## APPENDIX

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Facsimile of schedule for one region only. The questions on the schedules, which relate to color and tenure of the farm operator and value of farm products, were standard for all regions.

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### NOTES ON PRECISION OF DATA<sup>1</sup>

As noted in chapter II, the figures in the tables in this monograph are marked with an asterisk wherever the coefficient of variation, as indicated by sample data, is approximately 10 percent or more. Thus, the chances are approximately 2 out of 3 that the figures not marked with an asterisk are within 10 percent of the true figures, and 19 out of 20 that they are within 20 percent of the true figures. The coefficient of variation or relative error of a sample average is

$$V_{\overline{x}} = \frac{\sigma_{\overline{x}}}{\overline{\overline{X}}} = \frac{\sigma_{x}}{\sqrt{n}\,\overline{x}}$$
(1)

where  $\sigma_{\rm x}$  is the standard deviation, or measure of the amount of variability of x, and  $\tilde{\rm X}$  is the true or population value for the average, while m is the number of farms in the sample. The coefficient of variation of a total obtained by multiplying an average by a known factor is the same as the coefficient of variation of the average. For starring purposes the problem is to find the sample size, m<sub>s</sub>, such that, for all sample sizes, m, smaller than this number; the coefficient of variation will be larger than 10 percent; in other words:

$$\frac{\sigma_{\chi}^2}{m_c \bar{\chi}^2} = .01, \text{ or } m_s = \frac{\sigma_{\chi}^2}{.01 \bar{\chi}^2}.$$
 (2)

Hence, if an estimate were made of  $\sigma_x^2/\bar{X}^2$ , it would be possible to determine the appropriate value of m<sub>s</sub>. As is indicated in chapter II, the sample drawn represented approximately 2 percent of all farms (operators) in the "Under \$10,000" category. Since the stratification was purely geographic, the sampling procedure did not insure the drawing of a 2-percent sample for each of the 8 tenure groups or a 2-percent sample for each of the 2 color groups. Inasmuch as the 1940 population numbers of farms were known for the individual color-tenure groups, the sample figures for each color-tenure group were expanded by the sampling ratio,  $M_1/m_1$ , for that particular color-tenure group (which often departed markedly from 50). If the values of m, for the color-tenure groups appeared in the tabulations, the procedure would be to star all values of m, less than the corresponding values of m, calculated from (2). Unfortunately, only the recorded total number of farms,  $M_1$ , for a particular color-tenure group is shown; the approximation used is that  $m_1 = .02M_1$  and, therefore,

$$M_{s} \doteq \frac{\sigma^{2}_{x}}{(.01)(.02)\bar{x}^{2}}$$
(3)

where  $M_s$  designates the population number of farms such that, for all numbers of farms smaller than this number, the coefficient of variation, V, will be larger than 10 percent. Hence, if the values of V<sup>2</sup> are known, it is possible to star the figure when the corresponding value of M is equal to or less than  $M_s$ .

The problem of obtaining V differs as between classes of items and types of statistics. The methods used for starring table entries, and the assumptions underlying their use, follow.

#### CLASS A.- FARM COUNTS AND DERIVED FIGURES

This class of items includes the figures on numbers of farms having specified properties, with their derived figures, which

are designated in the tables as follows: (a) Farms reporting specified sources of income, such as number of farms reporting dairy products sold or traded, shown in tables 1 to 12, inclusive; (b) farms classified by specified major sources of income, such as number of poultry farms, shown in tables 13 to 22, inclusive; and (c) farms classified by total value of farm products, such as number of farms in the "\$100 to \$249" value group, shown in tables 23 to 28, inclusive.

**Case I.**—The first case falling under this general class is that where the number of farms in the "Under \$10,000" subgroup, having a specified pronerty, is estimated from a sample, or the derived percentage given is this estimate divided by a known total. For example, in table 10 the number of "Farms reporting farm products sold or traded" for "All tenants" in the "Under \$10,000" subgroup is an estimate based on the 2-percent sample and, therefore, falls under Case 1 (A). The corresponding percentages for "All tenants" in the "Under \$10,000" subgroup, shown in the columns "Percent of all farms" and "Percent by color and tenure," were derived by dividing this estimate of the number of "Farms reporting farm products sold or traded" by known total numbers of farms. Therefore, these percentages also come under Case 1 (A).

The mathematical basis for identifying entries which have relative errors of 10 percent or more and, therefore, should be marked with an asterisk is as follows:

The estimate  $R'_1$  for the number of farms having a specified property in Case 1 (A) is

$$\mathbf{R'}_1 = \mathbf{r} \frac{\dot{\mathbf{M}}_1}{\mathbf{m}_1} \tag{4}$$

where r is the number of farms in the sample for "All tenants" in the "Under \$10,000" subgroup having a specified property,  $M_1$ is the known total number of tenants in the "Under \$10,000" subgroup, and  $m_1$  is the number of tenants in the sample for the "Under \$10,000" subgroup, that is, the sample from the  $M_1$  farms. The coefficient of variation squared of  $R'_1$  is approximately

$$V_{R'_{1}}^{2} = \frac{Q_{1}}{.02 P_{1}M_{1}}$$
(5)

where  $P_1$  is the proportion of farms "Under \$10,000" having a specified property, as for example the proportion of "Farms reporting farm products sold or traded," and  $Q_1 = 1-P_1$ . We want  $M_s$ , that value of  $M_1$  such that  $V_{R'_1}^2 = Q_1/.02 P_1M_1 = .01$ . Therefore,

$$M_s \stackrel{\cdot}{=} \frac{Q_1}{.0002P_1} \cdot$$
(6)

As estimates of  $P_1$  and  $Q_1$ , we use the sample proportions  $p_1$  and  $q_1$ . A table was constructed showing the values of  $M_s$  for any value of  $p_1$ . Hence, for a sample estimate of  $P_1$ , that is  $p_1$ , given in the published tables, it was possible to determine whether the number of farms having a specified property should be starred, depending on whether or not the corresponding value of  $M_1$  in the table was equal to or less than  $M_s$ . For greater

<sup>1</sup> These notes were prepared jointly by Morris H. Hansen, William N. Hurwitz, and Irvin Holmes of the Bureau of the Census.

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accuracy in determining whether large values of p, that is values of p greater than .70, should or should not be starred, use was made of published tables and charts<sup>1</sup> to determine the confidence limits of  $p_1$  for samples of varying sizes, and thereby to determine values of  $M_s$  such that the chances were approximately 1 out of 20 that the observed value of p was less than the true value by 10 percent.

As indicated before, the relative error of an estimated total is the same as the relative error of the same estimated total divided by a known total. Therefore, the *percentages* for "All tenants" in the "Under \$10,000" subgroup, described above, were starred whenever the corresponding figure on number of "*Parms* reporting farm products sold or traded" was starred.

Case 2.- The second case is where the number of farms, having a specified property, is made up of an estimate from a sample for the "Under \$10,000" subgroup plus a known total for the "\$10,000 and over" subgroup, and the derived percentage given is this number divided by a known total. In table 10 the number of "Farms reporting farm products sold or traded" for "All tenants" is made up of the estimate from the 2-percent sample for the "Under \$10,000" subgroup of "All tenants," described under Case 1 (A), plus a known total for the "\$10,000 and over" subgroup of "All tenants." Therefore, this figure on number of "Farms reporting farm products sold or traded" for "All tenants" falls under Case 2 (A). The corresponding percentages, appearing in the columns "Percent of all farms" and "Percent by color and tenure," were secured by dividing this estimate of "Farms reporting farm products sold or traded" for "All tenants" by known total number of farms. Consequently, these percentages also come under Case 2 (A). In this case the estimate is

$$R' = M_1 p_1 + M_2 P_2 = R'_1 + R_2$$
(7)

where

- R'1 = M1P1, the estimated number of farms for the "Under \$10,000" subgroup having a specified property
- $R_2 = M_2P_2$ , the known number of farms for the "\$10,000 and over" subgroup having a specified property
- M<sub>1</sub> as before, is' the known number of all farms for the "Under \$10,000" subgroup
- M<sub>2</sub> is the known number of all farms for the "\$10,000 and over" subgroup
- p1 as before, is the sample proportion of farms for the "Under \$10,000" subgroup having a specified property
- P2 is the known proportion of farms for the "\$10,000 and over" subgroup having a specified property.

In this case the coefficient of variation squared of R' is

$$V_{R'}^{2} = \frac{M_{1}^{2} \sigma_{p_{1}}^{2}}{R^{2}}$$
(8)

where R is equal to  $M_1P_1 + M_2P_2$ , that is, the total number of farms having a specified property for the "Under \$10,000" and \$10,000 and over" subgroups combined, and  $\sigma^2_{\rho_1}$  is the variance of  $p_1$  the sample proportion for the "Under \$10,000" subgroup. Now

$$V_{R'}^{2} = M_{1}^{2} \frac{\sigma_{P_{1}}^{2}}{P_{1}^{2}} \frac{P_{1}^{2}}{R^{2}} = \frac{R_{1}^{2}}{R^{2}} V_{R'_{1}}^{2} = \frac{R_{1}^{2}}{R^{2}} \frac{Q_{1}}{.02M_{1}P_{1}}$$
(9)

where  $R_1$  is equal to  $M_1P_1$  and the other terms are defined as before. For fixed values of  $R_1/R$  we would like to find M's,

<sup>1</sup>Clopper, C. J., and E. S. Pearson, "The use of confidence or fiducial limits applied to the case of the binomial." *Biometrika* 28 (1934), 404-413. that value of M<sub>1</sub> such that

$$\frac{R_{1}^{2}}{R^{2}} \frac{Q_{1}}{.02M'_{s}P_{1}} = .01 \text{ or}$$
(10)

$$M'_{s} = \frac{R^{2}_{1}}{R^{2}} \frac{Q_{1}}{.0002P_{1}} = \frac{R^{2}_{1}}{R^{2}} M_{s}$$
(11)

where  $M_s$  is defined as in Case 1 (A).

For simplicity in constructing tables for starring purposes, the values of  $R_1^2/R^2$  were grouped into 10 classes and the midpoints of these class intervals were used as approximations. If values of  $R_1/R$  were available, the starring procedure would be to identify the interval in which  $R_1/R$  falls, and to star R'whenever  $M_1$  is equal to or less than  $M'_s$ . However, only sample estimates of  $R_1/R$ , that is,  $R'_1/R'$ , were available. Because of the grouping and because of sampling errors in the estimates of  $R_1/R$ , some of the values of R' which should have been starred may not have been starred, and conversely.

Since the relative error of an estimated total is the same as the relative error of that estimate divided by a known total, the *percentages* for "All tenants," already described, were starred whenever the corresponding number of "*Farms* reporting farm products sold or traded" for "All tenants" was starred.

**Case 3.**—This case covers the percentages for which the numerator is the known total for a "\$10,000 and over" subgroup, and therefore not subject to sampling error, and the denominator is made up of an estimated total for the corresponding "Under \$10,000" subgroup and the known total for the "\$10,000 and over" subgroup. In table 10 this percentage is found under the column entitled "Percent by value groups," where the "Farms reporting farm products sold or traded" for the "\$10,000 and over" subgroup is shown as a percent of the "Farms reporting farm products sold or traded" for "All tenants," that is, for the "Under \$10,000" and "\$10,000 and over" subgroups combined. This estimate is

$$p_3 = \frac{M_2 P_2}{M_1 p_1 + M_2 P_2} = \frac{R_2}{R'}$$
 (12)

where  $R' = M_1 p_1 + M_2 P_2$ . In this case,  $V^2_{p_3}$  is approximately equal<sup>2</sup> to  $V^2_{R'}$  and therefore the entries for  $p_3$  were starred whenever R' was starred.

**Case 4.**—This case covers percentages for which the numerator is an estimated total for the "Under \$10,000" subgroup, and the denominator is made up of the same estimated total for the "Under \$10,000" subgroup and a known total for the "\$10,000 and over" subgroup. In table 10 this percentage is found under the column entitled "Percent by value groups," where the "Farms reporting farm products sold or traded" for the "Under \$10,000" subgroup is shown as a percent of "Farms reporting farm products sold or traded" for "All tenants," that is, for the "Under \$10,000" and "\$10,000 and over" subgroups combined. In this case the estimate is

$$P_{4} = \frac{M_{1}p_{1}}{M_{1}p_{1} + M_{2}P_{2}} = \frac{R'_{1}}{R'}$$
(13)

 $^2$  The coefficient of variation squared of  $\rho_{\mathfrak{Z}}$  is given by the approximate formula

$$v_{\rho_3}^2 \stackrel{\cdot}{=} v_{R_2}^2 + v_{R'}^2 - 2\rho_{R_2R'} v_{R_2} v_{R'}.$$

Both  $\rho_{R_2R'}$  and  $V_{R_2}^2$  are equal to zero, since  $R_2$  is a known figure and not subject to sampling error; hence,  $V_{P_2}^2$  is approximately equal to  $V_{R'}^2$ .

Ricker, William E., "The concept of confidence or fiducial limits applied to the Poisson frequency distribution." American Statistical Association Journal 32 (1937), 349-356.

 $V^2_{\rho_{\parallel}}$  is approximately equal<sup>1</sup> to

$$\left(1 - \frac{R_1}{R}\right)^2 V_{R'_1}^2 = \frac{R^2_2}{R^2} V_{R'_1}^2 = \frac{R^2_2}{R^2} \frac{Q_1}{.02M_1P_1} \cdot (14)$$

This case is similar to that of Case 2 (A). Here, for fixed values of  $\rm R_2/R$  we would like to find M" $_{\rm s},$  that value of  $\rm M_1$  such that

$$\frac{R^2}{R^2} \frac{Q_1}{02 M'' P_1} = .01 . \text{ Therefore,}$$
(15)

$$M''_{s} = \frac{R^{2}_{2}}{R^{2}} \frac{Q_{1}}{.0002 P_{1}} = \frac{R^{2}_{2}}{R^{2}} M_{s} .$$
 (16)

 $M''_{s}$  in this case differs from  $M'_{s}$  in Case 2 (A) only in that  $M_{s}$  is multiplied by  $R^{2}_{2}/R^{2}$  instead of by  $R^{2}_{1}/R^{2}$ . Hence, the tables constructed for Case 2 (A) were used by identifying the proper group interval by  $R'_{2}/R'$ . The limitations indicated for Case 2 (A) also apply here.

#### CLASS B.---VALUE OF PRODUCTS AND DERIVED FIGURES

The four cases for the farm counts also occur for this class of items; and in addition there are two special cases involving the average value per farm reporting. This class also presented a further problem in that the tabulations did not provide information on the relative errors on which the starring procedure is based. Special tabulations to estimate roughly the value for V were made by color-tenure groups for relevant items.

Case I .- The first case for this class of items corresponds to Case 1 (A) for the farm counts, that is, the value figure for farms in the "Under \$10,000" subgroup, having a specified property, is estimated from a sample, or the derived percentage given is this estimated value divided by a known value. For example, in table 10 the "Value of farm products sold or traded" for "All tenants" in the "Under \$10,000" subgroup is an estimate based on the 2-percent sample and, consequently, falls under Case 1 (B). The corresponding percentage, shown in the column "Percent by color and tenure," was derived by dividing this estimate of the "Value of farm products sold or traded" for "All tenants" in the "Under \$10,000" subgroup by the known "Value of farm products sold or traded" for all tenure groups in the "Under \$10,000" category. Consequently, this percentage also falls under Case 1 (B). The estimate for the value for reporting farms is

$$\begin{array}{l} {}^{\mathbf{m}_{1}} & {}^{\mathbf{M}_{1}} \\ {}^{\mathbf{M}_{1}} & {}^{\mathbf{M}_{1}} = {}^{\mathbf{M}_{1}} \\ {}^{\mathbf{i}} = 1 & {}^{\mathbf{m}_{1}} \end{array}$$
 (17)

where  $\Sigma d_1$  is the value figure for the sample for farms having i=1

a specified property.  $V^2_{0'_1}$  is approximately equal to  $\sigma^2_d/.02M_1$ . As before we want to determine  $M_t$ , a particular value of  $M_1$  such that for all values of  $M_1$  less than this number the coefficient of variation is greater than 10 percent. In other words, we want to find  $M_t$  such that

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where  $\bar{D}_1$  is the average value figure for the population for farms having a specified property.

The values of  $V_d^2$  (the coefficient of variation squared for all farms where those not reporting values were assumed to have zero values) were estimated for the various items falling in this class, and tables were drawn up showing the values of  $M_f$ computed from formula 18. The starring procedure followed was to star all values of D' for which the values of  $M_1$  were less than  $M_f$ .

As indicated before, the relative error of an estimated total is the same as the relative error of this same estimated total divided by a known total. Therefore, the percentage for "All tenants" in the "Under \$10,000" subgroup, previously described, was starred whenever the corresponding figure on "Value of farm products sold or traded" was starred.

Case 2 .- This case parallels Case 2 (A) for the farm counts. In other words, the value figure for farms, having a specified property, is made up of a value estimated from a sample for the "Under \$10,000" subgroup plus a known value for the "\$10,000 and over" subgroup, and the derived percentage given is this value divided by a known value. In table 10 the "Value of farm products sold or traded" for "All tenants" is made up of the value estimated from the 2-percent sample for the "Under \$10,000" subgroup, described under Case 1 (B), plus a known value for the "\$10,000 and over" subgroup of "All tenants." Therefore, this figure on "Value of farm products sold or traded" for "All tenants" falls under Case 2 (B). The corresponding percentage, given in the column "Percent by color and tenure," was secured by dividing this estimated value for "All tenants" by the known "Value of farm products sold or traded" for all tenure groups. Consequently, this percentage also comes under Case 2 (B). Here the estimate is

$$D' = D'_1 + D_2$$
 (19)

where  $D_2$  is the known value for the "\$10,000 and over" subgroup. From considerations identical to those given in Case 2 (A) for the farm counts, the value of  $M'_1$ , that is, that value of  $M_1$ for which  $V_0$ , is equal to 10 percent, is

$$M'_{f} = M_{f} \frac{D^{2}_{1}}{D^{2}}$$
(20)

where  $M_{f}$  is defined in formula 18 under Case 1 (B) and  $M'_{f}$  is that value of  $M_{1}$ , such that for all values smaller than  $M'_{f}$  the coefficient of variation of D' is greater than 10 percent.

For simplicity in constructing the tables for starring purposes, the values of  $D_1^2/D^2$  were grouped into 10 classes and the midpoints of these class intervals were used as approximations. If values of  $D_1/D$  were available, the starring procedure would be to identify the interval in which  $D_1/D$  falls, and to star D' whenever  $M_1$  is equal to or less than  $M'_1$ . However, only sample estimates of  $D_1/D$  were available. As in Case 2 (A) for the farm counts, because of the grouping and because of sampling errors in the estimates of  $D_1/D$ , some values of D' which should have been starred may not have been starred, and conversely.

As in Case 1 (B) the percentage,  $\bar{d}_2$ , for "All tenants," shown in the column "Percent by color and tenure," was starred whenever the corresponding figure on "Value of farm products sold or traded" was starred, since the relative error of an estimated total is the same as the relative error of this same estimated total divided by a known total.

**Case 3.**—This case for the value-of-products items corresponds to Case 3 (A) for the farm counts. In other words, it covers the percentages for which the numerator is the known value for the "\$10,000 and over" subgroup, and therefore not subject to sampling error, and the denominator is made up of an estimated total for the "Under \$10,000" subgroup and the known total for the "\$10,000 and over" subgroup. In table 10 this percentage is found under the column entitled "Percent by value groups," where the "Value of farm products sold or traded" for the "\$10,000 and over" subgroup is shown as a percent of the "Value of farm products sold or traded" for "All tenants," that is, for the "Under \$10,000" and "\$10,000 and over" subgroups combined. Here the estimate is

$$\bar{d}_3 = \frac{D_2}{D'_1 + D_2}$$
 (21)

In Case 3 (A) for the farm counts  $V_{p_3}^2$  was found to be approximately equal to  $V_{R}^2$ . From the same considerations  $V_{\bar{d}_3}^2$  is approximately equal to  $V_{D}^2$ . Hence,  $\bar{d}_3$  was starred whenever D' was starred.

**Case 4.**—As for the farm counts, this case for the value-ofproducts items covers percentages for which the numerator is an estimated value for the "Under \$10,000" subgroup, and the denominator is made up of the same estimated value for the "Under \$10,000" subgroup and a known value for the "\$10,000 and over" subgroup. In table 10 this percentage is found under the column entitled "Percent by value groups," where the "Value of farm products sold or traded" for the "Under \$10,000" subgroup is shown as a percent of "Value of farm products sold or traded" for "All tenants," that is, for the "Under \$10,000" and "\$10,000 and over" subgroups combined. The estimate is

$$\bar{d}_{\mu} = \frac{D'_{\mu}}{D'_{\mu} + D_{\mu}}.$$
 (22)

Here  $V^2_{\sigma_{\downarrow}}$  is equal to  $V^2_{D'_{1}}(D^2_{2}/D^2)$  and  $M''_{f}$  is equal to  $M_{f}(D^2_{2}/D^2)$  from the reasoning given in Case 4 (A) for the farm counts.  $M''_{f}$  in this case differs from  $M'_{f}$  in Case 2 (B) for the value-of-products items only in that  $M_{f}$  is multiplied by  $D^2_{2}/D^2$  instead of by  $D^2_{1}/D^2$ . Hence, the tables constructed for Case 2 (B) for the value-of-products items were used by identifying the proper group interval by  $D'_{2}/D'$ . The limitations indicated for Case 2 (A) of the farm counts and Case 2 (B) of the value-of-products items also apply here.

**Case 5.**—This case covers the average value per farm reporting a specified value item for the "Under \$10,000" subgroup for which the numerator is a value from a sample and the denominator is the sample number of farms reporting the specified value. In table 10 the average value of farm products sold or traded for the "Under \$10,000" subgroup for "All tenants" was secured by dividing the estimated "Value of farm products sold or traded" by the estimated "Farms reporting farm products sold or traded" for that subgroup, consequently this average value per farm reporting falls in Case 5 (B). The estimate in this case is

$$\bar{d}_{5} = \frac{\begin{array}{c}m_{1} & r_{1}\\ \Sigma d_{i} & \Sigma d_{i}\\ \hline{1}_{5} = \frac{i=1}{r_{1}} = \frac{i=1}{r_{1}} \end{array}$$
(23)

 $\begin{array}{lll} & \begin{array}{c} m_1 & \cdot r_1 \\ \text{where } \widetilde{\Sigma d}_1 & = \widetilde{\Sigma d}_1 & \text{is the specified value figure for the sample,} \\ & i=1 \quad i=1 \\ r_1 \text{ is the number of farms in the sample reporting the specified value, and } m_1, \text{ as defined previously, is equal to all farms in the sample for the subgroup under consideration whether or not \\ & \begin{array}{c} r_2 & m_1 \\ r_2 & m_1 \end{array} \\ & \begin{array}{c} they \text{ reported the particular value item. } \widetilde{\Sigma d}_1 & = 2 \\ & i=1 \end{array} \\ & \begin{array}{c} i=1 & i=1 \\ i=1 \end{array} \end{array}$ 

$$V^2_{\overline{d}_5} = \frac{\sigma^2_d}{r_1 \overline{D}_5^2}, \qquad (24)$$

where  $\sigma^2_d$  is now calculated only for those farms reporting the specified value, that is,

$$\sigma_{d}^{2} := \frac{\frac{R_{1}}{\Sigma} \left( d_{1} - \overline{p}_{5} \right)^{2}}{R_{1}}$$

$$(25)$$

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in which  $d_1 = value$  for the i th reporting farm,  $\overline{D}_5 = \frac{i=1}{R_1}$ , and  $R_1 =$  the total number of farms in the population reporting a specified value.

Estimates for  $\sigma_d^2$  and  $\overline{D}_5$  were made for the various items and substituted in formula 24.

The values of  $r_1$  do not appear in the tabulations. As an approximation .02R'<sub>1</sub> was used. Hence, for starring purposes  $R_s$ , the value for which the coefficient of variation of  $\overline{d}_s$  is equal to 10 percent, is approximately

$$R_{s} = \frac{V^{2}_{d}}{.0002}.$$
 (26)

A table was constructed from this formula, on the basis of which the entries for  $\bar{d}_{s}$  were starred when the corresponding R'<sub>1</sub> was equal to or less than R<sub>s</sub>.

It is to be noted that  $\overline{d}_{i}$  is for reporting farms only, and hence the coefficient of variation depends entirely on the variability among the reporting farms. It is generally true that the coefficients of variation for these averages are less than the coefficients of variation for the preceding cases which involve totals or percentages for all farms. Hence, it is quite commonly true that the entries for the former cases may be starred while those for this case would not be starred.

**Case 6**----This case covers the average value per farm reporting a specified value item for the "Under \$10,000" and "\$10,000 and over" subgroups combined, for which the numerator is made up of a value estimated from the sample for the "Under \$10,000" subgroup plus a known value for the "\$10,000 and over" subgroup, and the denominator is made up of a figure on farms reporting the specified value estimated from the sample for the "Under \$10,000" subgroup plus a known figure on farms reporting the specified value for the "\$10,000 and over" subgroup. In table 10 the average value of farm products sold or traded for "All tenants" was secured by dividing the estimate of "Value of farm products sold or traded" for the "Under \$10,000" and "\$10,000 and over" subgroups combined, by the estimate of "Farms reporting value of farm products sold or traded" for the "Under \$10,000" and "\$10,000 and over" subgroups combined. Consequently, this average value per farm reporting comes under Case 6 (B). The estimate is

$$\overline{d}_{6} = \frac{D'}{R'} = \frac{D'_{1} + D_{2}}{R'_{1} + R_{2}}$$
(27)

where  ${\rm D'}_1$  ,  ${\rm D}_2$  ,  ${\rm R'}_1$  , and  ${\rm R}_2$  are defined as before.

The approximation  $^1$  to the coefficient of variation squared, that was used, was

 $^{1}\!A$  more accurate approximation could have been used. The better approximation to the coefficient of variation squared would have been

 $V_{D}^{2}$ ,  $V_{R}^{2}$ ,  $- 2 \rho_{D'R}$ ,  $V_{D}$ ,  $V_{R'}$ .

The approximation actually used assumed that the number of farms in the population reporting the specified value for the "Under \$10,000" subgroup,  $(R_1)$ , was known. Under this circumstance the estimate would be

$$\frac{d_5 R_1 + D_2}{R}$$

and the coefficient of variation squared of this estimate is

$$\frac{R^{2}_{1}\sigma^{2}\overline{d}_{5}}{R^{2}} \frac{R^{2}}{(D_{1} + D_{2})^{2}} = R^{2}_{1}\frac{\sigma^{2}\overline{d}_{5}}{\overline{D}^{2}_{1}}\frac{D^{2}_{1}}{D^{2}} = V^{2}\overline{d}_{5}\frac{D^{2}}{D^{2}}$$
where  $\overline{D}_{1} = D_{1}/R_{1}$ .

$$V^2_{\overline{d}_6} = \frac{D^2_1}{D^2} V^2_{\overline{d}_5}$$
(28)

from the considerations previously given in Cases 2 (B) and 4 (B). Hence the approximate values of  $R'_s$  for starring  $\overline{d}_6$  were obtained by calculating  $R'_s = D^2_1/D^2 R_s$ ,  $R_s$  being the values obtained from formula 26 in Case 5 (B). The values substituted in formula 28 for  $D^2_1/D^2$  were the midpoints of group intervals as in Case 2 (B).

#### GENERAL COMMENTS

It may be pointed out that in every instance, with the possible exception of Case 6 (B) for the value-of-products items, the procedure used may have led to a slight overstarring of the tabulated entries. This results from three causes: (1) As was pointed out in chapter II, the cell entries were adjusted to agree with the recorded marginal totals for all items except one. The adjustment procedure used yields adjusted values approximately equivalent to those obtained from a least-squares adjustment, and hence the actual sampling error in the tabulations is likely to be slightly less than the expected sampling error for the unadjusted data. (2) For the second class of items, value of products, the values for V<sup>2</sup> were overestimates. (3) No account was taken of the stratification actually involved in drawing the sample for the "Under \$10,000" farms. In other words, it was assumed that the sampling was made unrestricted, at random, throughout a State when actually the sampling was stratified to a county level.

# VALUE OF FARM PRODUCTS

		CONFIDENTIAL CENSUS	REPORT Your report is required by	ct of (	Congre	oss. This Act also makes it unlawful for the Bureau to disclose any facts, incl population, resources, and business activities.	uding Your
<b>U</b>		w/	MERCE-BUREAU OF THE CEN ASHINGTON 5 OF THE UNITED STATES: 1940	SUS	19.	IVVALUES, APRIL 1, 1940 . Total value of this farm (land and buildings), includ- ing farm land and buildings rented from others \$	Code A 12
16-240-8			RANCH SCHEDULI			By the manufactor and controlling featers for other sectors (Control of the sector) When the amount for which this farm (Question 13) would (Omit excite) sell. Include the land actually operated by you as owner, found to manager, set all farm buildings and improvements. Grant are machinery, livestock, and land reat- ed by you to teanaits or croppers.	
	Inventor		I Agricultural Operation Production Items, Calendar Yes	ns)	-	If you own a part, but not all, of this farm- (a) How much of the total amount under Ques- tion 19 represents the value of the land and buildings owned by you?	13
· · ·		IFARM OPERATO	OR, APRIL_1, 1940	Code		(Omit cents)	
	1. Na	me of person			20.	. Value of all buildings on this farm	- 14
				-	41	. Value of farm implements and machinery used in	
	3. Ag	dress(Street or Route No.) Note	wn on Population Schedule.	- <u>A</u> 1		operating this farm, including automobiles, trac- tors, motortrucks, and trailers (present market value)	15
	1 II	L. 22. 23. 24	cck (1) in proper block] 	2		Include all farm implements; tools; wagons; harnesses; dairy equipment; ootton gins; threshing machines; combines; apparetus for making eider, grape juice, and sirup and for drying fruits; and all other farm machinery. Omit commercial mills and factories; also parmanently installed irrigation and drainage equipment.	
	5. Do	you reside on this farm?		. 3		V.—FARM MORTGAGE DEBT AND FARM TAXES If you own all or part of this farm—	
	6. If	IIFARM TENUR you rent any farm land from	E, APRIL 1, 1940 others or manage any farm land for sames of the owners of the land and	-		. Was there any mortgage debt on the land and build- ings so owned on April 1, 1940?	- 2 - 2
	ji	indicate for each owner wheth	er a corporation:		23.	. Total amount of outstanding mortgage debt on such land and buildings	- 3
		dress	(Yes or No) (Post office) (State)	-	24.	. What was the annual rate (contract rate) of interest on the first mortgage debt? (Report fractions)	4
		me	Incorporated?	-		If you own all or part of this farm- Give amount of taxes levied in 1939 on the REAL ESTATE of this farm owned by you on April 1,	
	7. WI	(Speet or Route No.) (Speet or Route No.) bat does the landlord fur- lish as his share in the oper- ation of this farm?	(Post office) (State) 8. What did you agree to pay a rent for the year?	B		1940 (include buildings and other improvements, but do not include taxes levied by drainage or irrigation districts)	5
		Work animals		1 -	26.	. Give amount of taxes levied in 1939 on PERSONAL property owned by you on this farm (include livestock, machinery, etc., but do not include automobile taxes, fees, or licenses)	
		Tractor power		_		VIOTHER LAND OWNED, APRIL 1, 1940	=
		(All, ½, ½, etc., or None) Seed(All, ½, ½, etc., or None)	If cash, give total amount, explaining for whe paid, as \$230 for entire farm, \$30 for 15 are pasture, \$75 for 32 areas hay land, etc. If share of crops or of animal increase, giv kind and report share in fractions, as corn, \$ young animals, \$ cotton, etc.		27.	Do you own any land in addition to that shown under Question 107 (Do not include residential and nonfarm building sites)	1
	(e)	Other(Name and give share)	<ul> <li>I definite quantity, give kind and report if bushels, pounds, etc., as 600 bushels wheet 4 bales cotton, etc.</li> <li>If other rent, specify, as upkeep of farm, keep of landlord, etc.</li> </ul>	;	28.	(Yes or No) . How many acres of such land are rented or are to be rented this year to others (including that rented to croppers)?	8
	9. Do	you operate this farm for othe	ers as hired manager?(Yes or No)	-		VII WORK OFF FARM AND YEARS ON THIS FARM	c
	11. Ho	w many acres in this farm d	you own? Acres o you rent from Acres uestion 12, unless operated by a hired manager	4	29.	. How many days in 1939 did you work for pay or income off the farm you operated?	1
	The sur	III.—FARM ACREA The sum of Questions 13 to 18, inclu	GE, APRIL 1, 1940	-		OF THESE, HOW MANY WERE SPENT- (a) At farm work, not connected with your farm?	2
		tal number of acres in this far Omit from this farm any laud new ro others. Include all outlying or separate	nted to or cropped by a fields, meadows, ras-	- Q		(b) At nonfarm jobs (including road work and relief or "made" work), busi- nesses, or professions? Nore,—Total of (a) and (b) must equal total days worked	3
	i e	ures, woodland, or waste lands operated name is given under Question 1, wheth thers, or managed for others. Secure a sech tenant, renter, or croppar. Suggestion To Knumerator.—Before		ł		off the farm. For (b), specify principal nonfarm occupation and industry: Nonfarm	4
	18 L.	Suggestion To Enumerator.—Before Farm Acreage, it may be helpful to fill Column 4 and for the roverse side of sch and from which crops were har Include all field crops, all tame and v	negated in 1939 Agree	6		occupation (Miner, spinner, proprietor, tescher, foreman, section hand, etc.) Industry (Coal mine, cotton mill, general store, W.P.A., C.C.C., N.Y.A., etc.)	-
,	14. La	Include all field crops, all tame and v lens, orchards, and vineyards. Do not wloe, even though two crops ware harve and from which no crop was h because of crop failure or dest	arvested in 1939 ruction Acres	. 7	30.	Year when you began to operate THIS farm	5
	1	List "planted crops which falled" un ormation.	der Supplemental In-			VIII.—IRRIGATION	A
	f 16. Lai	ppland lying idie all of 1939 or allow in 1939 (omit crop failure and used ONLY for pasture or which could be plowed and use	nd land pastured) Acres	- 8		Land from which irrigated crops were harvested in 1939	16
	a (	out additional clearing, drains omit cropland harvested and	age, or irrigation hay eut) Acres	9	1	Land irrigated in 1939 and used ONLY for grazing or pasture	17
	17. Wo	odland in this farm Include as woodland all farm wood istaral or planted, and cutover land which has or will have value as wood or rral and woody shruby.	Acres lots or timber tracts, with young growth, timber. Oznit ohap-	- 10		Irrigation enterprise supplying water: If water is not supplied by an irrigation enterprise, explain, as pumped from own well, stream diversion, or city water, etc. NAME	
	18. All b	other land now in this farm Include rough pasture land (not wood arnyards, feed lots, lanes, roads, etc.	Acres dland pasture), all waste land, also house yards	- 11		ADDRESS	

(Reduced facsimile)

## BY COLOR AND TENURE OF FARM OPERATOR

names or identity, from your census reports. Only sworn consus employees will see your statements. Data collected will be used solely for preparing statistical information concerning the Nation's

						0			T
SCHEDULE No.	DEFI	VITION OF	F A FARM			ENUMERATOR	'S RECORD AND CER	TIFICATE	Code
]	A farm, for Census purpo	ses, is all th	e land on w	hich some agricul	tural		County	E. D.	
1 1	operations are performed by (	ne person, e	other by his o	employees. The	land	State	County	_ No	
	operated by a partnership in	s likewise co	onsidered a f	farm. A "farm"	may	Number of farm in order	of visitation		
	tracts may be held under di	ferent tenur	es, as when	one tract is owne	d by	From Population Sched	ule:		
	the farmer and another tract	is rented by	y him. Whe	n a landowner has	one	Farm operator's name app	ears on Sheet No.	; Line No	
	A farm, for Census purpo operations are performed by o the assistance of members of operated by a partnership is consist of a single tract of lam tracts may be held under dit the farmer and another tract of or more tenants, renters, cro is considered a farm. Thus cropper, renter, or tenant at land operated by the owner o wise be reported as a senarat	, on a plan	tation the l	and operated by	each	Visitation number of farm	operator's household		
	cropper, renter, or tenant sh	nould be rep	orted as a s	eparate farm, and	l the	Visitation numbers of oth	er households on this farm	•	
	wise be reported as a separat	e farm.	· · · ·	1		the identification used	upied dwelling, on this far to designate the place of	m, give n your	1
	farms, mushroom cellars, apis	dairies, nur aries, cranbe	rry bogs, etc.	nouses, natcheries	, Iur	map, as: F-1; V-3, F-2	2; etc		
	Exclude "fish farms," fish	hatcheries,	"oyster farm	is," and "frog far	ms."	Minor Civil			
	initial operated by the owner of wise be reported as a separat Include dry-lot or barn farms, mushroom cellars, api Exclude "fish farms," fish Do not report as a farm a agricultural products in 1989	were valued	at \$250 or n	nore.		Division Give name, also class, as tow	nship, town, ward, precinct, distri	ct, beat, etc.	
THIS COLUMN	IX.—COOPEBATIVE				Code	If any part of this farm is	in another Minor Civil D	ivision, give lo	ocation
FOR OFFICE	Did you, in 1939, transact	any busines	s with or three	ough	C	and acrenge M. C. D.	COUNTY	ACR	ES 1D
USE ONLY	34. A cooperative SELLING	organization	a?	(Yes or No)	6				ES D 20 Q
CODE	35. A cooperative BUYING	organization	•	(Ite or No)	17				2.3
	bo. A cooperative BUTING	organization	1	(Yes or No)	- I '	If this farm is located—			]] 4, 5,
TENURE	<b>36.</b> A cooperative SERVICE	organization	n?	(Ver er Ne)	8	In surveyed area, give S	ee. No; Township .		
				(Yes or NO)	-		ec. No; Township _		
1	37. Number of workers 14 y	-FARM LA		wes paid for farm		In incorporated place, g	give name		
	work on this farm (do i	not include h	ousework or	contract construc-		completed by me at	{a. m.} on the	day of	., 1940.
1. Full owner.	tion work):	Number of sur	sons 14 years old	1	-	(Signed)	(*	Enum	erator.
2. Part owner. 3. Manager.		and over wo	rking the equiv-	Total cash wages paid					
4. Cash tenant.	OLASS OF LABOR	week of-		Total cash wages paid for all hired labor in 1939			PPLEMENTAL INFORMAT		1754
5. Share-cash	•	Mar. 24–30, this year	Sept. 24-30, last year			since Septer	s in the area of this farm o mber 1, 1939 (if none, writ	e "None")	
tenant.	(a) Operator and unpaid	Number	Number	Dollars	D	·			
6. Share tenant.	members of his family.				1, 2	Clerify any unusual and	tries in this report by adeq	uete explanat	tions below.
7. Cropper. 8. Other tenant.	(b) Labor hired by month				_3, 4, 5	Comment on unusual cro	ps, yields, values, acreages	, location and	l ownership
	(c) Labor hired by day or			(Omit cents)		of livestock, etc.:			
SIZE	week. (d) Others (include piece			(Omit cents)	6, 7, 8				
	work and contract labor)		-		9, 10, 11				
	(			(Omit cents)	= 10,11				
1. Under 10.	XIFARM	EXPENDITU	RES IN 193	9					
2. 10-29.	38. Amount expended in 193 and other products for	9 for hay, gr	ain, mill feed	,					
3. 30-49.	and other products for animals and poultry	use as ieco	for domestic	- \$	12		SUMMER FALLOW		
4. 50-69.	39. Amount expended in 193	9 for purchas	se of farm im	(Omit cents)		Land in tilled summer fal	low in 1939 on which no c	rop dor	
5. 70-99.	plements and machines tractors, motortrucks, See kinds of machinery list	and trailers.	automobiles	' \$	13	Include also in Question 15.	in 1939	Acres	
6. 100-139.	See kinds of machinery list 40. Amount expended in 193	ed under Questi 39 for gasoli	on 21. ine. distillate	(Omit cents)		SOII	IMPROVEMENT CRO	PS	
7. 140-179.	kerosene, and oil for us	e on this far	m	. \$	- 14	Total acres of crops plow	ed under in 1939 for soil i	m- ,	
8. 180-219.	41. Amount expended in 19 including lumber, roo	ing materia	ing materials ls, hardware		1	provement purposes O hogged, or otherwise has	NLY—not pastured, graz rvested (green manure crot	ed, a). Acres	
9. 220-259. 10. 260-499.	including lumber, roo cement, paint, fencing this farm	material, et	c., for use of	í e	15	Cowpeas, soybeans, vetches though another crop was grown	NLY—not pastured, graz rvested (green manure crop , rys, stc. Underline or give kin non the same land in 1939. Tha sted or grazed in 1939 should also t	d. Include all si part of this acres	uch crops even
11. 500-999.		*****		(Omit cents)		no crop of any kind was harve		e included under	Question 15.
12. 1,000 and over			Tons	Cost			CROP FAILURE		
	42. Commercial fertilizer-bou for use on this farm (1	eport frac-	/			failure, destruction, or	in 1939 which were not h low prices (do not consid		
STATES	tional tons) 43. Liming materials			\$(Omit cents)	- 16, 17	which were grazed, hog	ged, or otherwise harvested	l for any purp	pose):
Alabama.	nme, mari, gyp-					Name of first crop planted for harvest in 1939 which failed	If replanted to a crop for harvest in 1639, name of second crop	Acres of first crop which	Acres of second crop
Georgia.	sum, etc., bought in 1939 for use on					(1)	(2)	crop which failed (3)	second crop harvested (4)
Mississippi. South Carolina.	Underline or give kind.		******	5(Omit cents)	- 18, 19				
	XUFARM MACHINE	AND FA	CILITIES AF	RIL 1. 1940					
	-				-	Report as renly to Question 14 the	sum of acres in Column 3 minus t	he sum of acres in	a Calumn 4.
			Number of un	its Year of latest mode	c		·····		
	44. Number of automobiles of	n this farm.			9, 10	Crops which were harvest	DOUBLE CROPPING ed in 1939 in succession fu	om the same	8000800
-	45. Number of motortrucks o	n this farm			11, 12		1	Acres of first	Acres of
	46. Number of tractors on th	is farm			13, 14	Name of first crop harvested (1)	Name of second crop harvested (2)	crop harvested	second crop harvested (4)
	47. Is there an electric distri	bution line	within 1 mile			Q	(4)		
·	of the farm dwelling?			(Yes or No)	- 15		**************************************		
	48. If the dwelling is lighted	by electricit	y, check (√)	source of current:					
	1.		s		16	Interplanted crops which	were harvested in 1939:		
DECION	Power line	L	Home pl	ant		Name of principal crop	Name of interplanted crop	Acres of prin-	Acres of inter- planted crop
REGION	49. Is there a telephone on th			(Yes or No)	- 17	(1)	(2)	cipal crop (3)	planted crop (4)
	50. Check $(\checkmark)$ each kind of 1			s located:	1.				
	1. 8.	3		4.	18				
	Hard-surfaced Gravel shale	, shell, , etc.	Improved dirt	Unimproved dirt		NorgDouble cropping must h	o considered in arriving at your re	ply to Question 1	3.
					1				

(Reduced facsimile)

## VALUE OF FARM PRODUCTS

OMITTED INQUIRY NUMBERS REPRESENT CROPS WHICH WILL BE INFREQUENTLY REPORTED IN THIS

	- ON	ITTE	D INQU	IKY NU	MBERS R	EPRI	SENT	CROPS WH
XIV.—LIVESTOCK, APRIL Include animals on this farm or rance belonging to this farm	1, 1940, Al	ND LIV nging to ational	TESTOCK	PRODU	CTS, 1939 t, also animals	Codo		XVORO CORN: Omit s
			Total or	ver 13-	to 27-month-			Also omit pope maize. If grow
51. Horses of all kinds, i	poluding no	mine	3 months	blo	old colts	E		of mixture. NoteThe sum
April 1, 1940	Nun	iber				1,2		88-90 must equ
52. Mules, April 1, 1940	Nun	ber				3,4	87.	Corn for grai
EQ. (1-44)			1040					or machine
53. Cattle and calves over 3 Of this number, h	months old, ow many v	Apr. 1	, 1940. N	umber _		5	89.	56 lb. shelled Corn cut for
54. Cows and heifers t	hat were 2	years o	old and			1	90.	Whole plant
over on January (a) Kept main	1, 1940, and ly for milk	d are~	- ntion? N	Tumber		6		stock, or cu not husked
	-	-						SORGHUMS:
(b) Kept main				umber_		7		atlas, sorghum
Cows milked and a 55. Total cows milked du	ing any dai	t of	[939:				91.	All sorghums
55. Total cows milked due 1939 (include heifers	milked)	N	Jumber			6		Either thre from stalk. 1
56. Milk produced in 1939 pounds=1 gallon)	(report in (	gallons	: 8.6 Gal	lons		9	82.	All sorghums
pounds=1 gallon) Report all milk produce to stock, or otherwise dispo	d, whether cons	umed, so	ld, fed				93.	All sorghums Heads not
57. Butter churned on farm	1 IN 1939		Pot	ınds		19	94.	Sweet sorghu
<ol> <li>Whole milk sold in 1939</li> </ol>	59. Creat	n sold	in 1939	60. E	in 1939			Omit cane g
	Pounds of				ш 1999	11, 12, 13		SMALL GRAD
Fallons	butterfat			Pounds		P	95.	Nore.—Repor Mixed grains
<ol> <li>Value of all dairy produ milk, cream, butter,</li> </ol>	cheese) etc.	aded i	n 1939	\$		1		mixture
								Wheat and oats and barle
62. Sheep and lambs over 1940			Nu	mber		E 14	96.	Mixture. Oats threshed
Of this number	how many	were						Oats cut for
63. Yearling ewes?				unber		15		and fed un
64. Other ewes?			Nu	mber		16	98.	Barley thresh
NOTE.—If this farm has sheep on ha wool shorn in 1939, EXPLAIN.	No and no	mber horn		Pounds o wool sh	đ.		99.	Rye threshod
65. Sheep and lambs shorn Benert the number of she	in 1939s	horn	not the pro-	wool sh	orn	17, 18	101.	Winter wheat
Report the number of she twice, write "Shorn twice."	b suu isuuos si	torn and	I HOT THE DUI	nder of he	soes. It short		107	(or combin Rice (rough
66. Rogs over 4 months old	April 1 10	40	Nu	mber		19		bined)
Of this number. h	ow many 1	were-				1 "		ANNUAL LEG
67. Sows and gilts tha 1939, or will farr	farrowed a	ince I	Dec. 1,	mbor		20		Where grow
	I Catt	le (ercl.		Hogs an	1 Sheep and			report acreage umn. The an
<ol> <li>Animals butchered in for use on this farm</li> </ol>	1998 6	lves)	Calves 8.	pigs 3.	lambs	F		included under
sale from this farm			P			1, 2, 3, 4	100	also be repoi Report fraction
	mber					3,4	100.	Soybeans, tot For hay, be
69. Goats and kids over 4 1940	months old	l, Apri Numb	11,	0785	Other	5, 6		(a) Harves
1010		14 0.000	Kutan jang	0100	other search	1,0		
70. Mohair and kid hair cl	pped in 19	39	Po	unds		1	109.	Peanuts, tota For hay, n
71. Goats milked during a	ny part of 1	939	Nu	mber		8		(a) Harves
	Catt	le (excl. lves)	Calves	Hogs an pigs	d Sheep and lambs			three
Livestock purchases and	ales: 1.		9.	8.	4.	9, 10,		
72. Bought in 1939 Nu	mber		· .			11, 12	110.	Cowpess, tot For hay, p
73. Sold alive in 1939 Nu	mban			1		13, 14, 15, 16		(a) Harves
							111.	Vetches, vely
74. Value of all livestock and cept poultry, bees, and				8		P	1	horse bean
			1			2	118.	Other dry fi (navy, pea
NorgIf this farm has chickens hand but raised none or produc	on Number of over 4 mon on April	nths old	Number n in 1931	aised				ern, kidne and lentils
hand but raised none or produce no eggs in 1939, EXPLAIN.	on April	1, 1940	-[		•	G		Underline
75. Chickens					For office use	1, 2		lima, snap, st vegetables.
76. Turkeys					only +	3, 4	115.	Dry field an
77. Ducks			-			5,6		kind) Omit cowp
78. Other (specify)	11 .		1			7,8		HAY CROPS
Report separately	eeso, guineos, p	igeons,	quail, phease	nts, etc.		1,0	1	acres of land o
79. Total chickens sold	including 1	oroiler	s and Nr	mber		1 9	116.	HAY FROM
Report separately 79. Total chickens sold fryers) alive or dr Omit any sold as baby of	picits.				r		•	
80. Chicken eggs produced	in 1939		Do	ozens		10		
81. Value of all poultry, etc., sold or traded i	ggs, baby	chicks	, poults,			<u>P</u> _3		
				φ				Underline
<ol> <li>Hives of bees, April 1, (a) Owned by other</li> </ol>	1940: • but kent	on this	farm. N	Jumber.				Underline Questions 108 clude peanut where beans of
(b) Owned by you,	on this farm	and o	on non-			1		
farm land such	as deserts, l	biils, sv	wamps,	Jumber.		12	117.	Alfalfa cut fo
				_			118.	Sweetclover
83. Honey produced by yo	r hear in 10	939		ounde	10-1	13	119.	Lespedeza ou
			807	er fox	Mink	-	120.	Clover or tin
FUR ANIMALS IN CAPTIVI	ry:						11	hay (do not
FUR ANIMALS IN CAPTIVI	rY: old,	Jumbe	r			. 14, 15	121.	
FUR ANIMALS IN CAPTIVI 84. Females over 3 months April 1, 1940	ry: old, N	Numbe	r.	antivita		14, 15 18, 17	121.	Small grain l etc
FUE ANIMALS IN CAPTIVI 84. Females over 3 months April 1, 1940	ry: old, n om allver foxes	Numbe and min	n iks kopt in c			1 .		Small grain 1 etc Underline Question 97.
FUE ANIMALS IN CAPTIVI 84. Females over 3 months April 1, 1940	ry: old, n om allver foxes	Numbe and min	n iks kopt in c			1 .	122.	Small grain h etc Underline Question 97. All other tan Include of
FUR ANIMALS IN CAPTIVI 84. Females over 3 months April 1, 1940	ry: old, n om silver foxes , meat, hid als and pel	s, etc	n iks kopt in c			18, 17	122.	Small grain h etc Underline Question 97. All other tan Include of
<ul> <li>YUE ANIMALS IN CAPTUY</li> <li>Semales over 3 months April 1, 1940</li></ul>	ry: old, n om silver foxes , meat, hid als and pel	s, etc	n iks kopt in c			18, 17 P	122.	Small grain etc Underline Question 97. All other tar

		XVOROPS HARVESTED ON	THIS FA	ARM IN 1	939	Code
		CORN: Omit sweet corn (except for silinge Also omit popcorn, "Egyptian corn," kaf maire. If grown with other crops, report t of misture.		Acres harvested in 1939	Quantity harvestod in 1939	
-		NorzThe sum of the acres reported under 88-90 must equal the answer to Question 6	r Questions 57.			H-1
	87. 88.	Total acreage of corn for all purpo Corn for grain, whether snapped,	868		* * * * * *	1, <b>x</b> , x
		or machine-harvested for grain 56 lb. shelled corn or 70 lb. ear corn=1 b			Bu	4, 6, X
	89. 90.	Corn cut for eilage			Tons	7, 8, X
		Whole plant hogged or grazed off stock, or cut for green or dry for not husked or snapped	dder and		* * * * * *	10, X, X
		SORGHUMS: "Egyptian corn," kafir, m	ulo, hegari.			~ ~
		atlas, sorghum cane, sweet sorghums, etc.			Bu	H-2
l	91.	All sorghums harvested for grain Either threshed or fed in the head at from stalk. 1 ton heads =25 bushels grein	fter cutting		Bu	1, 2, X
	92.	All sorghums out for silage only (g			Tons	4, 5, X
	93.	All sorghums cut for hay or fodder Heads not cut off or threshed.	" (dry wt.)		Tons	7, 8, X
	94.	Heads not cut off or threshed. Sweet sorghums harvested for siru Omit cane grown from stalks or cuttings	P	antional agree	Gal	10, 11, X
	_			sectoriti seres	80.	
		NOTE.—Report grain hay under Question	121.			J-95
	95.	Mixed grains, other than a flax an	nd wheat		Bu	1-80 2, 1, X
		Wheat and cats; wheat and barley; who oets and barley; onts and peas; etc. Under	eat and rye; rline or give			H-3
1	96.	Oats threshed (or combined)			Bu	1, 2, X
	97.	Oats cut for grain when ripe or ne and fed unthreshed (omit oat he	ariy ripe ay)		* * * * *	4.X.X J-98
	98	Barley threshed (or combined)			Bu	J-98 2, 3, X
					Bu	J-99 2,3,X
1	101.	Rye threshod (or combined)	threshed		Bu	H-4
	107.	Rice (rough or paddy) threshed	(or com-		162-ib.	1,2,X J-07
	_	bined)			bbl	2, 3, X
ļ		ANNUAL LEGUMES for all purpose	s, except plo		r green manure:	
		Where grown with corn or other crops, report acreage of mixture in second col-	Acres grov	vn in 1939	Nuts, peas, beans, and	
1		Where grown with corn or other crops, report acresse of mixture in second col- mm. The sanual segumes cured for hay included under Questions 108-115 must also be reported under Question 110. Report fractional acreage.	Alone	With other crops	peas, beans, and seed harvested in 1939	K-8
-		also be reported under Odestion 110. Report fractional acreage.		1		2, 3, X, X
	108.	Soybeans, total For hay, beans, grazed or hogged off.			* * * * * *	
		(a) Harvested for beans only			Bu	8, 7, 8, X K-9
		<b>D</b>	1			2,3, X,X
ľ	109.	Peanuts, total For hay, nuts, grazed or hogged off.			XXXXX	7,7
		(a) Harvested for picking and threshing			Lb	8.7. 1. X
		(a) Harvested for pleking and threshing			Lb	8,7, 8,X K-0
3	110.	threshing			Lb	
1	110.	threshing Cowpeas, total For hay, pess, grazed or hogged off.				K-0
		threahing. Cowpeas, total For hay, pess, grazed or hogged off. (a) Harvested for peas.			* * * * *	K-0 2,3,X 8,X 8,X K-1
	111.	threahing. For hay, pess, grazed or hogged off. (a) Harvested for peas. Vetohes, velvetbeans, mung and horse beans (underline kind)		·	* * * * *	K-0 2,3, X, X 8,7, 4, X
	111.	threahing. For hay, peas, grazed or hosged off. (a) Harvested for peas. Vetches, velvetbeans, mung and horse beans (underline kind). Other dry field and seed beans (navy, pea bean, Great North-			x x x x x Bu	K-0 2,3,X 8,7,X 4,K-1
	111.	threahing. For hay, peas, grazed or hosged off. (a) Harvested for peas. Vetches, velvetbeans, mung and horse beans (underline kind). Other dry field and seed beans (navy, pea bean, Great North-	-		x x x x x Bu	K-0 2,3,X 8,7, 8,X K-1 2,3, 4,X K-2
	111.	threahing	-		x x x x x Bu Bu	K-0 2,3, X, X 8,7, 8, X 4, X 4, X 4, X 4, X 4, X
	111. 118.	threahing For hay, peas, grazed or hosgod off. (a) Harvested for peas Vetohes, velvetbeans, mung and horse beans (underline kind) Other dry field and seed beans (navy, pea bean, Great North- ern, kidney, lina, pinto, etc.) and lentils Tuderline or give kind. Roport grean underline or give kind. Roport grean new string, and was beans under rementation string, and was beans under	-	· · · · · · · · · · · · · · · · · · ·	x x x x x Bu Bu	K-0 2,3, 8,7, 8,X, 7, 8,X K-1 2,3, 4,X K-2 2,3, 4,X K-5 2,3
	111. 118.	threahing. For hay, pess, grazed or hogged off. (a) Harvested for peas. Vetohes, velvetbeans, mung and horse beans (underline kind). Other dry field and seed beans (navy, pea bean, Great North- ern, kinder, lima, pinto, etc.) and lentils. Underline or give kind. Roport grean lima, grap, string, and war beans under vegetables. Dry field and seed peas (specify kind).		vegotables	x x x x x Bu Bu	K-0 2,3, X, X 8,7, 8, X 4, X 4, X 4, X 4, X 4, X
	111. 118.	threahing. For hay, pess, grazed or hogged off. (a) Harvested for peas. Vetches, velvetbeans, mung and horse beans (underine hind) Other dry field and seed beans (navy, pea bean, Great North- ern, kichey, lima, pinto, etc.) and lentils. Underline or give kind. Roport grean lima, gnap, string, and war beans under vegetabled. Dry field and seed peas (specify kind). Outie cowpeas. Report peas harvested	green under		x x x x x Bu Bu Bu	K-0 2,3, 8,7, 8,X, 7, 8,X K-1 2,3, 4,X K-2 2,3, 4,X K-5 2,3
	111. 118.	threahing. For hay, pess, grazed or hogged off. (a) Harvested for peas. Vetohes, velvetbeans, mung and horse beans (underline kind). Other dry field and seed beans (navy, pea bean, Great North- ern, kinder, lima, pinto, etc.) and lentils. Underline or give kind. Roport grean lima, grap, string, and war beans under vegetables. Dry field and seed peas (specify kind).	green under	cuttings, co	x x x x x Bu Bu Bu Bu	K-0 2,3, 8,7, 8,X, 7, 8,X K-1 2,3, 4,X K-2 2,3, 4,X K-5 2,3
	111. 118. 115.	threshing. For hay, pess, grazed or hogged off. (a) Harvested for peas. Vetches, velvetbeans, mung and horse beans (underine kind) Other dry field and seed beans (navy, pea bean, Great North- ern, kidney, lima, pinto, etc.) and lentils. Taddentils, and war beas nader vegetables. Dry field and seed peas (specify kind). Outi owrpas. Report peas harvested HAY CROPS: For each hoy, give total p acres of land on which grows. HAY FROM: Cowpeas. So Pennuts. Ye	green under roduction all	Acres	X X X X X Bu Bu Bu Bu Bu	K-0 2,3, 8,7, 8,X, 7, 8,X K-1 2,3, 4,X K-2 2,3, 4,X K-5 2,3
	111. 118. 115.	threahing. For hay, pess, grazed or hogged off. (a) Harvested for peas. Vetohes, velvetbeans, mung and horse beans (underine kind) Other dry field and seed beans (navy, pea bean, Great North- ern, kidney, lima, pinto, etc.) and lentils. Underlike or give kind. Roport grean lima, snap, string, and wax beaus inder vegetable. Dry field and seed peas (specify kind). Onit cowpeas. Roport peas harvested HAY CROPS: For each hor, give total p acres of land on wilds rown. HAY FROM: Cowpeas. So Austria peas. Mon	l green under roduction all beans, vetbeans, reebeans,	cuttings, co	x x x x x Bu Bu Bu Bu	K-0 2, 3, X 6, 7, X 6, K-1 2, 4, X 4, K-2 2, 3, X 4, K-5 2, 4, X 4, X 4, X 4, X 4, X 4, X 4, X 4,
	111. 118. 115.	threahing For hay, pess, grazed or hogged off. (a) Harvested for peas Vetches, velvetbeans, mung and horse beans (underine hind) Other dry field and seed beans (navy, pea bean, Great North- ern, kichey, lima, pinto, etc.) and lentils Underline or give kind. Roport grean lima, gnap, string, and war beans under vegetabled. Dry field and seed peas (specify kind) Ontit cowpoas. Report peas harvested HAY CROPS: For each hor, give total p arcse of land on which grows. HAY FROM: Cowpeas. For Canada peak. Ho Contact peak. Ho	arcen under roduction all robeans. rebeans. rebeans. rebeans. her beans. graweed.	Acres	K K K K X X Bu Bu Bu Bu nating only ence Quantity harvested in 1939	K-0 2.3X 8.7X 8.7X 8.7X 8.7X 8.7X 8.7X 8.7X 8.7
	111. 118. 115.	threahing For hay, peas, grazed or hogged off. (a) Harvested for peas Vetohes, velvetbeans, mung and horse beans (underline kind) Other dry field and seed beans (navy, pea bean, Great North- ern, kinder, lima, pinto, etc.) and lentils Underline or give kind. Report grean lima, snap, string, and war beans under vegetables. Dry field and seed peas (specify kind) Omit cowpeas. Report peas harvested HAY CROPS: For each hay, give total p acres of land on which grown. HAY FROM: Cowpeas. For Canada peas. Mo Guta peas. Mo Guta peas. Ot Vetches. Be Cortabaria.	roduction all roduction all robeans. respeans. ingbeans. her beans. grarwed. pines	Acres	X X X X X Bu Bu Bu Bu Bu	K-0 2, 3, X 6, 7, X 6, K-1 2, 4, X 4, K-2 2, 3, X 4, K-5 2, 4, X 4, X 4, X 4, X 4, X 4, X 4, X 4,
	111. 118. 115.	threahing For hay, peas, grazed or hogged off. (a) Harvested for peas Vetohes, velvetbeans, mung and horse beans (underline kind) Other dry field and seed beans (navy, pea bean, Great North- ern, kinder, lima, pinto, etc.) and lentils Underline or give kind. Report grean lima, snap, string, and war beans under vegetables. Dry field and seed peas (specify kind) Omit cowpeas. Report peas harvested HAY CROPS: For each hay, give total p acres of land on which grown. HAY FROM: Cowpeas. For Canada peas. Mo Guta peas. Mo Guta peas. Ot Vetches. Be Cortabaria.	roduction all roduction all robeans. respeans. ingbeans. her beans. grarwed. pines	Acres	K K K K X X Bu Bu Bu Bu nating only ence Quantity harvested in 1939	K-0 2.3X 5,X 5,X 5,X 5,X 5,X 5,X 5,X 5,X 5,X 5,
	111. 113. 115.	threahing	roduction all roduction all robeans. respeans. ingbeans. her beans. grarwed. pines	Acres	x x x x x Bu	K-0 2,3,X 4,7,7 4,X 4,X 4,X 4,X 4,X 4,X 4,X 4,X
	111. 113. 115.	threahing For hay, peas, grazed or hogged off. (a) Harvested for peas Vetohes, velvetbeans, mung and horse beans (underline kind) Other dry field and seed beans (navy, pea bean, Great North- ern, kinder, lima, pinto, etc.) and lentils Underline or give kind. Report grean lima, snap, string, and war beans under vegetables. Dry field and seed peas (specify kind) Omit cowpeas. Report peas harvested HAY CROPS: For each hay, give total p acres of land on which grown. HAY FROM: Cowpeas. For Canada peas. Mo Gunta peas. Mo Gunta peas. Ot Vetches. Be Cortabaria.	roduction all roduction all robeans. respeans. ingbeans. her beans. grarwed. pines	Acres	K K K K X X Bu Bu Bu Bu nating only ence Quantity harvested in 1939	K-0 2,3,X 4,7,7 5,7,X 4,X 4,X 4,X 4,X 4,X 4,X 4,X 4
	111. 118. 115. 116. 117.	threahing	roduction all roduction all robeans. respeans. ingbeans. her beans. grarwed. pines	Acres	x x x x x Bu	K-0 2.3, X, 7, X,
	111. 118. 115. 116. 117. 118.	threahing	green under roduction all robeans. robeans. har beans. garwood. pines. uded under e also. In- mis "straw"	Acres	x x x x x Bu	K-0 2,3,X 3,7, 4,X K-2; 3,4,X K-2; 4,X K-5 2,3,X J-16 2,3,X J-17 7,3,X J-18 2,3,X J-18 J-1
	111. 118. 115. 116. 116. 118. 119. 120.	threahing	green under roduction all posns, tvebeans, impeans, graveed, pins, e also, la- mis "straw" l, cut for	Acres	x x x x x Bu	K-0 2,3 X, 7, X K-2 2,3, X K-5 2,3, X J-16 Z, 3, X J-17 Z, 3, X J-17 Z, 3, X J-22 Z, Z, Z Z, Z,
5 7	111. 118. 115. 116. 116. 118. 119. 120.	threahing	green under roduction all pheans. twebbens. imgbeans. ber beans. grarweed. pins. uded under de e also. In- mis "straw" 1, cut for rley, rye,	Acres	x x x x x Bu B	K-0 2,3,X 5,7,X 5,7,X 4,X-1 2,3,X 4,X J-16 2,3,X J-16 2,3,X J-17,X 2,3,X J-2,3,X
- 1	1111. 1118. 1115. 1116. 1116. 1117. 1118. 1119. 120. 121.	threahing	green under roduction all pheans. trebeans. trebeans. trebeans. graveed. pins. 	Acres	x x x x x Bu	K-0 2,3 4, K-1 2,3, X 4, K-2; 2,3, X 4, K-2; 2,3, X 4, K-2; 2,3, X 4, X 1-16 2,3, X 1-17, X 1-2, 3,
- 1	1111. 1118. 1115. 1116. 1116. 1117. 1118. 1119. 120. 121.	threshing	green under roduction all pheans. trebeans. trebeans. trebeans. graveed. pins. 	Acres	x x x x x Bu B	K-0 2-3-3 5-7 5-7 5-7 5-7 5-7 5-7 5-7 5-7

J-23

Ton

(Reduced facsimile)

. Draitie, or range of

## BY COLOR AND TENURE OF FARM OPERATOR

GENERAL AREA. WHERE FRACTIONAL ACREAGE OR PRODUCTION IS REQUIRED, REPORT AS:  $\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}, \frac{7}{8}, 1, 1\frac{1}{5}, \text{ETC.}$ 

SCHEDULE No.	CLOVER AND GRASS SEEDS: Report on "country-run" bads.	Acres harvested in 1939		Cođo J-24	SMALL FRUITS: Acres Quan harvested harvested in 1939 in 14 Norz.—Do not report nonbearing acreage.	tity Control 39
	124. Alfalfa seed		Bu	- 2.3,X J-25	172. Blackberries and dewberries (tame	M
	125. Sweetclover seed	-	Bu	- 2, 3, X	only) Qt	<sup>2</sup> , M-
	126. Lespedeza seed Korean, Kobe, sericea, etc. Underline or give kind.		Lb	J-28	78. Raspberries (tame only)	2, M-
	127. Clover seed		Bu	J-27	181. Strawberries Qt	
	Red, mammoth, Ledino, alsike, crimson, white Dutch, etc. Underline or give kind.			J-28	183. Other (specify)	M- 2.1
	128. Grass seed. Timothy, redtop, bluegrass, millet, Sudan, canary grass, etc. Underline or give kind.		ass, crosted wheat-	- 2, 3, X		2,1 M- 2,1
	grass, etc. Underline or givo kind. MISCELLANEOUS CROPS;	1	1	1	Report: Binsberries, boysonberries, currants, gooseberries, loganberrie berries, etc.	s, young-
	Report fractional acreage.	1		L-29		
19117	129. Irish potatoes Grown for home use or for sale.	•	Bu Running	- 1, 2, X L-30	TREE FRUITS, NUTS, AND GRAPES: 84. Land in bearing and nonbearing fruit	N (15
THE BOVE SPACE	130. Cotton harvested		square bales (Fractions)	1, 2, X	orchards, vineyards, and planted nut	(1s itea caly 1, 2
			Bu	L-31	trees, April 1, 1940 (omit nurseries) Acres	'''
FOR HER	131. Sweetpotatoes and yams. Grown for home use or for sale.			1,2,X 1-32	KIND OF FRUIT: Number of trees or vines, Quer April 1, 1940 har	atity
OFFICE USE	132. Tobacco (total, all types) Give type number or local designation. If more than 1 type, give separate reports for each below:		Lb	- 1, 2, X	in	ested
ONLY	than 1 type, give separate reports for each below:				Weight basis. Do not include trees and age age fresh	basis
			Lb		vines in nursery.	N-8
STATES			Lb	L-33	85. Apples Bu	A 5. N-8
labama.	133. Sugarcane (not sorghum) for sirup		Gal	1, 2, X	86. Cherries	4, 5, N-8
eorgia. Iississippi.	<ul> <li>133. Sugarcane (not sorghum) for sirup. Include both thick and slender stalk variaties grown from stalks, cuttings, or stubble.</li> <li>140. Silage crops, other than corn and sorghums</li> </ul>		(Burup)	L-40	89. Peaches Bu	4.5. N-9
outh Carolina.	(specify)		Tons	1,2,X	92. PearsBu	4.5
	<ul> <li>(specify). Albifa slage, soybean slage, ost slage, etc. Omit Albifa slage, soybean slage, ost slage, etc. Omit Hyproducts, as best tops and pup, pes vines, etc.     </li> <li>Roof and grain crops (other than corn and annual legumes) hogged or grazed off.     </li> </ul>					N-9
	191. Hoot and grain crops (other than corn and annual legumes) hogged or grazed off			L-41 1, X, X		4.5. N-9
	142. Other field crops not else- where reported		Unit	L- 1, 2, X	98. Grapes Lb	4.5 N-9
	Give name and unit of measure.	1	Unit	1-	99. Figs (all varieties) Lb 208. Other tree fruits, except	4.5. N-
	Report; Buckwheat. Flax for grain. Go Broomcorn. Chufas. Ghasag. Ku	Iden seal. ]	Popeorn, etc.	1, 2, 1	citrus	
		idza.			Give name and unit of measure. Unit	
	143. Value of the crops reported under Question 142 (including landlord's share) which	s 87 were		P	Unit	N.
	or are to be sold or traded	\$	(Omit cents)	5	Unit	4.5. N-
			(ount territs)		Report: Apricots, jujabes, nectarines, Japanese persimmons, pome quiness, etc.	4, 5,
	VEGETABLES FOR FARM HOUSEHOLD(S') 144. Value of vegetables grown on this farm in	1939			quincês, etc.	
	for consumption by your family and by households on this farm. Omit Irish and sweet potatoes, also any vegotables fe	y all		M-44	10. Improved pecans (budded,	N-1
	Omit Irish and sweet potatoes, also any vagetables fe	d to animals.	(Omit cents)	<b>Å Å</b> 3	grafted, or top-worked) Lb	4, 5,
	VEGETABLES harvested in 1939 FOR SA	LE (not fe	or home use):		11. Wild or seedling pecans Lb	7, a, N-1
	VEGETABLES harvested in 1939 FOR SA Include regetables sold to canneries. Nors. Where a grop was harvested following be another on the same land during the year, a report arrage for each grop.	88→		P	14. Tung nuts Lb	
	another on the same land during the year, big	5 8 1		6	15. Other puts Lb	
*	Transfer Black Provident and I	isr.	egetables harvested in 1939 for sale	7	Specify.	4,5, N·
The following, if for sale, to be reported under	Report fractional acreage. Omit ocuts <u>Acres</u> Value <u>Code</u> Report fr	Unit	Acres Value	.		4,5, N-
Question 168: Globe arti-	M-46	-		M-61	Beport: Cultivated chestnuts, English or Persian walnuts, etc.	
chokes. Italian green	146. Asparagus \$\$_161. Lettuc	×	<b>\$</b>	2,3	and the second	
sproating broccoli.	147. Green lima	nions	s	M-62 2,3	CITRUS FRUITS:	ty har- 1939-40 bloom 939
Brussels spronts. Cauliflower.	148. Spap. string. or M-48			M-63	Crop harvested, season of 1939-40. Res age age of	\$39
Swiss chard. Ohavote.	war beans		<b>-</b>	2,3 M-64	16. Oranges (satsumas, tange-	N-1
cabbage.	149. Beets (table)\$\$ and pir	nientos		2,3	rines, mandarins, etc.)Bu	4, 5, N-
Collards. Water cross.	151. Cabbage	b		M-65	28. Other citrus	<del>N-</del> 4, 5,
Dandellons. Dasheen, Eggolant	muskmelons,			M-66	Give name and unit of measure. Unit	N-
Eggplant. Endiva. Escarole.	honeyballs, hon- eydews, casabas, Farsian, oto		<b>5</b>	2, 3 M-67	Unit	4, 5, N-
Garlic, Horseradiab.	Persian, 600 8 2,3 167. Water	melons		2,3	Report Generated by manage language to	4.5,
Kale. Kohirabi.	159. Carrots \$	•	\$\$	M- 2,3	Report: Grapeirult, kumquats, lemons, limes, etc.	
Mustard (greens). Okra	155. Celery	Specity.		M-	29. Value of all fruits and nuts, including small fruits, produced in 1939 (1939-40 season for	P
Green onions and shallots.	M-58		\$	2,3 M-	citrus) that were or are to be sold or traded \$	8
Parslov.		rately any at	her verstables sold	2,3	(Omit c	
Paranips, Hot peppers, Pumpkins, Radishes,	157. Cucumbers	and sweet p	her vegetables sold otatoes.	1	XVI.—VALUE OF PRODUCTS USED AND OF FOREST PRODUCTS	SOLD
khuoard.	e	و بع		P	IN 1939	
Romaine. Rutabagas. Salsify.		888. 918. 		7	231. Value (estimated) of products of this farm in 1939 that were used by your family and by	
laisny. Iquash. Farnips, etc.	HORTICULTURAL SPECIALTIES: Beport fractional acreage.	Amaine	Sales in		all households on this farm (meat milk, poul-	P
	169. Crops grown under glass (flowers and plants.	Area in• 1939	Sales in 1939		try, eggs, honey, vegetables, fruits, firewood, fuel wood, etc.)\$	9
FLIUN	also vegetables) and propagated mush- rooms		\$	M-69	(Omit c	uts)
REGION	Underline which. 170. Nursery products (trees, shrubs, vines,	(Sq. feet)	(Omit cents)	- 2,3 M-70		
	ornamentals, etc.)		\$	- 2,3	132. Value of forest products sold in 1939. Include firewood, fuel wood, standing timber, sawlogs, veaces logs, pubwood, miles props, taabarz, charcoal, fence posts, relired ties, poles and piling, turpentive, relin, maple	1
		(Acros)	(Omit cents)	1 an ma	Include firewood, fuel wood, standing timber, sawlogs, (Omit of	anta)
<b>`</b> K	171. Flower and vegetable seeds, bulbs, and flowers and plants grown in the open			M-71 - 2,3	vencer logs, pulpwood, mine props, tanbark, charcoal, fance	

(Reduced facsimile)

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