
WATER HEATING	-	-	-	22	-	-	-	N/A	2
MILKING	-	-	-	-	-	-	-	N/A	1
MILK COOLING	-	-	-	-	-	-	-	N/A	1
FARM VEHICLES	8	-	-	-	-	-	-	N/A	1
OTHER	21	-	-	-	-	-	-	N/A	3
TOTAL-LIVESTOCK	81	180	4	23	-	-	1	N/A	41
TOTAL-AGRICULTURE	377	182	4	23	-	-	1	26	106

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

ARIZONA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION)
PREPLANT	46	11501	-	6	-	-	-	-	1601
PLANT	6	1713	-	1	-	-	-	-	238
CULTIVATE	10	3806	-	3	-	-	-	-	531
HARVEST	1584	2300	-	180	-	-	-	-	740
FARM PICKUP	5915	2	-	-	-	-	-	-	139
FERTILIZER APPLIC.	5	1000	-	1	-	-	-	-	32
PESTICIDE APPLIC.	30	198	-	4	-	-	-	-	289
FARM TRUCK	2264	40	-	-	-	-	-	-	281
FARM AUTO-CROPS	2245	-	-	-	-	-	-	-	4
CROP DRYING(DN-FM)	-	-	-	42	-	-	-	-	21827
IRRIGATION	-	-	-	-	14425	-	2081	-	1203
FROST PROTECTION	1338	1341	5963	1	-	-	-	5232	5232
FERTILIZER	-	-	-	-	-	-	-	472	472
PESTICIDES	-	-	-	-	-	-	-	-	23
ELECTRICITY	-	-	-	-	-	-	7	-	24
MISCELLANEOUS	40	136	-	-	-	-	-	-	-
TOTAL-CROPS	13493	22038	5963	238	14425	-	2094	5704	33169
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	29	N/A	98
FEED HANDLING	2086	1446	-	282	-	-	46	N/A	644
WASTE DISP.(VEHS)	884	169	-	119	-	-	-	N/A	145
WASTE DISP.(MACH)	-	-	-	20	-	-	-	N/A	2
WATER SUPPLY	-	-	-	-	-	-	3	N/A	18
LIVESTOCK HANDLING	349	1	-	46	-	-	-	N/A	47
SPACE HEATING	-	-	-	51	-	-	4	N/A	5
VENTILATION	-	-	-	-	-	-	1	N/A	14
WATER HEATING	-	-	-	741	-	-	7	N/A	75
MILKING	-	-	-	-	-	-	9	N/A	23
MILK COOLING	-	-	-	25	-	4	-	N/A	29
BROODING	-	-	-	-	-	-	-	N/A	3
FARM VEHICLES	4279	1	-	-	-	-	-	N/A	535
FARM AUTO-LVSTK	97	-	-	-	-	-	-	N/A	12
OTHER	419	19	-	-	-	-	2	N/A	61
TOTAL-LIVESTOCK	8108	1636	-	1285	1	4	100	N/A	1705
TOTAL-AGRICULTURE	21601	23674	5963	1523	14426	4	2194	5704	34874

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

ARKANSAS

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(A)	BTU TOTAL (BILLION)
PREPLANT	1965	36151	-	2633	-	-	-	-	5511
PLANT	17	8948	-	29	-	-	-	-	1246
CULTIVATE	2	20154	-	3	-	-	-	-	2796
HARVEST	4465	16834	-	6274	-	-	-	-	3492
FARM PICKUP	30850	5	-	504	-	-	-	-	3905
FERTILIZER APPLIC.	317	274	-	431	-	-	-	-	119
PESTICIDE APPLIC.	1229	1916	-	1532	-	-	-	-	566
FARM TRUCK	2658	4	-	-	-	-	-	-	333
FARM AUTO-CROPS	7829	-	-	-	-	-	-	-	978
GRAIN HNDNG (VEHS)	28	-	-	-	-	-	-	-	3
CROP DRYING(ON-FM)	-	-	-	1804	23	-	-	-	225
IRRIGATION	12696	3576	-	21735	248	-	84	-	4700
FERTILIZER	-	-	-	-	-	-	-	10620	10620
PESTICIDES	-	-	-	-	-	-	-	3618	3618
ELECTRICITY	-	-	-	-	-	-	39	-	133
MISCELLANEOUS	-	367	-	-	-	-	-	-	51
TOTAL-CROPS	62058	98229	-	34951	273	-	132	14239	38298
8 OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
	-	-	-	-	-	-	55	N/A	189
	619	2350	-	1011	-	-	17	N/A	557
	1150	274	-	1878	-	-	-	N/A	361
	-	-	-	581	20	-	1	N/A	80
	LIVESTOCK HANDLING	93	35	-	153	-	16	N/A	55
	SPACE HEATING	-	-	159	-	-	-	N/A	31
	VENTILATION	-	-	-	-	-	51	N/A	174
	WATER HEATING	-	-	812	-	-	8	N/A	92
	MILK COOLING	-	-	-	-	-	11	N/A	39
	EGG HANDLING	-	-	-	-	-	2	N/A	7
	BROODING	-	-	26086	356	-	-	N/A	2647
	FARM VEHICLES	4249	366	-	85	-	-	N/A	590
	FARM AUTO-LVSTK	956	-	-	-	-	-	N/A	120
	OTHER	1892	1947	-	39	-	2	N/A	518
TOTAL-LIVESTOCK	8960	4971	-	30721	376	-	168	N/A	5780
TOTAL-AGRICULTURE	71018	93199	-	65672	646	-	300	14239	43998

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

CALIFORNIA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION AS
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(A)	BTU TOTAL (BILLION) ^(B)
OPERATIONS-CROPS									
PREPLANT	2439	57952	-	293	-	-	-	-	8371
PLANT	195	5298	-	23	-	-	-	-	761
CULTIVATE	201	13303	-	27	-	-	-	-	1873
HARVEST	17668	14567	-	1954	-	-	-	-	4415
FARM PICKUP	32819	59	-	4361	-	-	-	-	4527
FERTILIZER APPLIC.	356	1155	-	42	-	-	-	-	209
PESTICIDE APPLIC.	535	7678	-	61	-	-	-	-	1138
FARM TRUCK	13439	1776	-	-	-	-	-	-	1926
FARM AUTO-CROPS	21380	-	-	-	-	-	-	-	2672
GRAIN HNDLNG(VEHS)	104	-	-	-	-	-	-	-	1
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	105
CROP DRYING(ON-FM)	-	59	-	424	56	-	2	-	16596
IRRIGATION	-	-	-	-	1164	-	4513	-	9386
FROST PROTECTION	13773	7073	46811	552	-	-	40	-	26094
FERTILIZER	-	-	-	-	-	-	-	-	5358
PESTICIDES	-	-	-	-	-	-	-	-	158
ELECTRICITY	-	-	-	-	-	-	46	-	567
MISCELLANEOUS	756	3407	-	-	-	-	-	-	-
TOTAL-CROPS	103687	112326	46811	7740	1220	-	4602	31452	84171
OPERATIONS-LIVESTOCK									
LIGHTING	-	-	-	-	-	-	146	N/A	500
FEED HANDLING	21091	902	-	2488	-	-	159	N/A	3541
WASTE DISP.(VEHS)	10246	2461	-	1209	-	-	-	N/A	1737
WASTE DISP.(MACH)	-	-	58	416	206	-	1	N/A	261
WATER SUPPLY	-	19698	-	-	-	-	40	N/A	2678
LIVESTOCK HANDLING	166	184	-	19	-	-	-	N/A	48
SPACE HEATING	-	-	-	577	4	-	8	N/A	86
VENTILATION	-	-	-	-	-	-	95	N/A	326
WATER HEATING	-	-	-	8931	-	-	28	N/A	950
MILKING	-	-	-	-	-	-	84	N/A	286
MILK COOLING	-	-	-	-	-	-	108	N/A	369
EGG HANDLING	-	-	-	-	-	-	9	N/A	31
BROODING	-	-	1643	3027	1344	-	-	N/A	1889
FARM VEHICLES	7947	91	-	1098	-	-	-	N/A	1111
FARM AUTO-LVSTK	3744	-	-	-	-	-	-	N/A	468
OTHER	5665	-	-	781	-	-	27	N/A	876
TOTAL-LIVESTOCK	48860	23336	1701	18548	1554	-	797	N/A	15350
TOTAL-AGRICULTURE	152527	135662	48512	26288	2774	-	5399	31452	99521

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY
DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING
CARRIER SOLUTION).

COLORADO

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION)
PREPLANT	307	17934	-	86	-	-	-	-	2534
PLANT	2	3410	-	1	-	-	-	-	473
CULTIVATE	102	2477	-	40	-	-	-	-	360
HARVEST	9148	7871	-	2607	-	-	-	-	2484
FARM PICKUP	15082	-	-	-	-	-	-	-	1885
FERTILIZER APPLIC.	86	899	-	24	-	-	-	-	138
PESTICIDE APPLIC.	70	760	-	20	-	-	-	-	116
FARM TRUCK	12126	35	-	-	-	-	-	-	1521
FARM AUTO-CROPS	13734	-	-	-	-	-	-	-	1717
GRAIN HNDLING(VEHS)	256	-	-	-	-	-	-	-	32
GRAIN HNDLING(MACH)	-	-	-	-	-	-	-	-	2
CROP DRYING(ON-FM)	-	-	-	1590	-	-	1	-	156
IRRIGATION	412	1211	-	1839	4691	-	399	-	6547
FROST PROTECTION	76	124	691	17	-	-	-	-	125
FERTILIZER	-	-	-	-	-	-	-	6448	6448
PESTICIDES	-	-	-	-	-	-	-	470	470
ELECTRICITY	-	-	-	-	-	-	31	-	105
MISCELLANEOUS	959	139	-	-	-	-	-	-	139
TOTAL-CROPS	52361	34861	691	6222	4691	-	432	6918	25251
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	43	N/A	146
FEED HANDLING	3588	11839	-	1007	-	-	2	N/A	2193
WASTE DISP.(VEHS)	843	155	-	236	-	-	-	N/A	149
WASTE DISP.(MACH)	-	-	-	53	4	-	-	N/A	9
WATER SUPPLY	-	-	-	-	-	-	5	N/A	18
LIVESTOCK HANDLING	1256	8	-	352	-	-	-	N/A	192
SPACE HEATING	-	-	-	70	-	-	-	N/A	7
VENTILATION	-	-	-	-	-	-	5	N/A	18
WATER HEATING	-	-	-	836	-	-	1	N/A	84
MILKING	-	-	-	-	-	-	7	N/A	25
MILK COOLING	-	-	-	-	-	-	10	N/A	35
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	-	1194	76	109	-	N/A	194
FARM VEHICLES	5966	6	-	-	-	-	-	N/A	747
FARM AUTO-LVSTK	2216	-	-	-	-	-	-	N/A	277
OTHER	774	105	-	-	-	-	2	N/A	118
TOTAL-LIVESTOCK	14543	12114	-	3748	80	109	76	N/A	4213
TOTAL-AGRICULTURE	67004	46975	691	9970	4771	109	508	6918	29464

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

CONNECTICUT

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	106	455	-	-	-	-	-	-	76
PLANT	34	120	-	-	-	-	-	-	21
CULTIVATE	30	121	-	-	-	-	-	-	21
HARVEST	1559	665	-	-	-	-	-	-	267
FARM PICKUP	954	13	-	-	-	-	-	-	121
FERTILIZER APPLIC.	79	36	-	-	-	-	-	-	15
PESTICIDE APPLIC.	22	112	-	-	-	-	-	-	18
FARM TRUCK	857	5	-	-	-	-	-	-	108
FARM AUTO-CROPS	654	-	-	-	-	-	-	-	82
CROP DRYING(ON-FARM)	-	-	-	1075	-	-	-	-	103
IRRIGATION	156	39	-	3	-	-	-	-	26
FERTILIZER	-	-	-	-	-	-	-	461	461
PESTICIDES	-	-	-	-	-	-	-	62	62
ELECTRICITY	-	-	-	-	-	-	1	-	3
MISCELLANEOUS	-	28	-	-	-	-	-	-	4
TOTAL-CROPS	4450	1594	-	1078	-	-	1	522	1406
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	9	N/A	32
FEED HANDLING	268	45	-	-	-	-	4	N/A	32
WASTE DISP.(VEMS)	1105	8	-	-	-	-	-	N/A	140
WASTE DISP.(MAEH)	-	-	44	43	-	-	-	N/A	11
WATER SUPPLY	-	-	-	-	-	-	2	N/A	7
LIVESTOCK HANDLING	49	-	-	-	-	-	-	N/A	6
SPACE HEATING	-	-	-	51	-	-	-	N/A	3
VENTILATION	-	-	-	-	-	-	8	N/A	28
WATER HEATING	-	-	-	309	-	-	4	N/A	44
MILKING	-	-	-	-	-	-	4	N/A	13
MILK COOLING	-	-	-	-	-	-	7	N/A	23
EGG HANDLING	-	-	-	-	-	-	1	N/A	2
BROODING	-	-	95	305	-	-	-	N/A	42
FARM VEHICLES	75	31	-	-	-	-	-	N/A	14
FARM AUTO-LVSTK	286	-	-	-	-	-	-	N/A	36
OTHER	950	-	-	-	-	-	1	N/A	122
TOTAL-LIVESTOCK	2736	84	139	688	-	-	48	N/A	575
TOTAL-AGRICULTURE	7186	1678	139	1766	-	-	41	522	1981

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

DELAWARE

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	17	1692	-	-	-	-	-	-	237
PLANT	3	268	-	-	-	-	-	-	37
CULTIVATE	5	235	-	-	-	-	-	-	33
HARVEST	1498	313	-	-	-	-	-	-	231
FARM PICKUP	3120	3	-	-	-	-	-	-	390
FERTILIZER APPLIC.	6	69	-	-	-	-	-	-	10
PESTICIDE APPLIC.	3	260	-	-	-	-	-	-	36
FARM TRUCK	1690	2	-	-	-	-	-	-	212
FARM AUTO-CROPS	259	-	-	-	-	-	-	-	32
IRRIGATION	400	168	-	191	-	-	1	-	95
FERTILIZER	-	-	-	-	-	-	-	1586	1586
PESTICIDES	-	-	-	-	-	-	-	96	96
ELECTRICITY	-	-	-	-	-	-	2	-	9
MISCELLANEOUS	-	495	-	-	-	-	-	-	60
TOTAL-CROPS	7002	3445	-	191	-	-	9	1682	3067
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	12	N/A	41
FEED HANDLING	71	39	-	-	-	-	3	N/A	24
WASTE DISP.(VEHS)	311	19	-	-	-	-	-	N/A	41
WASTE DISP.(MACH)	-	-	7	54	-	-	-	N/A	7
WATER SUPPLY	-	-	-	-	-	-	2	N/A	6
SPACE HEATING	-	-	-	48	-	-	-	N/A	5
VENTILATION	-	-	-	-	-	-	19	N/A	64
WATER HEATING	-	-	-	97	-	-	1	N/A	11
MILKING	-	-	-	-	-	-	1	N/A	3
MILK COOLING	-	-	-	-	-	-	1	N/A	5
BROODING	-	-	311	6219	-	-	-	N/A	637
FARM VEHICLES	117	30	-	-	-	-	-	N/A	19
FARM AUTO-LVSTK	76	-	-	-	-	-	-	N/A	9
OTHER	83	-	-	-	-	-	-	N/A	11
TOTAL-LIVESTOCK	663	87	318	6418	-	-	39	N/A	885
TOTAL-AGRICULTURE	7665	3532	318	6609	-	-	43	1682	3952

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

FLO91D4

**ENERGY AND AGRICULTURE, 1974 DATA RASF. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)**

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(A)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
	-	-	-	-	-	-	-	-	-	-
PREPLANT	85	5238	-	-	-	-	-	-	-	737
PLANT	68	1721	-	-	-	-	-	-	-	247
CULTIVATE	45	7697	-	-	-	-	-	-	-	1074
HARVEST	4600	7448	-	7	-	-	-	-	-	1609
FARM PICKUP	4521	-	-	-	-	-	-	-	-	565
FERTILIZER APPLTC.	19	4400	-	-	-	-	-	-	-	625
PESTICIDE APPLTC.	53	2465	-	-	-	-	-	-	-	548
FARM TRUCK	9219	-	-	-	-	-	-	-	-	1152
FARM AUTO-CROPS	4072	-	-	-	-	-	-	-	-	510
CROP DRYING(ON-FM)	-	-	1416	4826	-	-	5	-	-	676
IRRIGATION	3552	13870	-	9793	-	-	153	-	-	3822
FROST PROTECTION	17087	10854	119810	-	-	-	136	-	-	23723
FERTILIZER	-	-	-	-	-	-	-	11236	11236	-
PESTICIDES	-	-	-	-	-	-	-	3612	3612	-
ELECTRICITY	-	-	-	-	-	-	12	-	-	42
MISCELLANEOUS	-	1355	-	-	-	-	-	-	-	188
TOTAL-CROPS	43327	55109	121226	14627	-	-	307	14848	47166	
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(A)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
	-	-	-	-	-	-	-	-	-	-
LIGHTING	-	-	-	-	-	-	26	N/A	N/A	88
FEED HANDLING	1409	334	-	2	-	-	7	N/A	N/A	246
WASTE DISP.(VEHS)	1440	94	-	2	-	-	-	N/A	N/A	193
WASTE DISP.(MACH)	-	-	-	393	-	-	-	N/A	N/A	38
WATER SUPPLY	-	-	-	-	-	-	13	N/A	N/A	43
LIVESTOCK HANDLING	49	1	-	-	-	-	-	N/A	N/A	6
SPACE HEATING	-	-	-	230	-	-	-	N/A	N/A	23
VENTILATION	-	-	-	-	-	-	17	N/A	N/A	58
WATER HEATING	-	-	-	2133	-	-	5	N/A	N/A	223
MILKING	-	-	-	-	-	-	19	N/A	N/A	66
MILK COOLING	-	-	-	-	-	-	26	N/A	N/A	89
EGG HANDLING	-	-	-	-	-	-	-	N/A	N/A	1
BROODING	-	-	-	2349	-	-	-	N/A	N/A	224
FARM VEHICLES	1785	841	-	-	-	-	-	N/A	N/A	340
FARM AUTO-LVSTK	182	-	-	-	-	-	-	N/A	N/A	23
OTHER	996	675	-	-	-	-	5	N/A	N/A	235
TOTAL-LIVESTOCK	5860	1945	-	5129	-	-	119	N/A	N/A	1898
TOTAL-AGRICULTURE	49187	57054	121226	19736	-	-	426	14848	49864	

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS).

GEORGIA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	277	16225	-	39	-	-	-	-	2289
PLANT	321	5365	-	45	-	-	-	-	789
CULTIVATE	162	9041	-	23	-	-	-	-	1276
HARVEST	12425	12961	-	1693	-	-	-	-	3512
FARM PICKUP	12385	-	-	-	-	-	-	-	1548
FERTILIZER APPLIC.	86	8070	-	12	-	-	-	-	1131
PESTICIDE APPLIC.	863	6843	-	122	-	-	-	-	1069
FARM TRUCK	13685	22	-	-	-	-	-	-	1714
FARM AUTO-CROPS	6883	-	-	-	-	-	-	-	860
GRAIN HNDLNG(VEHS)	296	-	-	-	-	-	-	-	37
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	2
CROP DRYTNG(ON-FR)	-	-	6758	23402	150	-	29	-	3424
IRRIGATION	3217	2607	-	1418	-	-	3	-	909
FROST PROTECTION	135	222	1234	30	-	-	-	-	222
FERTILIZER	-	-	-	-	-	-	-	16511	16511
PESTICIDES	-	-	-	-	-	-	-	2842	2842
ELECTRICITY	-	-	-	-	-	-	28	-	95
MISCELLANEOUS	69	122	-	-	-	-	-	-	26
TOTAL-CROPS	50804	61477	7992	26784	150	-	60	19353	38255
OPERATIONS-LIVESTOCK									
	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	67	N/A	228
FEED HANDLING	1891	2589	-	270	-	-	24	N/A	703
WASTE DTSP.(VEHS)	2411	1037	-	345	-	-	-	N/A	478
WASTE DISP.(MACH)	-	-	-	995	22	-	3	N/A	127
WATER SUPPLY	-	-	-	-	-	-	39	N/A	133
LIVESTOCK HANDLING	133	3	-	19	-	-	-	N/A	19
SPACE HEATING	-	-	-	554	-	-	3	N/A	62
VENTILATION	-	-	-	-	-	-	73	N/A	251
WATER HEATING	-	-	-	1068	-	-	6	N/A	123
MILKING	-	-	-	-	-	-	11	N/A	36
MILK COOLING	-	-	-	-	-	-	16	N/A	53
EGG HANDLING	-	-	-	-	-	-	2	N/A	6
BROODING	-	-	-	20723	177	-	-	N/A	2159
FARM VEHICLES	6088	1149	-	-	-	-	-	N/A	920
FARM AUTO-LVSTK	1129	-	-	-	-	-	-	N/A	141
OTHER	1828	1731	-	-	-	-	4	N/A	482
TOTAL-LIVESTOCK	13480	6500	-	23974	198	-	247	N/A	5921
TOTAL-AGRICULTURE	64284	67986	7992	50758	348	-	307	19353	44176

(a) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (b) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

HAWAII

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)B/	BTU TOTAL (BILLION)
PREPLANT	-	1771	-	-	-	-	-	-	246
PLANT	-	1389	-	-	-	-	-	-	151
CULTIVATE	-	1589	-	-	-	-	-	-	220
HARVEST	67	1614	-	-	-	-	-	-	233
FERTILIZER APPLIC.	-	225	-	-	-	-	-	-	31
PESTICIDE APPLIC.	-	180	-	-	-	-	-	-	25
IRRIGATION	724	-	-	-	-	-	696	-	2464
FERTILIZER	-	-	-	-	-	-	-	1882	1882
PESTICIDES	-	-	-	-	-	-	-	161	161
ELECTRICITY	-	-	-	-	-	-	2	-	7
MISCELLANEOUS	1790	-	-	-	-	-	-	-	224
TOTAL-CROPS	2580	6473	-	-	-	-	698	2043	5644
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	2	N/A	7
FEED HANDLING	1194	3104	-	-	-	-	1	N/A	583
WASTE DISP. (VENS)	577	345	-	-	-	-	-	N/A	120
WASTE DISP. (MACH)	-	-	31	-	-	-	-	N/A	4
WATER SUPPLY	-	-	-	-	-	-	1	N/A	2
LIVESTOCK HANDLING	202	-	-	-	-	-	-	N/A	25
SPACE HEATING	-	-	-	-	9	-	-	N/A	1
VENTILATION	-	-	-	-	-	-	1	N/A	5
WATER HEATING	-	-	-	146	-	-	1	N/A	16
MILKING	-	-	-	-	-	-	1	N/A	5
MILK COOLING	-	-	-	-	-	-	2	N/A	6
BROODING	-	-	-	9	-	-	-	N/A	1
FARM VEHICLES	1611	-	-	-	-	-	-	N/A	202
OTHER	228	-	-	-	-	-	-	N/A	30
TOTAL-LIVESTOCK	3807	3449	40	155	-	-	10	N/A	1008
TOTAL-AGRICULTURE	6387	9922	40	155	-	-	708	2043	6632

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

IDaho

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)B/	BTU TOTAL (BILLION)
PREPLANT	769	15732	-	45	-	-	-	-	2282
PLANT	134	5936	-	8	-	-	-	-	841
CULTIVATE	86	3038	-	8	-	-	-	-	433
HARVEST	8175	952*	-	461	-	-	-	-	2387
FARM PICKUP	10289	-	-	-	-	-	-	-	1276
FERTILIZER APPLIC.	164	2352	-	0	-	-	-	-	347
PESTICIDE APPLIC.	24	2282	-	1	-	-	-	-	320
FARM TRUCK	5826	2169	-	-	-	-	-	-	1029
FARM AUTO-CROPS	5656	-	-	-	-	-	-	-	707
GRAIN HNDLNG(VEHS)	201	-	-	-	-	-	-	-	25
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	1
IRRIGATION	5564	1449	-	2165	406	-	1581	-	6911
FERTILIZER	-	-	-	-	-	-	-	8685	8685
PESTICIDES	-	-	-	-	-	-	-	665	665
ELECTRICITY	-	-	-	-	-	-	22	-	76
MISCELLANEOUS	219	304	-	-	-	-	-	-	82
TOTAL-CROPS	37026	42873	-	2698	406	-	1603	9351	26069
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	19	N/A	64
FEED HANDLING	8264	74	-	473	-	-	32	N/A	1197
WASTE DISP+(VEHS)	2361	330	-	135	-	-	-	N/A	355
WASTE DISP.(MACH)	-	-	-	16	-	-	3	N/A	11
WATER SUPPLY	-	-	-	-	-	-	14	N/A	46
LIVESTOCK HANDLING	6	77	-	-	-	-	-	N/A	11
SPACE HEATING	-	-	-	137	3	-	6	N/A	35
VENTILATION	-	-	-	-	-	-	7	N/A	26
WATER HEATING	-	-	-	1346	-	-	5	N/A	147
MILKING	-	-	-	-	-	-	13	N/A	43
MILK COOLING	-	-	-	-	-	-	19	N/A	64
BROODING	-	-	-	107	1	24	-	N/A	11
FARM VEHICLES	8343	1	-	-	-	-	-	N/A	1043
FARM AUTO-LVSTK	571	-	-	-	-	-	-	N/A	71
OTHER	1640	-	-	-	-	-	10	N/A	239
TOTAL-LIVESTOCK	21186	491	-	2214	7	24	125	N/A	3363
TOTAL-AGRICULTURE	58212	43364	-	4912	408	24	172*	9351	29432

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

ILLINOIS

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION &
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^a	PTU TOTAL (BILLION) ^b
PREPLANT	7160	56502	-	1672	-	-	-	-	9894
PLANT	2709	20507	-	638	-	-	-	-	3244
CULTIVATE	3681	21024	-	869	-	-	-	-	3460
HARVEST	34745	25828	-	8188	-	-	-	-	707
FARM PICKUP	101393	26	-	107	-	-	-	-	12688
FERTILIZER APPLIC.	4632	193	-	1303	-	-	-	-	710
PESTICIDE APPLIC.	4712	602	-	1112	-	-	-	-	779
FARM TRUCK	40152	2	-	-	-	-	-	-	5019
FARM AUTO-CROPS	31419	-	-	-	-	-	-	-	3927
GRAIN HNDLNG(VEHS)	2172	-	-	-	-	-	-	-	271
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	4	-	12
CROP DRYING(ON-FM)	-	-	-	105024	38	-	83	-	10352
IRRIGATION	942	332	-	528	-	-	2	-	222
FERTILIZER	-	-	-	-	-	-	-	50259	50259
PESTICIDES	-	-	-	-	-	-	-	3549	3549
ELECTRICITY	-	-	-	-	-	-	114	-	391
MISCELLANEOUS	-	161	-	-	-	-	-	-	22
TOTAL-CROPS	233721	125193	-	119251	78	-	204	53807	112557
OPERATIONS-LIVESTOCK	GASHLT OF (1000)	GALS OF SE (1000)	GALS OF FOULS OF (1000)	GALS OF GAS (1000)	CHART GAS (MILLION)	OF IRNS	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	42	N/A	143
FEED HANDLING	3236	7947	-	764	-	-	27	N/A	1673
WASTE DISP.(VEHS)	1527	4624	-	363	-	-	-	N/A	469
WASTE DISP.(MACH)	-	-	4	102	-	-	4	N/A	25
WATER SUPPLY	-	-	-	-	-	-	161	N/A	549
LIVESTOCK HANDLING	33	3	-	8	-	-	-	N/A	5
SPACE HEATING	-	-	-	8931	-	-	22	N/A	927
VENTILATION	-	-	-	-	-	-	156	N/A	533
WATER HEATING	-	-	-	1470	-	-	24	N/A	224
MILKING	-	-	-	-	-	-	18	N/A	60
MILK COOLING	-	-	-	-	-	-	39	N/A	103
EGG HANDLING	-	-	-	-	-	-	1	N/A	2
BROODING	-	-	42	932	4	391	-	N/A	107
FARM VEHICLES	10947	8654	-	11	-	-	-	N/A	2570
FARM AUTO-LVSTK	2361	-	-	-	-	-	-	N/A	295
OTHER	1947	-	-	2	-	-	5	N/A	265
TOTAL-LIVESTOCK	20062	21231	47	12603	4	391	491	N/A	8351
TOTAL-AGRICULTURE	253783	146414	47	131854	42	391	695	53807	120858

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

INDIANA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)B/	BTU TOTAL (BILLION)
PREPLANT	4060	26377	-	10	-	-	-	-	4167
PLANT	2121	9389	-	5	-	-	-	-	1568
CULTIVATE	1905	9826	-	5	-	-	-	-	1560
HARVEST	21399	10339	-	48	-	-	-	-	4114
FARM PICKUP	47791	13	-	-	-	-	-	-	5976
FERTILIZER APPLIC.	3096	124	-	7	-	-	-	-	405
PESTICIDE APPLIC.	2845	246	-	5	-	-	-	-	299
FARM TRUCK	17923	8	-	-	-	-	1	-	2241
FARM AUTO-CROPS	13171	-	-	-	-	-	-	-	1646
GRAIN HNDLNG(VEHS)	915	-	-	-	-	-	-	-	114
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	2	-	5
CROP DRYING(ON-FM)	-	-	-	53372	18	-	42	-	5258
IRRIGATION	626	203	-	752	3	-	2	-	187
FERTILIZER	-	-	-	-	-	-	-	29713	29713
PESTICIDES	-	-	-	-	-	-	-	2082	2082
ELECTRICITY	-	-	-	-	-	-	62	-	213
MISCELLANEOUS	-	149	-	-	-	-	-	-	21
TOTAL-CROPS	115052	56374	-	54204	21	-	107	31795	59560
OPERATIONS-LIVESTOCK	GALS OF GASOLYNE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)B/	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	39	N/A	132
FEED HANDLING	3623	6013	-	8	-	-	16	N/A	1341
WASTE DISP.(VEHS)	1949	2642	-	4	-	-	-	N/A	610
WASTE DISP.(MACH)	-	-	R	187	1	-	4	N/A	32
WATER SUPPLY	-	-	-	-	-	-	72	N/A	247
LIVESTOCK HANDLING	110	7	-	-	-	-	-	N/A	15
SPACE HEATING	-	-	-	2927	-	-	6	N/A	291
VENTILATION	-	-	-	-	-	-	43	N/A	283
WATER HEATING	-	-	-	1251	-	-	20	N/A	189
MILKING	-	-	-	-	-	-	15	N/A	51
MILK COOLING	-	-	-	-	-	-	25	N/A	86
EGG HANDLING	-	-	-	-	-	-	1	N/A	3
BROODING	-	-	139	3858	58	990	-	N/A	469
FARM VEHICLES	6313	4941	-	-	-	-	-	N/A	1474
FARM AUTO-LVSTK	1277	-	-	-	-	-	-	N/A	160
OTHER	1723	-	-	-	-	-	5	N/A	231
TOTAL-LIVESTOCK	14995	13603	147	8135	58	990	286	N/A	5615
TOTAL-AGRICULTURE	130047	60977	147	62339	39	990	393	31795	65175

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

IOWA

ENERGY AND AGRICULTURE, 1974 DATA PASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)B/	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	5209	44274	-	160	-	-	-	-	6821
PLANT	2843	16035	-	53	-	-	-	-	2584
CULTIVATE	3294	15600	-	77	-	-	-	-	2583
HARVEST	45280	26912	-	999	-	-	-	-	9488
FARM PICKUP	78697	3	-	-	-	-	-	-	9837
FERTILIZER APPLC.	3205	48	-	104	-	-	-	-	417
PESTICIDE APPLC.	3804	109	-	87	-	-	-	-	499
FARM TRUCK	35904	P	-	-	-	-	-	-	4489
FARM AUTO-CROPS	21625	-	-	-	-	-	-	-	2703
GRAIN HNDLNG(VEHS)	1586	-	-	-	-	-	-	-	198
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	17
CROP DRYING(ON-FM)	-	-	-	88612	38	-	70	-	8740
IRRIGATION	280	340	-	79	-	-	2	-	98
FERTILIZER	-	-	-	-	-	-	-	44891	44891
PESTICIDES	-	-	-	-	-	-	-	3908	3908
ELECTRICITY	-	-	-	-	-	-	121	-	413
MISCELLANEOUS	274	758	-	-	-	-	-	-	139
TOTAL-CROPS	202091	104107	-	90171	39	-	198	48800	97827
OPERATIONS-LIVESTOCK									
LIGHTING	-	-	-	-	-	-	85	N/A	292
FEED HANDLING	6130	14521	-	101	-	-	65	N/A	3013
WASTE DISP.(VEHS)	3204	10252	-	53	-	-	-	N/A	1827
WASTE DISP.(MACH)	-	-	-	7	149	-	7	N/A	39
WATER SUPPLY	-	-	-	-	-	-	373	N/A	1272
LIVESTOCK HANDLING	81	8	-	1	-	-	-	N/A	11
SPACE HEATING	-	-	-	20621	-	-	51	N/A	2144
VENTILATION	-	-	-	-	-	-	327	N/A	1116
WATER HEATING	-	-	-	2315	-	-	38	N/A	350
MILKING	-	-	-	-	-	-	27	N/A	94
MILK COOLING	-	-	-	-	-	-	-	N/A	159
EGG HANDLING	-	-	-	-	-	-	47	N/A	1
BROODING	-	-	52	4966	-	249	-	N/A	187
FARM VEHICLES	25466	19610	-	-	-	-	-	N/A	5903
FARM AUTO-LVSTK	6416	-	-	-	-	-	-	N/A	802
OTHER	3323	-	-	-	-	-	10	N/A	451
TOTAL-LIVESTOCK	44620	44391	59	28206	-	249	1032	N/A	17963
TOTAL-AGRICULTURE	246711	148498	59	118577	58	249	1230	48800	115790

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

KANSAS

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^B	BTU TOTAL (BILLION)
PREPLANT	472	75817	-	174	-	-	-	-	10591
PLANT	-	13657	-	-	-	-	-	-	1894
CULTIVATE	9	7102	-	3	-	-	-	-	986
HARVEST	31665	22599	-	10779	-	-	-	-	8122
FARM PICKUP	73801	5	-	22	-	-	-	-	9228
FERTILIZER APPLIC.	134	2607	-	49	-	-	-	-	383
PESTICIDE APPLIC.	105	1416	-	39	-	-	-	-	213
FARM TRUCK	38170	-	-	-	-	-	-	-	4771
FARM AUTO-CROPS	31353	-	-	-	-	-	-	-	3919
GRAIN HNDLING(VEHS)	712	-	-	-	-	-	-	-	89
GRAIN HNDLING(MACH)	-	-	-	-	-	-	2	-	6
CROP DRYING(ON-FM)	-	-	-	15641	5	-	22	-	1575
IRRIGATION	2429	8726	-	17389	19383	-	134	-	23421
FERTILIZER	-	-	-	-	-	-	-	32149	32149
PESTICIDES	-	-	-	-	-	-	-	1299	1299
ELECTRICITY	-	-	-	-	-	-	108	-	369
MISCELLANEOUS	1490	992	-	-	-	-	-	-	324
TOTAL-CROPS	180336	132921	-	44095	19388	-	266	33448	99340
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	53	N/A	180
FEED HANDLING	3863	24467	-	1415	-	-	4	N/A	4025
WASTE DISP.(VEHS)	1258	876	-	461	-	-	-	N/A	323
WASTE DISP.(MACH)	-	-	-	43	-	-	-	N/A	5
WATER SUPPLY	-	-	-	-	-	-	11	N/A	38
LIVESTOCK HANDLING	2000	2	-	732	-	-	-	N/A	320
SPACE HEATING	-	-	-	246	-	-	-	N/A	25
VENTILATION	-	-	-	-	-	-	6	N/A	22
WATER HEATING	-	-	-	1499	-	-	2	N/A	150
MILKING	-	-	-	-	-	-	13	N/A	43
MILK COOLING	-	-	-	-	-	-	19	N/A	64
BROODING	-	-	15	455	2	-	-	N/A	47
FARM VEHICLES	2820	1	-	1	-	-	-	N/A	353
FARM AUTO-LVSTK	1839	-	-	-	-	-	-	N/A	230
OTHER	1511	131	-	-	-	-	4	N/A	219
TOTAL-LIVESTOCK	13290	25476	15	4853	2	-	112	N/A	5045
TOTAL-AGRICULTURE	193626	158397	15	48948	19393	-	378	33448	105385

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIED SOLUTION).

KENTUCKY

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (BILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	1519	9224	-	-	-	-	-	-	1469
PLANT	1704	2992	-	-	-	-	-	-	628
CULTIVATE	895	4804	-	-	-	-	-	-	778
HARVEST	15403	3187	-	-	-	-	-	-	2357
FARM PICKUP	7452	3	-	-	-	-	-	-	932
FERTILIZER APPLC.	429	4100	-	-	-	-	-	-	642
PESTICIDE APPLC.	205	1341	-	-	-	-	-	-	211
FARM TRUCK	8505	-	-	-	-	-	-	-	1063
FARM AUTO-CROPS	10693	-	-	-	-	-	-	-	1337
GRAIN HNDLNG(VEHS)	327	-	-	-	-	-	-	-	41
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	2
CROP DRYING(ON-FM)	-	-	-	7144	4	-	-	-	694
IRRIGATION	332	47	-	-	-	-	-	-	48
FERTILIZER	-	-	-	-	-	-	-	12545	12545
PESTICIDES	-	-	-	-	-	-	-	571	601
ELECTRICITY	-	-	-	-	-	-	24	-	82
MISCELLANEOUS	-	131	-	-	-	-	-	-	18
TOTAL-CROPS	47524	25917	-	7144	4	-	27	13146	25460
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (BILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	16	N/A	56
FEED HANDLING	2122	3396	-	-	-	-	13	N/A	781
WASTE DISP.(VEHS)	1975	1526	-	-	-	-	-	N/A	459
WASTE DISP.(MACH)	-	-	-	44	-	-	-	N/A	21
WATER SUPPLY	-	-	-	-	-	-	38	N/A	130
LIVESTOCK HANDLING	18	-	-	-	-	-	-	N/A	2
SPACE HEATING	-	-	-	456	-	-	2	N/A	50
VENTILATION	-	-	-	-	-	-	35	N/A	120
WATER HEATING	-	-	-	1689	-	-	27	N/A	254
MILKING	-	-	-	-	-	-	20	N/A	68
MILK COOLING	-	-	-	-	-	-	34	N/A	116
BROODING	-	-	5	709	2	56P	-	N/A	83
FARM VEHICLES	6737	493	-	-	-	-	-	N/A	910
FARM AUTO-LVSTK	2014	-	-	-	-	-	-	N/A	252
OTHER	4812	1779	-	-	-	-	5	N/A	864
TOTAL-LIVESTOCK	17679	7194	6	2898	2	568	196	N/A	4168
TOTAL-AGRICULTURE	65203	33111	6	10042	6	56P	223	13146	27628

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

LOUISIANA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	3993	19743	-	3337	-	-	-	-	3556
PLANT	601	3904	-	502	-	-	-	-	665
CULTIVATE	1772	9618	-	1491	-	-	-	-	1697
HARVEST	1573	18076	-	1315	-	-	-	-	2829
FARM PICKUP	10011	-	-	2595	-	-	-	-	1499
FERTILIZER APPLIC.	55	473	-	46	-	-	-	-	77
PESTICIDE APPLIC.	353	1649	-	295	-	-	-	-	301
FARM TRUCK	3335	-	-	-	-	-	-	-	417
FARM AUTO-CROPS	4217	-	-	-	-	-	-	-	527
GRAIN HNDLNG(VEHNS)	68	-	-	-	-	-	-	-	9
CROP DRYING(ON-FM)	-	-	-	1422	15	-	7	-	174
IRRIGATION	4673	6313	-	1321	528	-	31	-	2233
FERTILIZER	-	-	-	-	-	-	-	309	7309
PESTICIDES	-	-	-	-	-	-	-	3026	3026
ELECTRICITY	-	-	-	-	-	-	20	-	76
MISCELLANEOUS	5572	1700	-	-	-	-	-	-	932
TOTAL-CROPS	36244	61475	-	12315	543	-	58	10335	25322.
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	12	N/A	41
FEED HANDLING	662	1522	-	594	-	-	5	N/A	365
WASTE DISP.(VEHNS)	832	97	-	495	-	-	-	N/A	184
WASTE DISP.(MACH)	-	-	-	73	36	-	-	N/A	44
WATER SUPPLY	-	-	-	-	-	-	7	N/A	25
LIVESTOCK HANDLING	12	-	-	18	-	-	-	N/A	2
SPACE HEATING	-	-	-	143	-	-	-	N/A	15
VENTILATION	-	-	-	-	-	-	12	N/A	41
WATER HEATING	-	-	-	1174	-	-	6	N/A	134
MILKING	-	-	-	-	-	-	11	N/A	39
MILK COOLING	-	-	-	-	-	-	17	N/A	58
BREEDING	-	-	-	1330	306	-	-	N/A	439
FARM VEHICLES	1440	518	-	369	-	-	-	N/A	290
FARM AUTO-LVSTK	313	-	-	-	-	-	-	N/A	39
OTHER	1927	1187	-	263	-	-	3	N/A	327
TOTAL-LIVESTOCK	4286	3341	-	4612	342	-	75	N/A	2044
TOTAL-AGRICULTURE	40520	64917	-	16927	895	-	133	10335	27366

(*) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (*) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS).

MAINE

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	200	1213	-	1	-	-	-	-	193
PLANT	14	402	-	-	-	-	-	-	57
CULTIVATE	16	541	-	-	-	-	-	-	77
HARVEST	1824	896	-	8	-	-	-	-	353
FARM PICKUP	1364	26	-	9	-	-	-	-	175
FERTILIZER APPLIC.	47	30	-	-	-	-	-	-	10
PESTICIDE APPLIC.	14	1181	-	-	-	-	-	-	166
FARM TRUCK	3787	6	-	-	-	-	-	-	464
FARM AUTO-CROPS	2395	-	-	-	-	-	-	-	299
IRRIGATION	142	41	-	4	-	-	-	-	24
FERTILIZER	-	-	-	-	-	-	-	1105	1105
PESTICIDES	-	-	-	-	-	-	-	225	225
ELECTRICITY	-	-	-	-	-	-	2	-	8
MISCELLANEOUS	-	29	-	-	-	-	-	-	4
TOTAL-CROPS	9722	4364	-	23	-	-	2	1331	3162
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	22	N/A	74
FEED HANDLING	285	87	-	1	-	-	6	N/A	68
WASTE DTSP. (VEHRS)	1719	14	-	6	-	-	-	N/A	167
WASTE DTSP. (MACH)	-	-	164	70	-	-	-	N/A	30
WATER SUPPLY	-	-	-	-	-	-	3	N/A	10
LIVESTOCK HANDLING	80	-	-	-	-	-	-	N/A	18
SPACE HEATING	-	-	-	31	-	-	-	N/A	3
VENTILATION	-	-	-	-	-	-	24	N/A	82
WATER HEATING	-	-	-	249	-	-	6	N/A	45
MILKING	-	-	-	-	-	-	4	N/A	13
MILK COOLING	-	-	-	-	-	-	7	N/A	24
EGG HANDLING	-	-	-	-	-	-	1	N/A	4
BROODING	-	-	3572	151	-	-	-	N/A	510
FARM VEHICLES	150	62	-	1	-	-	-	N/A	28
FARM AUTO-LVSTK	1146	-	-	-	-	-	-	N/A	143
OTHER	756	-	-	5	-	-	1	N/A	98
TOTAL-LIVESTOCK	3734	164	3736	514	-	-	74	N/A	1311
TOTAL-AGRICULTURE	13456	4526	3736	537	-	-	76	1331	4473

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

MARYLAND

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
PREPLANT	363	5669	-	-	-	-	-	-	832
PLANT	253	907	-	-	-	-	-	-	157
CULTIVATE	135	638	-	-	-	-	-	-	105
HARVEST	5050	1518	-	-	-	-	-	-	842
FARM PICKUP	7996	16	-	-	-	-	-	-	1002
FERTILIZER APPLIC.	125	166	-	-	-	-	-	-	39
PESTICIDE APPLIC.	32	676	-	-	-	-	-	-	98
FARM TRUCK	4090	7	-	-	-	-	-	-	512
FARM AUTO-CROPS	2309	-	-	-	-	-	-	-	289
CROP DRYING(ON-FM)	-	-	-	1663	-	-	-	-	162
IRRIGATION	281	301	-	224	-	-	1	-	101
FERTILIZER	-	-	-	-	-	-	-	4144	4144
PESTICIDES	-	-	-	-	-	-	-	281	281
ELECTRICITY	-	-	-	-	-	-	8	-	28
MISCELLANEOUS	-	1531	-	-	-	-	-	-	212
TOTAL-CROPS	20633	11429	-	1887	-	-	19	4425	8904
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	21	N/A	73
FEED HANDLING	876	425	-	-	-	-	8	N/A	194
WASTE DISP.(VEH)	1583	154	-	-	-	-	-	N/A	219
WASTE DISP.(MACH)	-	-	-	82	-	-	3	N/A	17
WATER SUPPLY	-	-	-	-	-	-	8	N/A	28
LIVESTOCK HANDLING	13	-	-	-	-	-	-	N/A	2
SPACE HEATING	-	-	-	205	-	-	-	N/A	21
VENTILATION	-	-	-	-	-	-	32	N/A	108
WATER HEATING	-	-	-	1022	-	-	7	N/A	123
MILKING	-	-	-	-	-	-	9	N/A	31
MILK COOLING	-	-	-	-	-	-	14	N/A	55
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	419	8156	-	-	-	N/A	837
FARM VEHICLES	586	375	-	-	-	-	-	N/A	108
FARM AUTO-LVSTK	718	-	-	-	-	-	-	N/A	90
OTHER	1162	-	-	-	-	-	2	N/A	153
TOTAL-LIVESTOCK	4858	903	419	9465	-	-	107	N/A	2059
TOTAL-AGRICULTURE	25491	12332	419	11352	-	-	117	4425	10863

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

MASSACHUSETTS

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	CALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^A	BTU TOTAL (BILLION)
PREPLANT	133	565	-	-	-	-	-	-	95
PLANT	21	54	-	-	-	-	-	-	10
CULTIVATE	17	192	-	-	-	-	-	-	29
HARVEST	1353	266	-	30	-	-	-	-	209
FARM PICKUP	842	30	-	-	-	-	-	-	109
FERTILIZER APPLIC.	52	22	-	1	-	-	-	-	10
PESTICIDE APPLIC.	12	242	-	-	-	-	-	-	35
FARM TRUCK	859	38	-	-	-	-	-	-	113
FARM AUTO-CROPS	1324	-	-	-	-	-	-	-	165
IRRIGATION	426	-	-	78	-	-	1	-	63
FROST PROTECTION	61	101	562	14	-	-	-	-	101
FERTILIZER	-	-	-	-	-	-	-	523	523
PESTICIDES	-	-	-	-	-	-	-	59	59
ELECTRICITY	-	-	-	-	-	-	1	-	3
MISCELLANEOUS	-	27	-	-	-	-	-	-	4
TOTAL-CROPS	5102	1538	562	129	-	-	2	582	1538
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	CALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	6	N/A	28
FEED HANDLING	269	48	-	6	-	-	2	N/A	49
WASTE DISP.(VEHS)	740	18	-	16	-	-	-	N/A	97
WASTE DISP.(MACH)	-	-	24	23	-	-	1	N/A	8
WATER SUPPLY	-	-	-	-	-	-	2	N/A	8
LIVESTOCK HANDLING	23	-	-	-	-	-	-	N/A	3
SPACE HEATING	-	-	-	53	-	-	-	N/A	5
VENTILATION	-	-	-	-	-	-	6	N/A	22
WATER HEATING	-	-	-	400	-	-	3	N/A	50
MILKING	-	-	-	-	-	-	4	N/A	12
MILK COOLING	-	-	-	-	-	-	7	N/A	23
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	135	134	-	-	-	N/A	31
FARM VEHICLES	131	37	-	-	-	-	-	N/A	21
FARM AUTO-LVSTK	471	-	-	-	-	-	-	N/A	59
OTHER	628	-	-	-	-	-	1	N/A	81
TOTAL-LIVESTOCK	2262	103	159	642	-	-	33	N/A	492
TOTAL-AGRICULTURE	7364	1641	721	771	-	-	35	582	2022

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

MICHIGAN

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)B/ BTU TOTAL (BILLION)
OPERATIONS-CROPS								
PREPLANT	1757	12925	-	35	-	-	-	2016
PLANT	1713	3553	-	31	-	-	-	719
CULTIVATE	524	4227	-	10	-	-	-	653
HARVEST	15383	12503	-	277	-	-	-	3684
FARM PICKUP	25433	186	-	-	-	-	-	3205
FERTILIZER APPLIC.	1222	278	-	25	-	-	-	154
PESTICIDE APPLIC.	1225	1942	-	23	-	-	-	425
FARM TRUCK	13095	189	-	-	-	-	-	1663
FARM AUTO-CROPS	9655	-	-	-	-	-	-	1287
GRAIN HNDLNG(VEHS)	310	-	-	-	-	-	-	39
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	2
CROP DRYING(FM)	-	-	-	10631	3	-	8	1047
IRRIGATION	227	436	-	-	-	-	38	220
FROST PROTECTION	781	1139	6331	159	-	-	-	1152
FERTILIZER	-	-	-	-	-	-	-	12559
PESTICIDES	-	-	-	-	-	-	-	1568
ELECTRICITY	-	-	-	-	-	-	33	1568
MISCELLANEOUS	112	288	-	-	-	-	-	114
TOTAL-CROPS	71436	37687	6331	11191	3	-	81	30511
OPERATIONS-LIVESTOCK								
LIGHTING	-	-	-	-	-	-	29	N/A
FEED HANDLING	1991	1122	-	34	-	-	19	N/A
WASTE DISP.(VEHS)	2807	661	-	48	-	-	-	447
WASTE DTSP.(MACH)	-	-	-	108	-	-	9	N/A
WATER SUPPLY	-	-	-	-	-	-	42	N/A
LIVESTOCK HANDLING	37	1	-	1	-	-	-	144
SPACE HEATING	-	-	-	821	-	-	2	N/A
VENTILATION	-	-	-	-	-	-	40	N/A
WATER HEATING	-	-	-	2116	-	-	42	N/A
MILKING	-	-	-	-	-	-	28	N/A
MILK COOLING	-	-	-	-	-	-	49	N/A
EGG HANDLING	-	-	-	-	-	-	1	N/A
BROODING	-	-	36	1192	-	-	-	119
FARM VEHICLES	1679	1123	-	-	-	-	-	366
FARM AUTO-LVSTK	1067	-	-	-	-	-	-	133
OTHER	3185	-	-	-	-	-	9	428
TOTAL-LIVESTOCK	10765	2907	41	4319	-	-	270	N/A
TOTAL-AGRICULTURE	82201	40594	6372	15510	3	-	351	14127
								33600

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

MINNESOTA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^B	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	4454	59503	-	92	-	-	-	-	8818
PLANT	3641	17839	-	69	-	-	-	-	2936
CULTIVATE	1854	14369	-	39	-	-	-	-	2228
HARVEST	47631	22201	-	842	-	-	-	-	9113
FARM PICKUP	65001	6	-	-	-	-	-	-	8126
FERTILIZER APPLIC.	3196	369	-	61	-	-	-	-	457
PESTICIDE APPLIC.	3546	1140	-	72	-	-	-	-	608
FARM TRUCK	31890	2	-	-	-	-	-	-	3986
FARM AUTO-CROPS	32842	-	-	-	-	-	-	-	4105
GRAIN HNDLNG(VEHS)	1213	-	-	-	-	-	-	-	152
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	12
CROP DRYING(ON-FM)	-	-	-	38554	15	-	31	-	3803
IRRIGATION	343	1657	-	576	-	-	31	-	433
FERTILIZER	-	-	-	-	-	-	-	32853	32853
PESTICIDES	-	-	-	-	-	-	-	2657	2657
ELECTRICITY	-	-	-	-	-	-	104	-	355
MISCELLANEOUS	3568	355	-	-	-	-	-	-	494
TOTAL-CROPS	199173	117443	-	40305	15	-	169	35510	81138
OPERATIONS-LIVESTOCK									
LIGHTING	-	-	-	-	-	-	74	N/A	254
FEED HANDLING	4075	5811	-	66	-	-	41	N/A	1461
WASTE DISP.(VEHS)	5046	4163	-	82	-	-	-	N/A	1216
WASTE DISP.(MACH)	-	-	7	205	-	-	6	N/A	42
WATER SUPPLY	-	-	-	-	-	-	170	N/A	580
LIVESTOCK HANDLING	127	16	-	2	-	-	-	N/A	18
SPACE HEATING	-	-	-	6271	-	-	17	N/A	656
VENTILATION	-	-	-	-	-	-	151	N/A	516
WATER HEATING	-	-	-	2149	-	-	136	N/A	669
MILKING	-	-	-	-	-	-	56	N/A	192
MILK COOLING	-	-	-	-	-	-	99	N/A	339
EGG HANDLING	-	-	-	-	-	-	1	N/A	2
BROODING	-	-	64	19069	-	314	-	N/A	1837
FARM VEHICLES	8239	6346	-	-	-	-	-	N/A	1910
FARM AUTO-LVSTK	5482	-	-	-	-	-	-	N/A	685
OTHER	7881	-	-	-	-	-	8	N/A	1012
TOTAL-LIVESTOCK	30849	16336	71	27845	-	314	760	N/A	11390
TOTAL-AGRICULTURE	230022	133779	71	68150	15	314	929	35510	92528

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

MISSISSIPPI

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION ^{A/}
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^{B/}	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	5476	19146	-	1251	-	-	-	-	3460
PLANT	1561	3065	-	348	-	-	-	-	653
CULTIVATE	5015	11495	-	1113	-	-	-	-	2327
HARVEST	4327	16077	-	929	-	-	-	-	2859
FARM PICKUP	11826	-	-	1615	-	-	-	-	1633
FERTILIZER APPLIC.	446	299	-	110	-	-	-	-	108
PESTICIDE APPLIC.	1886	2656	-	503	-	-	-	-	652
FARM TRUCK	800	5	-	-	-	-	-	-	101
FARM AUTO-CROPS	4511	-	-	-	-	-	-	-	564
GRAIN HNDLNG(VEHS)	50	-	-	-	-	-	-	-	6
CROP DRYING(ON-FM)	-	-	-	409	15	-	2	-	69
IRRIGATION	799	5341	-	1516	-	-	24	-	1066
FERTILIZER	-	-	-	-	-	-	-	10996	10996
PESTICIDES	-	-	-	-	-	-	-	5212	5212
ELECTRICITY	-	-	-	-	-	-	28	-	97
MISCELLANEOUS	-	194	-	-	-	-	-	-	27
TOTAL-CROPS	36696	58280	-	7884	15	-	54	16209	29831
OPERATIONS-LIVESTOCK									
	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	39	N/A	103
FEED HANDLING	1892	2522	-	196	-	-	11	N/A	541
WASTE DISP.(VEHS)	1558	288	-	280	-	-	-	N/A	261
WASTE DISP.(MACH)	-	-	-	281	20	-	2	N/A	53
WATER SUPPLY	-	-	-	-	-	-	14	N/A	47
LIVESTOCK HANDLING	77	3	-	14	-	-	-	N/A	11
SPACE HEATING	-	-	-	220	-	-	-	N/A	23
VENTILATION	-	-	-	-	-	-	3P	N/A	102
WATER HEATING	-	-	-	1138	-	-	6	N/A	129
MILKING	-	-	-	-	-	-	11	N/A	37
MILK COOLING	-	-	-	-	-	-	16	N/A	54
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	-	8687	208	-	-	N/A	1842
FARM VEHICLES	3792	739	-	422	-	-	-	N/A	617
FARM AUTO-LVSTK	688	-	-	-	-	-	-	N/A	86
OTHER	2076	1895	-	231	-	-	3	N/A	555
TOTAL-LIVESTOCK	9283	5447	-	11469	228	-	123	N/A	3664
TOTAL-AGRICULTURE	45979	63727	-	19353	243	-	177	16209	33495

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

MISSOURI

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION &/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHTS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	4930	20318	-	394	-	-	-	-	3360
PLANT	2491	6790	-	294	-	-	-	-	1275
CULTIVATE	1996	7498	-	195	-	-	-	-	1296
HARVEST	25698	9336	-	2543	-	-	-	-	4750
FARM PICKUP	53256	16	-	-	-	-	-	-	6659
FERTILIZER APPLTC.	2674	242	-	263	-	-	-	-	393
PESTICIDE APPLTC.	2126	965	-	299	-	-	-	-	419
FARM TRUCK	17794	4	-	-	-	-	-	-	2225
FARM AUTO-CROPS	18212	-	-	-	-	-	-	-	2277
GRAIN HNDLNG(VEHS)	640	-	-	-	-	-	-	-	80
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	3
CROP DRYING(ON-FM)	-	-	-	16993	18	-	17	-	1698
IRRIGATION	856	445	-	1442	3	-	4	-	531
FERTILIZER	-	-	-	-	-	-	-	25291	25291
PESTICIDES	-	-	-	-	-	-	-	1538	1538
ELECTRICITY	-	-	-	-	-	-	68	-	232
MISCELLANEOUS	-	288	-	-	-	-	-	-	40
TOTAL-CROPS	129765	45812	-	22281	21	-	92	26829	51868
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHTS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	35	N/A	119
FEED HANDLING	5623	12780	-	549	-	-	20	N/A	2596
WASTE DTSP.(VEHS)	2743	2563	-	288	-	-	-	N/A	751
WASTE DISP.(MACH)	-	-	4	105	-	-	3	N/A	20
WATER SUPPLY	-	-	-	-	-	-	109	N/A	372
LIVESTOCK HANDLING	56	8	-	5	-	-	-	N/A	9
SPACE HEATING	-	-	-	6918	-	-	15	N/A	624
VENTILATION	-	-	-	-	-	-	102	N/A	347
WATER HEATING	-	-	-	2838	-	-	8	N/A	298
MILKING	-	-	4	-	-	-	25	N/A	84
MILK COOLING	-	-	-	-	-	-	38	N/A	131
EGG HANDLING	-	-	-	-	-	-	1	N/A	2
BROODING	-	-	68	4054	-	-	-	N/A	396
FARM VEHICLES	9998	9756	-	-	-	-	-	N/A	2603
FARM AUTO-LVSTK	2976	-	-	-	-	-	-	N/A	372
OTHER	1806	-	-	-	-	-	8	N/A	252
TOTAL-LIVESTOCK	23403	25107	72	13857	-	-	362	N/A	8978
TOTAL-AGRICULTURE	153168	70919	72	36138	21	-	454	26829	60846

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

MONTANA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) B/	BTU TOTAL (BILLION)
PREPLANT	832	30353	-	-	-	-	-	-	4314
PLANT	7	3992	-	-	-	-	-	-	555
CULTIVATE	-	284	-	-	-	-	-	-	39
HARVEST	14893	4125	-	-	-	-	-	-	2434
FARM PICKUP	20887	-	-	4	-	-	-	-	2611
FERTILIZER APPLIC.	382	1358	-	-	-	-	-	-	236
PESTICIDE APPLIC.	98	2037	-	-	-	-	-	-	295
FARM TRUCK	12600	-	-	-	-	-	-	-	1575
FARM AUTO-CROPS	9756	-	-	-	-	-	-	-	1219
GRAIN HNDLNG(VEHS)	369	-	-	-	-	-	-	-	46
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	1	-	4
IRRIGATION	1290	2853	-	281	8	-	178	-	1200
FERTILIZER	-	-	-	-	-	-	-	6137	6137
PESTICIDES	-	-	-	-	-	-	-	165	165
ELECTRICITY	-	-	-	-	-	-	47	-	161
MISCELLANEOUS	960	22	-	-	-	-	-	-	123
TOTAL-CROPS	52074	45025	-	285	8	-	227	6302	21115
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	9	N/A	50
FEED HANDLING	2009	24	-	-	-	-	1	N/A	259
WASTE DISP.(VEHS)	241	14	-	-	-	-	-	N/A	32
WASTE DISP.(MACH)	-	-	-	17	-	-	-	N/A	3
WATER SUPPLY	-	-	-	-	-	-	8	N/A	20
LIVESTOCK HANDLING	7	42	-	-	-	-	-	N/A	7
SPACE HEATING	-	-	-	27	-	-	5	N/A	18
VENTILATION	-	-	-	-	-	-	2	N/A	5
WATER HEATING	-	-	-	202	-	-	1	N/A	22
MILKING	-	-	-	-	-	-	2	N/A	6
MILK COOLING	-	-	-	-	-	-	3	N/A	10
BROODING	-	-	-	180	-	41	-	N/A	18
FARM VEHICLES	2504	1	-	-	-	-	-	N/A	313
FARM AUTO-LVSTK	389	-	-	-	-	-	-	N/A	49
OTHER	467	-	-	-	-	-	1	N/A	62
TOTAL-LIVESTOCK	5518	82	-	426	-	41	29	N/A	854
TOTAL-AGRICULTURE	57692	45107	-	711	P	41	256	6302	21969

A/A DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. B/B INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

NEBRASKA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	957	24091	-	244	-	-	-	-	3484
PLANT	67	5678	-	17	-	-	-	-	797
CULTIVATE	103	10349	-	28	-	-	-	-	1451
HARVEST	24755	34980	-	6244	-	-	-	-	8542
FARM PICKUP	45837	-	-	-	-	-	-	-	5730
FERTILIZER APPLTC.	354	1856	-	90	-	-	-	-	310
PESTICIDE APPLIC.	140	2083	-	36	-	-	-	-	510
FARM TRUCK	31098	-	-	-	-	-	-	-	3887
FARM AUTO-CROPS	26960	-	-	-	-	-	-	-	3370
GRAIN HNDLNG(VEHS)	1099	-	-	-	-	-	3	-	9
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	25	-	3083
CROP DRYING(ON-FM)	-	-	-	31340	5	-	937	-	25598
IRRIGATION	4855	42094	-	103131	6167	-	-	-	48823
FERTILIZER	-	-	-	-	-	-	-	-	40823
PESTICIDES	-	-	-	-	-	-	-	-	2009
ELECTRICITY	-	-	-	-	-	-	89	-	2009
MISCELLANEOUS	1978	1429	-	-	-	-	-	-	305
TOTAL-CROPS	138203	122561	-	139130	6173	-	1054	42832	100293
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	77	N/A	262
FEED HANDLING	5253	19009	-	1340	-	-	4	N/A	3436
WASTE DISP.(VEHS)	1305	543	-	333	-	-	-	N/A	270
WASTE DISP.(MACH)	-	-	-	56	-	-	1	N/A	9
WATER SUPPLY	-	-	-	-	-	-	11	N/A	37
LIVESTOCK HANDLING	1478	1	-	377	-	-	-	N/A	221
SPACE HEATING	-	-	-	221	-	-	-	N/A	22
VENTILATION	-	-	-	-	-	-	8	N/A	28
WATER HEATING	-	-	-	1570	-	-	3	N/A	159
MILKING	-	-	-	-	-	-	14	N/A	46
MILK COOLING	-	-	-	-	-	-	20	N/A	69
BROODING	-	-	13	626	2	-	-	N/A	64
FARM VEHICLES	3943	1	-	-	-	-	-	N/A	493
FARM AUTO-LVSTK	1379	-	-	-	-	-	-	N/A	172
OTHER	1428	142	-	-	-	-	4	N/A	211
TOTAL-LIVESTOCK	14786	19696	13	4523	2	-	141	N/A	5499
TOTAL-AGRICULTURE	152989	142257	13	143653	6175	-	1195	42832	105792

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY
 DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING
 CARRIER SOLUTION).

NEVADA

ENERGY AND AGRICULTURE, 1974 DATA BASE, SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	358	100	-	-	-	-	-	-	58
PLANT	20	27	-	-	-	-	-	-	6
CULTIVATE	-	21	-	-	-	-	-	-	3
HARVEST	1571	43	-	-	-	-	-	-	202
FARM PICKUP	741	-	-	-	-	-	-	-	99
FERTILIZER APPLIC.	57	16	-	-	-	-	-	-	9
PESTICIDE APPLIC.	27	1	-	-	-	-	-	-	3
FARM TRUCK	176	-	-	-	-	-	-	-	22
FARM AUTO-CROPS	187	-	-	-	-	-	-	-	23
IRRIGATION	494	4679	-	629	-	-	381	-	2072
FERTILIZER	-	-	-	-	-	-	-	401	401
PESTICIDES	-	-	-	-	-	-	-	17	17
ELECTRICITY	-	-	-	-	-	-	-	-	8
MISCELLANEOUS	165	13	-	-	-	-	2	-	22
TOTAL-CROPS	3848	4991	-	629	-	-	384	419	2948
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	-	N/A	16
FEED HANDLING	2042	28	-	-	-	-	2	N/A	265
WASTE DISP. (VEHS)	162	7	-	-	-	-	-	N/A	21
WATER SUPPLY	-	-	-	-	-	-	-	N/A	6
LIVESTOCK HANDLING	-	13	-	-	-	-	-	N/A	2
SPACE HEATING	-	-	-	10	-	-	3	N/A	10
VENTILATION	-	-	-	-	-	-	1	N/A	2
WATER HEATING	-	-	-	175	-	-	-	N/A	17
MILKING	-	-	-	-	-	-	2	N/A	6
MILK COOLING	-	-	-	-	-	-	2	N/A	7
FARM VEHICLES	1323	-	-	-	-	-	-	N/A	165
FARM AUTO-LVSTK	35	-	-	-	-	-	-	N/A	4
OTHER	559	-	-	-	-	-	1	N/A	72
TOTAL-LIVESTOCK	4121	48	-	180	-	-	15	N/A	535
TOTAL-AGRICULTURE	7969	4949	-	818	-	-	400	419	3543

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

NEW HAMPSHIRE

ENERGY AND AGRICULTURE: 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KW-HRS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	67	371	-	-	7	-	-	-	60
PLANT	10	81	-	-	1	-	-	-	12
CULTIVATE	1	73	-	-	-	-	-	-	113
HARVEST	583	256	-	-	51	-	-	-	26
FARM PICKUP	190	14	-	-	-	-	-	-	3
FERTILIZER APPLTC.	15	7	-	-	1	-	-	-	9
PESTICIDE APPLIC.	-	66	-	-	-	-	-	-	41
FARM TRUCK	326	2	-	-	-	-	-	-	132
FARM AUTO-CROPS	1059	-	-	-	-	-	-	-	15
IRRIGATION	76	40	-	-	-	-	-	304	304
FERTILIZER	-	-	-	-	-	-	-	25	25
PESTICIDES	-	-	-	-	-	-	-	-	2
ELECTRICITY	-	-	-	-	-	-	-	-	1
MISCELLANEOUS	-	5	-	-	-	-	-	-	-
TOTAL-CROPS	2324	914	-	-	60	-	-	329	754
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KW-HRS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	3	N/A	11
FEED HANDLING	84	64	-	-	7	-	2	N/A	26
WASTE DISP.(VEHS)	318	16	-	-	27	-	-	N/A	45
WASTE DISP.(MACH)	-	-	-	15	12	-	-	N/A	4
WATER SUPPLY	-	-	-	-	-	-	2	N/A	4
LIVESTOCK HANDLING	11	-	-	-	1	-	-	N/A	1
SPACE HEATING	-	-	-	-	22	-	-	N/A	2
VENTILATION	-	-	-	-	-	-	3	N/A	11
WATER HEATING	-	-	-	-	125	-	-	N/A	26
MILKING	-	-	-	-	-	-	2	N/A	8
MILK COOLING	-	-	-	-	-	-	4	N/A	13
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	-	75	66	-	-	N/A	17
FARM VEHICLES	35	48	-	-	-	-	-	N/A	11
FARM AUTO-LVSTK	419	-	-	-	-	-	-	N/A	52
OTHER	120	-	-	-	-	-	1	N/A	17
TOTAL-LIVESTOCK	988	128	0	320	-	-	20	N/A	251
TOTAL-AGRICULTURE	3312	1042	0	380	-	-	21	329	1005

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

NEW JERSEY

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S B/ (BILLION)	BTU TOTAL (BILLION)
PREPLANT	125	1560	-	2	-	-	-	-	232
PLANT	38	281	-	-	-	-	-	-	44
CULTIVATE	25	499	-	-	-	-	-	-	72
HARVEST	2502	496	-	34	-	-	-	-	385
FARM PICKUP	3397	26	-	-	-	-	-	-	428
FERTILIZER APPLIC.	47	138	-	1	-	-	-	-	25
PESTICIDE APPLIC.	17	632	-	-	-	-	-	-	90
FARM TRUCK	2702	25	-	-	-	-	-	-	341
FARM AUTO-CROPS	1757	-	-	-	-	-	-	-	220
IRRIGATION	4186	545	-	372	-	-	6	-	654
FERTILIZER	-	-	-	-	-	-	-	1654	1654
PESTICIDES	-	-	-	-	-	-	-	291	291
ELECTRICITY	-	-	-	-	-	-	3	-	11
MISCELLANEOUS	-	265	-	-	-	-	-	-	39
TOTAL-CROPS	14797	4485	-	409	-	-	9	1945	4486
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	8	N/A	27
FEED HANDLING	170	61	-	2	-	-	3	N/A	41
WASTE DTSP. (VEHS)	400	25	-	5	-	-	-	N/A	54
WASTE DTSP. (MACH)	-	-	41	38	-	-	1	N/A	12
WATER SUPPLY	-	-	-	-	-	-	3	N/A	10
LIVESTOCK HANDLING	20	-	-	-	-	-	-	N/A	3
SPACE HEATING	-	-	-	58	-	-	-	N/A	6
VENTILATION	-	-	-	-	-	-	10	N/A	35
WATER HEATING	-	-	-	266	-	-	4	N/A	40
MILKING	-	-	-	-	-	-	4	N/A	12
MILK COOLING	-	-	-	-	-	-	6	N/A	21
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	17	279	1	-	-	N/A	30
FARM VEHICLES	128	50	-	-	-	-	-	N/A	23
FARM AUTO-LVSTK	153	-	-	-	-	-	-	N/A	19
OTHER	398	-	-	-	-	-	1	N/A	52
TOTAL-LIVESTOCK	1267	136	58	650	1	-	40	N/A	387
TOTAL-AGRICULTURE	16066	4621	58	1059	1	-	49	1945	4873

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

NEW MEXICO

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	73	4537	-	15	-	-	-	-	648
PLANT	13	836	-	3	-	-	-	-	118
CULTIVATE	57	684	-	17	-	-	-	-	103
HARVEST	1142	1970	-	294	-	-	-	-	374
FARM PICKUP	2957	-	-	116	-	-	-	-	381
FERTILIZER APPLIC.	7	108	-	2	-	-	-	-	16
PESTICIDE APPLIC.	47	74	-	14	-	-	-	-	17
FARM TRUCK	936	4	-	-	-	-	-	-	318
FARM AUTO-CROPS	2479	-	-	-	-	-	-	-	3
CROP DRYING(ON-F*)	-	-	-	31	-	-	-	-	20633
IRRIGATION	7481	8580	-	17115	15163	-	404	-	1435
FERTILIZER	-	-	-	-	-	-	-	182	182
PESTICIDES	-	-	-	-	-	-	-	-	19
ELECTRICITY	-	-	-	-	-	-	6	-	51
MISCELLANEOUS	381	25	-	-	-	-	-	-	-
TOTAL-CROPS	15574	16418	-	17597	15163	-	415	1618	24402
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	15	N/A	51
FEED HANDLING	2806	767	-	591	-	-	19	N/A	579
WASTE DISP.(VEH)	540	47	-	114	-	-	-	N/A	85
WASTE DISP.(MACH)	-	-	-	26	-	-	-	N/A	3
WATER SUPPLY	-	-	-	-	-	-	3	N/A	9
LIVESTOCK HANDLING	597	2	-	126	-	-	-	N/A	87
SPACE HEATING	-	-	-	23	-	-	3	N/A	2
VENTILATION	-	-	-	-	-	-	3	N/A	11
WATER HEATING	-	-	-	397	-	-	1	N/A	41
MILKING	-	-	-	-	-	-	4	N/A	12
MILK COOLING	-	-	-	-	-	-	6	N/A	15
BROODING	-	-	-	70	1	15	-	N/A	8
FARM VEHICLES	5970	1	-	204	-	-	-	N/A	766
FARM AUTO-LVSTK	177	-	-	-	-	-	-	N/A	22
OTHER	206	3	-	7	-	-	1	N/A	30
TOTAL-LIVESTOCK	10296	821	-	1558	1	15	50	N/A	1721
TOTAL-AGRICULTURE	25870	17239	-	19155	25364	15	460	1618	26123

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

NEW YORK

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	1113	11618	-	-	6	-	-	-	1751
PLANT	401	2269	-	-	2	-	-	-	365
CULTIVATE	134	2470	-	-	1	-	-	-	359
HARVEST	22987	9379	-	-	112	-	-	-	4185
FARM PICKUP	18585	214	-	-	-	-	-	-	2353
FERTILIZER APPLIC.	849	408	-	-	4	-	-	-	163
PESTICIDE APPLIC.	171	2342	-	-	1	-	-	-	347
FARM TRUCK	15076	37	-	-	-	-	-	-	1890
FARM AUTO-CROPS	11255	-	-	-	-	-	-	-	1407
GRAIN HNDLNG(VEHS)	193	-	-	-	-	-	-	-	24
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	1
IRRIGATION	750	554	-	-	-	-	-	-	175
FROST PROTECTION	752	748	4159	-	118	-	1	-	788
FERTILIZER	-	-	-	-	-	-	-	9459	9459
PESTICIDES	-	-	-	-	-	-	-	720	720
ELECTRICITY	-	-	-	-	-	-	22	-	76
MISCELLANEOUS	-	3112	-	-	-	-	-	-	432
TOTAL-CROPS	72267	33157	4159	243	-	-	25	10179	24495
OPERATIONS-LIVESTOCK									
LIGHTING	-	-	-	-	-	-	52	N/A	179
FEED HANDLING	1704	692	-	-	8	-	32	N/A	418
WASTE DISP.(VEHS)	5120	151	-	-	25	-	-	N/A	663
WASTE DISP.(MACH)	-	-	78	-	86	3	12	N/A	62
WATER SUPPLY	-	-	-	-	-	-	31	N/A	106
LIVESTOCK HANDLING	91	-	-	-	-	-	-	N/A	11
SPACE HEATING	-	-	-	200	-	-	-	N/A	20
VENTILATION	-	-	-	-	-	-	91	N/A	309
WATER HEATING	-	-	-	3663	-	-	107	N/A	715
MILKING	-	-	-	-	-	-	57	N/A	194
MILK COOLING	-	-	-	-	-	-	178	N/A	368
EGG HANDLING	-	-	-	-	-	-	?	N/A	6
BROODING	-	-	54	989	280	1320	-	N/A	418
FARM VEHICLES	382	493	-	-	-	-	-	N/A	116
FARM AUTO-LVSTK	2476	-	-	-	-	-	-	N/A	309
OTHER	8216	-	-	-	-	-	10	N/A	1061
TOTAL-LIVESTOCK	17990	1336	132	4972	283	1320	501	N/A	4956
TOTAL-AGRICULTURE	90257	34493	4291	5215	283	1320	526	10179	29451

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

NORTH CAROLINA

ENERGY AND AGRICULTURE, 1974 DATA PAGE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION) ^b	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^a	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	1790	13253	-	-	-	-	-	-	2062
PLANT	2427	5576	-	-	-	-	-	-	1077
CULTIVATE	1247	7142	-	-	-	-	-	-	1146
HARVEST	18645	8799	-	-	-	-	-	-	3556
FARM PICKUP	13500	67	-	-	-	-	-	-	1697
FERTILIZER APPLTC.	498	4844	-	-	-	-	-	-	734
PESTICIDE APPLIC.	2097	2418	-	-	-	-	-	-	598
FARM TRUCK	14234	20	-	-	-	-	-	-	1782
FARM AUTO-CROPS	8796	-	-	-	-	-	-	-	1100
GRAIN HNDLNG(VEHS)	438	-	-	-	-	-	-	-	55
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	2
CROP DRYING(ON-FM)	-	-	42506	113230	-	-	101	-	17053
IRRIGATION	124	47	-	-	-	-	21	-	102
FROST PROTECTION	113	187	1037	2 ^c	-	-	-	-	187
FERTILIZER	-	-	-	-	-	-	-	14435	14435
PESTICIDES	-	-	-	-	-	-	-	3186	3186
ELECTRICITY	-	-	-	-	-	-	25	-	86
MISCELLANEOUS	-	175	-	-	-	-	-	-	24
TOTAL-CROPS	63949	42576	43543	113255	-	-	148	17621	48882
OPERATIONS-LIVESTOCK									
	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION) ^b	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^a	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	46	N/A	159
FEED HANDLING	3262	1685	-	-	-	-	19	N/A	706
WASTE DISP.(VEHS)	3346	1013	-	-	-	-	-	N/A	559
WASTE DISP.(MACH)	-	-	21	458	10	-	3	N/A	68
WATER SUPPLY	-	-	-	-	-	-	40	N/A	135
LIVESTOCK HANDLING	224	3	-	-	-	-	-	N/A	28
SPACE HEATING	-	-	-	574	-	-	3	N/A	63
VENTILATION	-	-	-	-	-	-	68	N/A	233
WATER HEATING	-	-	-	1249	-	-	7	N/A	144
MILKING	-	-	-	-	-	-	12	N/A	42
MILK COOLING	-	-	-	-	-	-	18	N/A	62
EGG HANDLING	-	-	-	-	-	-	1	N/A	4
BROODING	-	-	325	19373	132	7285	-	N/A	2100
FARM VEHICLES	5261	385	-	-	-	-	-	N/A	711
FARM AUTO-LVSTK	987	-	-	-	-	-	-	N/A	123
OTHER	1932	951	-	-	-	-	4	N/A	386
TOTAL-LIVESTOCK	15012	4038	346	20664	142	7285	222	N/A	5525
TOTAL-AGRICULTURE	78961	46616	43889	133919	142	7285	370	17621	54407

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

NORTH DAKOTA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION AS
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^(B)	BTU TOTAL (BILLION)
PREPLANT	1187	55476	-	81	-	-	-	-	7851
PLANT	37	18845	-	3	-	-	-	-	2619
CULTIVATE	31	2010	-	2	-	-	-	-	283
HARVEST	12575	13267	-	858	-	-	-	-	3494
FARM PICKUP	41167	-	-	-	-	-	-	-	5146
FERTILIZER APPLIC.	223	373	-	15	-	-	-	-	81
PESTICIDE APPLIC.	496	1476	-	34	-	-	-	-	270
FARM TRUCK	21090	-	-	-	-	-	-	-	2636
FARM AUTO-CROPS	15334	-	-	-	-	-	-	-	1917
GRAIN HNDLNG(VEHS)	810	-	-	-	-	-	-	-	101
GRAIN HNDLING(MACH)	-	-	-	-	-	-	-	-	8
CROP DRYING(ON-FM)	-	-	-	18	-	-	-	-	2
IRRIGATION	152	358	-	65	-	-	19	-	141
FERTILIZER	-	-	-	-	-	-	-	11578	11578
PESTICIDES	-	-	-	-	-	-	-	649	649
ELECTRICITY	-	-	-	-	-	-	100	-	340
MISCELLANEOUS	23945	152	-	-	-	-	-	-	3014
TOTAL-CROPS	117048	91956	-	1075	-	-	121	12226	46128
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	8	N/A	28
FEED HANDLING	598	17594	-	41	-	-	2	N/A	2927
WASTE DISP.(VEHS)	765	12	-	52	-	-	-	N/A	102
WASTE DISP.(MACH)	-	-	-	13	-	-	2	N/A	7
WATER SUPPLY	-	-	-	-	-	-	6	N/A	19
LIVESTOCK HANDLING	1760	-	-	120	-	-	-	N/A	231
SPACE HEATING	-	-	-	86	-	-	-	N/A	8
VENTILATION	-	-	-	-	-	-	5	N/A	18
WATER HEATING	-	-	-	682	-	-	15	N/A	115
MILKING	-	-	-	-	-	-	8	N/A	29
MILK COOLING	-	-	-	-	-	-	13	N/A	45
BROODING	-	-	-	3	664	-	-	N/A	65
FARM VEHICLES	2469	-	-	-	-	-	-	N/A	308
FARM AUTO-LVSTK	1612	-	-	-	-	-	-	N/A	201
OTHER	1213	4	-	-	-	-	2	N/A	158
TOTAL-LIVESTOCK	9417	17610	3	1658	-	45	61	N/A	3864
TOTAL-AGRICULTURE	125465	109566	3	2733	-	45	182	12226	43992

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

OHTO

ENERGY AND AGRICULTURE: 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^{B/}	BTU TOTAL (BILLION)
PREPLANT	5608	30321	-	6	-	-	-	-	4657
PLANT	2861	9244	-	5	-	-	-	-	1640
CULTIVATE	1709	9532	-	3	-	-	-	-	1536
HARVEST	19975	9502	-	34	-	-	-	-	3818
FARM PICKUP	42927	54	-	-	-	-	-	-	5373
FERTILIZER APPLIC.	2746	174	-	5	-	-	-	-	368
PESTICIDE APPLIC.	1922	530	-	3	-	-	-	-	314
FARM TRUCK	13166	17	-	-	-	-	-	-	1648
FARM AUTO-CROPS	28447	-	-	-	-	-	-	-	2556
GRAIN HNDLNG(VEHS)	775	-	-	-	-	-	-	-	97
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	-
CROP DRYING(ON-FW)	-	-	-	21267	15	-	17	-	2106
IRRIGATION	368	140	-	114	-	-	3	-	89
FROST PROTECTION	92	151	839	20	-	-	-	-	151
FERTILIZER	-	-	-	-	-	-	-	22080	22080
PESTICIDES	-	-	-	-	-	-	-	1647	1647
ELECTRICITY	-	-	-	-	-	-	55	-	187
MISCELLANEOUS	-	123	-	-	-	-	-	-	17
TOTAL-CROPS	110596	59797	839	21462	15	-	77	23727	48289
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	37	N/A	126
FEED HANDLING	4420	4992	-	7	-	-	20	N/A	1314
WASTE DISP.(VEHS)	3219	2202	-	5	-	-	-	N/A	708
WASTE DISP.(MACH)	-	-	8	171	-	-	6	N/A	40
WATER SUPPLY	-	-	-	-	-	-	50	N/A	172
LIVESTOCK HANDLING	61	4	-	-	-	-	-	N/A	168
SPACE HEATING	-	-	-	1602	-	-	-	N/A	199
VENTILATION	-	-	-	-	-	-	58	N/A	364
WATER HEATING	-	-	-	2805	-	-	28	N/A	99
MILKING	-	-	-	-	-	-	29	N/A	160
MILK COOLING	-	-	-	-	-	-	47	N/A	2
EGG HANDLING	-	-	-	-	-	-	1	N/A	274
BROODING	-	-	87	2587	1	629	-	N/A	1110
FARM VEHICLES	4007	4394	-	-	-	-	-	N/A	272
FARM AUTO-LVSTK	2177	-	-	-	-	-	-	N/A	332
OTHER	2391	-	-	-	-	-	10	N/A	-
TOTAL-LIVESTOCK	16275	11598	75	7178	1	629	291	N/A	5349
TOTAL-AGRICULTURE	126871	71395	934	28640	16	629	368	23727	53638

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

OKLAHOMA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION)
PREPLANT	165	37875	-	313	-	-	-	-	5304
PLANT	-	8024	-	-	-	-	-	-	1113
CULTIVATE	72	2875	-	136	-	-	-	-	421
HARVEST	6064	5284	-	12249	-	-	-	-	2661
FARM PICKUP	16894	-	-	3616	-	-	-	-	2457
FERTILIZER APPLIC.	44	676	-	82	-	-	-	-	107
PESTICIDE APPLIC.	34	1302	-	45	-	-	-	-	191
FARM TRUCK	8635	3	-	-	-	-	-	-	1080
FARM AUTO-CROPS	7162	-	-	-	-	-	-	-	895
GRAIN HNDLNG(VEHS)	88	-	-	-	-	-	-	-	11
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	1
CROP DRYING(ON-FARM)	-	-	-	97	49	-	1	-	40
IRRIGATION	1646	3846	-	13387	5940	-	104	-	8465
FERTILIZER	-	-	-	-	-	-	-	12489	12489
PESTICIDES	-	-	-	-	-	-	-	774	774
ELECTRICITY	-	-	-	-	-	-	55	-	188
MISCELLANEOUS	745	1931	-	-	-	-	-	-	361
TOTAL-CROPS	41551	61916	-	29938	5969	-	164	13264	26558
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	30	N/A	102
FEED HANDLING	3966	492	-	7500	-	-	30	N/A	1384
WASTE DISP.(VEHS)	825	82	-	1560	-	-	-	N/A	263
WASTE DISP.(MACH)	-	-	-	57	19	-	-	N/A	25
WATER SUPPLY	-	-	-	-	-	-	9	N/A	28
LIVESTOCK HANDLING	735	5	-	1389	-	-	-	N/A	225
SPACE HEATING	-	-	-	112	-	-	-	N/A	11
VENTILATION	-	-	-	-	-	-	12	N/A	41
WATER HEATING	-	-	-	1294	-	-	6	N/A	143
MILKING	-	-	-	-	-	-	11	N/A	39
MILK COOLING	-	-	-	-	-	-	16	N/A	54
BROODING	-	-	-	1378	250	-	-	N/A	387
FARM VEHICLES	11290	3	-	2097	-	-	-	N/A	1611
FARM AUTO-LVSTK	941	-	-	-	-	-	-	N/A	118
OTHER	494	4	-	91	-	-	3	N/A	80
TOTAL-LIVESTOCK	18251	586	-	15469	270	-	117	N/A	4513
TOTAL-AGRICULTURE	59802	62502	-	45417	6239	-	281	13264	41071

DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY
ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING
SOLUTION).

OREGON

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHR'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^{a/}	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	480	13874	-	-	1	-	-	-	1985
PLANT	3	2794	-	-	-	-	-	-	389
CULTIVATE	11	1654	-	-	-	-	-	-	231
HARVEST	11447	7762	-	16	-	-	-	-	2509
FARM PICKUP	8054	-	-	-	-	-	-	-	1007
FERTILIZER APPLIC.	138	575	-	-	-	-	-	-	97
PESTICIDE APPLIC.	57	2237	-	-	-	-	-	-	317
FARM TRUCK	8281	226	-	-	-	-	-	-	1056
FARM AUTO-CROPS	6441	-	-	-	-	-	-	-	1180
GRAIN HNDLNG(VEHS)	106	-	-	-	-	-	-	-	13
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	1
IRRIGATION	-	1930	-	-	-	-	1598	-	5686
FROST PROTECTION	815	1341	7453	181	-	-	1	-	1343
FERTILIZER	-	-	-	-	-	-	-	5721	5721
PESTICIDES	-	-	-	-	-	-	-	210	210
ELECTRICITY	-	-	-	-	-	-	17	-	57
MISCELLANEOUS	570	1295	-	-	-	-	-	-	251
TOTAL-CROPS	39331	33694	7453	198	-	-	1696	5931	22054
OPERATIONS-LIVESTOCK									
	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHR'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	19	N/A	65
FEED HANDLING	6286	67	-	9	-	-	15	N/A	850
WASTE DISP.(VEHS)	1794	211	-	2	-	-	-	N/A	254
WASTE DISP.(MACH)	-	-	-	83	-	-	2	N/A	14
WATER SUPPLY	-	-	-	4	-	-	9	N/A	30
LIVESTOCK HANDLING	24	344	-	-	-	-	-	N/A	51
SPACE HEATING	-	-	-	99	1	-	7	N/A	33
VENTILATION	-	-	-	7	-	-	9	N/A	29
WATER HEATING	-	-	-	853	-	-	4	N/A	95
MILKING	-	-	-	-	-	-	8	N/A	26
MILK COOLING	-	-	-	-	-	-	12	N/A	42
EGG HANDLING	-	-	-	-	-	-	1	N/A	1
BROODING	-	-	-	1324	-	-	-	N/A	126
FARM VEHICLES	6033	4	-	-	-	-	-	N/A	755
FARM AUTO-LVSTK	1092	-	-	-	-	-	-	N/A	136
OTHER	1608	-	-	-	-	-	4	N/A	215
TOTAL-LIVESTOCK	16837	626	-	2370	1	-	89	N/A	2721
TOTAL-AGRICULTURE	56168	34320	7453	2568	1	-	1695	5931	24775

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

CHANGES (1960) IN THE USE OF ENERGY IN AGRICULTURE
ENERGY AND USES IN AGRICULTURE 1974 AND 1978
BORGERSON, D. COOPER

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PENNSYLVANIA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^{B/}	BTU TOTAL (BILLION)
PREPLANT	771	9229	-	4	-	-	-	-	1377
PLANT	442	1642	-	2	-	-	-	-	283
CULTIVATE	132	1193	-	1	-	-	-	-	182
HARVEST	19304	6684	-	93	-	-	-	-	3549
FARM PICKUP	19454	97	-	-	-	-	-	-	2446
FERTILIZER APPLIC.	669	182	-	3	-	-	-	-	109
PESTICIDE APPLIC.	80	1277	-	-	-	-	-	-	187
FARM TRUCK	12124	10	-	-	-	-	-	-	1517
FARM AUTO-CROPS	12665	-	-	-	-	-	-	-	1583
GRAIN HDLNG(VEHS)	325	-	-	-	-	-	-	-	41
GRAIN HDLNG(MACH)	-	-	-	-	-	-	-	-	2
CROP DRYING(ON-FH)	-	-	-	3084	-	-	2	-	294
IRRIGATION	319	61	-	6	-	-	-	-	50
FROST PROTECTION	308	374	2091	55	-	-	-	-	385
FERTILIZER	-	-	-	-	-	-	-	9429	9429
PESTICIDES	-	-	-	-	-	-	-	702	702
ELECTRICITY	-	-	-	-	-	-	23	-	79
MISCELLANEOUS	-	5612	-	-	-	-	-	-	778
TOTAL-CROPS	66594	26363	2091	3167	-	-	27	10131	22794
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	61	N/A	208
FEED HANDLING	2131	1240	-	10	-	-	29	N/A	537
WASTE DISP.(VEHS)	4344	529	-	21	-	-	-	N/A	618
WASTE DISP.(MACH)	-	-	132	166	-	-	9	N/A	63
WATER SUPPLY	-	-	-	-	-	-	32	N/A	108
LIVESTOCK HANDLING	95	4	-	-	-	-	-	N/A	12
SPACE HEATING	-	1	-	451	-	-	1	N/A	46
VENTILATION	-	-	-	-	-	-	80	N/A	273
WATER HEATING	-	-	-	2720	-	-	81	N/A	534
MILKING	-	-	-	-	-	-	44	N/A	152
MILK COOLING	-	-	-	-	-	-	81	N/A	275
EGG HANDLING	-	-	-	-	-	-	3	N/A	9
BROODING	-	-	207	5362	-	3780	-	N/A	627
FARM VEHICLES	1105	1061	-	-	-	-	-	N/A	296
FARM AUTO-LVSTK	7656	-	-	-	-	-	-	N/A	352
OTHER	5427	-	-	-	-	-	8	N/A	704
TOTAL-LIVESTOCK	15849	2835	330	8750	-	3780	426	N/A	4796
TOTAL-AGRICULTURE	82443	29198	2428	11897	-	3780	453	10131	27590

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

RHODE ISLAND

ENERGY AND AGRICULTURE: 1974 DATA BASE. SUMMARY BY OPERATION &/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	?	65	-	-	-	-	-	-	10
PLANT	4	26	-	-	-	-	-	-	4
CULTIVATE	2	34	-	-	-	-	-	-	5
HARVEST	228	125	-	-	-	-	-	-	46
FARM PICKUP	127	-	-	-	-	-	-	-	16
FERTILIZER APPLIC.	11	-	-	-	-	-	-	-	1
PESTICIDE APPLIC.	2	64	-	-	-	-	-	-	9
FARM TRUCK	273	-	-	-	-	-	-	-	34
FARM AUTO-CROPS	74	-	-	-	-	-	-	-	9
IRRIGATION	31	12	-	-	-	-	-	-	6
FERTILIZER	-	-	-	-	-	-	-	81	81
PESTICIDES	-	-	-	-	-	-	-	9	9
TOTAL-CROPS	759	330	-	-	-	-	-	90	231
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	1	N/A	2
FEED HANDLING	57	26	-	-	-	-	-	N/A	12
WASTE DISP.(VEH)	145	8	-	-	-	-	-	N/A	19
WASTE DISP.(MACH)	-	-	3	-	-	-	-	N/A	1
WATER SUPPLY	-	-	-	-	-	-	-	N/A	1
LIVESTOCK HANDLING	6	-	-	-	-	-	-	N/A	1
SPACE HEATING	-	-	6	-	-	-	-	N/A	2
VENTILATION	-	-	-	-	-	-	-	N/A	5
WATER HEATING	-	-	-	45	-	-	-	N/A	1
MILKING	-	-	-	-	-	-	-	N/A	2
MILK COOLING	-	-	-	-	-	-	2	N/A	3
BROODING	-	12	15	-	-	-	-	N/A	6
FARM VEHICLES	24	20	-	-	-	-	-	N/A	3
FARM AUTO-LVSTM	26	-	-	-	-	-	-	N/A	21
OTHER	167	-	-	-	-	-	-	N/A	81
TOTAL-LIVESTOCK	425	53	15	40	-	-	4	N/A	81
TOTAL-AGRICULTURE	1184	383	19	69	-	-	4	90	312

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTLIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

SOUTH CAROLINA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^a	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	289	7112	-	-	-	-	-	-	1023
PLANT	419	2329	-	4	-	-	-	-	375
CULTIVATE	220	3836	-	2	-	-	-	-	560
HARVEST	6910	2548	-	68	-	-	-	-	1224
FARM PICKUP	5273	6	-	-	-	-	-	-	660
FERTILIZER APPLC.	93	3176	-	1	-	-	-	-	452
PESTICIDE APPLIC.	676	2729	-	8	-	-	-	-	464
FARM TRUCK	5785	22	-	-	-	-	-	-	726
FARM AUTO-CROPS	3587	-	-	-	-	-	-	-	448
CROP DRYING(ON-FM)	-	-	7516	20345	-	-	21	-	3057
IRRIGATION	-	290	-	-	-	-	15	-	92
FROST PROTECTION	140	231	1287	71	-	-	-	-	231
FERTILIZER	-	-	-	-	-	-	-	6160	6160
PESTICIDES	-	-	-	-	-	-	-	1957	1857
ELECTRICITY	-	-	-	-	-	-	15	-	52
MISCELLANEOUS	-	89	-	-	-	-	-	-	12
TOTAL-CROPS	23391	22368	879 ^b	20461	-	-	52	PC16	17394
OPERATIONS-LIVESTOCK									
LIGHTING	-	-	-	-	-	-	12	N/A	40
FEED HANDLING	908	778	-	8	-	-	6	N/A	230
WASTE DISP.(EVENS)	725	315	-	7	-	-	-	N/A	135
WASTE DISP.(MACH)	-	-	-	154	1	-	1	N/A	19
WATER SUPPLY	-	-	-	-	-	-	12	N/A	41
LIVESTOCK HANDLING	43	-	-	-	-	-	-	N/A	5
SPACE HEATING	-	-	-	189	-	-	1	N/A	21
VENTILATION	-	-	-	-	-	-	16	N/A	53
WATER HEATING	-	-	-	469	-	-	3	N/A	54
MILKING	-	-	-	-	-	-	5	N/A	16
MILK COOLING	-	-	-	-	-	-	7	N/A	23
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	18	2132	7	314	-	N/A	220
FARM VEHICLES	1996	326	-	-	-	-	-	N/A	295
FARM AUTO-LVSTK	288	-	-	-	-	-	-	N/A	36
OTHER	741	551	-	-	-	-	2	N/A	175
TOTAL-LIVESTOCK	4604	1970	18	2958	7	314	63	N/A	1365
TOTAL-AGRICULTURE	27995	24338	8817	23419	7	314	115	8016	18759

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

SOUTH DAKOTA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)P/	BTU TOTAL (BILLION)
PREPLANT	1333	21394	-	176	-	-	-	-	3151
PLANT	-	8410	-	-	-	-	-	-	1166
CULTIVATE	-	8143	-	-	-	-	-	-	1129
HARVEST	17760	27962	-	2340	-	-	-	-	6322
FARM PICKUP	47962	-	-	-	-	-	-	-	5995
FERTILIZER APPLIC.	384	885	-	51	-	-	-	-	176
PESTICIDE APPLIC.	356	609	-	47	-	-	-	-	133
FARM TRUCK	18375	-	-	-	-	-	-	-	2297
FARM AUTO-CROPS	19156	-	-	-	-	-	-	-	2396
GRAIN HNDLNG(VEHS)	762	-	-	-	-	-	-	-	120
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	5
CROP DRYING(ON-FM)	-	-	-	6251	2	-	5	-	615
IRRIGATION	1218	2173	-	4083	-	-	44	-	994
FERTILIZER	-	-	-	-	-	-	-	6578	6578
PESTICIDES	-	-	-	-	-	-	-	1108	1108
ELECTRICITY	-	-	-	-	-	-	80	-	275
MISCELLANEOUS	19439	615	-	-	-	-	-	-	2515
TOTAL-CROPS	126956	70190	-	12956	2	-	131	7686	34976
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	24	N/A	82
FEED HANDLING	2170	20291	-	286	-	-	4	N/A	3128
WASTE DISP.(VEHS)	1746	367	-	230	-	-	-	N/A	291
WASTE DISP.(MACH)	-	-	-	65	-	-	2	N/A	13
WATER SUPPLY	-	-	-	-	-	-	9	N/A	32
LIVESTOCK HANDLING	3234	2	-	426	-	-	-	N/A	445
SPACE HEATING	-	-	-	136	-	-	-	N/A	14
VENTILATION	-	-	-	-	-	-	11	N/A	36
WATER HEATING	-	-	-	858	-	-	18	N/A	143
MILKING	-	-	-	-	-	-	11	N/A	38
MILK COOLING	-	-	-	-	-	-	18	N/A	52
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	-	9	1056	-	140	-	105
FARM VEHICLES	11289	1	-	-	-	-	-	N/A	1411
FARM AUTO-LVSTK	3672	-	-	-	-	-	-	N/A	459
OTHER	2960	28	-	-	-	-	2	N/A	382
TOTAL-LIVESTOCK	25072	20571	-	3847	-	140	101	N/A	5643
TOTAL-AGRICULTURE	152028	90891	-	16073	2	140	232	7686	41419

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

TENNESSEE

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION) ^b
PREPLANT	945	11801	-	13	-	-	-	-	1756
PLANT	534	3855	-	7	-	-	-	-	602
CULTIVATE	287	6478	-	4	-	-	-	-	935
HARVEST	10017	2862	-	162	-	-	-	-	1664
FARM PICKUP	6315	2	-	3	-	-	-	-	709
FERTILIZER APPLIC.	212	5115	-	10	-	-	-	-	736
PESTICIDE APPLIC.	183	2927	-	-	-	-	-	-	430
FARM TRUCK	6413	2	-	-	-	-	-	-	802
FARM AUTO-CROPS	6881	-	-	-	-	-	-	-	860
GRAIN HNDLNG(VEHS)	90	-	-	-	-	-	-	-	11
CROP DRYING(ON-FM)	-	-	-	1480	4	-	1	-	150
IRRIGATION	189	123	-	49	1	-	1	-	50
FERTILIZER	-	-	-	-	-	-	-	9642	9642
PESTICIDES	-	-	-	-	-	-	-	773	773
ELECTRICITY	-	-	-	-	-	-	24	-	82
MISCELLANEOUS	-	174	-	-	-	-	-	-	24
TOTAL-CROPS	32064	33339	-	1727	-	-	27	10414	19307
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OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^b	BTU TOTAL (BILLION) ^b
LIGHTING	-	-	-	-	-	-	10	N/A	35
FEED HANDLING	2117	2950	-	29	-	-	11	N/A	717
WASTE DISP.(VEHS)	2012	1048	-	28	-	-	-	N/A	399
WASTE DISP.(VACU)	-	-	-	91	-	-	2	N/A	17
WATER SUPPLY	-	-	-	-	-	-	32	N/A	109
LIVESTOCK HANDLING	21	-	-	-	-	-	-	N/A	3
SPACE HEATING	-	-	-	456	-	-	1	N/A	46
VENTILATION	-	-	-	-	-	-	24	N/A	80
WATER HEATING	-	-	-	1893	-	-	5	N/A	197
MILKING	-	-	-	-	-	-	16	N/A	55
MILK COOLING	-	-	-	-	-	-	26	N/A	89
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
DROOING	-	-	21	2420	6	916	-	N/A	260
FARM VEHICLES	6117	570	-	-	-	-	-	N/A	843
FARM AUTO-LVSTK	1584	-	-	-	-	-	-	N/A	198
OTHER	3547	1853	-	-	-	-	5	N/A	718
TOTAL-LIVESTOCK	15400	6427	21	4917	6	916	134	N/A	3772
TOTAL-AGRICULTURE	47464	39768	21	6644	10	916	161	10414	23079

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS).

TEXAS

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)B	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	1751	131930	-	4564	-	-	-	-	19204
PLANT	130	34179	-	158	-	-	-	-	4772
CULTIVATE	206	24591	-	251	-	-	-	-	3460
HARVEST	22072	13581	-	26851	-	-	-	-	7207
FARM PICKUP	52206	-	-	8585	-	-	-	-	7346
FERTILIZER APPLIC.	125	623	-	152	-	-	-	-	116
PESTICIDE APPLIC.	3659	537	-	4452	-	-	-	-	957
FARM TRUCK	30347	131	-	-	-	-	-	-	3012
FARM AUTO-CROPS	26588	-	-	-	-	-	-	-	3323
GRAIN HNDLNG(VEHS)	77	-	-	-	-	-	-	-	10
GRAIN HNDLNG(MACH)	-	-	-	-	-	-	-	-	1
CROP DRYING(ON-FM)	-	-	-	2116	41	-	-	-	275
IRRIGATION	6896	7250	-	36817	63973	-	1407	-	75500
FROST PROTECTION	2118	1952	10316	-	-	-	11	-	2005
FERTILIZER	-	-	-	-	-	-	-	39950	39950
PESTICIDES	-	-	-	-	-	-	-	6877	6877
ELECTRICITY	-	-	-	-	-	-	118	-	404
MISCELLANEOUS	8089	3749	-	-	-	-	-	-	1531
TOTAL-CROPS	156265	218523	10316	83946	64014	-	1546	46827	176749
OPERATIONS-LIVESTOCK									
	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)B	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	158	N/A	539
FEED HANDLING	11007	5043	-	13392	-	-	213	N/A	4082
WASTE DTSP.(VEHS)	3613	932	-	4396	-	-	-	N/A	1001
WASTE DISP.(MACH)	-	-	-	348	76	-	-	N/A	112
WATER SUPPLY	-	-	-	-	-	-	23	N/A	78
LIVESTOCK HANDLING	2424	55	-	2950	-	-	-	N/A	592
SPACE HEATING	-	-	-	294	-	-	-	N/A	28
VENTILATION	-	-	-	3642	-	-	38	N/A	129
WATER HEATING	-	-	-	-	-	-	19	N/A	415
MILKING	-	-	-	-	-	-	33	N/A	114
MILK COOLING	-	-	-	-	-	-	45	N/A	154
EGG HANDLING	-	-	-	6364	762	-	-	N/A	1
BROODING	-	-	-	6171	-	-	-	N/A	1386
FARM VEHICLES	37519	44	-	-	-	-	-	N/A	5285
FARM AUTO-LVSTK	2093	-	-	-	-	-	-	N/A	262
OTHER	2015	31	-	332	-	-	8	N/A	315
TOTAL-LIVESTOCK	58672	6104	-	37929	838	-	538	N/A	14493
TOTAL-AGRICULTURE	214937	224627	10316	121875	64852	-	2084	46827	191242

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

UTAH

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^a	BTU TOTAL (BILLION)
PREPLANT	320	1964	-	-	-	-	-	-	313
PLANT	28	407	-	-	-	-	-	-	60
CULTIVATE	12	180	-	-	-	-	-	-	26
HARVEST	2159	1993	-	-	-	-	-	-	546
FARM PICKUP	2046	-	-	-	-	-	-	-	256
FERTILIZER APPLIC.	49	285	-	-	-	-	-	-	46
PESTICIDE APPLIC.	20	113	-	-	-	-	-	-	18
FARM TRUCK	2614	13	-	-	-	-	-	-	328
FARM AUTO-CROPS	1734	-	-	-	-	-	-	-	217
IRRIGATION	5017	4785	-	455	91	-	333	-	2563
FERTILIZER	-	-	-	-	-	-	-	1337	1337
PESTICIDES	-	-	-	-	-	-	-	82	82
ELECTRICITY	-	-	-	-	-	-	6	-	21
MISCELLANEOUS	188	23	-	-	-	-	-	-	27
TOTAL-CROPS	14188	9764	-	455	91	-	339	1419	5840
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	0	N/A	30
FEED HANDLING	2855	110	-	-	-	-	4	N/A	393
WASTE DISP.(VEHS)	1221	55	-	-	-	-	-	N/A	160
WASTE DISP.(MACH)	-	-	-	26	5	-	2	N/A	13
WATER SUPPLY	-	-	-	-	-	-	4	N/A	13
LIVESTOCK HANDLING	20	73	-	-	-	-	-	N/A	13
SPACE HEATING	-	-	-	75	-	-	2	N/A	14
VENTILATION	-	-	-	-	-	-	6	N/A	19
WATER HEATING	-	-	-	612	-	-	4	N/A	71
MILKING	-	-	-	-	-	-	6	N/A	19
MILK COOLING	-	-	-	-	-	-	9	N/A	31
BROODING	-	-	-	921	77	1984	-	N/A	176
FARM VEHICLES	2617	9	-	-	-	-	-	N/A	327
FARM AUTO-LVSTK	379	-	-	-	-	-	-	N/A	47
OTHER	1213	-	-	-	-	-	3	N/A	163
TOTAL-LIVESTOCK	8306	242	-	1695	42	1984	49	N/A	1490
TOTAL-AGRICULTURE	22494	10006	-	2150	133	1984	349	1419	7330

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

VERCFT

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
PREPLANT	177	1182	-	6	-	-	-	-	187
PLANT	40	207	-	1	-	-	-	-	45
CULTIVATE	15	26 ^a	-	1	-	-	-	-	38
HARVEST	2638	2571	-	83	-	-	-	-	694
FARM PICKUP	1033	13	-	-	-	-	-	-	131
FERTILIZER APPLIC.	96	-	-	3	-	-	-	-	12
PESTICIDE APPLIC.	16	58	-	1	-	-	-	-	10
FARM TRUCK	1037	-	-	-	-	-	-	-	130
FARM AUTO-CROPS	1750	-	-	-	-	-	-	-	219
IRRIGATION	21	P	-	-	-	-	-	-	4
FERTILIZER	-	-	-	-	-	-	-	1336	1336
PESTICIDES	-	-	-	-	-	-	-	50	50
ELECTRICITY	-	-	-	-	-	-	-	-	10
MISCELLANEOUS	-	67	-	-	-	-	-	-	9
TOTAL-CROPS	6824	4448	-	94	-	-	2	13P5	2875
OPERATIONS-LIVESTOCK									
LIGHTING	-	-	-	-	-	-	9	N/A	28
FEED HANDLING	449	189	-	14	-	-	5	N/A	103
WASTE DISP.(VEHS)	127 ^b	32	-	40	-	-	-	N/A	168
WASTE DISP.(MACH)	-	-	7	6	-	-	2	N/A	9
WATER SUPPLY	-	-	-	-	-	-	6	N/A	20
SPACE HEATING	-	-	-	75	-	-	-	N/A	7
VENTILATION	-	-	-	-	-	-	12	N/A	40
WATER HEATING	-	-	-	14 ^c 4	-	-	11	N/A	175
MILKING	-	-	-	-	-	-	13	N/A	43
MILK COOLING	-	-	-	-	-	-	23	N/A	79
BROODING	-	-	20	17	-	-	-	N/A	4
FARM VEHICLES	2 ^d	126	-	-	-	-	-	N/A	20
FARM AUTO-LVSTK	728	-	-	-	-	-	-	N/A	91
OTHER ^e	1340	-	-	-	-	-	3	N/A	176
TOTAL-LIVESTOCK	3823	346	27	15 ^f 5	-	-	83	N/A	966
TOTAL-AGRICULTURE	10647	4794	27	167 ^g	-	-	86	13P5	3841

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

VIRGINIA

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION) (B)	BTU TOTAL (BILLION)
OPERATIONS-CROPS									
BREPLANT	584	5535	-	2	-	-	-	-	992
CULTIVATE	294	2375	-	1	-	-	-	-	366
HARVEST	8917	3387	-	22	-	-	-	-	1586
FERTILIZER APP. CROP	6117	1980	-	1	-	-	-	-	570
PESTICIDE APPIC.	288	1403	-	1	-	-	-	-	231
FARM TRUCK	6508	8	-	-	-	-	-	-	825
FARM AUTO-CROPS	6167	-	-	-	-	-	-	-	770
CROP DRYING(FRM)	-	-	6565	18560	-	-	13	-	2729
IRRIGATION	750	124	-	74	-	-	1	-	121
FROST PROTECTION	140	231	1283	31	-	-	-	8720	8720
FERTILIZER	-	-	-	-	-	-	-	937	937
PESTICIDES	-	-	-	-	-	-	-	-	54
ELECTRICITY	-	-	-	-	-	-	16	-	17
MISCELLANEOUS	-	121	-	-	-	-	-	-	-
TOTAL-CROPS	31021	17147	7848	18674	-	-	30	9657	18890
OPERATIONS-LIVESTOCK									
LIGHTING	-	-	-	-	-	-	18	N/A	62
FEED HANDLING	1483	1759	-	3	-	-	12	N/A	469
WASTE DISP.(VEHS)	2062	750	-	5	-	-	-	N/A	362
WASTE DISP.(MACH)	-	-	11	87	2	-	5	N/A	27
WATER SUPPLY	-	-	-	-	-	-	23	N/A	80
LIVESTOCK HANDLING	62	-	-	-	-	-	-	N/A	8
SPACE HEATING	-	-	-	255	-	-	1	N/A	29
VENTILATION	-	-	-	-	-	-	29	N/A	98
WATER HEATING	-	-	-	1096	-	-	11	N/A	141
MILKING	-	-	-	-	-	-	12	N/A	39
MILK COOLING	-	-	-	-	-	-	18	N/A	63
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	449	4771	34	4298	-	N/A	664
FARM VEHICLES	3507	473	-	-	-	-	-	N/A	504
FARM AUTO-LVSTK	1015	-	-	-	-	-	-	N/A	127
OTHER	1966	751	-	-	-	-	4	N/A	363
TOTAL-LIVESTOCK	10094	3734	460	6218	35	4898	133	N/A	3038
TOTAL-AGRICULTURE	41115	20981	8308	24912	35	4898	163	9657	21928

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

WASHINGTON

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHT'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)B/	BTU TOTAL (BILLION)
PREPLANT	982	37064	-	-	1	-	-	-	5264
PLANT	132	6961	-	-	-	-	-	-	982
CULTIVATE	41	4110	-	-	-	-	-	-	575
HARVEST	18162	5817	-	13	-	-	-	-	3078
FARM PICKUP	15276	-	-	14	-	-	-	-	1911
FERTILIZER APPLIC.	109	451	-	-	-	-	-	-	76
PESTICIDE APPLIC.	40	4503	-	-	-	-	-	-	629
FARM TRUCK	10094	705	-	-	-	-	-	-	1359
FARM AUTO-CROPS	18751	-	-	-	-	-	-	-	2344
GRAIN HNDLING (VEHS)	194	-	-	-	-	-	-	-	24
GRAIN HNDLING (MACH)	-	-	-	-	-	-	-	-	1
IRRIGATION	-	-	-	-	-	-	3757	-	12820
FROST PROTECTION	1055	1431	7954	204	-	-	3	-	1457
FERTILIZER	-	-	-	-	-	-	-	11535	11535
PESTICIDES	-	-	-	-	-	-	-	895	895
ELECTRICITY	-	-	-	-	-	-	27	-	93
MISCELLANEOUS	353	4700	-	-	-	-	-	-	696
TOTAL-CROPS	65189	65742	7954	233	-	-	3786	12430	43742
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHT'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)B/	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	25	N/A	85
FEED HANDLING	6527	137	-	5	-	-	34	N/A	952
WASTE DISP.(VEHS)	3227	498	-	2	-	-	-	N/A	473
WASTE DISP.(MACH)	-	-	-	154	-	-	7	N/A	38
WATER SUPPLY	-	-	-	-	-	-	13	N/A	43
LIVESTOCK HANDLING	40	235	-	-	-	-	-	N/A	38
SPACE HEATING	-	-	-	144	2	-	5	N/A	32
VENTILATION	-	-	-	-	-	-	21	N/A	73
WATER HEATING	-	-	-	1261	-	-	19	N/A	156
MILKING	-	-	-	-	-	-	14	N/A	46
MILK COOLING	-	-	-	-	-	-	22	N/A	75
EGG HANDLING	-	-	-	-	-	-	1	N/A	3
BROODING	-	-	-	1444	-	-	-	N/A	138
FARM VEHICLES	4919	8	-	4	-	-	-	N/A	616
FARM AUTO-LVSTK	1362	-	-	-	-	-	-	N/A	170
OTHER	2140	-	-	2	-	-	7	N/A	292
TOTAL-LIVESTOCK	18214	879	-	3016	2	-	158	N/A	3228
TOTAL-AGRICULTURE	83403	66621	7954	3249	2	-	3944	12430	46970

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

WEST VIRGINIA

ENERGY AND AGRICULTURE, 1974 DATA BESF. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	CALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWHS OF ELECT (MILLION)	INVESTED BTU'S (BILLION) ^a	BTU TOTAL (BILLION) ^b
OPERATIONS-CROPS									
PREPLANT	251	575	-	1	-	-	-	-	111
PLANT	36	30	-	-	-	-	-	-	9
CULTIVATE	11	122	-	-	-	-	-	-	18
HARVEST	1677	81	-	7	-	-	-	-	222
FARM PICKUP	685	48	-	-	-	-	-	-	92
FERTILIZER APPLIC.	43	36	-	-	-	-	-	-	10
PESTICIDE APPLIC.	4	210	-	-	-	-	-	-	30
FARM TRUCK	687	-	-	-	-	-	-	-	86
FARM AUTO-CROPS	2400	-	-	-	-	-	-	-	300
IRRIGATION	53	12	-	-	-	-	-	-	9
FROST PROTECTION	81	133	740	18	-	-	-	-	133
FERTILIZER	-	-	-	-	-	-	-	1952	1952
PESTICIDES	-	-	-	-	-	-	-	110	110
ELECTRICITY	-	-	-	-	-	-	-	-	13
MISCELLANEOUS	-	4	-	-	-	-	-	-	1
TOTAL-CROPS	5930	1252	740	30	-	-	4	2062	3097
OPERATIONS-LIVESTOCK									
LIGHTING	-	-	-	-	-	-	5	N/A	18
FEED HANDLING	507	171	-	2	-	-	2	N/A	95
WASTE DISP.(VEH)	241	31	-	1	-	-	-	N/A	34
WASTE DISP.(MACH)	-	-	2	25	-	-	1	N/A	6
WATER SUPPLY	-	-	-	-	-	-	5	N/A	16
LIVESTOCK HANDLING	7	-	-	-	-	-	-	N/A	1
SPACE HEATING	-	-	-	40	-	-	-	N/A	7
VENTILATION	-	-	-	-	-	-	6	N/A	19
WATER HEATING	-	-	-	284	-	-	3	N/A	39
MILKING	-	-	-	-	-	-	3	N/A	10
MILK COOLING	-	-	-	-	-	-	5	N/A	16
BROODING	-	91	1399	7	1423	-	-	N/A	186
FARM VEHICLES	250	117	-	-	-	-	-	N/A	48
FARM AUTO-LVSTK	563	-	-	-	-	-	-	N/A	70
OTHER	91	-	-	-	-	-	1	N/A	14
TOTAL-LIVESTOCK	1660	320	93	1770	7	1423	31	N/A	581
TOTAL-AGRICULTURE	7590	1572	838	1800	7	1423	35	2062	3678

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

WISCONSIN

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION A/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	815	20210	-	2	-	-	-	-	2905
PLANT	2367	5556	-	4	-	-	-	-	1867
CULTIVATE	343	5007	-	1	-	-	-	-	737
HARVEST	44509	11922	-	74	-	-	-	-	7224
FARM PICKUP	24053	20	-	-	-	-	-	-	3009
FERTILIZER APPLIC.	1999	679	-	4	-	-	-	-	344
PESTICIDE APPLIC.	365	2554	-	1	-	-	-	-	400
FARM TRUCK	22459	5	-	-	-	-	-	-	2808
FARM AUTO-CROPS	15526	-	-	-	-	-	-	-	1941
GRAIN HNDLING(VEHS)	363	-	-	-	-	-	-	-	44
GRAIN HNDLING(MACH)	-	-	-	-	-	-	-	-	5
CROP DRYING(ON-FARM)	-	-	-	14684	-	-	11	-	1440
IRRIGATION	316	1117	-	-	-	-	64	-	414
FERTILIZER	-	-	-	-	-	-	-	14534	14534
PESTICIDES	-	-	-	-	-	-	-	1176	1176
ELECTRICITY	-	-	-	-	-	-	48	-	163
MISCELLANEOUS	334	212	-	-	-	-	-	-	71
TOTAL-CROPS	113438	47283	-	14769	-	-	125	15710	38284
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	89	N/A	303
FEED HANDLING	2284	2793	-	4	-	-	48	N/A	838
WASTE DISP.(VEHS)	6376	1635	-	10	-	-	-	N/A	997
WASTE DISP.(MACH)	-	-	-	5	4	-	12	N/A	50
WATER SUPPLY	-	-	-	-	-	-	102	N/A	350
LIVESTOCK HANDLING	39	2	-	-	-	-	-	N/A	5
SPACE HEATING	-	-	-	1764	-	-	5	N/A	186
VENTILATION	-	-	-	-	-	-	165	N/A	562
WATER HEATING	-	-	-	6310	-	-	244	N/A	1435
MILKING	-	-	-	-	-	-	109	N/A	371
MILK COOLING	-	-	-	-	-	-	209	N/A	715
EGG HANDLING	-	-	-	-	-	-	-	N/A	1
BROODING	-	-	-	119	3747	-	-	N/A	374
FARM VEHICLES	2115	2456	-	-	-	-	-	N/A	605
FARM AUTO-LVSTK	4442	-	-	-	-	-	-	N/A	555
OTHER	11787	-	-	-	-	-	12	N/A	1515
TOTAL-LIVESTOCK	27044	6686	124	11929	-	-	996	N/A	8863
TOTAL-AGRICULTURE	140482	53969	124	26698	-	-	1121	15710	47147

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTION).

WYOMING

ENERGY AND AGRICULTURE, 1974 DATA BASE. SUMMARY BY OPERATION &/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PREPLANT	338	2502	-	-	-	-	-	-	389
PLANT	-	483	-	-	-	-	-	-	67
CULTIVATE	20	203	-	-	-	-	-	-	31
HARVEST	3789	3207	-	-	-	-	-	-	918
FARM PICKUP	4289	-	-	-	-	-	-	-	535
FERTILIZER APPLIC.	195	193	-	-	-	-	-	-	51
PESTICIDE APPLIC.	77	45	-	-	-	-	-	-	16
FARM TRUCK	3467	-	-	-	-	-	-	-	433
FARM AUTO-CROPS	4197	-	-	-	-	-	-	-	524
IRRIGATION	321	1266	-	665	122	-	20*	-	1116
FERTILIZER	-	-	-	-	-	-	-	2270	2200
PESTICIDES	-	-	-	-	-	-	-	62	62
ELECTRICITY	-	-	-	-	-	-	-	-	36
MISCELLANEOUS	627	392	-	-	-	-	-	-	133
TOTAL-CROPS	17311	8292	-	665	122	-	217	2262	6506
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000)	GALS OF DIESEL (1000)	GALS OF FUEL OIL (1000)	GALS OF LP GAS (1000)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	1	N/A	4
FEED HANDLING	274	1731	-	-	-	-	2	N/A	279
WASTE DISP.(VEHS)	171	P	-	-	-	-	-	N/A	23
WASTE DISP.(FACHS)	-	-	-	2	-	-	-	N/A	1
WATER SUPPLY	-	-	-	-	-	-	2	N/A	6
LIVESTOCK HANDLING	672	-	-	-	-	-	-	N/A	84
SPACE HEATING	-	-	-	14	-	-	-	N/A	2
VENTILATION	-	-	-	-	-	-	1	N/A	2
WATER HEATING	-	-	-	114	-	-	-	N/A	12
MILKING	-	-	-	-	-	-	1	N/A	3
MILK COOLING	-	-	-	-	-	-	2	N/A	6
BROODING	-	-	-	19	-	10	-	N/A	2
FARM VEHICLES	5402	776	-	-	-	-	-	N/A	783
FARM AUTO-LYSTK	851	-	-	-	-	-	-	N/A	106
OTHER	276	-	-	-	-	-	-	N/A	35
TOTAL-LIVESTOCK	7646	2515	-	149	-	10	0	N/A	1349
TOTAL-AGRICULTURE	24957	10807	-	814	122	10	226	2262	7855

(A) DATA INCLUDE ALL ENERGY USED DIRECTLY ON THE FARM FOR CROP AND LIVESTOCK PRODUCTION. NUMBERS MAY NOT ADD UP EXACTLY DUE TO ROUNDING. (B) INVESTED ENERGY INCLUDES THE ENERGY REQUIRED TO MANUFACTURE FERTILIZERS AND PESTICIDES (INCLUDING CARRIER SOLUTIONS).

UNITED STATES

ENERGY AND AGRICULTURE: 1974 DATA BASE. SUMMARY BY OPERATION w/
(DATA IS IN PHYSICAL QUANTITIES INDICATED)

OPERATIONS-CROPS	GALS OF GASOLINE (1000s)	GALS OF DIESEL (1000s)	GALS OF FUEL OIL (1000s)	GALS OF LP GAS (1000s)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
PICKUP	66964	999108	-	15726	-	-	-	-	148449
PLANT	31124	252861	-	2210	-	-	-	-	40149
CULTIVATE	26797	267940	-	4338	-	-	-	-	40927
HARVEST	616535	427114	-	89469	-	-	-	-	144852
PICKUP/CAR	1009905	91057	-	21547	-	-	-	-	128443
FERTILIZER (APPLIC)	30083	56080	-	2699	-	-	-	-	11796
POSTCIDE/APPLICS	34238	72240	-	8803	-	-	-	-	15140
CART TRUCK	537820	5566	-	-	-	-	-	-	67299
CART AUTO-CROPS	488159	-	-	-	-	-	-	-	60769
GRAIN HANDLING (VHCS)	14760	-	-	-	-	-	-	-	1845
GRAIN HANDLING (MACH)	-	-	-	-	-	-	32	-	210
CROP DRYING (OR-FW)	-	-	60761	606444	491	-	540	-	69243
IRRIGATION	75937	138472	-	236332	132318	-	19263	-	258801
FROST PROTECTION	38866	27634	218548	1458	-	-	200	-	39824
HEATING	-	-	-	-	-	-	-	600795	600795
PESTCIDES	-	-	-	-	-	-	-	70035	70035
ELECTRICITY	-	-	-	-	-	-	1702	-	5883
MISCELLANEOUS	72692	37379	-	-	-	-	-	-	14272
TOTAL-CROPS	3041877	2224448	283309	989026	132809	-	21737	670830	1711428
OPERATIONS-LIVESTOCK	GALS OF GASOLINE (1000s)	GALS OF DIESEL (1000s)	GALS OF FUEL OIL (1000s)	GALS OF LP GAS (1000s)	CU FT OF NAT GAS (MILLION)	TONS OF COAL	KWH'S OF ELECT (MILLION)	INVESTED BTU'S (BILLION)	BTU TOTAL (BILLION)
LIGHTING	-	-	-	-	-	-	-	N/A	5631
FEED HANDLING	141143	188564	-	326256	-	-	1651	N/A	50560
WASTE DISP. (VCHS)	95977	43702	-	13285	-	-	1971	N/A	19263
WASTE DISP. (MACH)	-	-	688	6754	435	-	123	N/A	1600
CATCH SUPPLY	-	19598	-	-	-	-	1601	N/A	6141
LIVESTOCK HANDLING	16733	1144	-	6764	-	-	174	N/A	2896
SPACE HEATING	-	-	1	55957	-	-	2014	N/A	5346
VENTILATION	-	-	-	70737	-	-	970	N/A	6669
WATER HEATING	-	-	-	-	-	-	920	N/A	10079
BURNING	-	-	-	-	-	-	1344	N/A	2800
WELL COOLING	-	-	-	-	-	-	31	N/A	1783
EGG HANDLING	-	-	-	-	-	-	-	N/A	100
BROODING	-	-	8123	988120	9180	32725	-	N/A	417
VEH VEHICLES	240181	67477	-	16455	-	-	-	N/A	10511
CAR/AUTO-LVST	68863	-	-	-	-	-	-	N/A	1611
DRYER	100852	15425	-	1754	-	-	315	N/A	15862
TOTAL LIVESTOCK	667413	336014	8817	366450	4625	32725	16014	N/A	129810
TOTAL AGRICULTURE	3703290	2620459	292124	1375676	137434	32725	31755	670830	68115230

All data include all energy used indirectly on the farm for crop and livestock production. Numbers may not add up exactly due to rounding. USA invested energy includes the energy required to manufacture fertilizers and pesticides. The data is for 1974.

BND