

**Redwood County CD-52
Redetermination of Benefits
Viewers Report
January 19, 2022
(Draft)**

Valuation prior to drainage

Beginning land use, property value, and economic productivity have been determined with the consideration that the benefited properties within the watershed originally did not have an adequate outlet for artificial drainage.

- “A” – Standing water or cattails, wetland classification with economic productivity for agriculture purposes of \$0 per acre, and a market value of \$1,000 to \$2,000
- “B” – Seasonally flooded/pasture ground. Pasture classification with economic productivity of \$90 per acre based on grazing days and/or hay values, and a market value of \$2,500 to \$3,500.
- “C” – Wet subsoil – Generally farmable land with moderate crop potential, with annual economic productivity of \$487 per acre based upon average annual yield of 78% of optimum with \$326 production costs, and a market value of \$4,000 to \$5,000.
- “D” – Upland areas not needing artificial drainage and intermixed with wetter soils, with annual economic productivity of \$549 per acre based upon an average annual yield of 88% of optimum with \$326 production costs, and a market value of \$5,000 to \$6,000.

Valuation with NRCS recommended drainage

Potential land use, property value, and an increase in economic productivity, after public and private drainage have been installed as NRCS design standards as recommended in the Minnesota Drainage Guide, using current crop rotation, income, and expense:

- “A” – Drained slough area, medium classification land with economic productivity of \$506 per acre based upon average production of 81% of optimum with \$326 per acre production costs, and a market value of \$5,000 to \$6,000.
- “B” – Well drained ground, high land classification with economic productivity of \$543 per acre based upon average annual production of 87% of optimum with \$326 production costs, and a market value of \$5,500 to \$7,000.
- “C” – Well drained ground, highest land classification with economic productivity of \$574 per acre based upon average annual production of 92% of optimum with \$326 production costs, and a market value of \$6,000 to \$8,000.
- “D” – Well drained ground, high land classification with improved farm ability, with economic productivity of \$593 per acre based upon average production of 95% of optimum with \$326 production costs, and a market value of \$5,500 to \$7,000.

Utilizing these productive values, potential benefit values were determined for the system based upon a 25 year effective life with proper maintenance, private tile improvement cost were depreciated over the same 25 year period, and an allowance of 0.5% return on the system investment. A three year average Township yield was used for the benefit value calculations along with a three year average sale price for the corn and beans.

Increased productivity

<u>Crop</u>	<u>Yield</u>	<u>Value</u>	<u>Income</u>	<u>%</u>	<u>Adjusted</u>
Corn	192.3	\$3.82	\$735	50%	\$367
Beans	54.6	\$9.41	\$514	50%	\$257
					\$624

Production costs

Corn	\$426 X 50% =	\$213
Beans	\$226 X 50% =	\$113
		\$326

Potential Benefit value

	<u>"A"</u>	<u>"B"</u>	<u>"C"</u>	<u>"D"</u>
	81% of \$624	87% of \$624	92% of \$624	95% of \$624
	\$506	\$543	\$574	\$593
Minus cost of production	<u>\$326</u>	<u>\$326</u>	<u>\$326</u>	<u>\$326</u>
Net income	\$180	\$217	\$248	\$267
Previous income	<u>\$0</u>	<u>\$90</u>	<u>\$161</u>	<u>\$223</u>
Increased income	\$180	\$127	\$87	\$44
Private tile costs	<u>\$56</u>	<u>\$31</u>	<u>\$27</u>	<u>\$18</u>
Annual increase	\$124	\$96	\$60	\$26
Capitalized for 25 years @ ½ %	\$2,898	\$2,252	\$1,416	\$602
% of potential Benefit	80%	80%	80%	80%
Reduced benefit Value	\$2,318	\$1,801	\$1,133	\$482

The potential benefit values have been reduced to reflect a less than optimum yield.

Summary

Redwood County CD-52 consists of 9,290.26 acres of farmland, building sites, city, and roads, with benefits of \$10,437,580

- a. 8,297.16 acres of farmland and building sites in Redwood County in Paxton, Redwood Falls, and New Avon Townships
- b. 794.00 acres in the city of Redwood Falls
- c. 199.10 acres of State, County and Township roads
- d. 9,290.26 total acres

Average land benefits, (reduced) over a 25 year period are \$1,433 per acre

- a. A soil \$2,318
- b. B soil \$1,801
- c. C soil \$1,133
- d. D soil \$482

Building site benefits

- a. (Average of B + C + D soils) X 1.5 = **\$1,708**

Ponds, woodland, and non-benefited acres

- a. **\$0**

Road benefits

- a. Gravel roads, County or Township
(Average land benefit) X 1.0 = **\$1,433**
- b. Paved roads, State or County
(Average land benefit) X 1.50 = **\$2,150**
- c. Paved roads wide, State or County
(Average land benefit) X 1.25 = **\$1,792**

Tile benefits

- a. A tile benefit was given for most County tile at a rate of **\$0.50 per linear foot**. This value was given because of the ease of access for private tile, and also for the drainage the County tile may provide. 162,175 feet of County tile, **\$79,688 of tile benefits**

Outlet Benefits

Redwood County CD-52 Lateral 87 outlets into CD-52 in the SW ¼ of section 5 of Paxton Township. Using acres, drainage coefficient, amount of open ditch used, along with other factors, it is the Viewers recommendation that CD-52 Lateral 87 pay for 3.4% of any repairs and maintenance of CD-52. (This includes acquiring the grass strip easement)

Redwood County CD-48 outlets into CD-52 in the SE ¼ of section 5 of Paxton Township. Using acres, drainage coefficient, amount of open ditch used, along with other factors, it is the Viewers recommendation that CD-48 pay for 0.3% of any repairs and maintenance of CD-52. (This includes acquiring the grass strip easement)

Redwood County CD-44 outlets into CD-52 in the SE ¼ of section 1 of Redwood Falls Township. Using acres, drainage coefficient, amount of open ditch used, along with other factors, it is the Viewers recommendation that CD-44 pay for 0.4% of any repairs and maintenance of CD-52. (This includes acquiring the grass strip easement)

Grass strip right of way easement acres

The Viewers and Engineer recommend establishment of a permanent one rod grass strip on each side of the total length of the open ditch, as per Minnesota Ditch Law, 103-E.021. This State law requires establishment of this 16.5 foot grass strip, beginning at the top of the berm, and extending outward. This strip must be planted in perennial vegetation of grass or legumes. The landowner is responsible for the control of noxious weeds. No fences or grazing of livestock is allowed within the one rod grass strip. The Viewers and Engineer recommend that no trees be allowed within this right-of-way.

Grass strip right of way easement damages on cropland acres

Redwood County Assessor average value per CER for land sales in Paxton, New Avon, and Redwood Falls Townships for 2020 is \$97.40 per CER. Paxton, New Avon, and Redwood Falls Township average CER is 71.0. \$97.40 times 71.0 = \$6,915. \$6,915 is the value per acre for the cropland acre easement **\$6,915 X 23.41 acres = \$161,880**

Grass strip right of way easement damages on RIM permanent easement acres

Redwood County Assessor average value per CER for land sales in Paxton, New Avon, and Redwood Falls Townships for 2020 is \$97.40 per CER. Paxton, New Avon, and Redwood Falls Township average CER is 71.0. \$97.40 times 71.0 = \$6,915. \$6,915 times 25% = \$1,729. \$1,729 is the value per acre for the RIM permanent easement acres
\$1,729 X 2.96 acres = \$5,118

Grass strip right of way easement damages on building sites, trees or non-benefited acres

Redwood County Assessor average value per CER for land sales in Paxton, New Avon, and Redwood Falls Townships for 2020 is \$97.40 per CER. Paxton, New Avon, and Redwood Falls Township average CER is 71.0. \$97.40 times 71.0 = \$6,915. \$6,915 times 10% = \$692. \$692 is the value per acre for the building sites, trees or non-benefited acres
\$692 X 2.56 acres = \$1,772

Total easement damages

Grass strip right of way easement = **\$168,770**

Crop damages

Crop damages will be paid per acre on standing crops damaged by construction or repair on the County open ditch or County tile as determined by the Redwood County Ditch Inspector.

Benefits and damages statement

This report covers the redetermination for a previously constructed drainage system. The basis for determining benefits and damages is therefore, based upon a comparison of the conditions that would have existed prior to the County open ditch and County tile systems construction, with those that do exist with the drainage system in a reasonable state of repair. Supporting documentation for the analysis and conclusions of the report are contained in our files and are available for inspection. The figures stated herein are based on a full and fair comparison of all pertinent facts and information that we were aware of at the time of this redetermination process. The following aids were used in this viewing process.

- Redwood County online GIS parcel information site
- USDA web soil survey
- Google Earth aerial satellite photos
- Yield averages taken from USDA national agriculture statistics service
- Production costs taken from University of Minnesota FinBin
- Average commodity sale prices taken from University of Minnesota FinBin
- Sales data from the Redwood County Assessor office and website
- Visual inspection of each 40 acre parcel or less
- Consultation with Redwood County Auditor / Treasurer and the Redwood County ditch inspector

The Viewers determined that the lands affected by the drainage system are generally similar and that the following comments refer to all such tracts.

1. **Existing land use, property value and economic productivity:**

Land is presently used for city, building sites, roads, and for agricultural purposes. The property value is consistent with most agricultural land sales within Redwood County. Agricultural lands are primarily used for the production of corn and soybeans. The land has good economic productivity when properly drained.

2. **Potential land use, property value and economic productivity from the drainage system:**

The drainage system has been in existence for many years and provides drainage for agricultural purposes. The property value is consistent with most agricultural land sales within Redwood County. Land affected by the drainage system has the potential to produce above average yields.

3. **The benefits or damages from the drainage system:**

Benefits derived by lands affected by the drainage system are due to (A) Improved capacity to remove surface waters due to previous construction and maintenance of the County open ditch and County tile system, which results in an increase in the current market value of property; or (B) an increase in the potential for agricultural production as a result of the previous construction and continued maintenance of the drainage system; or (C) increased value of the property as a result of potential different land use.

4. There is no damage to any riparian rights.

5. There are no acres added to any tract or lot and there are no public waters, wetlands, and other areas not currently being cultivated, that are proposed to be drained in this proceeding.

6. There are no acres which before the drainage benefits could be realized would require a public waters work permit to work in public waters under 103G.245 to excavate or fill a navigable water body under United States Code, Title 33, Section 403, or a permit to discharge into waters of United States under United States Code, Title 33, Section 1344.

7. There are no acres being assessed for drainage of areas that would be considered conversion of a wetland under United States Code, Title 16, Section 3821, if the area was placed in agricultural production.

This report is respectfully submitted to the Drainage Authority of Redwood County by:

Mark Behrends _____

Robert Hansen _____

Kendall Langseth _____

John Thompson _____

Submitted this 19th day of January 2022