PRODUCTION PER UNIT OF LABOR

Labor productivity is an important measure of efficiency in farming (5). Even on farms that are highly mechanized, labor represents a large proportion of the total inputs. The level of farm income is mainly a function of the value of products produced per worker. The productivity of labor, generally, is increased as the quantity of other resources used per worker is increased.

Quantities of specified resources used per man-equivalent of labor on cash-grain and livestock farms in the Corn Belt are shown in table 95 along with the value of farm products sold per manequivalent. The average acreage of all land per man-equivalent of labor on all commercial farms in the Corn Belt in 1954 was 171 acres. Land acreage per man-equivalent averaged largest on cash-grain farms in the Western Corn Belt (240 acres), and smallest on livestock farms in the Eastern Corn Belt (140 acres). The acreage of land per man-equivalent was larger on cash-grain farms than on livestock farms in every region.

Table 95.—Specified Resources Used and Value of Farm PRODUCTS SOLD, PER MAN-EQUIVALENT OF LABOR, BY TYPE OF FARM, IN THE CORN BELT AND COMPONENT REGIONS: 1954

	1						
Region and type of farm	All land	Crop- land har- vested	Capital investment				Value of all farm prod-
			Total !	Live- stock, ma- chinery, and equip- ment	Total speci- fied ex- penses ²	Trac- tors	ucts sold per man- equiv- alent of labor
Total Corn Belt: All commercial farms Cash-grain farms Livestock farms 3	Acres	Acres	Dollars	Dollars	Dollars	Number	Dollars
	171	105	35, 217	8, 429	2, 120	1.33	6, 870
	195	138	41, 996	7, 587	1, 670	1.53	6, 756
	179	98	36, 454	10, 271	2, 627	1.31	8, 070
Eastern Corn Belt: All commercial farms Cash-grain farms Livestock farms 3	136	89	35, 952	7, 968	2, 279	1. 47	6, 408
	165	118	41, 270	7, 646	1, 867	1. 68	6, 981
	140	85	39, 985	10, 091	2, 938	1. 47	8, 275
Central Corn Belt: All commercial farms Cash-grain farms Livestock farms 3	154	113	48, 782	9, 447	2, 496	1.49	8, 909
	179	143	59, 681	8, 331	1, 961	1.66	8, 662
	145	08	45, 129	11, 534	3, 036	1.44	9, 923
Northern Corn Belt: All commercial farms Cash-grain farms Livestock farms 3	147	98	29, 052	8, 481	1, 851	1. 28	6, 443
	181	139	32, 188	7, 371	1, 478	1. 45	6, 236
	148	94	31, 985	10, 423	2, 226	1. 29	7, 738
Western Corn Belt: All commercial farms Cash-grain farms Livestock farms 3	219	126	34, 406	8, 864	2, 070	1. 26	6, 946
	240	156	35, 568	7, 352	1, 377	1. 35	5, 868
	226	118	36, 879	10, 666	2, 679	1. 26	8, 479
Southern Corn Belt: All commercial farms Cash-grain farms Livestock farms	184	89	24, 612	7, 115	1, 791	1. 14	4, 685
	208	127	28, 520	6, 679	1, 447	1. 37	4, 733
	198	82	26, 167	8, 202	2, 125	1. 11	5, 365

¹ Value of total investment in land, buildings, livestock, machinery, and equipment.

² Total expenditures for machine hire, hired labor, feed bought, gasoline and other etroleum fuel and oil, commercial fertilizer and fertilizing material, and lime and extractive total. liming material.

3 Livestock other than dairy and poultry farms.

For all commercial farms in the Corn Belt in 1954, total capital investment per man-equivalent of labor averaged \$35,217, of which about a fourth was investment in livestock, machinery, and equipment. Total specified expenses per man-equivalent averaged \$2,120, but ranged from an average of \$3,036 on livestock farms in the Central Corn Belt down to \$1,377 on cashgrain farms in the Western Corn Belt. Value of all farm products sold per man-equivalent of labor averaged \$6,870 for all commercial farms.

Livestock farms in the Central Corn Belt obtained the greatest value of all farm products sold per man-equivalent of labor (\$9,923). This group of farms also had the largest investment in livestock, machinery, and equipment per man-equivalent and the greatest current inputs in terms of total specified expenses per man-equivalent. Cash-grain farms in the Central Corn Belt obtained an average of \$8,662 in value of farm products sold per man-equivalent of labor. This was a greater amount than that obtained by the cash-grain farms in any other region. Cash-grain farms in the Central Corn Belt had the largest total capital investment per man-equivalent among all groups of farms and the largest amount of total specified expenses per man-equivalent among the cash-grain farms in all regions. Cash-grain farms in the Southern Corn Belt averaged lowest among the cash-grain farms in all regions as to the value of farm products sold per manequivalent, and were also lowest among the cash-grain farms in value of total investment and in value of investment in livestock, machinery, and equipment. Cash-grain farms in the Southern Corn Belt were among the lowest groups in total specified expenses per man-equivalent of labor. Livestock farms in the Southern Corn Belt ranked lowest among the livestock farms in all regions as to value of farm products sold per man-equivalent and as to total capital investment, investment in livestock, machinery and equipment, and total specified expenses per man-equivalent of labor.

Value of farm products sold per man-equivalent of labor is strongly correlated with economic class of farm (table 96). Economic Class I farms among both the cash-grain and livestock types ranked much higher than any other economic class in terms of value of farm products sold per man-equivalent. Likewise, Class II farms ranked substantially above Class III farms, Class III farms ranked above Class IV farms, and so on down to Class VI farms, where the value of farm products sold per manequivalent was the lowest of all.

Table 96.—Specified Resources Used and Value of Farm PRODUCTS SOLD, PER MAN-EQUIVALENT OF LABOR, BY TYPE AND ECONOMIC CLASS OF FARM, IN THE CORN BELT: 1954

	Resources per man-equivalent of labor						
Type and economic class of farm	All land	Crop- land har- vested	Capital investment				Value of all farm prod-
			Total 1	Live- stock, ma- chinery, and equip- ment	Total speci- fled ex- penses ²	Trac- tors	ucts sold per man- equiv- alent of labor
All commercial farms	Acres 171	Acres 105	Dollars 35, 217	Dollars 8, 429	Dollars 2, 120	Number 1.33	Dollars 6, 870
Cash-grain farms: Total	195 261 224 193 169 148 101	138 202 170 137 110 85 48	41, 996 72, 132 56, 621 39, 132 29, 321 23, 924 14, 327	7, 587 9, 103 8, 876 7, 584 6, 577 5, 923 3, 560	1, 670 3, 419 2, 252 1, 527 1, 123 897 460	1. 53 1. 54 1. 64 1. 52 1. 45 1. 50 0. 96	6, 756 14, 475 9, 889 6, 139 3, 897 2, 509
Livestock farms: 3 Total Class I. II. IV. V. VI.	179 211 194 178 163 150 111	98 125 118 99 78 57	36, 454 54, 168 45, 426 33, 452 25, 787 21, 494 13, 645	10, 271 14, 624 12, 061 9, 731 8, 049 6, 864 4, 264	2, 627 6, 192 3, 163 2, 018 1, 448 1, 082 566	1. 31 1. 31 1. 45 1. 34 1. 21 1. 15 0. 70	8, 070 21, 201 10, 250 5, 755 3, 462 2, 220 937

¹ Value of total investment in land, buildings, livestock, machinery, and equipment.

² Total of expenditures for machine hire, hired labor, feed bought, gasoline and other petroleum fuel and oil, commercial fertilizer and fertilizing material, and lime and interpretable. liming material.
Livestock other than dairy and poultry farms.