

APPENDIX C

ANALYSIS OF MONTHLY LABOR REQUIREMENTS

The data on monthly labor requirements were based upon the acreage in various commodities and the requirements for all labor as established by detailed farm management records for most of those crops, supplemented by additional information for specific crops when not covered by these farm management records. Tables 51 and 52 (pp. 130 and 131) show the crops and acreages, the monthly per-acre labor requirement, and the total labor requirement in each community for Arvin and Dinuba, respectively.

Crop acreages were obtained from the Agricultural Adjustment Agency data. Alfalfa, cotton, grain, sorghums, pastures, and potatoes were given directly for the year 1940. Minor crop acreages were eliminated. Grapes were segregated from deciduous fruits in Arvin on the basis of average tonnage shipped during the 3 years 1941-43. Eleven percent of the total acreage was allocated to deciduous fruit and 89 percent to grapes. About 90 percent of all deciduous fruits were plums, and the seasonal labor requirements for plums was used for the total quantity. The error would amount to far less than 10 percent here, because all deciduous fruits compete heavily for labor. In Dinuba fruits were segregated into four classes, based upon proportions of each as indicated in the data obtained from the local farm labor office.

Monthly requirements for all labor were obtained from a series of records taken by the staff of the Bureau of Agricultural Economics from farm operators in the upper San Joaquin Valley. The following tabulation indicates the number of records used for each major crop, or the alternate source of data.

Crop	Type units include	Number of records
Alfalfa.....	Old alfalfa, all sizes.....	9
Cotton.....	All sizes.....	27
Grain.....	Barley.....	4
Sorghum.....	Milo (medium size).....	1
Pasture.....	Medium irrigated pasture.....	3
Potatoes.....	All sizes.....	7
Raisin grapes.....	Thompson seedless.....	8
Other grapes.....	Thompson seedless (leaving out turning and rolling of trays).....	8
Deciduous fruit (Arvin).....	Data on plums from R. L. Adams ¹	
Deciduous fruit (Dinuba).....	Data on miscellaneous fruits from Farm Labor Advisory Committee. ²	
Citrus fruit (Dinuba).....	Data on citrus fruits from Farm Labor Advisory Committee. ³	

¹ R. L. Adams, Agricultural Labor Requirements and Supply, Kern County. Mimeographed Report No. 70, Giannini Foundation of Agricultural Economics, June 1940, Berkeley. Table 9, p. 16.

² Tabulation entitled "1944 Estimate of Number of People Needed in Agriculture in Tulare County," summary of survey by Agricultural Extension Service in cooperation with Tulare County Farm Labor Advisory Office.

The data from farm records include all labor, while those from published sources refer to hired labor only. No correction was made for this difference, since the total amount of labor involved and the proportion of work performed by the operator is small.