

reported the amount of fertilizer in some unit other than tons and that a conversion was required.

A more precise check was made of the fertilizer and lime figures for each farm report as part of the computer edit. Detailed specifications for the computer provided for a comparison of figures for acres fertilized and tons of fertilizer used to insure that they were within acceptable limits and consistent with figures for other related items on the report form.

For cases in which rate of fertilizer or lime applied per acre were outside of reasonably wide acceptable limits or the tonnage report was missing, the computer specifications provided for deletion of the unacceptable figures and imputation for the missing data. Such imputations were based on an acceptable fertilizer report for the item from another farm.

A limited number of crops are not grown commercially without the use of fertilizer. In order to compensate for the failure of some operators to report use of fertilizer, provision was made in the computer edit to impute data for fertilizer usage if it was not reported for specified crops. In general these crops, shown in table 4 by State, had 95 percent or more of their harvested acreage reported as fertilized in the 1964 Census of Agriculture. Small noncommercial acreage of the crops were excluded from this imputation scheme.

Similarly there are a number of crops which, if irrigated, are expected to be fertilized. The computer provided for imputation of fertilizer usage if there was no report. A list of these crops is shown in table 5 by State.

Table 5. Computer Fertilized Crops if Irrigated

	Corn for all purposes	Sorghums	Winter wheat	Spring wheat	Durum wheat	Barley	Dry field and seed beans	Cotton	Popcorn	Irish potatoes	Sweet potatoes	Hops	Berries	Vegeta- bles	Sweet- corn
New England:															
Maine.....	X														
New Hampshire.....	X													X	
Vermont.....														X	
Massachusetts.....													X	X	
Rhode Island.....															
Connecticut.....	X														
Middle Atlantic:															
New York.....	X						X								
New Jersey.....	X		X	X	X										
Pennsylvania.....	X								X				X		
East North Central:															
Ohio.....	X		X	X	X	X									
Indiana.....	X														
Illinois.....	X								X						
Michigan.....	X													X	
Wisconsin.....	X												X	X	
West North Central:															
Minnesota.....	X														
Iowa.....	X														X
Missouri.....															
North Dakota.....	X													X	
South Dakota.....	X													X	
Nebraska.....	X	X												X	
Kansas.....	X													X	
South Atlantic:															
Delaware.....	X														
Maryland.....	X														
Virginia.....	X														
West Virginia.....	X													X	
North Carolina.....	X														
South Carolina.....														X	
Georgia.....	X													X	
Florida.....	X												X	X	
East South Central:															
Kentucky.....	X														
Tennessee.....	X												X	X	
Alabama.....														X	
Mississippi.....	X													X	
West South Central:															
Arkansas.....	X														
Louisiana.....	X														
Oklahoma.....	X	X						X					X	X	
Texas.....								X						X	
Mountain:															
Montana.....										X	X				
Idaho.....	X													X	
Wyoming.....												X		X	
Colorado.....	X	X							X						
New Mexico.....															
Arizona.....	X													X	
Utah.....														X	
Nevada.....	X														
Pacific:															
Washington.....	X		X	X	X										
Oregon.....	X											X		X	
California.....												X	X	X	
Alaska.....													X		
Hawaii.....	X														