

County Yellowstone Source of Information
% O. F. Goddard 304 N. 31, Billings

1. Water User A. L. Hoblit Address Carlinville, Ill.

2. ~~Stream~~ Big *Ditch* Tributary to Basin Yellowstone

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

4. Description of System

5. Type of Irrigation

6. Original Appropriator Address

7. First Use: Year Acres Irrigated

8. Maximum Use: Year Acres Irrigated

9. Present Use: Year 1941 Acres Irrigated 99.4

10. Last Use: Year Why Abandoned

11. Condition of System

12. Land Description SW $\frac{1}{4}$, Sec. 24, T 1S, R 24E

Has $12\frac{1}{2}$ shares under Big Ditch

[illegible]

WITNESS: Lether Information by _____
Place _____

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information State Engineer's Office1. Water User Conrad Lenhardt, Sr. Address 214 So 33 St, Billings2. Stream High, Big Tributary to Basin Yellowstone3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range 4. Description of System 5. Type of Irrigation 6. Original Appropriator Address 7. First Use: Year Acres Irrigated 8. Maximum Use: Year Acres Irrigated 9. Present Use: Year 1941 Acres Irrigated 180.710. Last Use: Year Why Abandoned 11. Condition of System 12. Land Description NE $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$, Sec. 13, T 1S, R 24ERemarks: Has 40 shares under High DitchHas 24 shares under Big Ditch WITNESS: LetterInformation by Conrad LenhardtPlace Billings office Dec 1941



STATE OF MONTANA

STATE ENGINEER

Billings,
~~Butte~~, MONTANA
December 9, 1942

Mr. Conrad Lenhardt, Sr.
214 So. 38" St.
Billings, Montana

Dear Mr. Lenhardt:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the information necessary to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of your land that is irrigated is shown in blue.

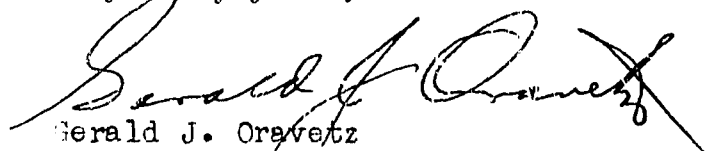
Second: Please indicate on the enclosed form the land irrigated from each ditch. If possible please answer those questions checked in red on the enclosed form.

Third: If you have any land that is effected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,


Gerald J. Oravetz
Assistant Engineer

GJO/rh
enc.

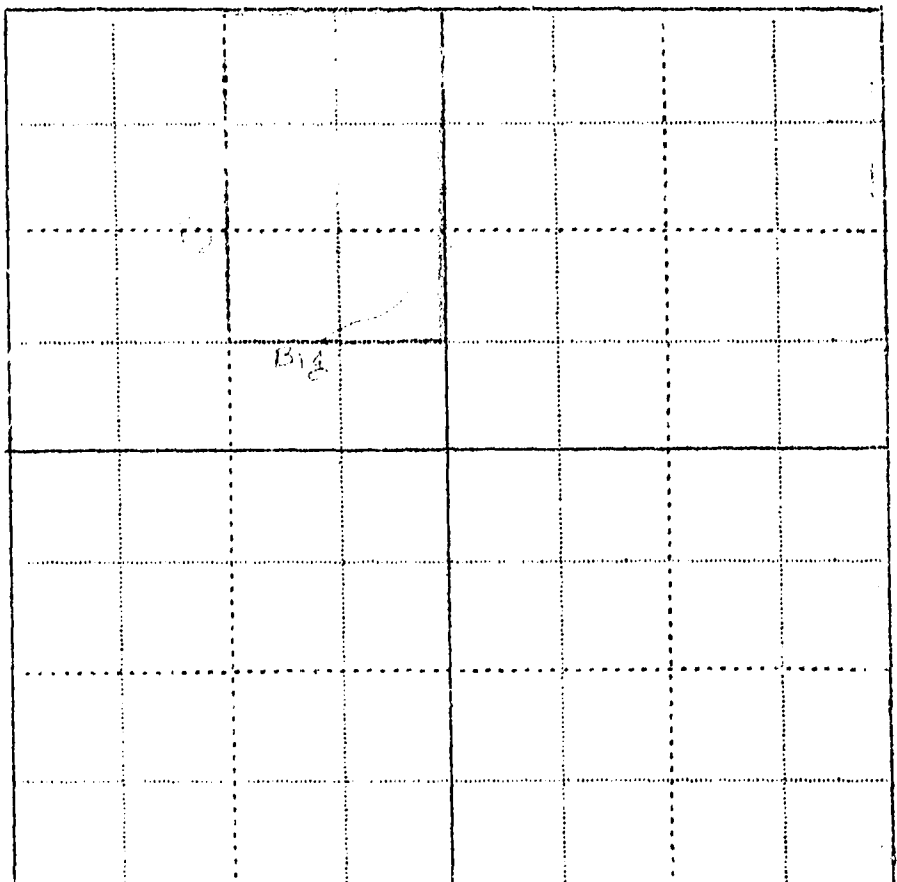
FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

- County Yellowstone Source of Information A.G. A. 10387
1. Water User Conrad Lenhardt Sr. Address 214 So. 38th St. Billings Mont.
2. Stream High Big Tributary to _____ Basin _____
3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section _____ Township _____ Range _____
4. Description of System _____
5. Type of Irrigation _____
6. Original Appropriator _____ Address _____
7. First Use: Year _____ Acres Irrigated _____
8. Maximum Use: Year _____ Acres Irrigated _____
9. Present Use: Year 1941 Acres Irrigated 180.7
10. Last Use: Year _____ Why Abandoned _____
11. Condition of System _____
12. Land Description N²E⁴, N²SE⁴ Sec 13, T 13, R 24E.

Remarks: _____

40 acres under these
24 acres under Big



WITNESS: _____ Information by _____

Place _____

Billings,
XXXXXXX
December 9, 1942

Mr. Conrad Lenhardt, Sr.
214 So. 38th St.
Billings, Montana

Dear Mr. Lenhardt:

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Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Oravetz
Assistant Engineer

GJC/rh
enc.

4

- Has ¹/₂ shares under Big Ditch

7/14/19

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

10

$$\frac{1}{4} \quad \frac{7}{4}$$

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1

Address

Year	Acres Irrigated
1950	1,000
1951	1,000
1952	1,000
1953	1,000
1954	1,000
1955	1,000
1956	1,000
1957	1,000
1958	1,000
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2027	1,000
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2030	1,000

Year	Acres Irrigated
1950	1,000
1951	1,000
1952	1,000
1953	1,000
1954	1,000
1955	1,000
1956	1,000
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2016	1,000
2017	1,000
2018	1,000
2019	1,000
2020	1,000

Year	Acres Irrigated
1950	1,100
1951	1,100
1952	1,100
1953	1,100
1954	1,100
1955	1,100
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2012	1,100
2013	1,100
2014	1,100
2015	1,100
2016	1,100
2017	1,100
2018	1,100
2019	1,100
2020	1,100

<u>Year</u>	<u>Why Abandoned</u>

n

ALL, 10-12, T 10, R 10-12

Remarks: _____

103 ~~char. under the~~

Figure 1. A schematic diagram of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group received a standard training program, while the experimental group received a modified training program. The subjects were then tested on a series of tasks, and their performance was compared between the two groups.

Abstract

[illegible]

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Journal compilation © 2006 Blackwell Publishing Ltd

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[illegible]

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Journal compilation © 2006 Blackwell Publishing Ltd

[illegible][illegible]

Information by _____

Place _____

FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information AAA 1036

1. Water User Park & City Mach. Co. Address 9 Madison St., Bellm.

2. Stream Tributary to Basin

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

4. Description of System

5. Type of Irrigation

6. Original Appropriator	Address

7. First Use: Year Acres Irrigated

8. Maximum Use: Year Acres Irrigated

9. Present Use: Year 1941 Acres Irrigated 62.0

10. Last Use:	Year	Why Abandoned

11. Condition of System

12. Land Description *1/3 Sec 36* T *13*, R *24 E.*

Remarks:

WITNESS: _____ Information by _____

Place 10042

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information AAA 1081

1. Water User Victor Miller Address Rte 1 - Billings

2. Stream Big & High Tributary to Yel R. Basin C.B.

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section 1 Township 15 Range 24 E.

4. Description of System Open ditch & laterals

5. Type of Irrigation Surface

6. Original Appropriator Benjamin Address Billings

7. First Use: Year Acres Irrigated

8. Maximum Use: Year Acres Irrigated 134.2

9. Present Use: Year 1942 Acres Irrigated 134.2

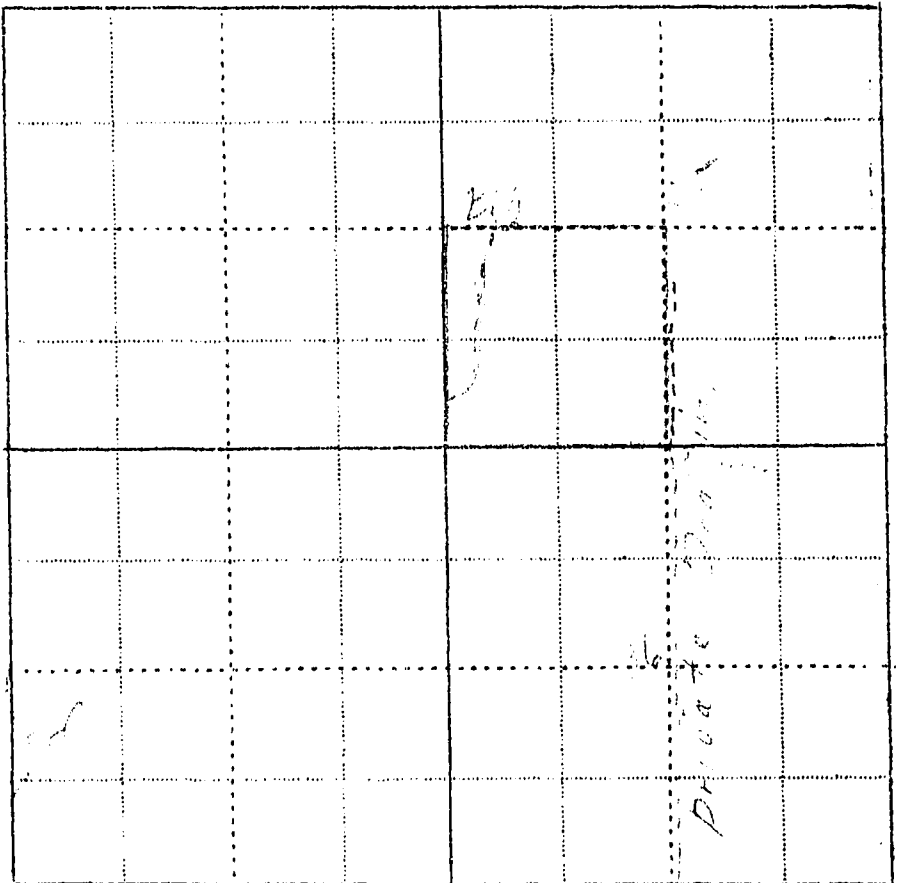
10. Last Use: Year Why Abandoned

11. Condition of System Ditch and cleaning

12. Land Description S. 25, Sec. 25, T 15, R 24 E.

Remarks:

25 acres under irrigation
 15 acres under ditch
 10 acres in alfalfa
 1150 ft. long
 Ditch of water
 in ditch
 1100 ft. long
 Ditch under water
 Ditch of water
 will be under water



WITNESS:

Information by

Victor Miller

Place

Billings,
xxxxxxx
December 9, 1942

Mr. Victor Miller
Route 1
Billings, Montana

Dear Mr. Miller:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

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Second: ~~Please indicate~~ on the enclosed form the portion of your land that is irrigated from each ditch.
If possible, answer those questions checked in red on the enclosed form.

Third: If you have any land that is effected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

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Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Oravetz
Assistant Engineer

GJO/rh
enc.

xxxxxxx
Billings
February 2, 1943

Mr. Victor Miller
Route 1, Box 177
Billings, Montana

Dear Mr. Miller:

On December 9, 1942 and December 10, 1942 we sent you letters asking for certain information pertaining to your irrigated lands in Township 1 South, Range 24 East and Township 1 South, Range 25 East. To date we have not heard from you. It is essential that we have this information in order to show the extent of water use in the Yellowstone Basin. This information is necessary to insure present and future development in the irrigation enterprises in the state.

The 1939 Session of the Montana Legislature enacted a law (Sec. 349.63 Montana Session Laws) requiring the State Engineer to investigate and prepare a complete record of all water rights in the state. In compliance with this law all water users in the state are being requested to supply information regarding their use of water.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If you cannot supply us with the information we requested, it may be that you can tell us of someone who can. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Oravetz
Assistant Engineer

GJO/rh

County Hotone Source of Information 4/12/197

1. Water User John J. [illegible] Address Windham, Me.

2. Stream _____ Tributary to _____ Basin _____

3. Point of Diversion 1/2 1/2 Section _____ Township _____ Range _____

4. Description of System

5. Type of Irrigation

6. Original Appropriator _____ Address _____

7. First Use: Year _____ Acres Irrigated _____

8. Maximum Use: Year _____ Acres Irrigated _____

9. Present Use: Year 1954 Acres Irrigated 100

10. Last Use: Year _____ Why Abandoned _____

11. Condition of System _____

12. Land Description 1/4 Sec 34, T 12 N, R 10 E

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

[illegible]

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[illegible]

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 103–110

Source: <http://www.fishbase.org>

CHANDLER, R. 1997. *Journal of the American Water Resources Association* 33:1039-1048.

1

Age

Place _____

P. 27^v

Billings,
XXXXXXX
December 9, 1942

Mr. Fred Nelson
Windham, Montana

Dear Mr. Nelson:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. Irrigated land is shown in blue.

Second: Please indicate on the enclosed form what portion of your land is irrigated from each ditch.

If possible, please answer those questions checked in red on the enclosed form.

Third: If you have any land that is effected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings.

If you cannot give us the desired information concerning your land, perhaps you can tell us of someone who can. Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Gravetz
Assistant Engineer

GJC/rh
enc.

Place _____

A STUDY OF MONTANA'S WATER RESOURCES

County YellowstoneSource of Information State Engineer's Office1. Water User Harry PenningerAddress 20 Ohio Ave., Laurel2. Stream Cove

Tributary to

Basin Yellowstone

3. Point of Diversion

 $\frac{1}{4}$ $\frac{1}{4}$

Section

Township

Range

4. Description of System

5. Type of Irrigation

From Canyon Creek?

6. Original Appropriator

W. T. Thomas

Address

Billings Mont

7. First Use:

Year

1909

Acres Irrigated

1000

8. Maximum Use:

Year

Acres Irrigated

9. Present Use:

Year

1942

Acres Irrigated

25 est.30.00

10. Last Use:

Year

Why Abandoned

11. Condition of System

12. Land Description Sec. 3, less Frac. S $\frac{1}{2}$ SE $\frac{1}{4}$ T 1SR 24E

Remarks:

per appropriation No 6-264-269Has 6 shares under Cove Ditch10 acres insect 4 - 10 insect 510 in sect 910 in10 in10 in10 in10 in10 in10 inWITNESS: Letter

Information by

Place

Harry PenningerLaurel Mont

Billings
XXXXXXX
December 9, 1942

Mr. Harry Penninger
20 Ohio Ave.
Laurel, Montana

Dear Mr. Penninger:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of your land that is irrigated is shown in blue.

Second: If possible, please answer the questions checked in red on the enclosed form.

Third: If you have any land that is affected by seepage or land that has been irrigated which is not ~~wile~~, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Gravetz
Assistant Engineer

GJG/rh
enc.

A STUDY OF MONTANA'S WATER RESOURCES

County	Source of Information
--------	-----------------------

1. Water User _____ Address _____
2. Stream _____ Tributary to _____ Basin _____
3. Point of Diversion _____ Section _____ Township _____ Range _____
4. Description of System _____
5. Type of Irrigation _____
6. Original Appropriator _____ Address _____
7. First Use: Year _____ Acres Irrigated _____
8. Maximum Use: Year _____ Acres Irrigated _____
9. Present Use: Year _____ Acres Irrigated _____
10. Last Use: Year _____ Why Abandoned _____
11. Condition of System _____
12. Land Description _____, T _____, R _____

Remarks: _____

[illegible]

WITNESS Information by _____

Place _____

Please Do Not Fill in Any Items on This Page

Notice of Appropriation

1. County Yellowstone Book F Page 402 Record Misc.
2. Name of Appropriator C. J. Thomas Address Billings, Mont.
3. Date Appropriated Sept. 30, 1909 Date Filed Sept. 30, 1909
Amount Appropriated, Miners Inches _____, Cubic Feet per second 30
4. Name of Stream Canyon Creek Tributary _____ Basin _____
5. Point of Diversion On a line between sec. 5 & 8, 1S 24E about 1/4 mile west of
east line of sec. 5 & 8 & above where main canal of Cove ditch crosses Canyon Creek,
Sec. _____ Twp. _____ Rge. _____ Bank of Stream _____
6. Purpose Irrigation, other useful & beneficial
7. Description of System Dam, pipe. Dam 400 ft. long, 30 ft. high, 12 ft.
wide on top, built with concrete core. Water to be pumped thru
pipe line, one running north, the other south from dam.
Pipe lines to be 16 inches in diameter
8. Land Description of Intended Place of Use All sec 3, 1S, 24E
All " 5, 1S, 24E
E²E² " 18, 1S, 24E
All " 17, 1S, 24E
9. Remarks (Pertaining to Use, etc.) _____

Decree

10. Case No. _____ Date _____ Amt. Decreed: M. I. _____ C. F. S. _____
11. To Whom Decreed _____ Address _____
12. Name of Ditch _____ Maximum Capacity (C. F. S.) _____
13. Date of Priority _____ Purpose _____
14. Land Description of Place of Use as Decreed _____

Remarks: 2 Mrs. Elizabeth Perry, 2 Ida Perry, agt. Billings, past
and, occupied by Fred Perry and

[illegible]

Place

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12. Land Description S 1/4 SW 1/4, So. of RR, Sec. 13, T 1S, R 24E

20 shares under High Ditch

Lebanon in Biographical

[Faint handwritten text, possibly "The end of the world"]

Place Billings, Montana

Dec 23 1942

12. Land Description _____, T _____, R _____

20.4 cm under 2nd

[illegible]

Place

Billings,
XXXXXXXXXX
December 9, 1942

Mr. Frank Phelan
Route 1
Billings, Montana

Dear Mr. Phelan:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of your land that is irrigated is shown in blue.

Second: If possible, please answer those questions checked in red on the enclosed form.

Third: If you have any land that is effected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Gravetz
Assistant Engineer

GJC/rh
enc.

FORM SM-1

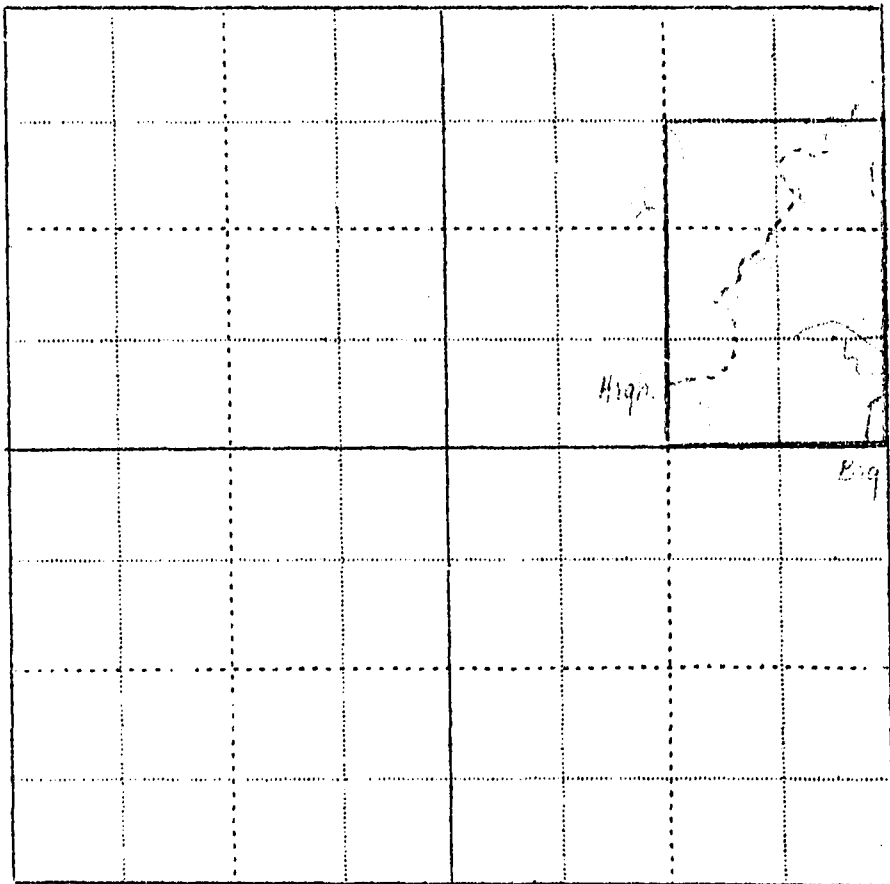
A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information AAA 1071
1. Water User Ralph & P.E. Ronau Address Laurel, Mont.
2. Stream Hipa - Cave Tributary to _____
3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section _____ Township _____ Range _____
4. Description of System _____
5. Type of Irrigation _____
6. Original Appropriator _____ Address _____
7. First Use: Year _____ Acres Irrigated _____
8. Maximum Use: Year _____ Acres Irrigated _____
9. Present Use: Year 1941 Acres Irrigated 168.8 1311 & 1/2
10. Last Use: Year _____ Why Abandoned 1942
11. Condition of System _____
12. Land Description SE 1/4, S 27 1/2 E 1/4, Sec. 26, T 18, R 24 E.

Remarks: _____

25 channels under Cave

64 channels under Cave



WITNESS: _____ Information by _____

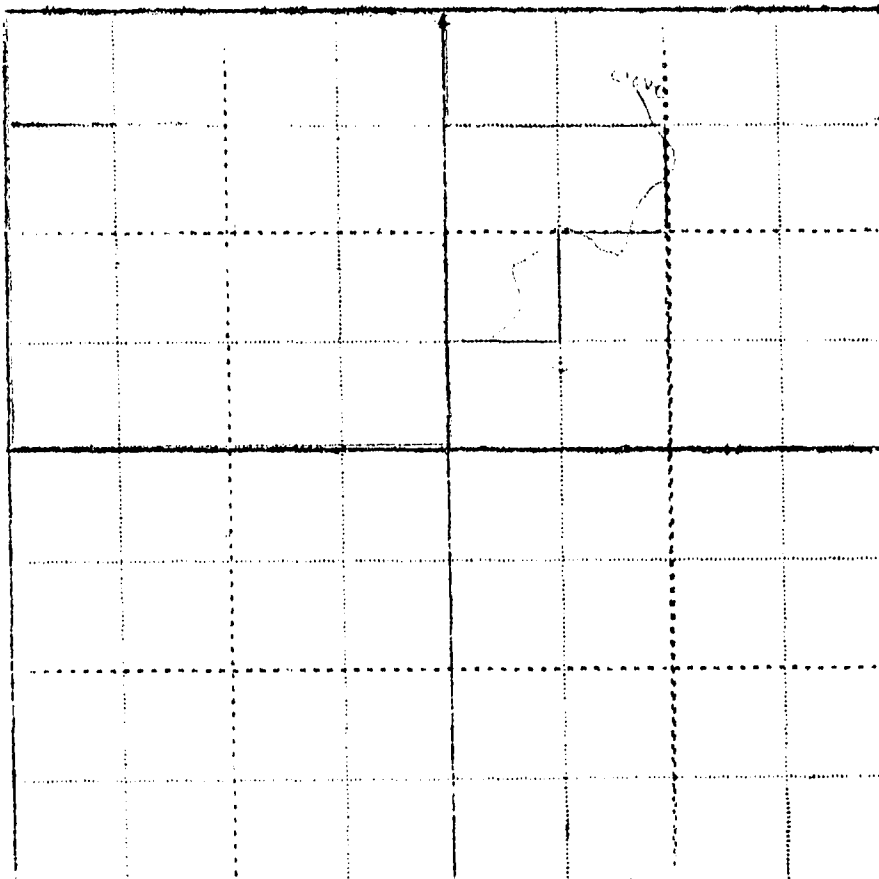
Place _____

Geo. Buff, Jr., C.
A STUDY OF MONTANA'S WATER RESOURCES

- County Yellowstone Source of Information State Engineer's Office
 % Louis Dousman
1. Water User Security Life Ins. Co. Address Billings (Treasure State Bldg.)
 2. Stream Cove Tributary to Yel R. Basin Yellowstone
 3. Point of Diversion Same as Cove Ditch Section 4 Township 4 Range 4
 4. Description of System Headgate & laterals
 5. Type of Irrigation Gravity & Conduits
 6. Original Appropriator Cove Ditch Co. Address Billings
 7. First Use: Year Acres Irrigated Since ditch built 1880
 8. Maximum Use: Year Acres Irrigated 20 acres before ditch was incorp.
 9. Present Use: Year 1941 Acres Irrigated 17.3
 10. Last Use: Year Why Abandoned
 11. Condition of System Good
 12. Land Description Sec. 27; S $\frac{1}{2}$ NW $\frac{1}{4}$; NW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 26, T 1S, R 24E

Remarks:

16
Has ~~144~~ shares under Cove Ditch

WITNESS: LetterInformation by Security Life Ins. Co.Place By Louis Dousman - GaltDec. 12, 1942

A STUDY OF MONTANA'S WATER RESOURCES

1. Water User	Address
...	...

2. Stream Long Tributary to Basin

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

4. Description of System

5. Type of Irrigation

6. Original Appropriator	Address

7. First Use: Year Acres Irrigated

8. Maximum Use: Year Acres Irrigated

9. Present Use: Year 1957 Acres Irrigated 1220

10. Last Use:	Year	Why Abandoned

11. Condition of System

12. Land Description Sec 27, T 14 N, R 24 E

Remarks:

Richardson

WITNESS, Information by

Place _____

Billings,
Montana
November 3, 1942

Security Life Insurance Co., J. Louis Cousman
Treasure State Bldg.
Billings, Montana

Dear Mr. Cousman:

The States of Montana, Wyoming, and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but such information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. To such of the information needed to show the extent of water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigation is the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of your land that is irrigated is shown in blue.

Second: If possible, please answer those questions checked in red on the enclosed form.

Third: If you have any land that is affected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building, in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us or you may phone us at 3787.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Gravets
Assistant Engineer

GJC/rh
enc.

The figure consists of two separate line graphs. The left graph plots 'Rate of reaction' on the y-axis against 'Temperature (°C)' on the x-axis. The x-axis has markings for 10, 20, 30, and 40. The curve starts at a low rate at 10°C, rises to a peak at 30°C, and then begins to decline at 40°C. The right graph also plots 'Rate of reaction' on the y-axis against 'Temperature (°C)' on the x-axis. The x-axis has markings for 10, 20, 30, and 40. This curve shows a continuous, steep upward trend, starting from a low rate at 10°C and reaching its highest point at 40°C.

105-10
105-100

105-10
105-10

105-10
105-10

105-10
105-10

105-10
105-100

105-10
105-100

105-10
105-100

105-10
105-10

Place 1st St. N. W.

[illegible]

1. Water User

...

$$\frac{1}{4} \quad \frac{1}{4}$$

_____n

Address _____

Acres Irrigated

r Acres Irrigated

r Why Abandoned

em _____

T 10, R 248.

59 pharyngitis

27. *Leptocarpus* *Leptocarpus* *Leptocarpus*

A hand-drawn map on a grid. The grid consists of solid lines forming a 4x4 square pattern and dashed lines forming a 10x10 smaller square pattern. In the upper-left quadrant, the word 'Cave' is written diagonally. Below it, a small rectangular area is outlined with solid lines. To the right of this area, the word 'High' is written diagonally. A vertical solid line runs through the center of the grid, and a horizontal solid line runs across the middle. The map appears to be a sketch of a geographical feature or a specific area of interest.

Information by

Place _____

Q 411

Billings,
XXXXXXX
October 9, 1942

Mr. George Ruff
Laurel, Montana

Dear Mr. Ruff:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but such information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. In order of the information needed to show the extent of water use in the Yellowstone basin and so directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of your land that is irrigated is shown in blue.

Second: Do you irrigate any land from the ditch ditch, and if so how many shares and acres do you have under this ditch?
If possible, please answer these questions checked in red on the enclosed form.

Third: If you have any land that is affected by seepage or land that has been irrigated in the past but which is now idle, please indicate the amount on the enclosed form and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. E. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 37773.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Rerald J. Cravetz
Assistant Engineer

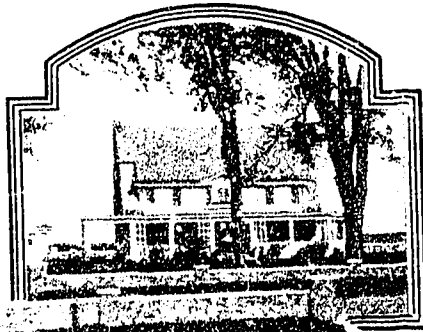
RJC/rh
enc.

SAWYER FARMS

HOME OF SAWYER FARMS ICE CREAM

A Unique Product

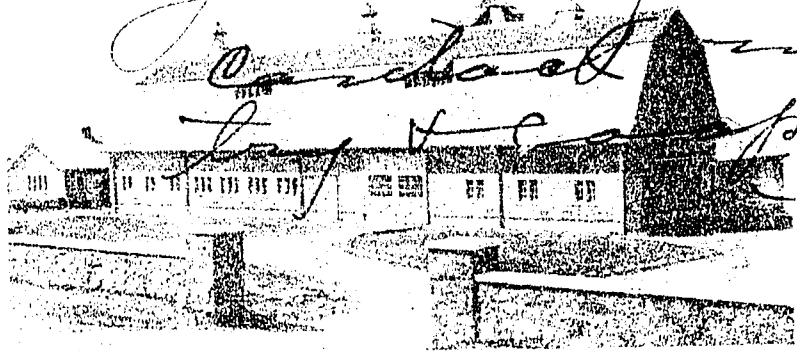
GREENE • MAINE



Dec 24th 1942

Mr H J Oravsky
Billings Montana
Dear Sir

Your letter of Dec 9th
should have been answered
sooner & would have been
if I could have answered
it intelligently. In fact I
don't exactly understand
it, — among other things
your sketch or plat does
not seem to represent my
land correctly. I expect to be
in Billings the latter part of
January & if you care to
~~contact~~ ^{contact} me then I will
try to cooperate.



Yours
J. Sawyer

J. M. Boyer

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

Tributary to

$$\frac{1}{4} \quad \frac{1}{4}$$

n _____

Address

Acres Irrigated

Acres Irrigated

Acres Irrigated _____

Why Abandoned

_____, T_____, R_____

Information by

FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County Y'stone Source of Information AAA 7046
1. Water User Sawyer Ranch Address Billings, Mont.
2. Stream _____ Tributary to _____ Basin _____
3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section _____ Township _____ Range _____
4. Description of System _____
5. Type of Irrigation _____
6. Original Appropriator _____ Address _____
7. First Use: Year _____ Acres Irrigated _____
8. Maximum Use: Year _____ Acres Irrigated _____
9. Present Use: Year 1911 Acres Irrigated 200
10. Last Use: Year _____ Why Abandoned _____
11. Condition of System _____
12. Land Description E^{1/2} Sec 24, T 18, R 24E

Remarks: _____

WITNESS: _____ Information by _____

Place

Billings,
xxxxxxx
December 1, 1942

Mr. J. M. Sawyer
Greene, Maine

Dear Mr. Sawyer:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of water use in the Yellowstone basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of your land that is irrigated is shown in blue.

Second: Please indicate on the enclosed form the portion of your land and the number of acres irrigated from each ditch. Do you irrigate any land from the High or Low Ditches, and if so how many shares do you own in these ditches? If possible please answer those questions checked in red on the enclosed form.

Third: If you have any land that is affected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Ronald J. Gravets
Assistant Engineer

GJO/14
enc.

Please Do Not Fill in Any Items on This Page

Notice of Appropriation

1. County Yellowstone Book A-1 Page 3 Record Mine
2. Name of Appropriator Samuel B. Smith Address Kent, Portage Co., Ohio
3. Date Appropriated May 6, 1885 Date Filed May 12, 1885
Amount Appropriated, Miners Inches 200, Cubic Feet per second _____
4. Name of Stream Minut Mountain Co. Tributary Basin _____
5. Point of Diversion about the center of the SE¹ 4th of

Sec. 24 Twp. 18 Rge. 24 E Bank of Stream East
6. Purpose _____
7. Description of System Diversion running East through
NE¹ 4th of Sec. 24, 15, 24 E
to the center of the west
1/4 of Sec. 24, 15, 24 E
8. Land Description of Intended Place of Use the
SE¹ 4th of Sec. 24, 15, 24 E
9. Remarks (Pertaining to Use, etc.) Approved April 30, 1885

FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information U All 1079

1. Water User E. O. Seitz Address Rte 1 - Billings, Mont.

2. Stream _____ Tributary to _____ Basin _____

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section _____ Township _____ Range _____

4. Description of System _____

5. Type of Irrigation _____

6. Original Appropriator _____ Address _____

7. First Use: Year _____ Acres Irrigated _____

8. Maximum Use: Year _____ Acres Irrigated _____

9. Present Use: Year 1941 Acres Irrigated 129.7 155

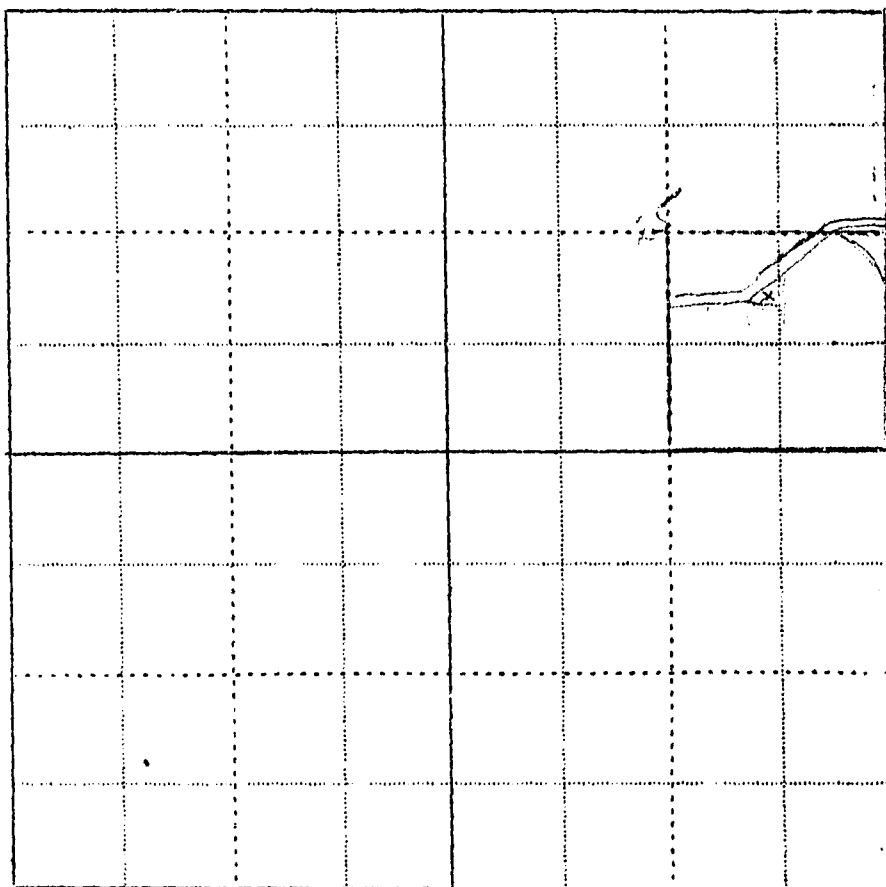
10. Last Use: Year _____ Why Abandoned _____

11. Condition of System _____

12. Land Description SE, Sec. 25, T 18, R 24E.

Remarks: _____

25 shows under line



WITNESS: _____ Information by _____

Place 10/1/42



FORM SM-1

FORM SM-1

FORM SM-1

FORM SM-1

FORM SM-1

FORM SM-1

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FORM SM-1

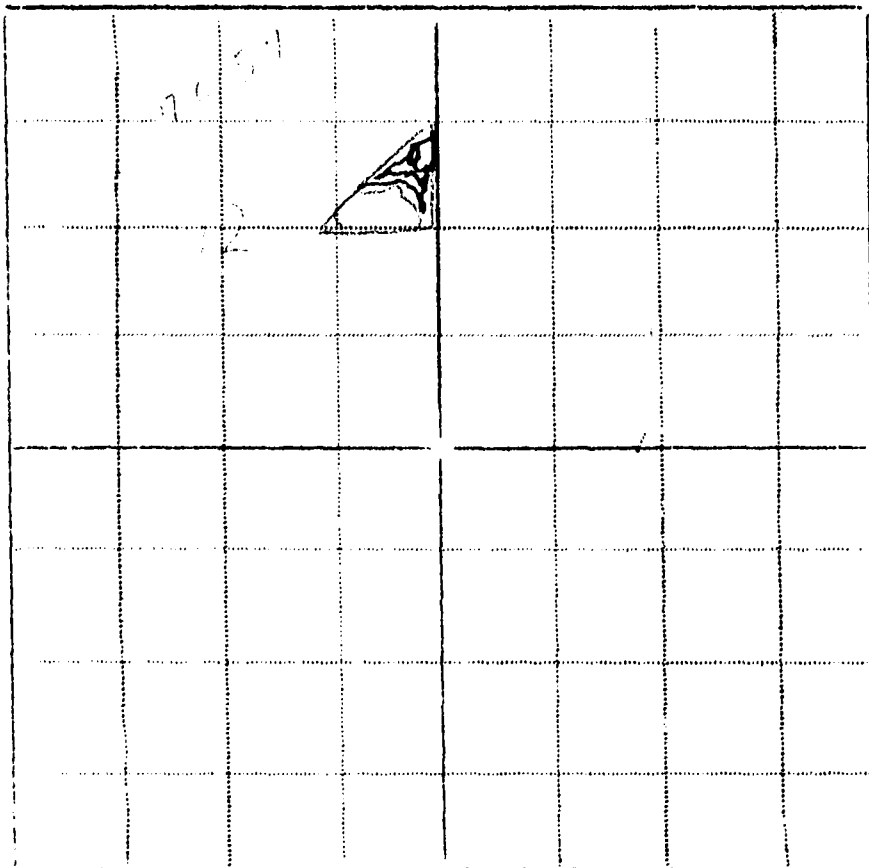
FORM SM-1

FORM SM-1

FORM SM-1

FORM SM-1

STATE OF MONTANA WATER RESOURCES SURVEY

County Yellowstone Date ²² April 19, 1943Name of Water User Jacob Stanley Address Route 1, Billings1. Do you own this land? Yes No X If not give the owner's name below:Owner's name Yellowstone County Address Frank Phelan Route 1 Billings2. Source of Water Yellowstone River Water delivered by High Ditch3. Give point of Diversion $\frac{1}{4}$ $\frac{1}{2}$ Section 13 Township 15 Range 24 E4. Water is obtained by: (Check one) Gravity X Pumping Other 5. Who first used water on this land? J. O. O'donnell Address Billings Monte6. In what year was this land first irrigated? 1900 Approximate Acres 267. What is the greatest number of acres you have irrigated? 26 Date 8. Present Use: Year 1942 Acres Irrigated 7+ 26 Acres9. If this land is not irrigated now give date of last use 10. State the total number of acres that could be irrigated 28 acres.11. What is the condition of your irrigation system? Good12. Land Description: SE 1/4, S. of RR, Sec. 1 Twp. ¹² 1 S. Range 24 E.
Sec 13Remarks: How many shares of
ditch stock are used for this land
and in whose name are they listed?8 High Ditch
12 Big Ditch
owned by
Bill Phelan
Frank PhelanInformation by Bill Stanley Place Billings Date April 26
1943

A STUDY OF MONTANA'S WATER RESOURCES

12. Land Description 1/4 Sec 12, T 12N, R 24E

[illegible]

Place _____

Billings,
Montana
November 2, 1942

Mrs. L. J. Dunwell
3815 5th St. NW
Washington, D. C.

Dear Mrs. Dunwell:

The States of North Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but such information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The land that is irrigated is shown in blue.

Second: From what ditch is the land on the enclosed form irrigated?
If possible, please answer these questions checked in red on the enclosed form.

Third: If you have any land that is affected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

If you cannot give us the desired information concerning your land, perhaps you can tell us of someone who can. Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Oravetz
Assistant Engineer

GJO/rh
enc.

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information _____1. Water User Miller Thatcher Address Box 4962. Stream Cove Tributary to _____ Basin Yellowstone3. Point of Diversion 1/4 Section _____ Township _____ Range _____

4. Description of System _____

5. Type of Irrigation _____

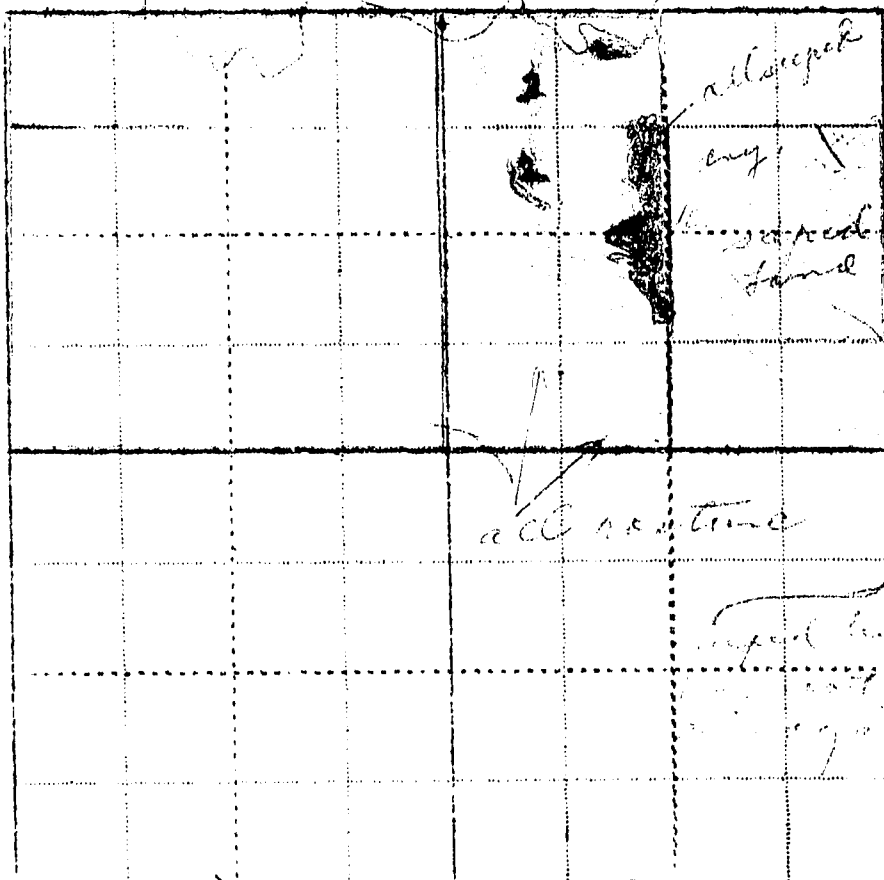
6. Original Appropriator _____ Address _____

7. First Use: Year 1941 Acres Irrigated 123.88. Maximum Use: Year _____ Acres Irrigated 133.89. Present Use: Year 1941 Acres Irrigated 123.810. Last Use: Year 1941 Why Abandoned _____

11. Condition of System _____

12. Land Description Sec. 9: W1/2, S1/2 NE1/4, N1/2 SE1/4 Sec. 10, T 1S, R 24E

Remarks: _____

Has (23) shares under Cove DitchWITNESS: LetterInformation by Miller ThatcherPlace Box 496 BillingsDec. 11, 1942

FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information DD-2133-6133

1. Water User D. Sweetser Address 107 N 33rd, Billings

2. Stream Cove Tributary to _____ Basin _____

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section _____ Township _____ Range _____

4. Description of System _____

5. Type of Irrigation _____

6. Original Appropriator _____ Address _____

7. First Use: Year _____ Acres Irrigated _____

8. Maximum Use: Year _____ Acres Irrigated 123.8

9. Present Use: Year 1948 Acres Irrigated 123.8

10. Last Use: Year _____ Why Abandoned _____

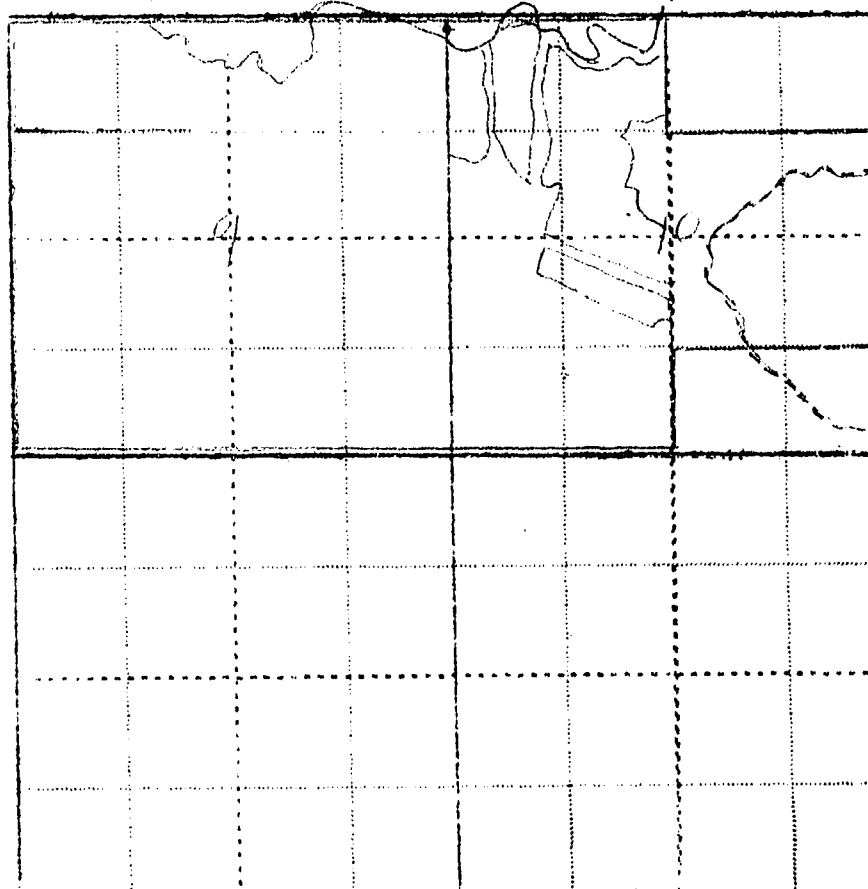
11. Condition of System _____

12. Land Description 20th Sec 10-15 24^E All Sec 9-15 24^E
S 27th E 4, N 28th E, Sec 16, T 15, R 24E

Remarks: _____

WITNESS: _____ Information by _____

Place _____



644

1215

Billings,

XXXXXX

December 8, 1942

Mr. Miller Thatcher
Billings, Montana

Dear Mr. Thatcher:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. Irrigated land is shown in blue and land that is now idle but that has been irrigated in the past is shown in green.

Second: If possible, please answer those questions checked in red on the enclosed form.
other

Third: If you have any land that is affected by seepage or land that has been irrigated but is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us, or you may phone us at 1577.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Ronald J. Cravetz
Assistant Engineer

RCJ/rh
enc.

STATE OF MONTANA WATER RESOURCES SURVEY

County Yellowstone Date April 19, 1943Name of Water User John Weigand Address Route 1, Billings1. Do you own this land? Yes No X If not give the owner's name below:Owner's name Harris Cattle Co. Address W. W. Pierson, Billings2. Source of Water Yellowstone River Water delivered by Big & Little3. Give point of Diversion 1/4 1/4 Section Township Range 4. Water is obtained by: (Check one) Gravity X Pumping Other 5. Who first used water on this land? Address 6. In what year was this land first irrigated? Approximate Acres 7. What is the greatest number of acres you have irrigated? 128 Date 19428. Present Use: Year 1942 Acres Irrigated 141.8 1259. If this land is not irrigated now give date of last use 10. State the total number of acres that could be irrigated 130 acres.11. What is the condition of your irrigation system? Not irrigated12. Land Description: NW 1/4 Sec. 25, Twp. 1 S. Range 24 E.Remarks: Harris Cattle Co. has114 shares in the Big Ditch and 117shares in the High Ditch. How manyof these shares are used on this land?If this land is irrigated from bothditches, please give us the approximateacreage under each ditch.25 Big Ditch - 114 shares114 shares in High Ditch35 " " "125 " " "25 " " "25 " " "25 " " "25 " " "25 " " "25 " " "25 " " "Information by W. Thompson Place Office Date May 22

FORM SM-1

County Yellowstone Source of Information 171-3342
1. Water User Harris cattle Co Address Billings
2. Stream _____ Tributary to _____ Basin _____
3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section _____ Township _____ Range _____
4. Description of System _____
5. Type of Irrigation _____
6. Original Appropriator _____ Address _____
7. First Use: Year _____ Acres Irrigated _____
8. Maximum Use: Year _____ Acres Irrigated _____
9. Present Use: Year 1941 Acres Irrigated 141.8
10. Last Use: Year _____ Why Abandoned _____
11. Condition of System _____
12. Land Description SW 4 Sec 25, T 18, R 24E

Remarks: Under way

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[illegible]

WITNESS: _____ Information by _____
Place _____

P. 270



STATE OF MONTANA

STATE ENGINEER

~~HELENA, MONTANA~~

Billings, Montana
May 10, 1943

Mr. John Weigand
Route 1
Billings, Montana

Over

Dear Mr. Weigand:

On April 19, 1943 we sent you a letter asking for certain information pertaining to your irrigated land in Township 1 South, Range 24 East. To date we have not heard from you. It is essential that we have this information in order to show the extent of water use in the Yellowstone Basin. This information is necessary to insure present and future development in the irrigation enterprises in the state.

The 1939 Session of the Montana Legislature enacted a law (Sec. 349.68 Montana Session Laws) requiring the State Engineer to investigate and prepare a complete record of all water rights in the state. In compliance with this law all water users in the state are being requested to supply information regarding their use of water.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If you cannot supply us with the information we requested, it may be that you can tell us of someone who can. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Oravetz
Gerald J. Oravetz
Assistant Engineer

GJO/rh

This is in regard to the land owned by the Harris Cattle Co.

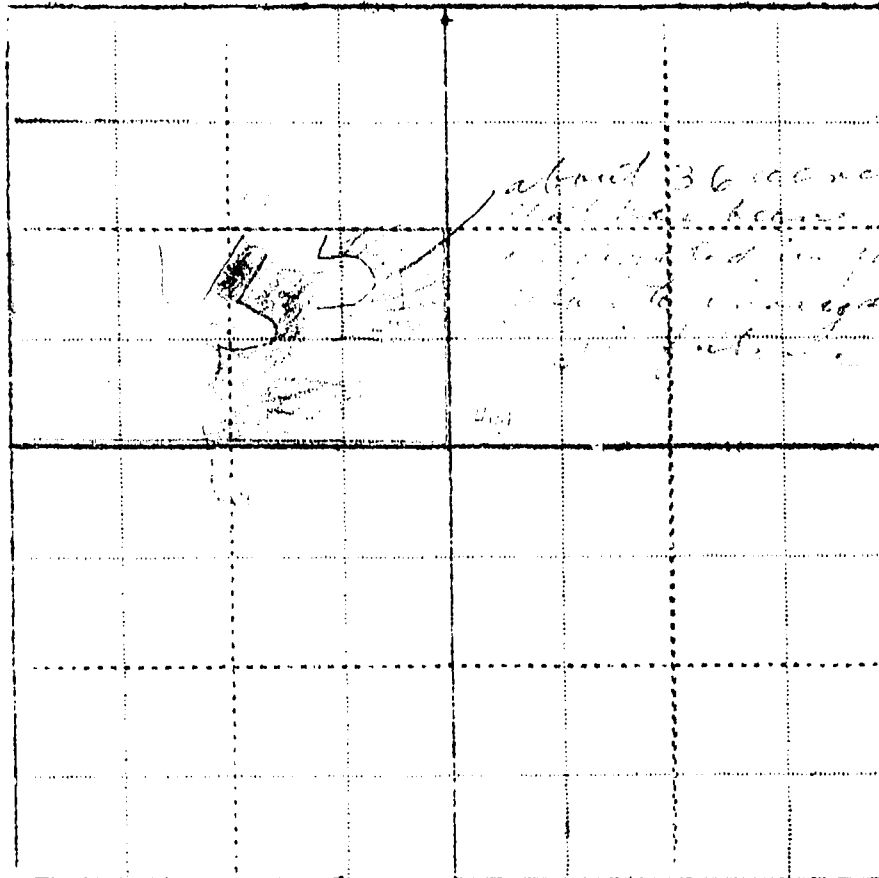
Dear Sir;

I can not furnish you with the desired information, and the only person that I know of that possibly could is, Mr Thompson of the Harris Cattle Co. Billings, Mont.

Sincerely yours
John W. Wiggins

A STUDY OF MONTANA'S WATER RESOURCES

- County Yellowstone Source of Information State Engineer's Office
1. Water User Yellowstone Co. % Geo. Walters Jr. Address Route 1, Billings
2. Stream Cove Tributary to Basin Yellowstone
3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range
4. Description of System
5. Type of Irrigation
6. Original Appropriator Address
7. First Use: Year 1942 Acres Irrigated 40
8. Maximum Use: Year 1936 Acres Irrigated 130 acres under irrigation by previous owner
9. Present Use: Year 1941 Acres Irrigated 59.2
10. Last Use: Year Why Abandoned
11. Condition of System
12. Land Description S $\frac{1}{2}$, Sec. 14, T 1S, R 24E

Remarks: Has 50 shares under Cove DitchWITNESS: LetterInformation by Geo. Walters Jr.Place Billings officeDec. 14 1942

A STUDY OF MONTANA'S WATER RESOURCES

1. Water User *John J. Sullivan* Address *Atch-Belling*

2. Stream *Cone* Tributary to Basin

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

4. Description of System

5. Type of Irrigation

6. Original Appropriator	Address

7. First Use: year Acres Irrigated

8. Maximum Use; Year		Acres Irrigated

9. Present Use; Year Acres Irrigated

10. Last Use:	Year	Why Abandoned

11. Condition of System

12. Land Description _____, T 1, R 24

Remarks: _____

[Faint handwritten notes at the top of the page]

[The remainder of the page contains faint horizontal lines, suggesting ghosting or extremely faded text.]

A hand-drawn map on a grid. The map shows a coastline. The coastline is labeled 'Cove' and 'High'. The map is oriented with North at the top.

WITNESS, Information by _____

Place _____

9-17-77

Billings,
XXXXXXX
December 9, 1942

George Walter, Jr.
Box 1
Billings, Montana

Dear Mr. Walter:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect the water users. Data on water use in Montana will be presented to the Compact Commission on the completion of this survey. As much of the information needed to show the extent of water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: Please indicate to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. Irrigated land is shown in blue and land that is now idle but that has been irrigated in the past is shown in green.

Second: Is all of your land irrigated from the Big Ditch? If not will you please indicate what portion of your land is under each ditch and tell us the number of acres and shares you have in the second ditch.
If possible, please answer those questions checked in red on the enclosed form.

Third: If you have any additional land that is affected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form and mail this information to us as soon as possible with the form and enclosed self-addressed envelope which we sent to you yesterday. We are sorry we didn't note this piece of land in time to send the two forms together.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Gravetz
Assistant Engineer

GJC/rh
enc.

Billings,
XXXXXXX
December 8, 1942

Yellowstone Co., & George Walters, Jr.
Route 1
Billings, Montana

Dear Mr. Walters:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the information necessary to claim their share of these waters, but such information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of the land that is irrigated is shown in blue.

Second: If possible, please answer those questions checked in red on the enclosed form.

Third: If you have any land that is affected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work, each office of the State Engineer has been established in the old Roosevelt School building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 8777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Arnold J. Gravetz
Assistant Engineer

GJO/rh
enc.

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information AAA 138

1. Water User Jennie Peterson Address Menominee, Wisconsin

2. Stream _____ Tributary to _____ Basin _____

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section _____ Township _____ Range _____

4. Description of System _____

5. Type of Irrigation _____

6. Original Appropriator _____ Address _____

7. First Use: Year 1911 Acres Irrigated 16.1

8. Maximum Use: Year does not know Acres Irrigated 123

9. Present Use: Year 1941 Acres Irrigated 96.9

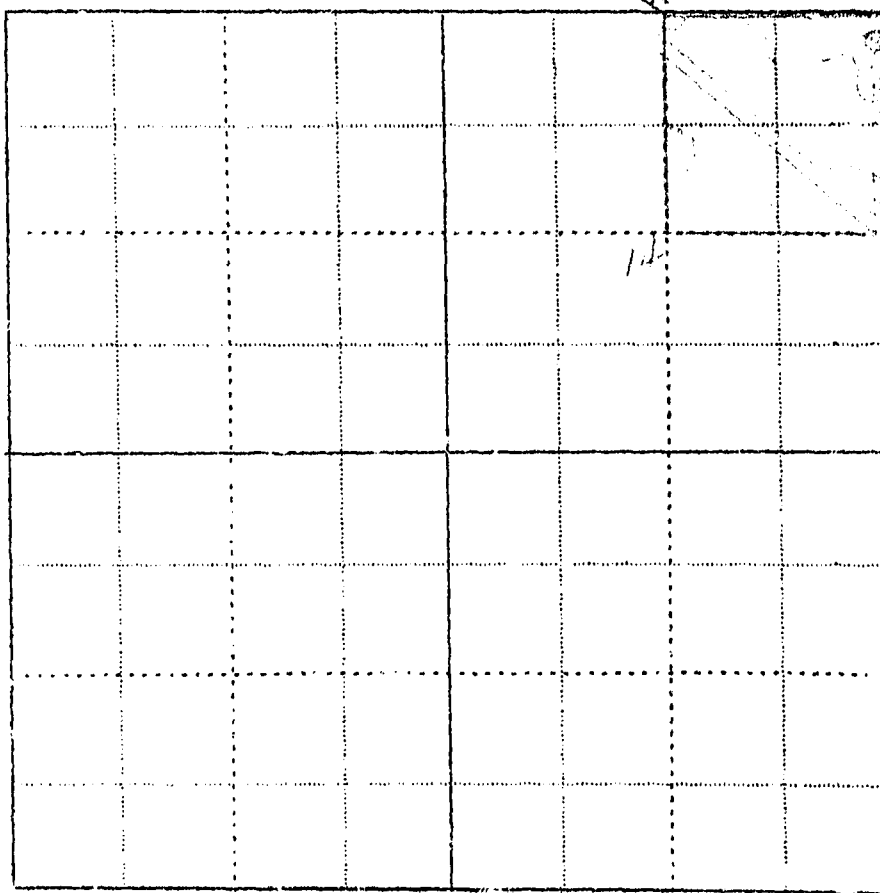
10. Last Use: Year _____ Why Abandoned _____

11. Condition of System _____

12. Land Description NE⁴, Sec. 14, T 15, R 24 E.

Remarks:

Operator, Geo. Walter Jr. Rte. 1 - Billings



WITNESS: _____

Information by _____

Place _____

Wm. H. Kraft
W. H. Kraft

Billings, Mont.
1942

FORM SM-2

A STUDY OF MONTANA'S WATER RESOURCES

County San Diego Source of Information San Diego Police Dept

1. Water User _____ **Address** _____

2. Stream _____ Tributary to _____ Basin _____

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

4. Description of System

5. Type of Irrigation _____

6. Original Appropriator	Address

7. First Use:	Year	Acres Irrigated
---------------	------	-----------------

8. Maximum Use: Year	Acres Irrigated
1950	100
1951	100
1952	100
1953	100
1954	100
1955	100
1956	100
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1959	100
1960	100
1961	100
1962	100
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2100	100

9. Present Use: Year 1967 Acres Irrigated 1,000

10. Last Use:	Year	Why Abandoned

11. Condition of System

12. Land Description _____, T _____, R _____

Remarks: _____

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[illegible]

WITNESS:

Information by

Place

Billings,
XXXXXXXXXX
December 3, 1942

Edna Anna Yearns
Laurel, Montana

Dear Miss Yearns:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of your land that is irrigated is shown in blue.

Second: From what ditch or source do you get your water to irrigate? How many shares do you have in this ditch?

Third: If you have any land that is affected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Oravetz
Assistant Engineer

GJC/rh
enc.

Billings,
February 1, 1943

Miss Anna Yearnis
Billings, Montana

Dear Miss Yearnis:

On December 9, 1942 we sent you a letter asking for certain information pertaining to your irrigated land in Township 1 South, Range 24 East. To date we have not heard from you. It is essential that we have this information in order to know the extent of water use in the Yellowstone Basin. This information is necessary to insure present and future development of the irrigation enterprises in the state.

The 1939 Session of the Montana Legislature enacted a law (Sec. 349.68 Montana Session Laws) requiring the State Engineer to investigate and prepare a complete record of all water rights in the state. In compliance with this law all water users in the state are being requested to supply information regarding their use of water.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the U. S. A. office is located. If you cannot supply us with the information we requested, it may be that you can tell us of someone who can. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 5777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Oravetz
Assistant Engineer

GJO/rh

Notice of Appropriation

- ## Decree

10. Case No. _____ Date _____ Amt. Decreed: M. I. _____ C. F. S. _____
11. To Whom Decreed _____ Address _____
12. Name of Ditch _____ Maximum Capacity (M. F. S.) _____
13. Date of Priority _____ Purpose _____

~~A STUDY OF MONTANA'S WATER RESOURCES~~

Source of Information State Engineer's Office

2. Stream _____ Tributary to _____ Basin Yellowstone

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

4. Description of System

5. Type of Irrigation

6. Original Appropriator	Address
1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 11. _____ 12. _____ 13. _____ 14. _____ 15. _____ 16. _____ 17. _____ 18. _____ 19. _____ 20. _____ 21. _____ 22. _____ 23. _____ 24. _____ 25. _____ 26. _____ 27. _____ 28. _____ 29. _____ 30. _____ 31. _____ 32. _____ 33. _____ 34. _____ 35. _____ 36. _____ 37. _____ 38. _____ 39. _____ 40. _____ 41. _____ 42. _____ 43. _____ 44. _____ 45. _____ 46. _____ 47. _____ 48. _____ 49. _____ 50. _____ 51. _____ 52. _____ 53. _____ 54. _____ 55. _____ 56. _____ 57. _____ 58. _____ 59. _____ 60. _____ 61. _____ 62. _____ 63. _____ 64. _____ 65. _____ 66. _____ 67. _____ 68. _____ 69. _____ 70. _____ 71. _____ 72. _____ 73. _____ 74. _____ 75. _____ 76. _____ 77. _____ 78. _____ 79. _____ 80. _____ 81. _____ 82. _____ 83. _____ 84. _____ 85. _____ 86. _____ 87. _____ 88. _____ 89. _____ 90. _____ 91. _____ 92. _____ 93. _____ 94. _____ 95. _____ 96. _____ 97. _____ 98. _____ 99. _____ 100. _____	1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 11. _____ 12. _____ 13. _____ 14. _____ 15. _____ 16. _____ 17. _____ 18. _____ 19. _____ 20. _____ 21. _____ 22. _____ 23. _____ 24. _____ 25. _____ 26. _____ 27. _____ 28. _____ 29. _____ 30. _____ 31. _____ 32. _____ 33. _____ 34. _____ 35. _____ 36. _____ 37. _____ 38. _____ 39. _____ 40. _____ 41. _____ 42. _____ 43. _____ 44. _____ 45. _____ 46. _____ 47. _____ 48. _____ 49. _____ 50. _____ 51. _____ 52. _____ 53. _____ 54. _____ 55. _____ 56. _____ 57. _____ 58. _____ 59. _____ 60. _____ 61. _____ 62. _____ 63. _____ 64. _____ 65. _____ 66. _____ 67. _____ 68. _____ 69. _____ 70. _____ 71. _____ 72. _____ 73. _____ 74. _____ 75. _____ 76. _____ 77. _____ 78. _____ 79. _____ 80. _____ 81. _____ 82. _____ 83. _____ 84. _____ 85. _____ 86. _____ 87. _____ 88. _____ 89. _____ 90. _____ 91. _____ 92. _____ 93. _____ 94. _____ 95. _____ 96. _____ 97. _____ 98. _____ 99. _____ 100. _____

~~7. First Use: Year Acres Irrigated~~

8. Maximum Use: Year 1936 Acres Irrigated 3.39

9. Present Use: Year 1966 Acres Irrigated not irrigated

[illegible]

11. Condition of System

12. Land Description All except NE 1/4, Sec. 15, T 1S, R 24E

Reference:

© 2000 Blackwell Science Ltd, *Journal of Internal Medicine* 247: 395–402

SECRET

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible]

016796 1989 12 1 p 102-104 10 refs

* The term "non-union" is used to describe workers who are not members of a union, but who are employed by a company that is a union member.

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The above land

General im
~~General im~~

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[illegible]

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DOI: 10.1002/pola.20000

WITNESS: Letter

Information by

L. D. CROOKHILL

Place

T. W. H. & M. H. H.

Township 1 South, Range 24 East

Water User

Amund, Jacob
Branstetter, J. C.
Branstetter, J. C.
Beird, Doris
Brey, Ernest
Bathurst, T. F.
Carlisle, H. A.
Dibold, Josef
Eltzroth, H. M.
Federal Land Bank
Fox, Phillip Jr.
Golden, Lloyd
Harris Cattle Co.
Hastings, C. Robt.
Heinrich, Jake
Hoblitt, A. L.
Lenhardt, Conrad Sr.
Lipp, Lloyd
Mayborn, E. L.
Miller, Victor
Melson, Fred
Penninger, Harry
Perry, Mrs. Elizabeth
Phelan, Frank
Rosen, Ralph & P. E.
Ruff, Geo.
Ruff, Geo.
Sawyer Ranch
Seitz, E. O.
Staley, Jacob
Thatcher, Miller
Weigand, John
Yellowstone Co.
Yearns, Edna Anna
Yellowstone Co.

STATE OF MONTANA
STATE ENGINEER'S OFFICE
 WATER RESOURCES SURVEY

Township 15 Range 24E County Beaumont

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Township..... Range.....

FORM SM-1.

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information AKK-1024

1. Water User Melvin B. Held Address Shelburne, VT

2. Stream	Tributary to	Basin

3. Point of Diversion 1 1 Section Township Range

4. Description of System

5. Type of Irrigation

6. Original Appropriator	Address

7. First Use:	Year	Acres Irrigated

8. Maximum Use: Year	Acres Irrigated
1950	100
1951	100
1952	100
1953	100
1954	100
1955	100
1956	100
1957	100
1958	100
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1960	100
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9. Present Use: Year 1941 Acres Irrigated 15,174 165,000

10. Last Use:	Year	Why Abandoned

11. Condition of System

12. Land Description *276" Sec. 34.* T *12* R *24* E

Remarks: _____

2. when made light

1. The first step is to identify the variables that are being measured. In this case, the variables are the number of hours spent on each activity and the total number of hours available.

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[illegible]

1

WITNESS: _____ Information by _____

Place _____

Billings,
XXXXXXXXXX
December, 9, 1942

Mr. Clarence Hofferer
Laurel, Montana

Dear Mr. Hofferer:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of your land that is irrigated is shown in blue.

Second: Is this land irrigated from the High Pitch? If not please give us the name of the second ditch and the number of shares you own in it?
If possible please answer those questions checked in red on the enclosed form.

Third: If you have any land that is effected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Ronald J. Oravetz
Assistant Engineer

GJO:rh
enc.

XXXXXXX
Billings
February 2, 1943

Mr. Clarence Hofferer
Laurel, Montana

Dear Mr. Hofferer:

On December 9, 1942 we sent you a letter asking for certain information pertaining to your irrigated land in Township 1 South, Range 24 East. To date we have not heard from you. It is essential that we have this information in order to show the extent of water use in the Yellowstone Basin. This information is necessary to insure present and future development in the irrigation enterprises in the state.

The 1939 Session of the Montana Legislature enacted a law (Sed. 349.68 Montana Session Laws) requiring the State Engineer to investigate and prepare a complete record of all water rights in the state. In compliance with this law all water users in the state are being requested to supply information regarding their use of water.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If you cannot supply us with the information we requested, it may be that you can tell us of someone who can. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Oravetz
Assistant Engineer

GJO/rh

Please Do Not Fill in Any Items on This Page

Notice of Appropriation

1. County Yellowstone (Custer) Book A Page 36 Record Misc.
2. Name of Appropriator Joseph Stager Address Custer Co. Mont. Ter.
3. Date Appropriated May 17, 1882 Date Filed June 1, 1882
Amount Appropriated, Miners Inches 500, Cubic Feet per second _____
4. Name of Stream Yellowstone River Tributary _____ Basin _____
5. Point of Diversion Tape Yellowstone River on

Sec. 5 Twp. 3 S Rge. 22 E Bank of Stream _____
6. Purpose Irrigation
7. Description of System ditch

8. Land Description of Intended Place of Use E² sec. 34 15 24 E

9. Remarks (Pertaining to Use, etc.) Transcribed from Custer Co. Records Book A

Decree

10. Case No. _____ Date _____ Amt. Decreed: M. I. _____ C. F. S. _____
11. To Whom Decreed _____ Address _____
12. Name of Ditch _____ Maximum Capacity (C. F. S.) _____
13. Date of Priority _____ Purpose _____
14. Land Description of Place of Use as Decreed _____

STATE ENGINEERS OFFICE
Water Resources Survey

Notice of Appropriation

1. County Washington Book 1 Page 22 Record 71100
2. Name of Appropriator Smith, George Address
3. Date Appropriated June 12, 1914 Date Filed June 22, 1914
Amount Appropriated, Miners Inches 500, Cubic Feet per second
4. Name of Stream Lytle Creek Tributary Basin
5. Point of Diversion in
Sec. 1 Twp. 1 Rge. 1 Bank of Stream
6. Purpose irrigation
7. Description of System open ditch
8. Land Description of Intended Place of Use 100 acres of land
9. Remarks (Pertaining to Use, etc.)

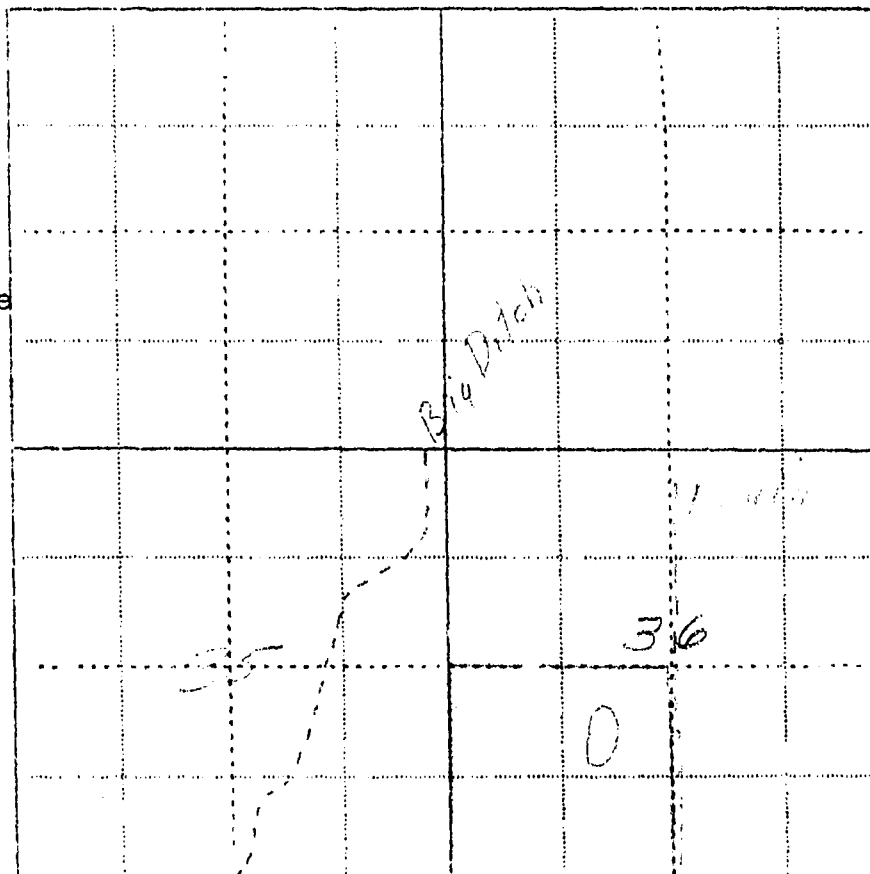
Decree

10. Case No. Date Amt. Decreed: M. I. C. F. S.
11. To Whom Decreed Address
12. Name of Ditch Maximum Capacity (C. F. S.)
13. Date of Priority Purpose
14. Land Description of Place of Use as Decreed

STATE OF MONTANA WATER RESOURCES SURVEY

County Yellowstone Date April, 25, 1943Name of Water User J. C. Branstetter Address Rt. 1 Laurel, Montana1. Do you own this land? Yes No x If not give the owner's name below:
Minola Seibel, Adm'r of Estate ofOwner's name Karl Seibel, Deceased Address 803 W. Market St., Akron, Ohio2. Source of Water Yellowstone River Water delivered by The Big Ditch
Same as Big Ditch3. Give point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range 4. Water is obtained by: (Check one) Gravity x Pumping Other 5. Who first used water on this land? ? Address 6. In what year was this land first irrigated? ? Approximate Acres 1507. What is the greatest number of acres you have irrigated? 150 Date 19128. Present Use: Year 1942 Acres Irrigated 144.19. If this land is not irrigated now give date of last use 10. State the total number of acres that could be irrigated 160 acres.11. What is the condition of your irrigation system? good12. Land Description: SW $\frac{1}{4}$, Sec. 36, Twp. 1. S. Range 24. E.Remarks:

27 Shares of Big Ditch Stock
Land off and on has been affected
by seepage. Have not been bothered
for last 4 or 5 years. Chief trouble
was at harvest time.



The Yellowstone Bank

DIRECTORS
B. M. HARRIS
J. W. CORWIN
G. H. JACOBUS
B. MEYER HARRIS
J. W. FRY

B. M. HARRIS, PRESIDENT
J. W. CORWIN, VICE-PRESIDENT
J. W. FRY, CASHIER
B. MEYER HARRIS, VICE-PRESIDENT
R. F. STEVENS, ASSISTANT CASHIER

LAUREL, MONTANA

May 11, 1948

Gerald J. Oravetz
Assistant Engineer
Roosevelt School
Billings, Montana

Dear Mr. Oravetz:

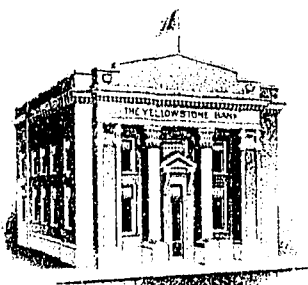
We are enclosing State of Montana Water Resources Survey as per your request. This is for the Karl Seibel estate farm. J. C. Branstetter is the tenant and has been for a number of years.

We are sorry that there has been so much delay in getting this report back to you.

Yours for Victory!

B. Meyer Harris
B. Meyer Harris, Vice-President

W:pd
Enclosure



Seibel, Karl

The Yellowstone Bank

DIRECTORS
B. M. HARRIS
J. W. CORWIN
G. H. JACOBUS
B. MEYER HARRIS
J. W. FRY

B. M. HARRIS, PRESIDENT
J. W. CORWIN, VICE-PRESIDENT
J. W. FRY, CASHIER
B. MEYER HARRIS, VICE-PRESIDENT
R. F. STEVENS, ASSISTANT CASHIER

LAUREL, MONTANA

April 23, 1943

*Received
April 25, 1943*

Gerald J. Cravetz, Ass't. Engineer
Roosevelt School Building
Billings, Montana

18.24

Dear Mr. Cravetz:

We have been unable to locate the letter we received from Mrs. Karl B. Seibel asking for certain information pertaining to irrigated land in Township One South Range 24 East. If you will send us another copy of this inquiry we will give you all the information we can.

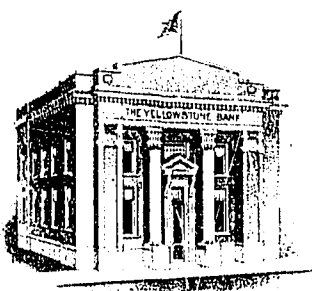
We have held up replying to your two letters hoping that the missing letter would turn up. It has not done so. Therefore, we are writing to you.

Yours for Victory!

B. Meyer Harris
B. Meyer Harris, Vice President

V. WT

Issued April 25, 1943



KARL B. SEIBEL
LAWYER
PRINCETON, ILLINOIS
TELEPHONE 2265

Monroeville, Ohio.
December 13, 1937.

Gerald J. Gravetz, Assistant Engineer,
State of Montana,
Box 674,
Billings, Montana.

Dear Mr. Gravetz:

I am referring your letter of December 8 to Mr. E.H. Harris, President, The Yellowstone Bank, Laurel, Montana. He will be able to answer any questions more satisfactorily than I am able to do.

Yours respectfully,

Minola Seibel

(Mrs) Minola Seibel.

7-2-92
15

County	Source of Information

1. Water User	Address

2. Stream Big Tributary to Basin

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

4. Description of System

5. Type of Irrigation _____

6. Original Appropriator	Address

7. First Use: Year _____ Acres Irrigated _____

8. Maximum Use; Year _____ Acres Irrigated _____

9. Present Use: Year Acres Irrigated

10. Last Use: Year _____ Why Abandoned _____

11. Condition of System _____

12. Land Description _____, T _____, R _____

Remarks: _____

[illegible]A blank sheet of graph paper featuring a uniform grid of small squares. The grid is composed of solid black lines forming the outer border and dashed black lines for internal divisions. The paper is otherwise empty of any markings or text.

WITNESS: _____ Information by _____

Place _____

Billings,
XXXXXXXX
December 3, 1942

Mr. Earl Seibel
803 W. Market St.
Akron, Ohio

Dear Mr. Seibel:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have already collected the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from those using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of your land that is irrigated is shown in blue.

Second: If possible, please answer those questions checked in red on the enclosed form.

Third: If you have any land that is effected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

If you cannot give us the desired information concerning your land, perhaps you can tell us of someone who can. Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Gravetz
Assistant Engineer

GJC/rh
enc.

Billings,
February 1, 1943

Mr. G. L. Harris
President, The Yellowstone Bank
Laurel, Montana

Dear Mr. Harris:

On December 8, 1942 we sent a letter to Mr. Earl Seisel at Akron, Ohio, asking for certain information pertaining to his irrigated land in Township 1 South, Range 14 East. On December 17, 1942 Mr. Seisel wrote us that he was sending our letter to you so you would be able to answer our questions more satisfactorily than we could. To date we have not heard from you. It is essential that we have this information in order to show the extent of water use in the Yellowstone Basin. This information is necessary to insure present and future development in the irrigation enterprises in the state.

The 1939 session of the Montana legislature enacted a law (Sec. 349.68) known as Session Law, requiring the State Engineer to investigate and prepare a complete record of all water rights in the state. In compliance with this law all water users in the state are being requested to supply information regarding their use of water.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If you cannot supply us with the information we requested, it may be that you can tell us of someone who can. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Oravetz
Assistant Engineer

GJO/rn

xxxxxxx
Billings
March 26, 1943

Mr. B. M. Harris, President
Yellowstone Bank
Laurel, Montana

Dear Mr. Harris:

On February 1, 1943 we sent you a letter asking for certain information pertaining to the irrigated land of Mrs. Karl Seibel in Township 1 South, Range 24 East. She wrote us December 19, 1942 that she was referring our letter of December 8, 1942 to you. To date we have not heard from you regarding this matter. In case you have mislaid her letter our records show that she owns the SW¹/₄ of Section 36 of which 144.1 acres are irrigated from 27 shares of the Big Ditch stock. We would like to know if this information is correct and whether or not there is any seeped land on this farm.

It is hereby declared to be a policy of the State and necessary for the welfare of the State and its citizens, that the waters of this State, and especially interstate streams arising out of the State, be investigated. The State Engineer shall, either before or after the bringing of such action (to adjudicate the waters of any stream and its tributaries in any county traversed by said stream), upon the direction of the court, do all things, make all surveys, and perform all services required by said board in the securing of all necessary information and make the same available to said board or others who may be interested therein, including the courts of this State.

In order to protect the water rights of the water users in this state it is mandatory that the State Engineer have the information that we have asked you to submit to this office.

We expect to hear from you in the very near future.

Very truly yours,

Gerald J. Oravetz
Assistant Engineer

GJO/rh

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone

Source of Information State Engineer's Office

1. Water User W. C. Branstetter Address Rt. 1, Laurel, Mont
2. Stream Big Hole Tributary to Gro. River Basin Gallatin
3. Point of Diversion 1/4 1/4 Section Township Range
4. Description of System Row crop and flooding
5. Type of Irrigation
6. Original Appropriator Great Western Co. Address Billings, Mont
7. First Use: Year 1900 Acres Irrigated 2000
8. Maximum Use: Year 1912 Acres Irrigated 160
9. Present Use: Year 1942 Acres Irrigated 160
10. Last Use: Year Why Abandoned
11. Condition of System 411
12. Land Description N 1/4, Sec 36, T 15, R 24 E

Remarks:

[illegible]

WITNESS: *L. J. [Signature]*

Information by A. C. Branstetter

Place *France*

Billings,
XXXXXXXXXX
December 7, 1942

Mr. W. C. Branstetter
Route 1
Laurel, Montana

Dear Mr. Branstetter:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of those waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections., Irrigated land is shown in blue.

Second: Please answer as many of the questions as you can which are marked in red on the enclosed form.

Third: If you have any land that is affected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 37772

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Gravets
Assistant Engineer

GJC/rh
enc.

50

41 958

2

Place _____

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone

Source of Information _____

- ✓ 1. Water User Doris Baird Address Route 1, Laurel
2. Stream High Tributary to Yellow R. Basin Yellowstone
3. Point of Diversion $\frac{1}{4}$ Section $\frac{1}{4}$ Township _____ Range _____
4. Description of System _____
5. Type of Irrigation _____
6. Original Appropriator Doris Baird Address Laurel
7. First Use: Year 1890 Acres Irrigated 77
8. Maximum Use: Year _____ Acres Irrigated 77
9. Present Use: Year 1941 Acres Irrigated 68.3
10. Last Use: Year _____ Why Abandoned _____
11. Condition of System Good
12. Land Description N $\frac{1}{2}$ Sec. 35, T 1S, R 24E

Remarks: _____

Has 12 shares under High Ditch

Laurel
Yellowstone
High Ditch
12 shares
25A - High
52A - Big

WITNESS: Letter

Information by Doris Baird

Place Laurel, Feb. 6, 1943

Billings,

~~XXXXXXXXXX~~

December 7, 1942

Mrs. Doris Baird
Route 1
Laurel, Montana

Dear Mrs. Baird:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. As stated in the Compact, data on water use in Montana will be presented on the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The land that is irrigated is shown in blue.

Second: Is all of your land irrigated from the High Ditch. If not please give the name of the other ditch and number of shares in the second ditch.
On what date did you first irrigate this farm?

Third: If you have any land that is effected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Cravetz
Assistant Engineer

GJC/rh
enc.

XXXXXXXX
Billings,
February 1, 1943

Mrs. Corie Baird
Mont.
 Laurel, Montana

Dear Mrs. Baird:

On December 7, 1942 we sent you a letter asking for certain information pertaining to your irrigated land in Township 1 South, Range 24 East. To date we have not heard from you. It is essential that we have this information in order to show the extent of water use in the Yellowstone Basin. This information is necessary to insure present and future development in the irrigation and riparian lands in the state.

The 1943 Session of the Montana Legislature enacted a law (Sec. 349.68 Montana Session Laws) requiring the State Engineer to investigate and prepare a complete record of all water rights in the state. In compliance with this law all water users in the state are being requested to supply information regarding their use of water.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the U. S. A. office is located. If you cannot supply us with the information we requested, it may be that you can tell us of someone who can. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Cravetz
Assistant Engineer

GGO/rh

County Yellowstone Source of Information A.A.A. # 947

1. Water User Claris Baird Address Rte #1 Laurel Mont

2. Stream High Tributary to _____ Basin _____

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section _____ Township _____ Range _____

4. Description of System _____

5. Type of Irrigation _____

6. Original Appropriator _____ Address _____

7. First Use: Year _____ Acres Irrigated _____

8. Maximum Use: Year _____ Acres Irrigated _____

9. Present Use: Year 1941 Acres Irrigated 68.3

10. Last Use: Year _____ Why Abandoned _____

11. Condition of System _____

12. Land Description N² SE¹ Sec 35- , T 1-S , R 24-E

12. *Blau & Rhye*

Place _____

P. 770

1. Water User James Dwyer Address 1416 29th St. S.W.

2. Stream Coe Tributary to N.C. R. Basin 40

3. Point of Diversion	$\frac{1}{4}$	$\frac{1}{4}$	Section	Township	Range
-----------------------	---------------	---------------	---------	----------	-------

4. Description of System *Leadgate 1 detector*

5. Type of Irrigation *Surface Irrigation*

6. Original Appropriator *Fire ditch* Address *Billings*

7. First Use;	Year	Acres Irrigated
---------------	------	-----------------

8. Maximum Use: Year Acres Irrigated 7,500

9. Present Use: Year 1967 Acres Irrigated 570

10. Last Use:	Year	Why Abandoned
---------------	------	---------------

11. Condition of System

12. Land Description 100' x 100' lot, T 12, R 248

Remarks: _____

Stenobothrus

Journal of Management Education 30(6)p.789-806

1000

100-443887-100

Cryptosporidium parvum

WITNESS:

WITNESS:

Information by *Ernest Brey*

Place *2/5/43*

Billings,
XXXXXXXX
December 7, 1942

Mr. Ernest Brey
814 So. 29" St.
Billings, Montana

Dear Mr. Brey:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of your land that is irrigated is shown in blue.

Second: If possible please answer those questions checked in red on the enclosed form.

Third: If you have any land that is effected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Gravetz
Assistant Engineer

GJC/rh
enc.

xxxxxxxxxx
Billings,
February 2, 1943

Mr. Ernest Brey
314 So. 29" St.
Billings, Montana

Dear Mr. Brey:

On December 7, 1942 we sent you a letter asking for certain information pertaining to your irrigated land in Township 1 South, Range 24 East. To date we have not heard from you. It is essential that we have this information in order to show the extent of water use in the Yellowstone Basin. This information is necessary to insure present and future development in the irrigation enterprises in the state.

The 1939 Session of the Montana Legislature enacted a law (Sec. 349.68 Montana Session Laws) requiring the State Engineer to investigate and prepare a complete record of all water rights in the state. In compliance with this law all water users in the state are being requested to supply information regarding their use of water.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If you cannot supply us with the information we requested, it may be that you can tell us of someone who can. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Oravetz
Assistant Engineer

GJO/rh

A STUDY OF MONTANA'S WATER RESOURCES

County YellowstoneSource of Information State Engineer's Office1. Water User T. F. BathurstAddress Route 2, Billings2. Stream Big Lost Creek

Tributary to

Basin Yellowstone3. Point of Diversion 1/41/4

Section

Township

Range

4. Description of System

5. Type of Irrigation Gravity6. Original Appropriator Big Lost Co.

Address

7. First Use: Year 80 Acres Irrigated

8. Maximum Use: Year _____ Acres Irrigated

1922 to 1932, about 25 acres irrigated9. Present Use: Year 1942 Acres Irrigated45-8 200

10. Last Use: Year _____ Why Abandoned

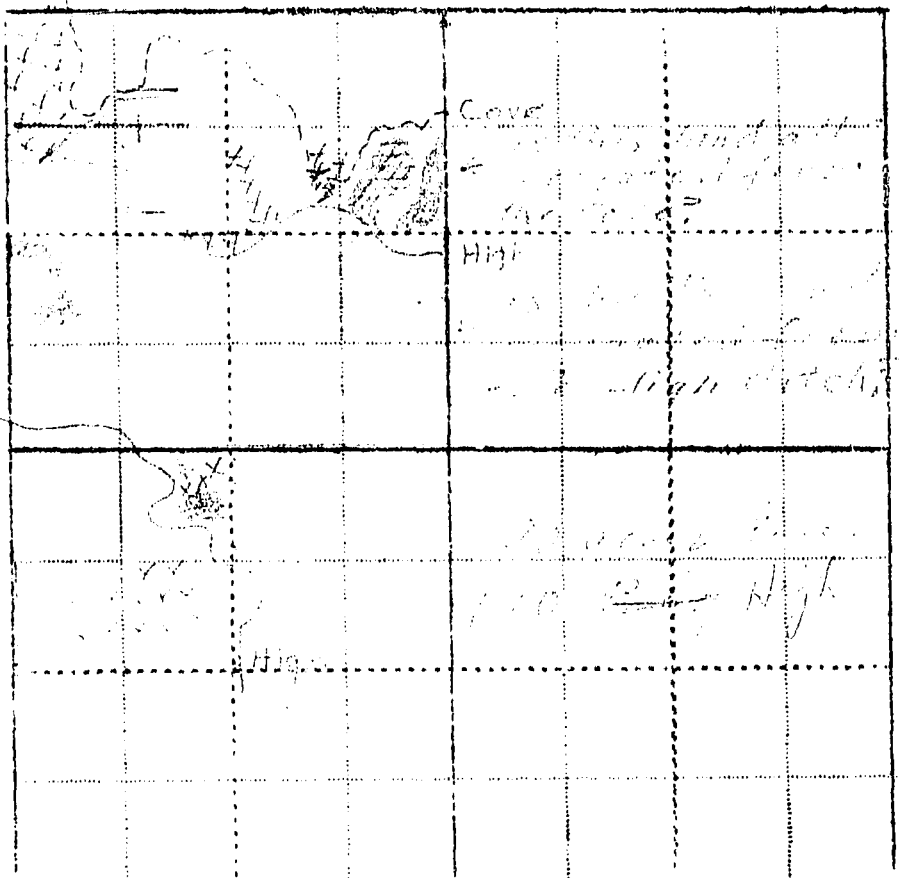
11. Condition of System

Good, some silt12. Land Description N¹/₂ Sec. 11, S¹/₂ Sec. 11; S¹/₂ NW¹/₄, NE¹/₄ NW¹/₄, T 1S, R 24E

Sec. 14

Remarks:

Shaded area is Big
Lost Creek
irrigated land
6 1/2 acres in the
S. corner of section
14.
has apt. to be
if irrigated land was
landed it could be
irrigated.



WITNESS:

Information by

T. F. Bathurst

Place

Billings office Jan 4, 1943

Mr. T. F. Bathurst
Route 2
Billings, Montana

Dear Mr. Bathurst:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have already collected the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. Irrigated land is shown in blue and land that is now idle but that has been irrigated in the past is shown in green.

Second: If possible please answer those questions checked in red on the enclosed form.

Third: If you have any additional land that is affected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the Old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Gravetz
Assistant Engineer

GJC/rh
enc.

FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information A.A.A. 5000-126

1. Water User Bathurst, T. J. W. Address Rte 2- Bellings, Mont.

2. Stream Coeur Tributary to Basin

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

4. Description of System

5. Type of Irrigation

6. Original Appropriator Address

7. First Use: Year Acres Irrigated

8. Maximum Use: Year Acres Irrigated 149.82

9. Present Use: Year 1941 Acres Irrigated 45.8

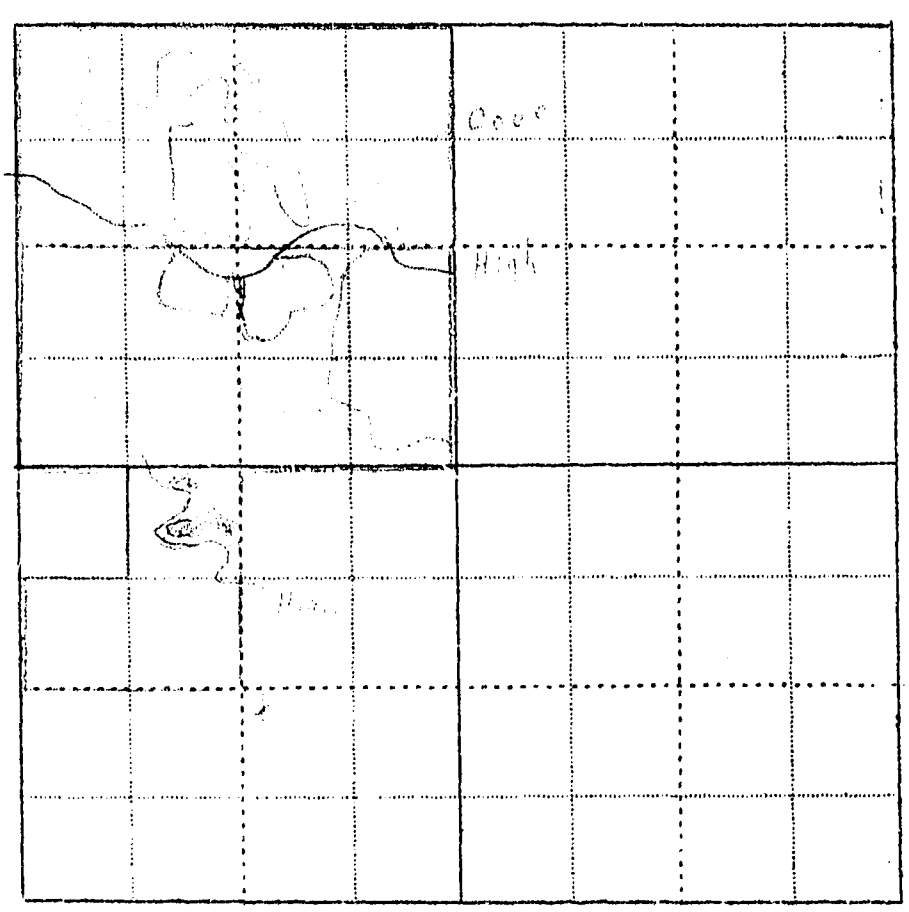
10. Last Use: Year Why Abandoned

11. Condition of System

12. Land Description 71st Sec. 11, T 15, R 24 E.

Remarks:

30' diameter of Coeur
15' " " Big
30' " " High



WITNESS: Information by

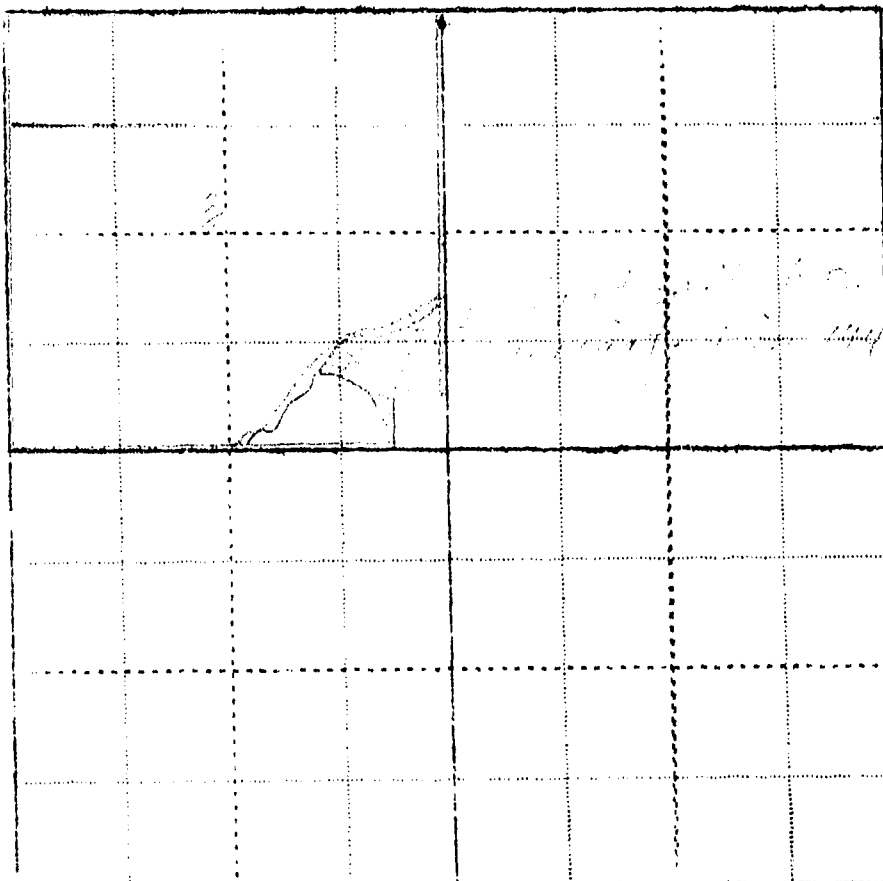
Place

A STUDY OF MONTANA'S WATER RESOURCES

- County Yellowstone Source of Information Interviews & Photos
1. Water User T. N. Barthurst Address Rt-1, Billings
2. Stream Coe Tributary to _____ Basin _____
3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section _____ Township _____ Range _____
4. Description of System _____
5. Type of Irrigation _____
6. Original Appropriator _____ Address _____
7. First Use: Year 1940 Acres Irrigated 2.3
8. Maximum Use: Year _____ Acres Irrigated _____
9. Present Use: Year 1942 Acres Irrigated 50
10. Last Use: Year _____ Why Abandoned _____
11. Condition of System Good
12. Land Description _____, T 1N, R 24E

Remarks: _____

26 acres under flow
all irrigated from
Coe.



WITNESS: _____

Information by T. N. BarthurstPlace Billings, Mont. Jan 9 1943

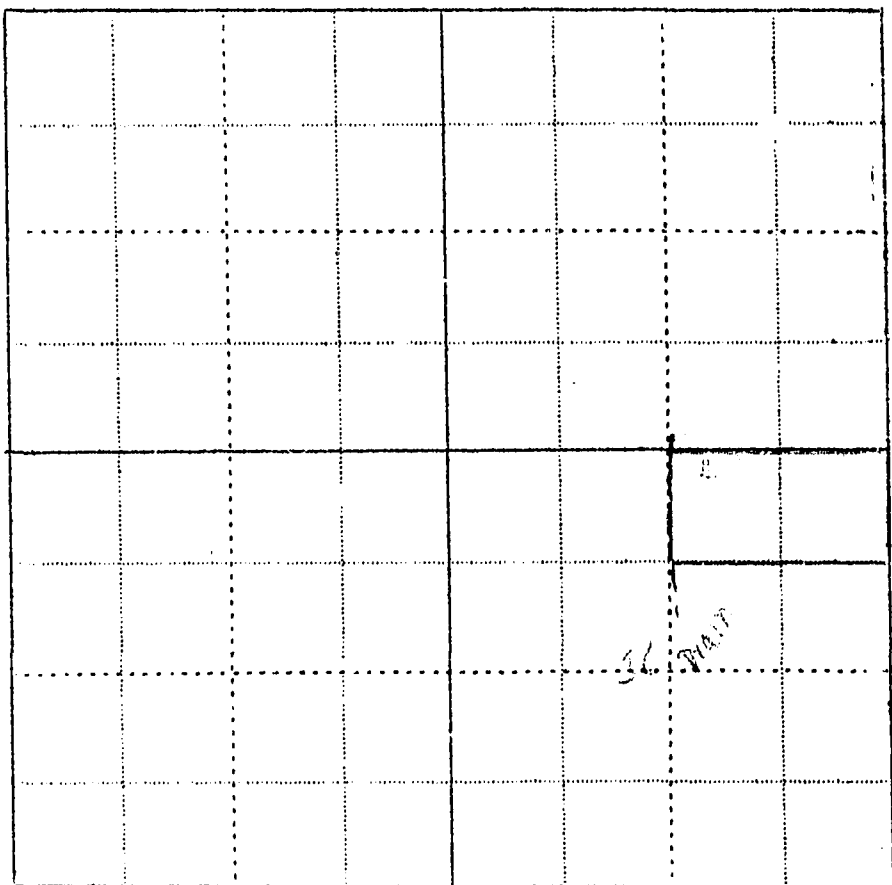
FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information RAA 1035
1. Water User H.A. Carlisle Address Laurel, Mont
2. Stream Big Tributary to _____ Basin _____
3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section _____ Township _____ Range _____
4. Description of System _____
5. Type of Irrigation _____
6. Original Appropriator _____ Address _____
7. First Use: Year _____ Acres Irrigated _____
8. Maximum Use: Year _____ Acres Irrigated _____
9. Present Use: Year 1941 Acres Irrigated 70.0
10. Last Use: Year _____ Why Abandoned _____
11. Condition of System _____
12. Land Description N²NE¹ Sec. 36, T 1S, R 24E

Remarks: _____

15 acres under flow



WITNESS: _____ Information by _____

Place _____

Billings,
XXXXXXXXXX
December 7, 1942

Mr. H. A. Carlisle
502 2nd Ave.
Laurel, Montana

Dear Mr. Carlisle:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of the land that is irrigated is shown in blue.

Second: If possible, please answer those questions checked in red on the enclosed form.

Third: If you have any land that is effected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Oravetz
Assistant Engineer

GJO/rh
enc.

1000

and A

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40

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40

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40

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40

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information State Engineer's Office

1. Water User	H. M. Eltzroth	Address	Laurel
---------------	----------------	---------	--------

2. ~~Stream~~ Big. High *hill* Tributary to *Yellow* Basin Yellowstone

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

4. Description of System

5. Type of Irrigation

6. Original Appropriator	Address

7. First Use: Year 1912 Acres Irrigated 65

8. Maximum Use: Year Acres Irrigated 65

9. Present Use; Year 1941 Acres Irrigated 65

[illegible]

11. Condition of System

12. Land Description $F\frac{1}{2}$ NE $\frac{1}{4}$, Sec. 35, T 1S, R 24E

Remarks:

Has 20 shares under Big Ditch

Has 32 shares under High Ditch

most dramatic scene

1914 - 1915

Alfred Bendish

[illegible]

Alfred D. Jones

WITNESS: Letter

Letter

Information by

Place

n by *H. H. H. H.*

Billings, D.C.

Feb 2 1942

Billings,
XXXXXX
December 7, 1942

Mr. H. M. Filtzroth
Laurel, Montana

Dear Mr. Filtzroth:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of the survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The part of your land that is irrigated is shown in blue.

Second: If possible please answer those questions checked in red on the enclosed form.

Third: If you have any land that is affected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Cravetz
Assistant Engineer

GJC/rh
enc.

FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information A.A.A. #993

1. Water User H.M. Eltzroth Address Laurel Mont.

2. Stream Big Tributary to Basin

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

4. Description of System

5. Type of Irrigation

6. Original Appropriator Address

7. First Use: Year Acres Irrigated

8. Maximum Use: Year Acres Irrigated

9. Present Use: Year 1941 Acres Irrigated 650

10. Last Use: Year Why Abandoned

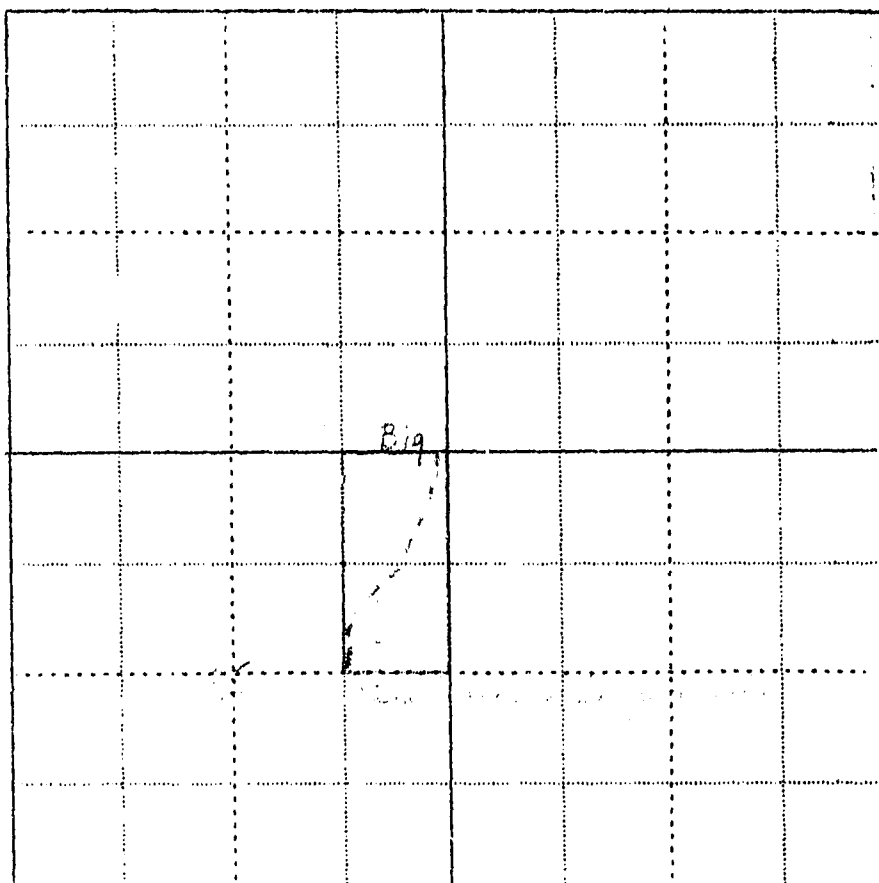
11. Condition of System

12. Land Description E²NE⁴ Sec 35, T 1S, R 24E

Remarks:

20 ft. under Big

32 ft. under High



WITNESS: Information by

Place

2070

1. Water User Federal Land Bank Address Spokane Wash.

2. Stream Green Lake Creek Tributary to Yellow River Basin Yak.

3. Point of Diversion $\frac{1}{2}$ $\frac{1}{4}$ Section Township Range

4. Description of System *12/10/64*

5. Type of Irrigation Surface

6. Original Appropriator *Congress + Regular bill* Address *Washington*

7. First Use: Year _____ Acres Irrigated 136.7

8. Maximum Use: Year _____ Acres Irrigated 136.7

9. Present Use: Year 1941 Acres Irrigated 1367

10. Last Use:	Year	Why Abandoned

11. Condition of System Good

12. Land Description E, N NW, SW NW, 17 SE NW, NW SW Sec 23, T 1 S, R 24 E.

Remarks:

Operator! -

Christ liede

At Bellings Mont.

Res. passed 11-1-18

Arlene M. Jones

.....

100-443887-100

Journal of Management Studies, 19(6), 701-718
© Blackwell Publishers Ltd. 1996

A.C.G.

.....

10-10-1964

[illegible]

WITNESS:

Information by

Place

Christ Dieck

Rolling Office Feb. 6, 1942

Billings,
~~XXXXXXXXXX~~
October 8, 1942

Mr. Christ Diede
Route 1
Billings, Montana

Dear Mr. Diede:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but such information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The land that is irrigated is shown in blue.

Second: From what ditch or ditches do you irrigate and how many acres are under each? How many shares do you have in each company?
If possible, please answer the questions checked in red on the enclosed form.

Third: If you have any land that is affected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

~~Very cordially yours,~~

Gerald J. Gravetz
Assistant Engineer

GJC/rh
enc.

Billings,
February 1, 1943

Mr. Christ Biede
Route 1
Billings, Montana

Dear Mr. Biede:

On December 8, 1942 we sent you a letter asking for certain information pertaining to your irrigated land in Township 1 South, Range 24 East. To date we have not heard from you. It is essential that we have this information in order to know the extent of water use in the Yellowstone Basin. This information is necessary to insure present and future development in the irrigation enterprises in the state.

The 1939 Session of the Montana Legislature enacted a law (Sec. 349.68 Montana Session Law) requiring the State Engineer to investigate and prepare a complete record of all water rights in the state. In compliance with this law all water users in the state are being requested to supply information regarding their use of water.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the U. S. A. office is located. If you cannot supply us with the information we requested, it may be that you can tell us of someone who can. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 5777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Oravetz
Assistant Engineer

GJO/rh

12

54 specimens 21g.
27½ specimens 5g.

1

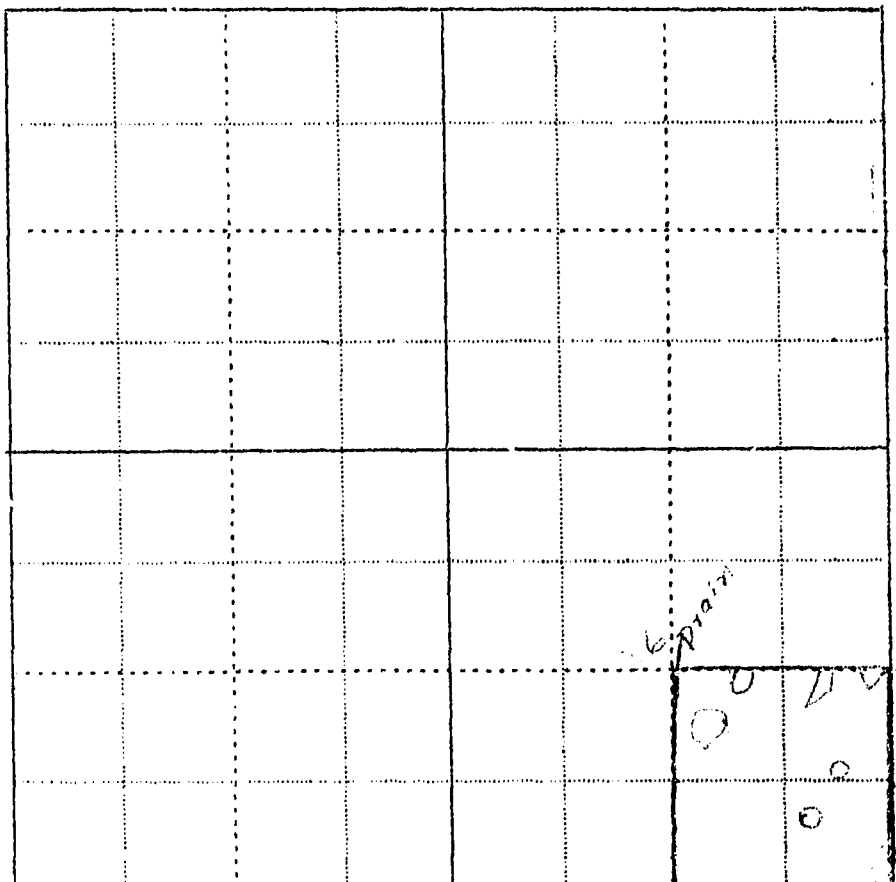
P. 210

FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information AAA 1080
1. Water User Lloyd Golden Address Laurel, Mont.
2. Stream _____ Tributary to _____ Basin _____
3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section _____ Township _____ Range _____
4. Description of System _____
5. Type of Irrigation _____
6. Original Appropriator _____ Address _____
7. First Use: Year _____ Acres Irrigated _____
8. Maximum Use: Year _____ Acres Irrigated _____
9. Present Use: Year 1941 Acres Irrigated 131.4
10. Last Use: Year _____ Why Abandoned _____
11. Condition of System _____
12. Land Description SE⁴ Sec. 36, T 1S., R 24E.

Remarks: _____



WITNESS: _____ Information by _____

Place _____

Billings,
XXXXXXXXXX
December 8, 1942

Mr. Lloyd Golden
Route 1
Laurel, Montana

Dear Mr. Golden:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farms on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The land that is irrigated is shown in blue.

Second: Please indicate on the enclosed form the land irrigated from the High Ditch and that irrigated from the Big Ditch.

If possible please answer those questions checked in red on the enclosed form.

Third: If you have any land that is affected by seepage or land that has been irrigated but which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Gravetz
Assistant Engineer

GJC/rh
enc.

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information H/H 189-2329-5102

1. Water User Philip Fox Jr Address Laurel
2. Stream _____ Tributary to _____ Basin _____
3. Point of Diversion 1/4 1/4 Section _____ Township _____ Range _____
4. Description of System _____
5. Type of Irrigation _____
6. Original Appropriator _____ Address _____
7. First Use: Year _____ Acres Irrigated since Big ditch was built
8. Maximum Use: Year _____ Acres Irrigated 72
9. Present Use: Year 1941 Acres Irrigated 70
10. Last Use: Year _____ Why Abandoned _____
11. Condition of System Good
12. Land Description Sec 3-25-24 E S 2 SE 4 Sec 35-18-24 E
Sec 33-18-24 E, T 18, R 24 E

Remarks: _____

56 shares made 50

66. *Andrena* *Andrena* *Andrena*[illegible]

100-164662

1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 26

12/1/19

A 2.0.0

Mr. A.

Fig. 9

4. QUESTION ANSWER DATE BY REVIEWED BY

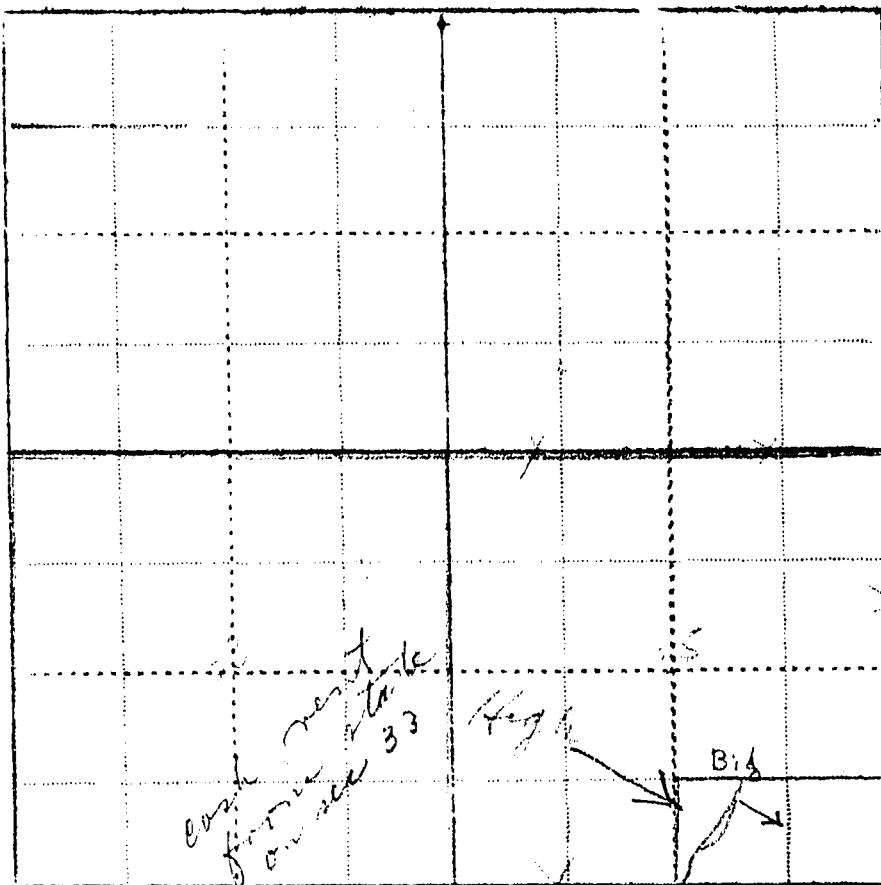
ADDITIONAL INFORMATION: The following information is provided for your information only. It is not intended to be used as a basis for a decision. It is not intended to be used as a basis for a decision. It is not intended to be used as a basis for a decision.

WITNESS: *[Signature]*

Information by *Phillip Fort* *LS.*

Place *Bellevue Office*

Dec 22, 1942



Billings,
XXXXXXX
December 8, 1942

Mr. Phillip Fox
Route 1
Laurel, Montana

Dear Mr. Fox:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of our water use in the Yellowstone Basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. All irrigated land is shown in blue.

Second: From what ditch or ditches is the land on the enclosed form irrigated? If possible please answer those questions checked in red on the enclosed form.

Third: If you have any land that is affected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible in the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Gravetz
Assistant Engineer

GJO/rh
enc.

STATE OF MONTANA WATER RESOURCES SURVEY

County Yellowstone Date April 19, 1943

Name of Water User _____ Address _____

1. Do you own this land? Yes _____ No _____ If not give the owner's name below:

Owner's name Harris Cattle Co. Address % Newton W. Pierson, Route 1, B.2. Source of Water Yellowstone River Water delivered by High Ditch3. Give point of Diversion $\frac{1}{2}$ $\frac{1}{4}$ Section _____ Township _____ Range _____4. Water is obtained by: (Check one) Gravity X Pumping _____ Other _____

5. Who first used water on this land? _____ Address _____

6. In what year was this land first irrigated? _____ Approximate Acres _____

7. What is the greatest number of acres you have irrigated? 230 Date 19378. Present Use: Year 1942 Acres Irrigated 247.6 175

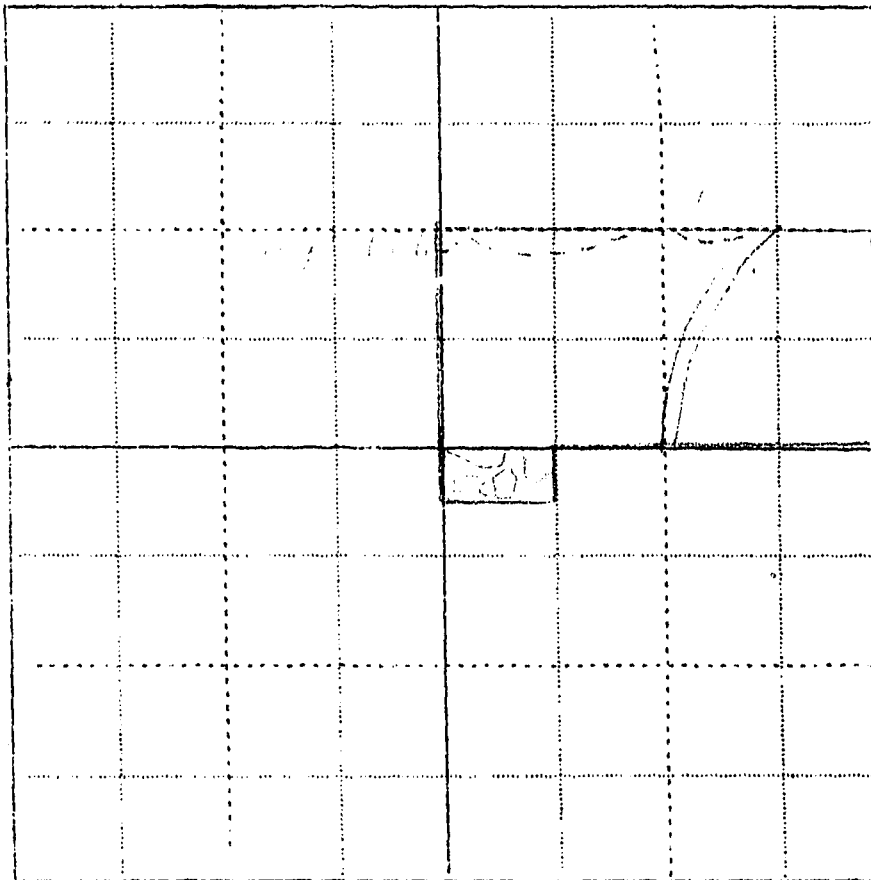
9. If this land is not irrigated now give date of last use _____

10. State the total number of acres that could be irrigated 250 acres.

11. What is the condition of your irrigation system? _____

12. Land Description: S $\frac{1}{2}$, Sec. 12; NW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 13, Twp. 1 S. Range 24 E.Remarks: has 117 shares in theHigh Ditch and 114 shares in theBig Ditch.

This area 40 shares in
Big Ditch & 96 in High Ditch
Total shares 233 shares
by this about 20 acres
is watered, 63 shares in
High Ditch and it has any
kind of water 35 shares in
"gravel pit" not suit-
able to farm 195 shares in
fair to good soil

Information by W. Pierson Place Of. H. A. Date May 22

FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County	Source of Information
	3-32

[illegible]

2. Stream High Tributary to Basin

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

4. Description of System

5. Type of Irrigation

6. Original Appropriator	Address
--------------------------	---------

7. First Use:	Year	Acres Irrigated
---------------	------	-----------------

8. Maximum Use; Year Acres Irrigated

9. Present Use: Year 1967 Acres Irrigated 347.6

10. Last Use:	Year	Why Abandoned

11. Condition of System

12. Land Description 1700 1/2 Acres, 1/4 Sec 13, T 13, R 24

Remarks: _____

117 abn. m. si. N. d.

114. *Stachys arvensis*

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Journal compilation © 2006 Blackwell Publishing Ltd

DISCLOSURE OF INFORMATION: The authors have nothing to disclose.

WITNESS: _____ Information by _____

Place _____

Page 4

FORM SM-1.

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone

Source of Information State Engineer's office

1. Water User Est. of Emma G. Connelly Address % Frank Krom, Route 1, Billings

2. Stream Big Litch + High Litch + Cove Litch Tributary to Y.R. Basin Yellowstone

3. Point of Diversion 1/4 Section 1/4 Township Range

4. Description of System

5. Type of Irrigation

6. Original Appropriator Address

7. First Use: Year Acres Irrigated

8. Maximum Use: Year Acres Irrigated

9. Present Use: Year 1941 Acres Irrigated 212.5

10. Last Use: Year Why Abandoned

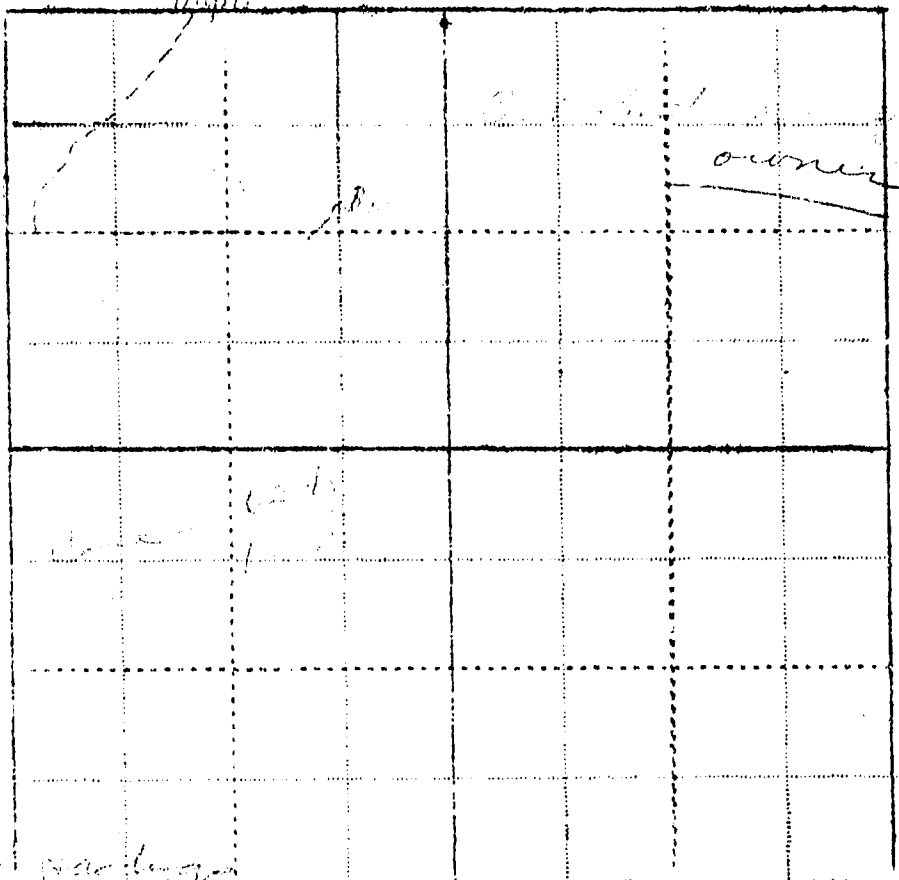
11. Condition of System

12. Land Description NW 1/4, W 1/2 NE 1/4, Sec. 35, T 1S, R 24E

Remarks: 50 shares in High Litch
25 shares in Big Litch

About 62 Acres irrigated from Cove Litch. About 150 acres irrigated from High Litch which is a lateral from Big Litch.

Was first irrigated when High Litch was built and that part under Cove when that canal was finished. 63 shares in Cove -



WITNESSES:

Information by Frank Krom

Place

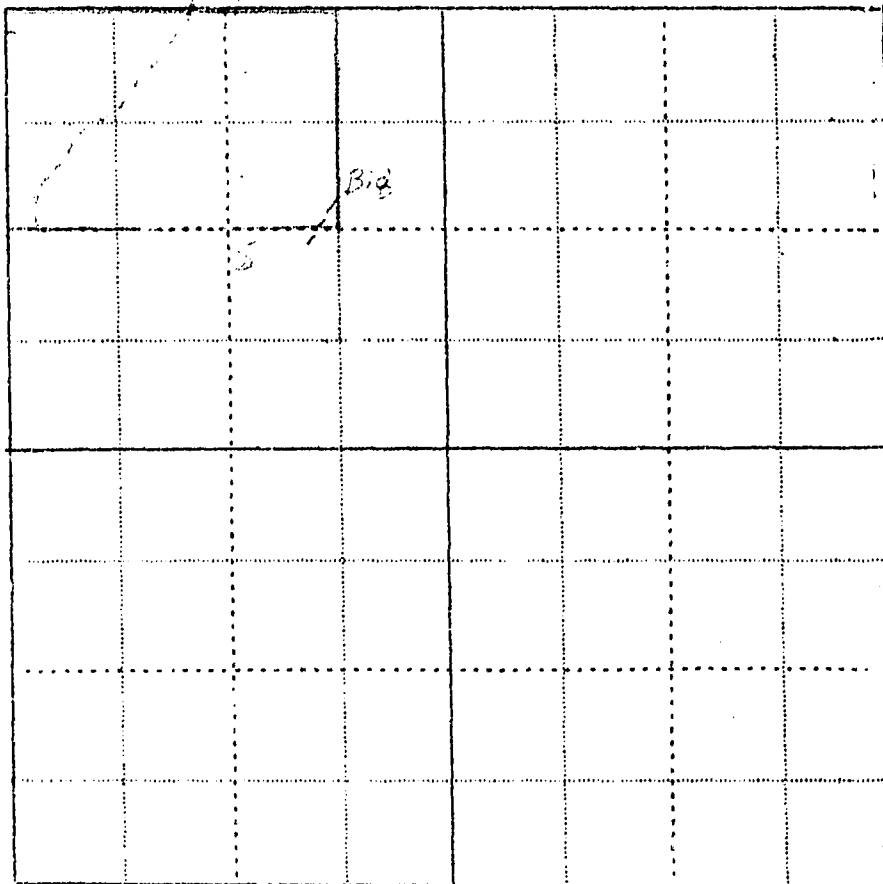
FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information U. A. G. # 492
1. Water User Est. of Emma G. Connolly Address to Frank Krom Admin. Bldg. Billings
2. Stream Big + Lower Tributary to _____ Basin _____
3. Point of Diversion 1/4 1/4 Section _____ Township _____ Range _____
4. Description of System _____
5. Type of Irrigation _____
6. Original Appropriator _____ Address _____
7. First Use: Year _____ Acres Irrigated _____
8. Maximum Use: Year _____ Acres Irrigated 13.77
9. Present Use: Year 1941 Acres Irrigated 212.5
10. Last Use: Year _____ Why Abandoned _____
11. Condition of System _____
12. Land Description NW, 10² NE⁴ Sec 35, T 18, R 24E

Remarks: Have 18

shown in Big
to Lower Basin



WITNESS: _____ Information by _____

Place _____

FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone

Source of Information State Engineer's Office

1. Water User Jake Heinrich

Address Route 1, Billings

2. Stream _____

Tributary to _____

Basin Yellowstone

3. Point of Diversion $\frac{1}{4}$

$\frac{1}{4}$

Section _____

Township _____

Range _____

4. Description of System _____

5. Type of Irrigation _____

6. Original Appropriator _____

Address _____

7. First Use: Year 1939 Acres Irrigated _____

8. Maximum Use: Year _____ Acres Irrigated _____

9. Present Use: Year 1941 Acres Irrigated _____

147.0 Part 2 115 A part 1 Sec 13

10. Last Use: Year _____ Why Abandoned _____

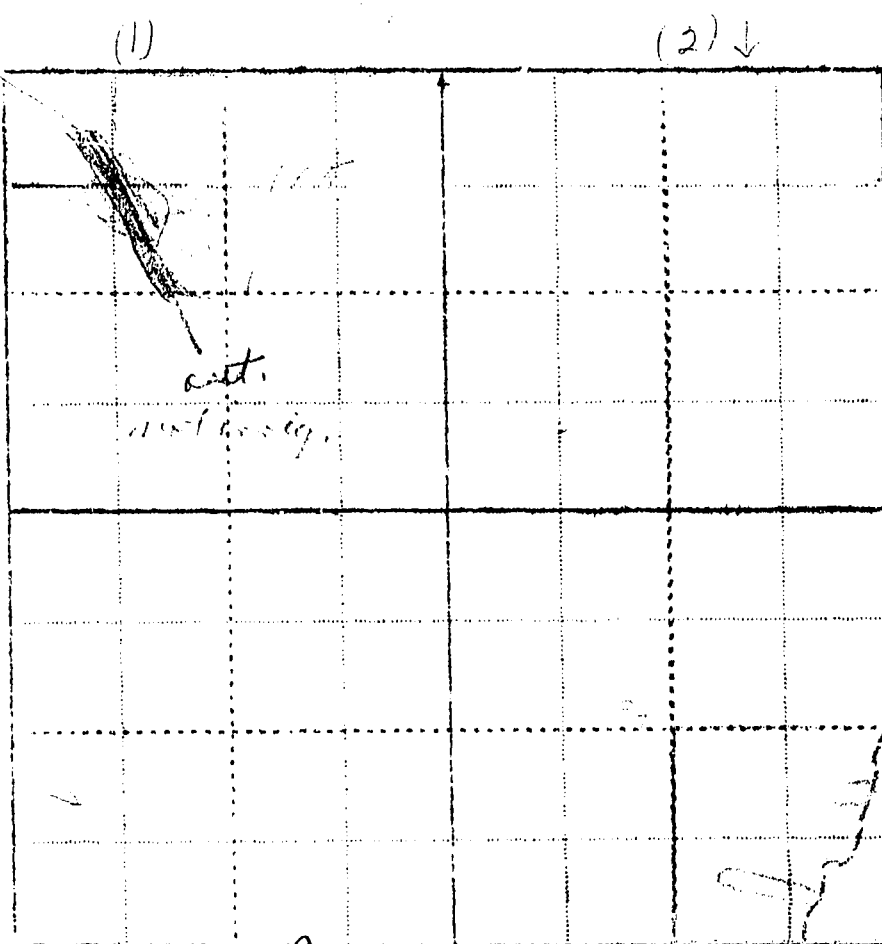
11. Condition of System _____

12. Land Description (1) NW $\frac{1}{4}$, Sec. 13 (less 20 A. in NW $\frac{1}{4}$ W $\frac{1}{4}$) 1S 24E

(2) SE $\frac{1}{4}$, Sec. 34 T 1S R 24E

Remarks: _____

20
30 A
115 A
117 A
34
34
34



WITNESS: _____

Information by Jake Heinrich

Place Billings, Wyo.

Dec. 14, 1942

FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information RAA 1095

1. Water User Lake Heinrich Address Rte 1-Billing, Mont.

2. Stream _____ Tributary to _____ Basin _____

3. Point of Diversion $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

4. Description of System

5. Type of Irrigation

6. Original Appropriator	Address

7. First Use: Year .. Acres Irrigated ..

8. Maximum Use: Year Acres Irrigated

9. Present Use: Year 1941 Acres Irrigated 147.0

10. Last Use:	Year	Why Abandoned

11. Condition of System

12. Land Description *S 6, Sec 34*, T *18*, R *24 E.*

Remarks :

1000

A blank sheet of graph paper with a grid pattern. The grid consists of solid horizontal and vertical lines forming large squares, and dashed horizontal and vertical lines forming smaller squares within each large square. There are four large squares across the width and three large squares down the height. Faint handwritten markings are visible near the bottom center, including what appears to be "High" and some illegible scribbles.

WITNESS: _____ Information by _____

Place _____

13-6

STUDY OF MONTANA'S WATER RESOURCES

County Alameda Source of Information F.O.I. 1016

1. Water User Jake Heinrich Address Rte 1. Bellingsport

2. Stream High tributary to Basin

3. Point of Diversion $\frac{1}{2}$ $\frac{1}{2}$ Section Township Range

4. Description of System

5. Type of Irrigation _____

[illegible]

7. First Use: Year . . . Acres Irrigated . . .

8. Maximum Use: Year _____ Acres Irrigated _____

9. Present Use: Year 1941 Acres Irrigated 112.0

10. Last Use:	Year	Why Abandoned

11. Condition of System

12. Land Description NW 1/4 Sec 13, (Corr 20 A in NW 1/4), T 18, R 24E

Remarks:

46

[illegible]

WITNESS: _____ Information by _____

Place _____

Billings,
XXXXXXXXXX
December 8, 1942

Mr. Jake Heinrich
Route 1
Billings, Montana

Dear Mr. Heinrich:

The States of Montana, Wyoming and North Dakota have entered into a compact or agreement for the division of the waters of the Yellowstone River. Permission for this agreement has been granted by the Congress of the United States. North Dakota and Wyoming have the necessary information to claim their share of these waters, but much information is not available for Montana. Therefore it is necessary that we contact each and every water user in this basin in order to properly execute our part in the Compact and protect our water users. Data on water use in Montana will be presented to the Compact Commission upon the completion of this survey. As much of the information needed to show the extent of water use in the Yellowstone basin must come directly from you people using water, we are asking you to help us obtain this information for Montana.

First: We would like to know if the information we have compiled in regard to your irrigated farm on the enclosed form is correct. If it is not correct, we will greatly appreciate your making the necessary corrections. The land that is irrigated is shown in blue.

Second: Please indicate on the enclosed form the land irrigated from each ditch. If possible please answer those questions checked in red on the enclosed form.

Third: If you have any land that is affected by seepage or land that has been irrigated which is now idle, please indicate the amount on the enclosed form, and mail this information to us as soon as possible to the enclosed self-addressed envelope. Any additional information you may wish to give us regarding your farm will be greatly appreciated.

In order to facilitate this work a branch office of the State Engineer has been established in the old Roosevelt School Building in Billings. This is the same building in which the A. A. A. office is located. If any of this is not clear to you, we will appreciate your calling on us the next time you are in Billings, or you may phone us at 3777.

Hoping to hear from you in the very near future, I am,

Very truly yours,

Gerald J. Gravetz
Assistant Engineer

GJC/rh
enc.

Please Do Not Fill in Any Items on This Page

(6000) **Notice of Appropriation** #258

1. County Idaho Book 12 Page #36 Record 1000
2. Name of Appropriator W. H. Storer Address Butte, B. I. Territory
3. Date Appropriated March 17, 1889 Date Filed June 1, 1889
Amount Appropriated, Miners Inches 500, Cubic Feet per second _____
4. Name of Stream Snake River Tributary _____ Basin _____
5. Point of Diversion from Snake River

Sec. 5 Twp. 25N Rge. 6E Bank of Stream _____

6. Purpose irrigation
7. Description of System open ditch

8. Land Description of Intended Place of Use about 1/2 mile of E

9. Remarks (Pertaining to Use, etc.) for irrigation to lands
W. H. Storer

Decree

10. Case No. _____ Date _____ Amt. Decreed: M. I. _____ C. F. S. _____
11. To Whom Decreed _____ Address _____
12. Name of Ditch _____ Maximum Capacity (C. F. S.) _____
13. Date of Priority _____ Purpose _____
14. Land Description of Place of Use as Decreed _____
15. Remarks (Present Use Status, etc.) _____

County Yellowstone

aaa 1099

1. Water User A. L. Hoblit

Address 90 S. F. Goodard, Billings

2. Stream Blue

Tributary to _____ Basin

Basin

3. Point of Diversion..... $\frac{1}{4}$

 $\frac{1}{4} \quad \frac{1}{4}$ $\frac{1}{4}$

Section

Tow. ship

Range

4. Description of System.

5. Type of Irrigation

6. Original Appropriator

Address

7. First Use: Year

Year

Acres Irrigated

8. Maximum Use: Year

Year

Acres Irrigated

9. Present Use: Year

Year'

Acres Irrigated 99.4

99.4

.....01

10. Last Use: Year

Year

Why Abandoned.

11. Condition of System

12. Land Description *SW 1/4 Sec 24*

, T

.....

R 248

Remarks :

De la détermination des points de vue

(Manufactured)

594

Journal of Management Education 30(6)

[illegible]

WITNESS:

Information by

Place

[illegible]

2:07

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone

Source of Information

~~% O. F. Goddard 304 N. 31, Billings~~

1. Water User A. L. Hoblit

Address Carlinville, Ill.

2. ~~Stream~~ Big *Big* Tributary to Basin Yellowstone

3. Point of Diversion	$\frac{1}{4}$	$\frac{1}{4}$	Section	Township	Range
-----------------------	---------------	---------------	---------	----------	-------

4. Description of System

5. Type of Irrigation

6. Original Appropriator	Address

7. First Use: Year Acres Irrigated

8. Maximum Use; Year	Acres Irrigated
1950	100
1955	100
1960	100
1965	100
1970	100
1975	100
1980	100
1985	100
1990	100
1995	100
2000	100
2005	100
2010	100
2015	100
2020	100
2025	100
2030	100
2035	100
2040	100
2045	100
2050	100
2055	100
2060	100
2065	100
2070	100
2075	100
2080	100
2085	100
2090	100
2095	100
2100	100

9. Present Use; Year 1941 Acres Irrigated 99.4

10. Last Use:	Year	Why Abandoned
---------------	------	---------------

11. Condition of System

12. Land Description SW¹/₄, Sec. 24, T 1S, R 24E

Remarks:

Has 12 $\frac{1}{2}$ shares under Big Ditch

[illegible]

WITNESS:

~~Letter~~

Information by

Place

Please Do Not Fill in Any Items on This Page

Notice of Appropriation #258

1. County Lincoln Book 16 Page 36 Record 100
2. Name of Appropriator Wm. H. Stager Address Butler, Mont. Territory
3. Date Appropriated March 17, 1882 Date Filed March 1, 1882
- Amount Appropriated, Miners Inches 500, Cubic Feet per second
- Name of Stream Montana River Tributary Basin
5. Point of Diversion to the Montana River
- Sec. 5 Twp. 35 Rge. 16 Bank of Stream
6. Purpose
7. Description of System
8. Land Description of Intended Place of Use 1/2 Section 21 E
9. Remarks (Pertaining to Use, etc.) This is a small creek in the
Back a.

Decree

10. Case No. Date Amt. Decreed: M. I. C. F. S.
11. To Whom Decreed Address
12. Name of Ditch Ma. in Capacity (C. F. S.)
13. Date of Priority Purpose
14. Land Description of Place of Use as Decreed

FORM SM-1

A STUDY OF MONTANA'S WATER RESOURCES

County Yellowstone Source of Information AAA 1099

1. Water User A. L. Hoblit Address G. O. F. Goddard, Billings

2. Stream Big Lost Tributary to Big Lost Basin Big Lost

3. Point of Diversion 1/4 1/4 Section 1 Township 1 Range 1

4. Description of System Small

5. Type of Irrigation Small

6. Original Appropriator Small Address Small

7. First Use: Year 1941 Acres Irrigated 99.4

8. Maximum Use: Year 1941 Acres Irrigated 99.4

9. Present Use: Year 1941 Acres Irrigated 99.4

10. Last Use: Year 1941 Why Abandoned Small

11. Condition of System Small

12. Land Description SW 1/4 Sec 24, T 15, R 24E.

Remarks:

123

(Municipal Council)

592

[illegible]

2010年04月04日 14:06:41 星期一 2010年04月04日 14:06:41 星期一 2010年04月04日 14:06:41 星期一

[illegible]

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

[illegible]

Abstract

WITNESS: _____

WITNESS: _____ Information by _____

Place