Committee And And File

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Soil Conservation Service

Economics and Social Sciences Division

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Determining Cost-Share Rates for Watershed Protection Projects

Social Sciences Technical Note No. 1

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Introduction and Purpose

This technical note provides guidance and a procedure for determining, in PL-566 projects, if a watershed, or a community within a watershed, might need increased cost-share rates and suggests an appropriate rate. The use of the procedure described in this technical note will provide a nationally consistent rationale for requesting increased cost-share rates from the Director, Watershed Projects Division.

The procedure uses a weighted scale of indicators that reflect economic and social conditions in communities. The procedure also gives special consideration to watersheds or communities that have a high percentage of protected groups.

Watersheds may be evaluated on a total watershed area, or, if conditions warrant, evaluations may be made on a sub-watershed (i.e., community) basis. If a watershed, sub-watershed, or community is found to be eligible for increased cost-share rates, and those rates are approved, then all beneficiaries in that area are eligible for that rate.

To ensure that cost-share funds are distributed mostly to socially disadvantaged farmers and ranchers, the Director of the National Watershed Projects Division has placed a dollar cap of \$20,000 on the total amount of PL-566 cost-share money any land owner or beneficiary can receive at the higher rate. After a person has received \$20,000 of PL-566 financial assistance, the cost-share rate reverts to the normal 65% rate. In unusual situations, the state conservationist can request an exception to the \$20,000 limit. This request is to be submitted to the Director of the National Watershed Projects Division with appropriate documentation.

Procedure

The first step is to determine average values in the watershed or community for the indicators below (see "Informational Sources," page 4, for definitions and data sources). In order to provide flexibility to the rating system and not to penalize farmers or ranchers who may be disadvantaged, but have either small or large operations, there are two sub-indicators under indicator 1; choose only one sub-indicator to obtain a rating for 1. For example, if 1a has a rating of 2 and 1b has a rating of 3,

use the highest rating for indicator 1 (rating 3). There are no sub-indicators for indicators 2 and 3.

Add together the three ratings (rating 1a or 1b + rating 2 + rating 3) and use the scale to translate the rating into a cost-share level.

	Indicator	Value Ra	ating
1a.	Value of land	75% or less than State average	5
	and buildings:	76% - 80% of State average	4
	average per	81% - 85% of State average	3
	farm in the	86% - 90% of State average	2
	watershed	91% or more of State average	1
1h	or Value of land	75% or less than State average	-5
10.	and buildings:	76% - 80% of State average	4
	average per	81% - 85% of State average	3
	acre in the	86% - 90% of State average	2
	watershed	91% or more of State average	1
2.	Per Capita	75% or less than State average	5
۷.	Income	76% - 80% of State average	4
	meome	81% - 85% of State average	3
		86% - 90% of State average	2
		91% or more of State average	1
3.	Percentage of	40% and over	5
٥.	Protected	30% to 39%	4
	Groups 1, 2	20% to 29%	3
	Cioups	10% to 19%	2
		Less than 10%	1

¹ Protected Groups include: (1) Hispanics, (2) Blacks, (3) Asians or Pacific Islanders, (4) American Indians or Alaskan Natives, and (5) disabled.

² Congress has also identified "female" as a protected group. This rating system does not evaluate "female" as a separately protected group because it is assumed that females compose roughly half the population of all counties, watersheds, and communities. However, if female owner and operators, solely or jointly, are a significantly higher portion of the population in an area than males, then document this difference and request a higher rating for indicator 3.

Rating Scale

Add up ratings of indicators 1a or 1b and 2 and 3 and .nd the cost-share level in the table below.

Ratings	Cost-Share Level		
15	90%³		
11 to 14	85%		
9 to 10	80%		
7 to 8	75%		
5 to 6	70%		
3 to 4	65%		

³ Although 90% is a relatively high cost-share level, this amount does not guarantee the participation of disadvantaged people (e.g., participation is likely to be low for people who earn \$7,000 per year if 10% of a conservation practice is \$1,000). For populations that are extremely poor, in-kind work can substitute for their part of the payment. This can enable the farm or ranch owner or operator to pay their percent of the conservation measure, even if they have a low cash flow.

Informational Sources

This section outlines sources of information to provide documentation for determining cost-share levels in disadvantaged farm areas. To attain reliable information, it is a good idea to acquire the most currently available information. This may mean acquiring recent census publications from Federal or state agencies, gathering primary data (e.g., personal interviews, written or phone surveys of the community conducted by the district or a local college), or examining secondary data such as real estate reports, newspapers, or university studies. Use as many sources as necessary to arrive at a reasonable estimate of an indicator.

Table 1 lists the Consumer Price Index from 1900 to 1990. It also presents a simple procedure for converting a previous year's dollar value to a 1990 value.

Indicator 1a-1b: Value of land and buildings: Average per farm or per acre in the watershed

Definition and sources of information:

- Defined in the Agricultural Census as an estimate of the current market value of land and buildings owned, rented or leased from others, and rented or leased to others. Market value refers to the value the land and buildings would sell for under current market conditions.
- 1987 Census of Agriculture. Table 10 has state values from State Data section; In the County Data section, both Table 1 and Table 5 have state and county values.
- Interview any or all of the following: local residents, real estate agents, public officials, local leaders, Chamber of Commerce, college teachers, Farmers Home Administration employees, private bankers, real estate newspaper reporters, and tax assessors⁴.
- Mail or phone survey (conducted by a non-federal entity; SCS can conduct a survey if the survey instrument is reviewed and approved by the Office of Management and Budget)
- Real estate section of local newspapers, examine public records of real estate transactions at the courthouse or an appropriate public agency (e.g., FmHA)
- County and City Data Book, U.S. Department of Commerce, Bureau of the Census⁴.
- Tract reports PHC80-2-258 which list statistics for household income, number employed, et al.
- Table 191 Economic Characteristics for the Rural Farm Portion of Counties 1980 (Volume 1, Chapter 3, General, Social and Economic Characteristics - Census of Population.

Indicator 2: Per capita income

Definition and sources of information

 Table 2, "Per Capita Income," lists per capita money income in 1987 for each state.

⁴ These informational sources are appropriate to use for each indicator.

- Defined in the County and City Data Book as the aggregated total personal income in a specified area during a calendar year, divided by the resident population. Total personal income consists of all wage and salary disbursements, pensions, transfer payments, bonuses, etc. It is measured before deduction of income and other personal taxes, but after deduction of personal contributions for Social Security, government retirement, and other social insurance programs.
- PL26, No. 86 Regions of U.S. (County level) Current
 Population Reports, Local Population Estimates Series
 P-26, No. 86 (Call 301-763-5060, to request report for
 your state).
- Bureau of Economic Analysis (Call [202] 523-0917 or 523-0966 for April edition of Current Business Survey, back issue is \$5.50) This lists per capita by county and state or call Government Printing Office.

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Submit written requests for your state, counties and national to:

Regional Economic Information System U.S. Department of Commerce Bureau of Economic Analysis, BE55 Washington, DC 20230

ATTN: Kathy Albetski

Also available on IBM compatible 5 1/4" floppics and magnetic tape.

 Current Population Report - Consumer Reports, P-6O, No. 161 - Money, Income and Poverty Status in U.S., 1987

Indicator 3: Ethnicity, race, and sex

Definition and sources of information:

- Census Tracts. The 1980 Census of Population and Housing - PHC8O-2 - Metropolitan Area.
- County. General, Social and Economic Characteristics, PC8O-I-C (Series of numbers to designate the state)
 Department of Commerce, Bureau of Census.
- · Census of Agriculture. State and County:
 - Female Table 16, Tenure and Operator Characteristics, state section
 - Female Table 10, Tenure and Operator Characteristics, county section
 - Table 32 Farm Operators Black and Other Races
 - Table 33 Farm Operators Black and Other Races by Tenure
 - Table 34 Operators by Selected Racial Groups
 - Table 35 Operators of Spanish Origin

Expressing Economic Magnitudes in Constant Prices

There are a number of indices that can be used to convert costs, etc. from different time periods to dollars of constant purchasing power. The consumer price index (CPI) is commonly used, and is appropriate for most applications. The conversion process is best explained with an example. Average monthly earnings of a farm laborer in 1909 were \$21.30. How much would it have taken in 1988 to equal the same purchasing power? Multiply \$21.30 by the CPI for 1988, 118.3, and divide by the CPI for 1909, 9. \$21.30 X 118.3/9 = \$279.97.

Table 1.	Consu	mer P	rice Ind	lex, 198	32-84 =	100	_,
			OD!	17	CDI	Van	CPI
Year	CPI	Year	CPI	Year	CPI	Year	
1900	8.3	1925	17.5		24.1	1975	53.8
1901	8.3	1926	17.7	1951	26.0	1976	56.9
1902	8.7	1927	17.3	1952	26.5	1977	60.6
1903	9.0	1928	17.1	1953	26.7	1978	65.2
1904	9.0	1929	17.1	1954		1979	72.6
1905	9.0	1930	16.7	1955		1980	82.4
1906	9.0	1931	15.2	1956	27.2	1981	90.9
1907	9.3	1932	13.6	1957	28.1	1982	96.5
1908	9.0	1933	12.9	1958	28.9	1983	99.6
1909	9.0	1934	13.4	1959	29.1	1984	103.9
1910	9.3	1935	13.7	1960	29.6	1985	107.6
1911	9.3	1936	13.8	1961	29.9	1986	109.6
1912	9.7	1937	14.3	1962	30.2	1987	113.6
1913	9.9	1938	14.1	1963	30.6	1988	118.3
1914	10.0	1939	13.9	1964	31.0	1989	124.0
1915	10.1	1940	14.0	1965	31.5	1990	130.7
1916	10.9	1941	14.7	1966	32.4		
1917	12.8	1942	16.3	1967	33.4		
1918	15.0	1943	17.3	1968	34.8		
1919	17.3	1944	17.6	1969	36.7		
1920		1945	18.0	1970	38.8		
1921		1946	19.5	1971	40.5		
1922		1947		1972	2 41.8		
1923		1948	24.1	1973	3 44.4		
1924		1949		1974	4 49.3		
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Originally prepared by the National Economy and History Branch, ARED, ERS, February 1991

Table 2. Per Capita Income (1987)

	Amount			
-	(dollars)			
State	9,615			
Alabama	11,521			
Arizona	13,263			
Alaska	9,061			
Arkansas	13,197			
California	12,271			
Colorado	16,094			
Connecticut	12,785			
Delaware	12,456			
Florida	11,406			
Georgia	12,290			
Hawaii	9,159			
Idaho	12,437			
Illinois	11,078			
Indiana	11,198			
Iowa	11,520			
Kansas	9,380			
Kentucky	8,961			
Louisiana	10,478			
Maine	14,697			
Maryland	14,389			
Massachusetts	11,973			
Michigan	12,281			
Minnesota	8,088			
Mississippi	11,203			
Missouri	9,322			
Montana	11,139			
Nebraska	12,603			
Nevada	13,529			
New Hampshire	15,028			
New Jersey	9,434			
New Mexico	13,167			
New York	10,856			
North Carolina	9,641			
North Dakota	11,323			
Ohio	9,927			
Oklahoma	11,045			
Oregon	11,544			
Pennsylvania	12,351			
Rhode Island	9,967			
South Carolina	8,910			
South Dakota	10,448			
Tennessee	10,448			
Texas	9,288			
Utah	9,288 11,234			
Vermont	13,658			
Virginia	12,184			
Washington	8,980			
West Virginia				
Wisconsin	11,417			
Wyoming	9,826			

Source: Census Bureau Press Release CB90-36, as cited in Census and You, April 1990.