TABLE No. 5.—*Annual Expenditures on Michigan Drains for 20 Year Period 1898-1917*

1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	Totals.
$37,154 76	$9,679 07	$3,895 36	$4,877 14	$5,936 66	$14,467 17	$17,147 42	$15,486 91	$14,497 57	$15,104 69	$11,274 35	$8,309 05	$10,293 05	$8,576 96	$7,764 08	$15,336 86	$18,926 36	$25,692 74	$48,487 11	$44,628 04	$307,535 35
.....	.....	202 40	128 50	700 36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,034 70	2,065 96
.....	2,213 80	6,963 21	9,819 33	11,661 58	6,374 62	9,709 23	7,891 97	10,963 99	2,167 97	9,042 83	10,888 81	10,582 05	6,164 37	5,438 85	31,263 30	17,472 98	17,805 72	18,743 20	31,714 78	226,882 59
1,384 77	1,273 18	5,089 97	6,686 76	3,875 52	12,087 61	19,139 12	13,570 21	8,065 29	3,839 65	1,436 71	923 39	1,381 86	319 39	.....	1,755 54	5,931 00	3,783 85	8,193 32	49,762 03	148,499 17
2,895 45	5,319 66	8,707 63	16,759 69	21,024 40	18,535 88	41,354 78	62,953 20	74,194 80	71,051 04	70,017 30	53,946 28	21,183 64	16,777 63	7,305 84	8,445 78	25,707 92	26,368 18	23,296 65	31,353 84	607,199 59
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38 00	246 59	4 00	.....	568 40	856 99
9,209 44	6,913 68	16,598 23	14,862 19	7,238 83	17,451 84	29,751 18	28,541 34	8,920 85	19,759 35	25,653 95	29,389 14	30,613 96	21,501 13	23,612 12	13,646 92	31,515 29	40,105 88	12,973 63	10,116 79	398,375 74
3,322 57	11,919 07	8,478 70	8,152 14	15,539 70	5,550 94	14,967 75	36,019 78	25,355 84	17,736 52	15,827 20	15,412 16	20,563 62	11,511 42	10,244 16	10,882 96	24,969 96	13,400 02	38,140 27	25,295 94	333,290 72
7,550 44	5,573 18	6,494 36	4,147 41	10,331 19	6,216 33	8,046 42	10,354 17	22,140 79	7,172 62	20,895 04	30,568 55	5,312 57	8,802 49	9,604 79	19,005 05	36,082 34	23,710 16	21,980 14	41,785 83	305,773 87
641 64	9 37	7 50	15 00	1,568 20	9,605 14	4,267 89	9,263 58	5,941 55	6,899 48	4,339 62	4,706 34	2,614 17	1,609 81	1,568 04	2,690 29	20,410 43	3,197 88	7,282 93	2,725 78	89,364 64
.....	.....	.....	.....	.....	.....	1,238 88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,238 88
.....	.....	.....	.....	336 48	338 25	929 08	2,335 33	2,207 43	732 16	975 87	479 29	501 08	20 23	936 58	360 38	3,019 58	2,982 26	687 56	508 24	17,249 80
.....	479 54	491 31	387 72	2,165 74	90 00	818 94	939 39	119 15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5,491 79
951 66	2,910 10	1,887 95	191 70	2,677 55	2,092 69	1,999 34	1,787 65	1,259 10	946 90	322 30	189 89	619 87	682 30	2,167 91	1,701 29	6,119 11	9,121 03	3,935 89	19,033 75	60,597 98
4,335 97	8,070 71	23,127 05	9,865 58	11,373 79	10,822 58	15,533 54	33,395 95	37,289 32	53,188 37	84,889 45	55,740 37	42,294 86	26,316 81	27,228 06	30,628 52	73,268 49	52,030 95	73,436 93	97,010 33	769,847 62
7,046 00	4,212 14	11,396 43	21,863 86	13,972 61	50,768 10	43,762 77	106,088 09	92,489 33	48,481 14	38,961 33	49,844 89	66,826 51	27,717 13	18,655 18	34,647 71	46,528 78	66,132 83	34,545 81	66,326 87	850,267 51
.....	.....	.....	.....	.....	.....	21 00	50 00	181 54	517 80	38 70	460 95	15 58	5 28	24 68	.....	.....	.....	.....	.....	1,291 77
8,194 91	20,436 00	17,248 24	18,504 89	18,965 40	19,316 83	20,578 83	24,211 51	44,197 00	40,540 33	27,184 78	13,460 82	12,347 20	23,306 46	22,372 13	42,205 05	30,665 22	39,184 33	73,059 21	67,392 71	583,371 85
281 15	2,155 83	687 40	1,262 30	2,409 43	2,893 41	5,864 79	3,266 42	11,207 75	12,176 17	9,405 24	7,592 09	5,021 65	2,189 78	12,546 04	17,357 28	22,518 81	25,651 56	32,661 67	36,255 68	213,404 45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43 00	624 18	201 90	63 14	932 22
25,153 69	24,313 59	51,450 79	59,307 75	48,899 69	53,797 53	134,255 14	150,066 74	70,769 59	50,078 64	47,985 75	35,248 37	51,927 27	56,937 11	35,470 79	38,513 25	78,422 89	84,726 44	49,179 97	75,353 87	1,221,858 86
1,712 94	2,953 78	13,314 49	7,083 81	2,330 03	9,638 96	4,898 69	14,676 10	24,663 10	54,330 84	30,177 08	70,905 07	32,694 51	16,741 50	18,907 50	22,237 86	38,852 53	16,097 59	18,857 92	25,624 79	426,699 09
21,685 54	18,518 26	21,649 79	15,003 94	23,637 43	15,787 50	34,642 20	47,685 86	48,159 02	57,470 61	40,757 94	31,565 54	48,161 79	20,428 37	43,203 52	45,699 14	85,798 13	65,376 12	84,473 78	37,994 77	807,700 25
3,131 51	21,347 93	10,361 87	10,019 41	9,854 49	13,976 51	13,699 57	20,236 31	20,457 04	22,427 85	31,195 49	46,712 18	38,111 31	33,965 04	19,790 42	73,130 14	55,658 88	45,828 61	58,130 43	87,109 77	645,144 16
3,906 84	1,487 69	11,217 61	6,410 35	5,818 46	21,237 09	36,643 52	33,993 27	31,297 68	14,245 87	15,264 63	5,805 53	11,566 64	11,398 25	16,946 02	4,016 01	13,840 16	8,353 29	10,525 94	21,535 17	285,510 02
10 22	.....	.....	.....	.....	.....	.....	.....	271 60	.....	977 11	1,500 62	2,833 95	2,462 61	2,472 79	1,177 63	3,483 98	3,232 74	5,958 68	6,900 60	31,283 53
8,302 82	10,162 31	11,341 06	18,424 73	19,665 33	27,677 49	31,991 12	66,129 76	48,674 10	23,216 46	32,459 53	28,368 64	9,580 77	15,131 98	27,528 19	21,590 05	68,985 03	58,915 52	84,879 91	73,017 89	686,042 69
1,530 20	3,746 61	2,691 40	3,024 40	166 22	914 93	8,675 87	5,462 13	8,622 50	6,498 76	4,871 06	4,267 63	4,196 82	644 53	1,553 36	127 00	2,836 53	4,427 72	1,689 67	18,587 72	84,535 06
4,033 00	2,527 74	3,532 33	3,844 00	1,705 52	7,397 47	2,267 49	575 44	87 05	10,311 28	15,993 65	5,471 07	8,556 23	9,122 00	5,295 95	2,651 36	11,620 29	20,420 28	14,268 69	29,813 74	159,494 58
1,580 38	3,768 13	5,580 42	12,690 09	8,023 04	11,832 06	13,317 61	10,245 89	7,819 25	7,092 62	3,763 89	7,317 76	8,165 87	3,222 62	1,395 74	5,723 03	7,907 45	13,452 85	12,442 57	13,858 44	159,199 71
.....	.....	.....	.....	.....	641 00	.....	730 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,371 00
3,748 68	3,955 62	5,248 12	6,816 93	8,195 19	13,195 40	18,482 48	17,716 54	22,489 32	46,142 79	47,910 03	46,320 55	27,106 10	30,721 74	42,753 92	39,431 72	35,511 62	40,261 34	30,192 33	15,351 05	501,551 47
1,232 27	11,036 82	12,150 00	14,557 37	11,800 71	11,109 69	8,693 51	7,136 54	29,276 48	26,864 83	33,929 25	81,686 53	53,879 90	39,597 30	30,358 22	61,612 07	73,943 06	55,868 07	40,403 94	32,022 16	647,155 72
8,583 73	31,449 94	18,085 98	8,831 17	4,261 08	15,963 42	15,963 99	17,717 70	21,987 99	30,374 77	39,759 02	39,152 50	32,233 07	28,875 27	58,494 98	16,109 30	17,916 78	17,106 06	15,561 33	25,588 18	464,015 26
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	285 81	.....	.....	.....	285 81
3,829 43	6,696 96	3,725 61	7,180 06	12,867 50	12,801 41	14,594 13	14,717 41	13,185 98	17,253 97	12,784 34	31,516 77	14,267 85	17,330 85	16,960 06	9,321 71	11,044 92	13,402 77	32,395 97	23,034 19	288,911 89
.....	.....	716 63	52 50	52 25	417 30	813 41	644 23	1,397 10	3,752 02	7,041 87	2,768 79	1,365 85	535 03	152 72	268 01	694 55	1,226 28	594 30	675 10	23,167 94
.....	333 60	1,139 04	5,512 24	2,476 56	3,508 70	3,987 56	100 75	7,294 77	2,891 46	6,033 07	6,343 33	2,959 79	6,094 75	4,984 21	2,310 76	8,772 62	6,362 11	10,519 08	10,536 10	92,160 50
.....	.....	.....	.....	288 00	443 79	235 40	1,118 59	350 61	3,972 67	5,480 38	1,746 55	7,012 11	1,275 74	3,314 61	860 31	1,474 97	1,663 08	96 70	5,127 49	33,961 00
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	141 83	974 35	1,056 00	.....	.....	2,172 18
5,014 76	9,760 94	8,403 91	13,196 32	11,420 29	7,478 75	33,260 88	55,385 24	32,366 53	51,591 00	63,167 10	23,819 77	28,039 46	26,133 36	34,661 16	24,774 57	100,551 19	99,817 23	81,838 86	78,962 15	789,643 47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	328 04	.....	.....	2,334 44	6,246 30	10,701 30	3,582 27	1,655 50	24,847 85
10,162 14	9,581 67	14,899 75	15,878 54	34,991 64	12,001 75	24,946 53	19,504 80	30,743 44	33,527 48	29,548 48	22,018 17	10,660 53	2,626 08	10,872 09	20,401 88	32,533 93	17,275 86	21,124 02	43,466 91	416,765 69
936 89	4,008 73	6,151 80	2,298 75	7,110 50	18,216 88	18,962 33	17,628 15	36,680 53	15,430 57	8,578 94	1,560 40	2,476 76	835 39	131 53	4,942 13	13,725 76	39,180 58	27,477 20	12,353 76	238,687 58
4,118 08	2,651 93	2,137 45	2,252 93	1,711 98	2,165 59	7,184 21	3,828 75	5,189 55	20,040 68	8,932 93	10,206 36	5,030 42	1,476 74	1,177 10	2,944 94	510 20	784 21	6,471 22	11,414 76	100,230 03
1,841 06	3,125 06	2,301 10	3,030 25	6,545 57	6,078 34	9,548 30	6,890 97	7,250 43	9,112 17	3,348 80	5,711 83	5,908 73	3,621 01	2,894 24	6,194 39	25,066 11	16,356 32	11,451 29	12,190 19	148,466 16
5,257 42	4,791 20	2,065 14	884 00	5,271 94	7,785 29	*3,240 89	*3,240 89	*3,240 89	1,772 03	4,242 35	6,007 09	6,446 26	874 62	3,508 62	13,592 28	9,283 18	19,323 54	17,157 30	30,741 17	148,726 10
.....	.....	334 75	702 37	1,268 49	2,551 80	2,476 66	2,606 45	155 65	1,854 53	2,231 05	1,009 99	2,439 56	4,413 36	3,369 80	6,716 75	2,941 70	1,619 21	11,519 11	16,867 39	65,078 62
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	578 22	.....	578 22
.....	.....	.....	.....	.....	.....	.....	2,840 75	187 94	2,679 87	15 00	1,376 89	2,560 23	453 16	928 66	3,930 56	15,022 15	17,591 10	5,899 12	12,044 88	65,530 31
3,243 52	2,975 53	2,824 16	4,775 58	4,201 18	4,570 77	7,233 03	6,893 07	7,640 39	17,797 15	17,192 41	13,397 48	19,295 33	15,870 56	12,967 89	11,836 08	8,741 80	12,160 99	6,917 41	12,428 76	193,093 09
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,103 77	731 20	.....	.....	.....	.....	.....	.....	.....	1,835 97
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,020 68	62 13	108 98	40 00	.....	.....	.....	.....	76 50	652 90	2,961 19
4,635 36	11,390 92	27,015 35	40,724 77	48,286 65	38,963 00	82,135 14	80,593 51	65,509 54	58,291 57	59,585 20	54,275 44	17,003 55	26,981 95	46,701 41	30,112 25	38,772 86	43,151 72	79,238 18	68,488 21	921,856 58
3,035 65	24,180 18	40,860 11	50,053 50	45,838 56	44,116 02	61,559 59	67,299 52	66,442 18	57,805 90	52,222 49	57,887 57	80,022 73	63,624 38	63,791 36	64,853 13	76,152 75	57,567 49	93,849 23	58,403 72	1,159,566 06
9,283 79	20,364 54	30,192 70	13,935 30	12,484 46	16,780 08	41,428 63	89,860 29	80,123 24	45,447 25	21,576 99	33,225 32	25,844 74	18,538 63	27,759 71	29,551 07	33,723 09	29,653 95	74,924 96	105,647 99	770,346 73
6,517 18	5,614 19	8,473 00	13,217 85	9,658 29	27,839 06	23,040 77	32,982 01	29,782 72	27,327 26	19,294 89	9,882 56	10,979 19	6,704 58	3,011 98	11,868 41	17,261 17	15,888 89	28,506 05	32,893 45	340,743 50
3,689 25	2,314 52	3,559 17	6,237 92	4,500 26	4,177 58	8,628 24	2,015 13	562 89	3,428 16	2,475 51	1,228 10	6,689 73	4,473 14	2,882 30	2,782 83	16,093 45	9,916 45	19,671 97	20,275 15	125,601 75
8,576 94	18,447 05	25,452 07	25,871 06	27,165 74	20,759 76	37,920 30	55,672 82	35,960 97	38,906 53	64,482 80	37,569 26	76,401 76	59,678 87	52,353 49	58,422 20	87,177 44	78,736 85	85,096 60	61,406 29	956,058 87
2,566 20	7,779 20	8,605 65	9,366 69	9,714 93	11,639 16	18,394 62	19,430 19	15,713 95	17,709 83	16,768 01	11,675 38	7,297 84	9,185 61	7,079 59	7,452 85	17,518 14	14,040 62	8,150 96	45,460 29	265,549 71
1,742 30	1,742 29	6,518 36	1,704 15	4,506 44	5,575 69	16,730 33	7,777 58	21,001 42	16,003 65	40,484 45	21,989 57	40,249 08	12,859 97	1,199 48	413 15	14,546 13	7,669 03	7,533 35	19,386 96	249,633 38
3,439 08	930 27	3,955 26	3,315 96	21,821 03	37,664 47	31,743 56	23,745 39	23,716 30	31,630 25	26,606 23	15,491 18	13,601 34	37,099 74	17,046 13	21,765 18	18,076 77	8,420 26	9,531 42	10,837 77	370,437 59
85 26	720 54	631 00	467 00	301 85	1,192 14	3,247 00	48 00	5 00	150 00	242 62	183 29	424 27	2,037 25	945 12	584 11	4,996 48	479 16	666 11	171 69	17,577 89
5,554 89	$353,843 07	$477,861 61	$504,195 90	$546,618 74	$666,507 77	$1,009,972 66	$1,263,252 34	$1,178,138 04	$1,127,745 51	$1,139,665 69	$1,058,290 00	$947,431 28	$747,514 28	$772,308 68	$900,359 99	$1,420,392 01	$1,307,407 20	$1,469,058 78	$1,683,457 17	$18,859,575 56

for years 1904, 1905, 1906. This period estimated.
owing 20 counties:—Alcona, Alger, Antrim, Baraga, Crawford, Delta, Dickinson, Gogebic, Houghton, Iron, Kalkaska, Keweenaw, Leelanau, Luce, Marquette, Montmorency, Ogemaw, Oscoda, Otsego, Schoolcraft.

TABLE No. 5.—*Annual Expenditures on Michigan Drains for 20 Year Period 1898-1917*

County.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.
Allegan	$7,154 76	$9,679 07	$3,895 36	$4,877 14	$5,936 66	$14,467 17	$17,147 42	$15,486 91	$14,497 57	$15,104 69	$11,274 35	$8,309 05	$10,293 05	$8,576 96	$7,764 08	$15,336 86	$18,926 36	$25,692 74
Alpena			202 40	128 50	700 36													
Arenac		2,213 80	6,963 21	9,819 33	11,661 58	6,374 62	9,709 23	7,891 97	10,963 99	2,167 97	9,042 83	10,888 81	10,582 05	6,164 37	5,438 85	31,263 30	17,472 98	17,805 72
Barry	1,384 77	1,273 18	5,089 97	6,686 76	3,875 52	12,087 61	19,139 12	13,570 21	8,065 29	3,839 65	1,436 71	923 39	1,381 86	319 39		1,755 54	5,931 00	3,783 85
Bay	2,895 45	5,319 66	8,707 63	16,759 69	21,024 40	18,535 88	41,354 78	62,953 20	74,194 80	71,051 04	70,017 30	53,946 28	21,183 64	16,777 63	7,305 84	8,445 78	25,707 92	26,368 18
Benzie																38 00	246 59	4 00
Berrien	9,209 44	6,913 68	16,598 23	14,862 19	7,238 83	17,451 84	29,751 18	28,541 34	8,920 85	19,759 35	25,653 95	29,389 14	30,613 96	21,501 13	23,612 12	13,646 92	31,515 29	40,105 88
Branch	3,322 57	11,919 07	8,478 70	8,152 14	15,539 70	5,550 94	14,967 75	36,019 78	25,355 84	17,736 52	15,827 20	15,412 16	20,563 62	11,511 42	10,244 16	10,882 96	24,969 96	13,400 02
Calhoun	7,550 44	5,573 18	6,494 36	4,147 41	10,331 19	6,216 33	8,046 42	10,354 17	22,140 79	7,172 62	20,895 04	30,568 55	5,312 57	8,802 49	9,604 79	19,005 05	36,082 34	23,710 16
Cass	641 64	9 37	7 50	15 00	1,568 20	9,605 14	4,267 89	9,263 58	5,941 55	6,899 48	4,339 62	4,706 34	2,614 17	1,609 81	1,568 04	2,690 29	20,410 43	3,197 88
Charlevoix							1,238 88											
Cheboygan					336 48	338 25	929 08	2,335 33	2,207 43	732 16	975 87	479 29	501 08	20 23	936 58	360 38	3,019 58	2,982 26
Chippewa		479 54	491 31	387 72	2,165 74	90 00	818 94	939 39	119 15									
Clare	951 66	2,910 10	1,887 95	191 70	2,677 55	2,092 69	1,999 34	1,787 65	1,259 10	946 90	322 30	189 89	619 87	682 30	2,167 91	1,701 29	6,119 11	9,121 03
Clinton	4,335 97	8,070 71	23,127 05	9,865 58	11,373 79	10,822 58	15,533 54	33,395 95	37,289 32	53,188 37	84,889 45	55,740 37	42,294 86	26,316 81	27,228 06	30,628 52	73,268 49	52,030 95
Eaton	7,046 00	4,212 14	11,396 43	21,863 86	13,972 61	50,768 10	43,762 77	106,088 09	92,489 33	48,481 14	38,961 33	49,844 89	66,826 51	27,717 13	18,655 18	34,647 71	46,528 78	66,132 83
Emmet							21 00	50 00	181 54	517 80	38 70	460 95	15 58	5 28	24	68		
Genesee	8,194 91	20,436 00	17,248 24	18,504 89	18,965 40	19,316 83	20,578 83	24,211 51	44,197 00	40,540 33	27,184 78	13,460 82	12,347 20	23,306 46	22,372 13	42,205 05	30,665 22	39,184 33
Gladwin	281 15	2,155 83	687 40	1,262 30	2,409 43	2,893 41	5,864 79	3,266 42	11,207 75	12,176 17	9,405 24	7,592 09	5,021 65	2,189 78	12,546 04	17,357 28	22,518 81	25,651 56
Grand Traverse																	43 00	624 18
Gratiot	25,153 69	24,313 59	51,450 79	59,307 75	48,899 69	53,797 53	134,255 14	150,066 74	70,769 59	50,078 64	47,985 75	35,248 37	51,927 27	56,937 11	35,470 79	38,513 25	78,422 89	84,726 44
Hillsdale	1,712 94	2,953 78	13,314 49	7,083 81	2,330 03	9,638 96	4,898 69	14,676 10	24,663 10	54,330 84	30,177 08	70,905 07	32,694 51	16,741 50	18,907 50	22,237 86	38,852 53	16,097 59
Huron	21,685 54	18,518 26	21,649 79	15,003 94	23,637 43	15,787 50	34,642 20	47,685 86	48,159 02	57,470 61	40,757 94	31,565 54	48,161 79	20,428 37	43,203 52	45,699 14	85,798 13	65,376 12
Ingham	13,131 51	21,347 93	10,361 87	10,019 41	9,854 49	13,976 51	13,699 57	20,236 31	20,457 04	22,427 85	31,195 49	46,712 18	38,111 31	33,965 04	19,790 42	73,130 14	55,658 88	45,828 61
Ionia	3,906 84	1,487 69	11,217 61	6,410 35	5,818 46	21,237 09	36,643 52	33,993 27	31,297 68	14,245 87	15,264 63	5,805 53	11,566 64	11,398 25	16,946 02	4,016 01	13,840 16	8,353 29
Iosco	10 22								271 60		977 11	1,500 62	2,833 95	2,462 61	2,472 79	1,177 63	3,483 98	3,232 74
Isabella	8,302 82	10,162 31	11,341 06	18,424 73	19,665 33	27,677 49	31,991 12	66,129 76	48,674 10	23,216 46	32,459 53	28,368 64	9,580 77	15,131 98	27,528 19	21,590 05	68,985 03	58,915 52
Jackson	1,530 20	3,746 61	2,691 40	3,024 40	166 22	914 93	8,675 87	5,462 13	8,622 50	6,498 76	4,871 06	4,267 63	4,196 82	644 53	1,553 36	127 00	2,836 53	4,427 72
Kalamazoo	4,033 00	2,527 74	3,532 33	3,844 00	1,705 52	7,397 47	2,267 49	575 44	87 05	10,311 28	15,993 65	5,471 07	8,556 23	9,122 00	5,295 95	2,651 36	11,620 29	20,420 28
Kent	1,580 38	3,768 13	5,580 42	12,690 09	8,023 04	11,832 06	13,317 61	10,245 89	7,819 25	7,092 62	3,763 89	7,317 76	8,165 87	3,222 62	1,395 74	5,723 03	7,907 45	13,452 85
Lake						641 00		730 00										
Lapeer	3,748 68	3,955 62	5,248 12	6,816 93	8,195 19	13,195 40	18,482 48	17,716 54	22,489 32	46,142 79	47,910 03	46,320 55	27,106 10	30,721 74	42,753 92	39,431 72	35,511 62	40,261 34
Lenawee	11,232 27	11,036 82	12,150 00	14,557 37	11,800 71	11,109 69	8,693 51	7,136 54	29,276 48	26,864 83	33,929 25	81,686 53	53,879 90	39,597 30	30,358 22	61,612 07	73,943 06	55,868 07
Livingston	8,583 73	31,449 94	18,085 98	8,831 17	4,261 08	15,963 42	15,963 99	17,717 70	21,987 99	30,374 77	39,759 02	39,152 50	32,233 07	28,875 27	58,494 98	16,109 30	17,916 78	17,106 06
Mackinac																	285 81	
Macomb	3,829 43	6,696 96	3,725 61	7,180 06	12,867 50	12,801 41	14,594 13	14,717 41	13,185 98	17,253 97	12,784 34	31,516 77	14,267 85	17,330 85	16,960 06	9,321 71	11,044 92	13,402 77
Manistee			716 63	52 50	52 25	417 30	813 41	644 23	1,397 10	3,752 02	7,041 87	2,768 79	1,365 85	535 03	152 72	268 01	694 55	1,226 28
Mason		333 60	1,139 04	5,512 24	2,476 56	3,508 70	3,987 56	100 75	7,294 77	2,891 46	6,033 07	6,343 33	2,959 79	6,094 75	4,984 21	2,310 76	8,772 62	6,362 11
Mecosta					288 00	443 79	235 40	1,118 59	350 61	3,972 67	5,480 38	1,746 55	7,012 11	1,275 74	3,314 61	860 31	1,474 97	1,663 08
Menominee																141 83	974 35	1,056 00
Midland	5,014 76	9,760 94	8,403 91	13,196 32	11,420 29	7,478 75	33,260 88	55,385 24	32,366 53	51,591 00	63,167 10	23,819 77	28,039 46	26,133 36	34,661 16	24,774 57	100,551 19	99,817 23
Missaukee													328 04			2,334 44	6,246 30	10,701 30
Monroe	10,162 14	9,581 67	14,899 75	15,878 54	34,991 64	12,001 75	24,946 53	19,504 80	30,743 44	33,527 48	29,548 48	22,018 17	10,660 53	2,626 08	10,872 09	20,401 88	32,533 93	17,275 86
Montcalm	936 89	4,008 73	6,151 80	2,298 75	7,110 50	18,216 88	18,962 33	17,628 15	36,680 53	15,430 57	8,578 94	1,560 40	2,476 76	835 39	131 53	4,942 13	13,725 76	39,180 58
Muskegon	4,118 08	2,651 93	2,137 45	2,252 93	1,711 98	2,165 59	7,184 21	3,828 75	5,189 55	20,040 68	8,932 93	10,206 36	5,030 42	1,476 74	1,177 10	2,944 94	510 20	784 21
Newaygo	1,841 06	3,125 06	2,301 10	3,030 25	6,545 57	6,078 34	9,548 30	6,890 97	7,250 43	9,112 17	3,348 80	5,711 83	5,908 73	3,621 01	2,894 24	6,194 39	25,066 11	16,356 32
*Oakland	5,257 42	4,791 20	2,065 14	884 00	5,271 94	7,785 29	*3,240 89	*3,240 89	*3,240 89	1,772 03	4,242 35	6,007 09	6,446 26	874 62	3,508 62	13,592 28	9,283 18	19,323 54
Oceana			334 75	702 37	1,268 49	2,551 80	2,476 66	2,606 45	155 65	1,854 53	2,231 05	1,009 99	2,439 56	4,413 36	3,369 80	6,716 75	2,941 70	1,619 21
Ontonagon																		
Osceola								2,840 75	187 94	2,679 87	15 00	1,376 89	2,560 23	453 16	928 66	3,930 56	15,022 15	17,591 10
Ottawa	3,243 52	2,975 53	2,824 16	4,775 58	4,201 18	4,570 77	7,233 03	6,893 07	7,640 39	17,797 15	17,192 41	13,397 48	19,295 33	15,870 56	12,967 89	11,836 08	8,741 80	12,160 99
Presque Isle												1,103 77	731 20					
Roscommon											2,020 68	62 13	108 98	40 00				
Saginaw	4,635 36	11,390 92	27,015 35	40,724 77	48,286 65	38,963 00	82,135 14	80,593 51	65,509 54	58,291 57	59,585 20	54,275 44	17,003 55	26,981 95	46,701 41	30,112 25	38,772 86	43,151 72
Sanilac	33,035 65	24,180 18	40,860 11	50,053 50	45,838 56	44,116 02	61,559 59	67,299 52	66,442 18	57,805 90	52,222 49	57,887 57	80,022 73	63,624 38	63,791 36	64,853 13	76,152 75	57,567 49
Shiawassee	19,283 79	20,364 54	30,192 70	13,935 30	12,484 46	16,780 08	41,428 63	89,860 29	80,123 24	45,447 25	21,576 99	33,225 32	25,844 74	18,538 63	27,759 71	29,551 07	33,723 09	29,653 95
St. Clair	6,517 18	5,614 19	8,473 00	13,217 85	9,658 29	27,839 06	23,040 77	32,982 01	29,782 72	27,327 26	19,294 89	9,882 56	10,979 19	6,704 58	3,011 98	11,868 41	17,261 17	15,888 89
St. Joseph	3,689 25	2,314 52	3,559 17	6,237 92	4,500 26	4,177 58	8,628 24	2,015 13	562 89	3,428 16	2,475 51	1,228 10	6,689 73	4,473 14	2,882 30	2,782 83	16,093 45	9,916 45
Tuscola	8,576 94	18,447 05	25,452 07	25,871 06	27,165 74	20,759 76	37,920 30	55,672 82	35,960 97	38,906 53	64,482 80	37,569 26	76,401 76	59,678 87	52,353 49	58,422 20	87,177 44	78,736 85
Van Buren	2,566 20	7,779 20	8,605 65	9,366 69	9,714 93	11,639 16	18,394 62	19,430 19	15,713 95	17,709 83	16,768 01	11,675 38	7,297 84	9,185 61	7,079 59	7,452 85	17,518 14	14,040 62
Washtenaw	1,742 30	1,742 29	6,518 36	1,704 15	4,506 44	5,575 69	16,730 33	7,777 58	21,001 42	16,003 65	40,484 45	21,989 57	40,249 08	12,859 97	1,199 48	413 15	14,546 13	7,669 03
Wayne	13,439 08	930 27	3,955 26	3,315 96	21,821 03	37,664 47	31,743 56	23,745 39	23,716 30	31,630 25	26,606 23	15,491 18	13,601 34	37,099 74	17,046 13	21,765 18	18,076 77	8,420 26
Wexford	85 26	720 54	631 00	467 00	301 85	1,192 14	3,247 00	48 00	5 00	150 00	242 62	183 29	424 27	2,037 25	945 12	584 11	4,996 48	479 16
Totals	$285,554 89	$353,843 07	$477,861 61	$504,195 90	$546,618 74	$666,507 77	$1,009,972 66	$1,263,252 34	$1,178,138 04	$1,127,745 51	$1,139,665 69	$1,058,290 00	$947,431 28	$747,514 28	$772,308 68	$900,359 99	$1,420,392 01	$1,307,407 20	$1

*Unable to find reports for years 1904, 1905, 1906. This period estimated.
No expenditures in following 20 counties:—Alcona, Alger, Antrim, Baraga, Crawford, Delta, Dickinson, Gogebic, Houghton, Iron, Kalkaska, Keweenaw, Leelanau, Luce, Marquette, Montmorency, Ogemaw, Oscoda, Otsego, Schoolcraft.

TABLE NO. 6—*Data for Michigan Drains for 5 Year Period 1913-1917*

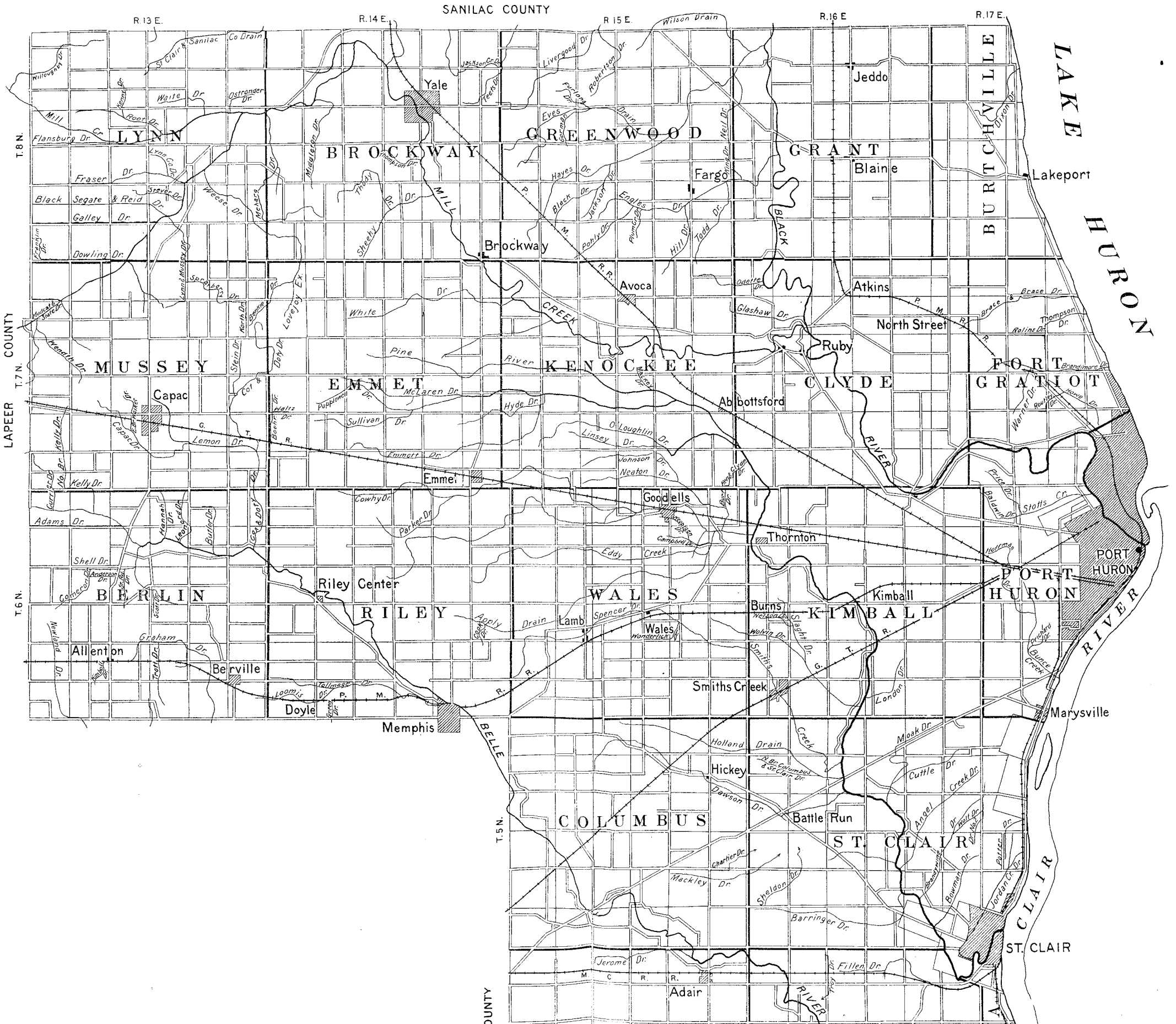
al.	Average length miles.	Average depth feet.	Average cost per mile.	Average cost per drain.	Average cost per acre.	Area assessed acres.	Total cost of drains	Cost of construction.		Cost of bridges and culverts.		Cost of survey.		Cost of printing.		Cost of serving notices.		Probate fees and special Commissioners.		Damages.		Recording and Abstracts.		Miscellaneous.		Contingent.	
								Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.
1.2	1.2	2.5	$1,026	$1,272	$2 89	440	$1,271 82	$109,620	86.20			$149,37	11.74	$23 10	1.81									$3 15	0.25		
9.7	1.5	4.8	1,084	1,629	1 30	108,741	151,485 20	126,950 17	83.80	9,385 30	6.20	2,041 96	1.35	2,197 78	1.45	88 05	0.06	$369 89	0.24	$1,143 86	0.76	$1,990 52	1.31	$135 00	0.09	$7,182 67	4.74
9.7	2.9	4.5	1,940	5,632	1 77	67,900	135,163 86	101,500 96	75.14	22,186 73	16.38	4,861 83	3.59	1,294 60	0.96			69 94	0.05	650 00	0.48			55 73	0.04	4,544 07	3.36
1.6	2.0	4.3	1,469	3,782	2 50	39,250	98,335 64	76,372 01	77.67	1,951 84	1.98	1,118 69	1.14	1,749 69	1.78	1,181 49	1.20	1,448 18	1.47	4,878 30	4.96	4,609 99	4.69	348 15	0.35	4.677 30	4.76
5.6	2.7	4.9	986	2,535	1 56	105,796	200,294 36	157,709 76	78.74	16,884 53	8.43	4,926 61	2.46	8,246 44	4.12	13 11	0.01	778 58	0.39	511 62	0.26	1,028 26	0.51	801 43	0.40	9,394 02	4.68
1.5	1.5	3.0	1,182	1,717	1 37	1,252	1,716 88	1,500 00	87.37									125 76	7.32							91 12	5.30
4.6	.9	4.9	1,344	1,139	2 20	43,132	100,235 79	79,964 42	79.77	9,181 73	9.16	1,576 03	1 57	1,392 29	1.39			560 50	0.56	1,622 92	1.62	1,311 41	1.31	380 71	0.38	4,245 78	4.24
7.2	1.8	4.4	1,315	2,430	2 91	57,576	167,680 96	138,707 89	82.59	9,646 42	5.74	6,408 92	3.89	2,401 20	1.43	515 82	0.31	1,078 29	0.76	1,957 70	1.17	247 89	0.11	28 20	0.02	6,688 63	3.98
5.3	2.7	4.1	1,318	3.921	1 17	46,153	66,662 97	47,554 61	71.34	11,893 41	17.84	2,720 17	4.08	1,128 63	1 69	77 75	0.12	780 72	1.17	944 60	1.42	441 75	0.66	926 76	1.39	194 57	0.29
8.4	2.8	5.4	5,091	2,025	5 51	22,972	120,252 03	51,888 70	43.15	39,684 97	33.00	2,688 55	2.24	871 07	0.72			2,135 64	1.78	8,515 60	7.08	822 50	0.68	9,242 71	7.69	4,402 29	3.66
0.8	1.5	3.5	665	3,057	1 04	6,300	7,150 32	6,343 56	88.66	69 00	0.96	358 12	5.01	45 77	0.64											333 87	4.73
1.4	2.0	4.0	1,433	2,818	2 88	15,633	45,095 18	34,362 82	76.18	6,527 92	14.50	1,208 08	2.68	765 64	1.69			50 81	0.11					36 10	0.08	2,143 81	4.76
0.2	1.5	4.9	2,764	4,327	3 14	116,965	367,824 01	243,419 80	66.18	40,995 10	11.14	18,913 77	5.14	5,622 22	1.53	3,604 58	0.98	1,043 36	0.29	21,160 00	5.75	9,339 38	2.54	5,965 58	1.62	17,760 22	4.83
0.7	1.5	4.3	1,968	3,027	1 48	89,043	296,636 75	239,876 34	80.87	27,712 67	9.35	5,212 84	1.76	2,983 62	1.00	798 17	0.27	1,034 49	0.35	1,223 00	0.40	3,671 57	1.24	191 74	0.06	13,932 31	4.70
0.7	2.5	4.8	2,049	5,058	3 03	89,436	288,309 79	215,420 85	74.72	35,129 96	12.18	12,325 07	4.27	5,951 16	2.06	510 96	0.18	507 35	0.18	277 00	0.10	4,396 81	1.53			13,790 63	4.78
8.1	2.8	4.5	1,882	5,305	3 34	77,806	259,958 44	186,697 62	71.81	51,462 34	19.79	5,121 53	1.97	2,548 78	0.98	46 13	0.02	203 03	0.08			1,409 28	0.54	257 47	0.10	12,230 26	4.71
6.0	1.2	5.9	485	579	1 45	1,995	2,893 88	1,758 48	60.77	94 00	3.25	544 03	18.80	97 64	3 37	1 78	0.06	300 00	10.36	31 17	1.08			30 00	1.04	36.78	1.27
7.0	2.0	5.4	1,544	3,049	2 39	135,062	350,635 16	259,197 60	73.92	52,914 17	15.09	6,863 64	1.96	4,688 10	1.33	2,063 77	0.59	1,500 45	0.43	779 30	0.22	4,550 29	1.30	1,297 88	0.37	16,779 96	4.79
4.3	1.7	4.6	1,312	2,259	3 40	25,936	110,670 37	95,772 71	86.53	347 10	0.31	5,768 19	5.21	1,987 32	1.80			284 60	0.26	25.00	0.02	844 97	0.77	344 57	0.31	5,295 91	4.79
3.6	2.6	4.8	2,207	5,679	2 22	208,357	471,392 48	300,957 03	63.85	137,886 32	29.25	6,569 58	1.39	2,733 83	0.58	951 00	0.20	681 95	0.14	2,483 55	0.53	1,688 11	0.36	493 53	0.10	16,947 58	3.60
3.4	1.6	5.3	2,354	3,884	4 40	38,671	384,532 18	293,146 99	76.23	32,389 09	8.42	14,970 33	3.89	5,066 53	1.32	1,815 98	0.47	783 56	0.21	8,748 67	2.27	7,782 21	2.03	1,635 11	0.43	18,193 71	4.73
2.5	2.0	4.7	840	1,713	2 02	22,855	53,111 66	43,805 12	82.48	2,144 79	4.04	1,054 34	1.98	728 88	1.37	381 48	0.72	346 00	0.65	840 00	1.58	911 23	1.72	424 69	0.80	2,475 13	4.66
5.2	2.0	4.0	1,572	3,181	0 99	25,786	25,451 17	19,377 50	76.14	2,714 80	10.67	1,668 62	6.56	401 60	1.58			47 47	0.18					29 22	0.11	1,211 96	4.76
3.6	2.0	4.5	1,559	3,094	3 86	99,874	402,168 34	352,116 23	87.55	13,752 20	3.42	9,922 51	2.47	6,175 41	1.54	41 92	0.01	369 81	0.09	258 23	0.06	470 22	0.12			19,061 81	4.74
0.4	1.6	4.8	1,395	2,238	1 86	12,375	42,530 05	35,383 25	83.20	1,260 00	2.96	967 80	2.27	561 16	1.32	23 50	0.06	709 69	1.67	1,300 00	3.05	169 90	0.40	147 50	0.35	2,007 25	4.72
3.8	2.0	4.1	1,200	2,526	1 61	31,840	60,630 91	41,331 42	68.17	10,361 23	17.09	2,841 23	4.68	1,156 28	1.91	48 60	0.08			1,813 31	2.99	350 25	0.58	489 87	0.81	2,238 72	3.69
3.6	1.5	4.2	785	1,217	0 85	77,817	65,700 13	53,655 03	81.67	1,979 66	3.01	2,758 80	4.20	1,328 76	2.02	8 52	0.01	194 25	0.30	806 50	1.23	1,659 00	2.52	220 58	0.34	3,089 03	4.70
5.0	2.5	5.0	1,152	2,929	1 99	72,341	190,409 54	138,750 93	72.87	29,522 75	15.51	3,154 62	1.66	1,731 25	0.91	55 96	0.02	874 87	0.46	844 85	0.44	106 15	0.06	5,602 74	2.94	9,765 42	5.13
0.5	1.6	4.7	1,430	2,364	3 29	43,123	186,791 52	159,087 91	85.17	9,900 00	5.29	2,164 21	1.16	2,404 81	1.31	21 00	0.01	246 64	0.13	4,177 30	2.24	23 50	0.01	24 40	0.01	8,741 75	4.67
3.0	2.1	5.3	1,982	4,132	4 02	26,679	144,604 74	115,228 88	79.69	15,780 48	10.91	2,065 51	1.43	1,745 05	1.21	28 75	0.02	195 05	0.13	75 00	0.05	300 00	0.21	2,144 80	1.48	7,041 22	4.87
7.4	1.8	4.1	947	1,727	1 72	70,461	120,893 45	87,278 22	72 19	18,227 25	15.08	6,022 22	4.98	1,784 79	1.48			156 00	0.13	1,889 77	1.56			122 21	29.95		
5.8	1.8	3.2	664	1,315	2 64	15,325	40,751 02	34,989 46	85.86	1,012 50	2.49	1,763.29	4.32	810 79	1.99			151 75	0.38					144 65	0.12	5,390 55	4.46
0.5	1.7	4.3	1,271	2,170	2 93	8,719	26,045 14	19,398 48	74.49	4,112 74	15.79	759 51	2.91	368 41	1.41											2,023 23	4.96
							2,172 18	2,172 18														90 51	0.35	5 03	0.02	1,310 46	5.03
0.7	3.0	5.1	1,523	4,636	3 25	153,000	519,214 37	443,595 52	85.44	23,626 17	4.55	17,550 72	3.38	5,054 55	0.97	1,139 90	0.22	1,815 96	0.35	828 50	0.16	4,027 59	0.78	392 77	0.07	21,182 69	4.08
0.6	2.7	3.4	833	2,252	1 60	21,100	33,786 42	24,961 58	73.88	5,114 50	15.14	1,264 48	3.74	450.63	1.33			77 12	0.23	202 00	0.60					1,716 11	5.08
2.4	2.2	4.4	1,113	1,717	1 04	73,970	87,551 53	65,243 81	74.52	4,843 50	5.53	1,718 98	1.96	1,978 93	2.26			457 76	0.52	7,174 70	8.20	923 95	1.06	555 40	0.63	4,654 50	5.32
.8	2.8	4.8	1,262	3,565	2 51	50,650	128,332 97	91,694 79	71.45	22,065 98	17.20	3,232 41	2.52	2,223 14	1.73	180 79	0.14	769 58	0.60	622,08	0.48	853 57	0.67	580 26	0.45	6,110 37	4.76
.4	2.9	4.5	468	1,336	0 93	35,408	33,396 29	28,443 52	85.17			1,358 64	4.07	473 60	1.42			5 00	0.01	10 00	0.03					3,105 53	9.30
.4	1.8	4.4	929	1,681	1 46	51,690	75,627 95	58,779 15	77.72	8,936 38	11.82	2,204 37	2.92	1,013 33	1.34	13 00	0.02	548 17	0.72	68 90	0.09	113 50	0.15	313 12	0.41	3,638 03	4.81
.1	1.3	4.9	1,374	1,866	1 21	32,330	83,986 73	73,818 58	87.89	2,382 51	2.84	1,880 17	2.24	1,457 37	1.73			15 00	0.02	72 50	0.09	158 90	0.19	212 65	0.25	3,989 05	4.75
.8	1.1	4.1	1,512	1,641	1 03	47,380	49,244 82	36,778 30	74.68	8,041 36	16.33	589 43	1.20	791.16	1.61			192 89	0.39	496 10	1.01			16 78	0.03	2,338 80	4.75
				578			578 22	578 22																			
.8	1.9	3.6	980	1,891	1 19	26,919	37,820 18	28,023 12	74.10	5,843 71	15.45	896 81	2.37	699 40	1.85			25 84	0.07	45 00	0.12	65 80	0.17			2,220 50	5.87
.7	2.1	4.0	548	1,134	0 73	105,620	77,141 98	64,934 76	84.19	3,454 00	4.48	2,090 09	2.71	1,535 01	1.99	150 28	0.19	148 24	0.19	503 45	0.65	642 08	0.83	194 88	0.25	3,489 19	4.52
.0	1.5	2.7	1,140	1,765	3 01	1,400	3,430 74	995 00	29.00			594 91	17.34											1,840 83	53.66		
.6	2.1	4.8	1,647	3,507	1 33	235,893	319,093 87	245,626 93	76.98	50,236 65	15.74	6,596 25	2.07	3,794 66	1.19	198 44	0.06	655 95	0.20	928 64	0.29	249 90	0.08			10,806 45	3.39
.8	2.6	4.1	1,207	3,150	2 18	111,524	252,032 77	174,001 16	69.03	53,070 12	21.05	5,520 65	2.19	1,427 63	0.57	495 69	0.20	263 55	0.11	782 50	0.31	1,975 50	0.78	3,945 49	1.57	10,550 48	4.19
.5	1.6	4.8	2,088	3,446	2 00	117,039	251,584 94	166,925 01	66.35	51,655 74	20.53	5,961 10	2.37	3,957 73	1.57	223 94	0.09	1,465 70	0.58	446 50	0.18	6,310 15	2.51	3,341 21	1.33	11,297 86	4.49
.3	2.3	4.0	957	2,184	1 71	85,482	150,676 82	101,312 99	67.24	33,523 16	22.25	4,191 88	2.78	1,274.18	0.84	176 27	0.12	574 90	0.38	436 00	0.29	71 96	0.05	1,972 27	1.31	7,143 21	4.74
.8	2.5	7.4	3,155	7,973	4 84	18,057	87,701 41	57,579 71	65.65	21,420 86	24.42	1,054 31	1.20	278 48	0.32	9 00	0.01	130 57	0.15	279 00	0.32	26 75	0.03	4,567 48	5.21	2,355 25	2.69
.8	3.7	4.8	2,417	8,808	4 25	133,358	567,481 82	330,072 43	58.17	174,562 88	30.76	12,950 33	2.28	3,042 52	0.54			799 25	0.14	17,614 15	3.10	1,597 46	0.28	2,441 80	0.43	24,400 50	4.30
.3	2.0	4.5	1,654	3,254	4 34	14,990	65,084 23	40,481 09	62.19	12,728 00	19.57	1,831 30	2.81	1,016 35	1.56			1,032 75	1.59	3,695 00	5.68	1,165 00	1.79	88 00	0.13	3,046 74	4.68
.1	1.6	4.1	1,080	1,748	1 74	48,145	90,909 98	74,624 02	82.09	5,486 11	6.03	3,051 91	3.37	1,427 97	1.57	30 00	0.03					1,903 50	2.09	40 00	0.04	4,346 47	4.78
.8	2.7	1.9	909	921	1 38	41,382	57,117 82	45,368 44	79.43			5,803 76	10.16	2,089 50	3.66			172 52	0.30	19 00	0.03	56 75	0.10	845 47	1.48	2,762 38	4.84
.6	1.7		814	326	3 67	3,552	1,302 94	1,016 74	78.04			25 00	1.92	15 75	1.21			76 00	5.83	116 00	8.90					53 45	4.10
	2.0	4.4	1,496	3,057	2.48				74.31		13.87		2.76		1.32		0.19		0.33		1.27		0.86		0.66		4.43
.6						$3,214,500	$7,962,998 98	$5,917,610 50		$1,104,102 63		$220,038 88		$105,098 89		$14,895 63		$26,255 38		$101,297 27		$68,358 06		$52,912 16		$352,429 58	

ga, Charlevoix, Chippewa, Crawford, Delta, Dickinson, Emmet, Gogebic, Houghton, Iron, Kalkaska, Keweenaw, Lake, Leelanau, Luce, Manistee, Marquette, Montmorency, Ogemaw, Osc oda, Otsego, Presque Isle, Schoolcraft.

TABLE NO. 6—*Data for Michigan Drains for 5 Year Period 1913-1917*

County.	Number of drains.			Length of drains. (Miles).			Average length miles.	Average depth feet.	Average cost per mile.	Average cost per drain.	Average cost per acre.	Area assessed acres.	Total cost of drains	Cost of construction.		Cost of bridges and culverts.		Cost of survey.		Cost of printing.		Cost of serving notices.		Probate fees and special Commissioners.	
	New.	Reconstructed.	Total.	Open.	Tile.	Total.								Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.
*Alcona	1		1	1.2		1.2	1.2	2.5	$1,026	$1,272	$2 89	440	$1,271 82	$109,620	86.20			$149,37	11.74	$23 10	1.81				
Allegan	28	65	93	131.4	8.3	139.7	1.5	4.8	1,084	1,629	1 30	108,741	151,485 20	126,950 17	83.80	9,385 30	6.20	2,041 96	1.35	2,197 78	1.45	88 05	0.06	$369 89	0.24
Arenac	10	14	24		69.7	69.7	2.9	4.5	1,940	5,632	1 77	67,900	135,163 86	101,500 96	75.14	22,186 73	16.38	4,861 83	3.59	1,294 60	0.96			69 94	0.05
Barry	17	9	26	30.6	21.0	51.6	2.0	4.3	1,469	3,782	2 50	39,250	98,335 64	76,372 01	77.67	1,951 84	1.98	1,118 69	1.14	1,749 69	1.78	1,181 49	1.20	1,448 18	1.47
Bay	34	45	79	215.3	.3	215.6	2.7	4.9	986	2,535	1 56	105,796	200,294 36	157,709 76	78.74	16,884 53	8.43	4,926 61	2.46	8,246 44	4.12	13 11	0.01	778 58	0.39
Benzie	1		1	1.5		1.5	1.5	3.0	1,182	1,717	1 37	1,252	1,716 88	1,500 00	87.37									125 76	7.32
Berrien	36	52	88	41.7	32.9	74.6	.9	4.9	1,344	1,139	2 20	43,132	100,235 79	79,964 42	79.77	9,181 73	9.16	1,576 03	1 57	1,392 29	1.39			560 50	0.56
Branch	32	37	69	54.4	72.8	127.2	1.8	4.4	1,315	2,430	2 91	57,576	167,680 96	138,707 89	82.59	9,646 42	5.74	6,408 92	3.89	2,401 20	1.43	515 82	0.31	1,078 29	0.76
Calhoun	3	14	17	33.3	12.0	45.3	2.7	4.1	1,318	3,921	1 17	46,153	66,662 97	47,554 61	71.34	11,893 41	17.84	2,720 17	4.08	1,128 63	1 69	77 75	0.12	780 72	1.17
Cass	8	2	10	25.5	2.9	28.4	2.8	5.4	5,091	2,025	5 51	22,972	120,252 03	51,888 70	43.15	39,684 97	33.00	2,688 55	2.24	871 07	0.72			2,135 64	1.78
Cheboygan	2	5	7	10.8		10.8	1.5	3.5	665	3,057	1 04	6,300	7,150 32	6,343 56	88.66	69 00	0.96	358 12	5.01	45 77	0.64				
Clare	15	1	16	29.7	1.7	31.4	2.0	4.0	1,433	2,818	2 88	15,633	45,095 18	34,362 82	76.18	6,527 92	14.50	1,208 08	2.68	765 64	1.69			50 81	0.11
Clinton	51	34	85	88.9	41.3	130.2	1.5	4.9	2,764	4,327	3 14	116,965	367,824 01	243,419 80	66.18	40,995 10	11.14	18,913 77	5.14	5,622 22	1.53	3,604 58	0.98	1,043 36	0.29
Eaton	71	27	98	52.6	98.1	150.7	1.5	4.3	1,968	3,027	1 48	89,043	296,636 75	239,876 34	80.87	27,712 67	9.35	5,212 84	1.76	2,983 62	1.00	798 17	0.27	1,034 49	0.35
Genesee	40	17	57	86.1	54.6	140.7	2.5	4.8	2,049	5,058	3 03	89,436	288,309 79	215,420 85	74.72	35,129 96	12.18	12,325 07	4.27	5,951 16	2.06	510 96	0.18	507 35	0.18
Gladwin	33	16	49	138.1		138.1	2.8	4.5	1,882	5,305	3 34	77,806	259,958 44	186,697 62	71.81	51,462 34	19.79	5,121 53	1.97	2,548 78	0.98	46 13	0.02	203 03	0.08
Grand Traverse	5		5	5.9	.1	6.0	1.2	5.9	485	579	1 45	1,995	2,893 88	1,758 48	60.77	94 00	3.25	544 03	18.80	97 64	3 37	1 78	0.06	300 00	10.36
Gratiot	42	73	115	152.2	74.8	227.0	2.0	5.4	1,544	3,049	2 39	135,062	350,635 16	259,197 60	73.92	52,914 17	15.09	6,863 64	1.96	4,688 10	1.33	2,063 77	0.59	1,500 45	0.43
Hillsdale	25	24	49	34.4	49.9	84.3	1.7	4.6	1,312	2,259	3 40	25,936	110,670 37	95,772 71	86.53	347 10	0.31	5,768 19	5.21	1,987 32	1.80			284 60	0.26
Huron	38	45	83	212.1	1.5	213.6	2.6	4.8	2,207	5,679	2 22	208,357	471,392 48	300,957 03	63.85	137,886 32	29.25	6,569 58	1.39	2,733 83	0.58	951 00	0.20	681 95	0.14
Ingham	78	21	99	83.7	79.7	163.4	1.6	5.3	2,354	3,884	4 40	38,671	384,532 18	293,146 99	76.23	32,389 09	8.42	14,970 33	3.89	5,066 53	1.32	1,815 98	0.47	783 56	0.21
Ionia	14	17	31	34.1	28.4	62.5	2.0	4.7	840	1,713	2 02	22,855	53,111 66	43,805 12	82.48	2,144 79	4.04	1,054 34	1.98	728 88	1.37	381 48	0.72	346 00	0.65
Iosco	5	3	8	16.2		16.2	2.0	4.0	1,572	3,181	0 99	25,786	25,451 17	19,377 50	76.14	2,714 80	10.67	1,668 62	6.56	401 60	1.58			47 47	0.18
Isabella	96	34	130	91.0	167.6	258.6	2.0	4.5	1,559	3,094	3 86	99,874	402,168 34	352,116 23	87.55	13,752 20	3.42	9,922 51	2.47	6,175 41	1.54	41 92	0.01	369 81	0.09
Jackson	9	10	19	28.5	1.9	30.4	1.6	4.8	1,395	2,238	1 86	12,375	42,530 05	35,383 25	83.20	1,260 00	2.96	967 80	2.27	561 16	1.32	23 50	0.06	709 69	1.67
Kalamazoo	7	17	24	47.1	1.7	48.8	2.0	4.1	1,200	2,526	1 61	31,840	60,630 91	41,331 42	68.17	10,361 23	17.09	2,841 23	4.68	1,156 28	1.91	48 60	0.08		
Kent	25	29	54	79.1	4.5	83.6	1.5	4.2	785	1,217	0 85	77,817	65,700 13	53,655 03	81.67	1,979 66	3.01	2,758 80	4.20	1,328 76	2.02	8 52	0.01	194 25	0.30
Lapeer	33	32	65	157.0	8.0	165.0	2.5	5.0	1,152	2,929	1 99	72,341	190,409 54	138,750 93	72.87	29,522 75	15.51	3,154 62	1.66	1,731 25	0.91	55 96	0.02	874 87	0.46
Lenawee	66	13	79	66.5	64.0	130.5	1.6	4.7	1,430	2,364	3 29	43,123	186,791 52	159,087 91	85.17	9,900 00	5.29	2,164 21	1.16	2,404 81	1.31	21 00	0.01	246 64	0.13
Livingston	20	15	35	44.4	28.6	73.0	2.1	5.3	1,982	4,132	4 02	26,679	144,604 74	115,228 88	79.69	15,780 48	10.91	2,065 51	1.43	1,745 05	1.21	28 75	0.02	195 05	0.13
Mackinac	1		1							408			408 02					181 41	44.46	104 40	25.59				
Macomb	23	47	70	125.7	1.7	127.4	1.8	4.1	947	1,727	1 72	70,461	120,893 45	87,278 22	72 19	18,227 25	15.08	6,022 22	4.98	1,784 79	1.48			156 00	0.13
Mason	18	13	31	56.8		56.8	1.8	3.2	664	1,315	2 64	15,325	40,751 02	34,989 46	85.86	1,012 50	2.49	1,763.29	4.32	810 79	1.99			151 75	0.38
Mecosta		4	12	18.9	1.6	20.5	1.7	4.3	1,271	2,170	2 93	8,719	26,045 14	19,398 48	74.49	4,112 74	15.79	759 51	2.91	368 41	1.41				
Menominee													2,172 18	2,172 18											
Midland	59	53	112	298.9	41.8	340.7	3.0	5.1	1,523	4,636	3 25	153,000	519,214 37	443,595 52	85.44	23,626 17	4.55	17,550 72	3.38	5,054 55	0.97	1,139 90	0.22	1,815 96	0.35
Missaukee	14	1	15	40.3	.3	40.6	2.7	3.4	833	2,252	1 60	21,100	33,786 42	24,961 58	73.88	5,114 50	15.14	1,264 48	3.74	450.63	1.33			77 12	0.23
Monroe	19	32	51	109.5	2.9	112.4	2.2	4.4	1,113	1,717	1 04	73,970	87,551 53	65,243 81	74.52	4,843 50	5.53	1,718 98	1.96	1,978 93	2.26			457 76	0.52
Montcalm	16	20	36	92.1	9.7	101.8	2.8	4.8	1,262	3,565	2 51	50,650	128,332 97	91,694 79	71.45	22,065 98	17.20	3,232 41	2.52	2,223 14	1.73	180 79	0.14	769 58	0.60
Muskegon	9	16	25	71.1	.3	71.4	2.9	4.5	468	1,336	0 93	35,408	33,396 29	28,443 52	85.17			1,358 64	4.07	473 60	1.42			5 00	0.01
Newaygo	27	18	45	75.7	5.7	81.4	1.8	4.4	929	1,681	1 46	51,690	75,627 95	58,779 15	77.72	8,936 38	11.82	2,204 37	2.92	1,013 33	1.34	13 00	0.02	548 17	0.72
Oakland	26	19	45	50.5	10.6	61.1	1.3	4.9	1,374	1,866	1 21	32,330	83,986 73	73,818 58	87.89	2,382 51	2.84	1,880 17	2.24	1,457 37	1.73			15 00	0.02
Oceana	25	5	30	31.1	.7	31.8	1.1	4.1	1,512	1,641	1 03	47,380	49,244 82	36,778 30	74.68	8,041 36	16.33	589 43	1.20	791.16	1.61			192 89	0.39
Ontonagon	1		1							578			578 22	578 22											
Osceola	15	5	20	36.6	.2	36.8	1.9	3.6	980	1,891	1 19	26,919	37,820 18	28,023 12	74.10	5,843 71	15.45	896 81	2.37	699 40	1.85			25 84	0.07
Ottawa	22	46	68	140.0	.7	140.7	2.1	4.0	548	1,134	0 73	105,620	77,141 98	64,934 76	84.19	3,454 00	4.48	2,090 09	2.71	1,535 01	1.99	150 28	0.19	148 24	0.19
Roscommon	2		2	3.0		3.0	1.5	2.7	1,140	1,765	3 01	1,400	3,430 74	995 00	29.00			594 91	17.34						
Saginaw	50	41	91	191.2	2.4	193.6	2.1	4.8	1,647	3,507	1 33	235,893	319,093 87	245,626 93	76.98	50,236 65	15.74	6,596 25	2.07	3,794 66	1.19	198 44	0.06	655 95	0.20
Sanilac	49	31	80	208.2	.6	208.8	2.6	4.1	1,207	3,150	2 18	111,524	252,032 77	174,001 16	69.03	53,070 12	21.05	5,520 65	2.19	1,427 63	0.57	495 69	0.20	263 55	0.11
Shiawassee	38	35	73	93.0	27.5	120.5	1.6	4.8	2,088	3,446	2 00	117,039	251,584 94	166,925 01	66.35	51,655 74	20.53	5,961 10	2.37	3,957 73	1.57	223 94	0.09	1,465 70	0.58
St. Clair	42	27	69	157.3		157.3	2.3	4.0	957	2,184	1 71	85,482	150,676 82	101,312 99	67.24	33,523 16	22.25	4,191 88	2.78	1,274.18	0.84	176 27	0.12	574 90	0.38
St. Joseph	3	8	11	26.9	.9	27.8	2.5	7.4	3,155	7,973	4 84	18,057	87,701 41	57,579 71	65.65	21,420 86	24.42	1,054 31	1.20	278 48	0.32	9 00	0.01	130 57	0.15
Tuscola	36	27	63	233.2	1.6	234.8	3.7	4.8	2,417	8,808	4 25	133,358	567,481 82	330,072 43	58.17	174,562 88	30.76	12,950 33	2.28	3,042 52	0.54			799 25	0.14
Van Buren	10	10	20	37.5	1.8	39.3	2.0	4.5	1,654	3,254	4 34	14,990	65,084 23	40,481 09	62.19	12,728 00	19.57	1,831 30	2.81	1,016 35	1.56			1,032 75	1.59
Washtenaw	25	27	52	64.3	19.8	84.1	1.6	4.1	1,080	1,748	1 74	48,145	90,909 98	74,624 02	82.09	5,486 11	6.03	3,051 91	3.37	1,427 97	1.57	30 00	0.03		
Wayne	10	52	62	102.8	1.0	103.8	2.7	1.9	909	921	1 38	41,382	57,117 82	45,368 44	79.43			5,803 76	10.16	2,089 50	3.66			172 52	0.30
Wexford	2	2	4	6.6		6.6	1.7		814	326	3 67	3,552	1,302 94	1,016 74	78.04			25 00	1.92	15 75	1.21			76 00	5.83
Averages							2.0	4.4	1,496	3,057	2.48				74.31		13.87		2.76		1.32		0.19		0.33
Totals	1,395	1,210	2,605	4,264.5	1,058.1	5,322.6						$3,214,500	$7,962,998 98	$5,917,610 50		$1,104,102 63		$220,038 88		$105,098 89		$14,895 63		$26,255 38	

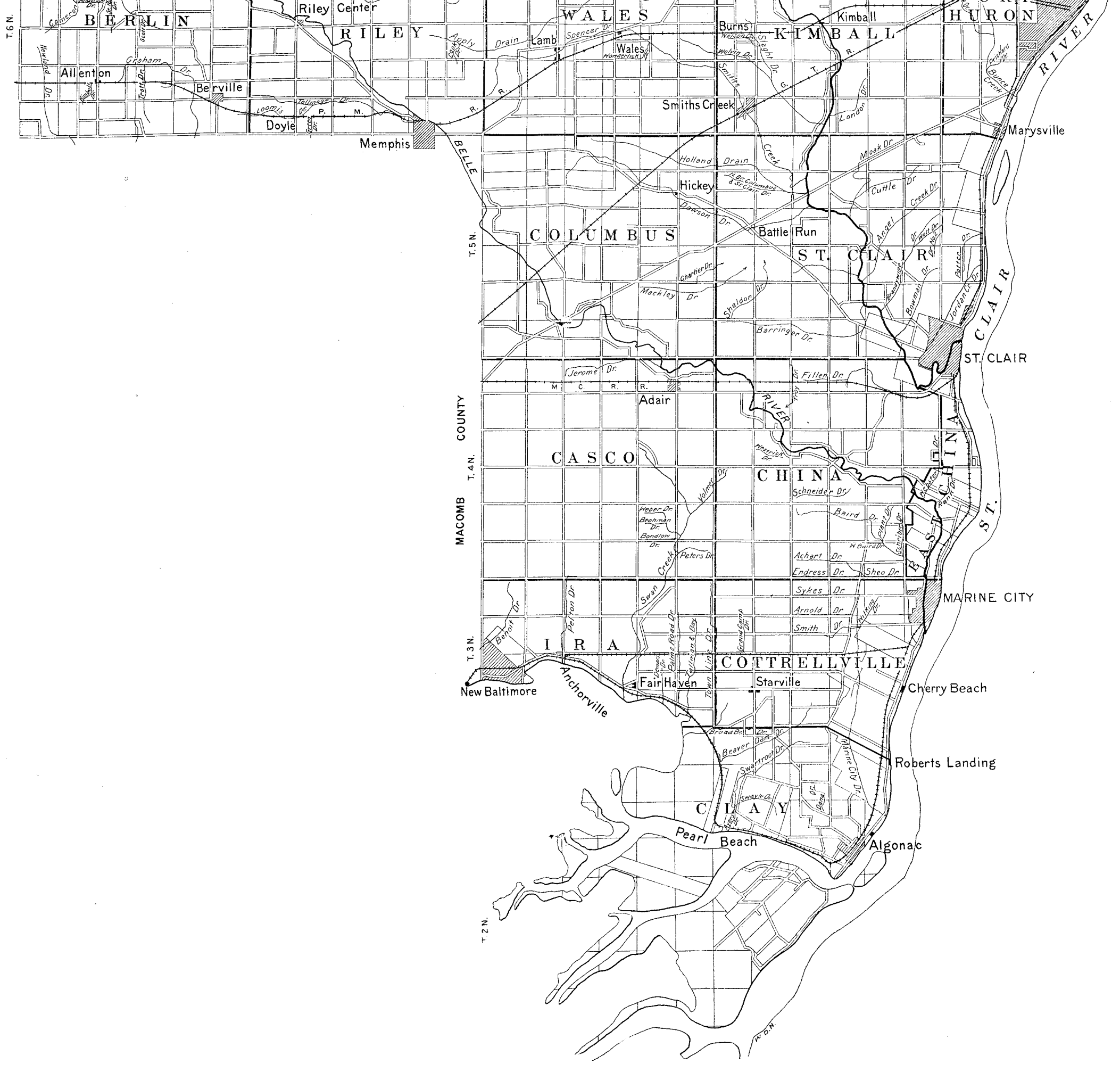
No expenditures in following 26 counties: Alger, Alpena, Antrim, Baraga, Charlevoix, Chippewa, Crawford, Delta, Dickinson, Emmet, Gogebic, Houghton, Iron, Kalkaska, Keweenaw, Lake, Leelanau, Luce, Manistee, Marquette, Montmorency, Ogemaw, Osc oda, Otsego, Presque Isle, Schoolcraft.
*Data relating to Alcona county for year 1918.


SANILAC COUNTY
R.13 E.
R.14 E.
R.15 E.
R.16 E.
R.17 E.
T.8 N.
T.7 N.
T.6 N.
T.5 N.
LAPEER COUNTY
ST. CLAIR COUNTY
LAKE HURON
LYNN
BROCKWAY
GREENWOOD
GRANT
BURTCHVILLE
MUSSEY
EMMET
KENOCKEE
CLYDE
FORT GRATIOT
BERLIN
RILEY
WALES
KIMBALL
PORT HURON
COLUMBUS
ST. CLAIR
Yale
Jeddo
Fargo
Blaine
Lakeport
Brockway
Avoca
Atkins
North Street
Ruby
Capac
Abbottsford
Emmett
Goodells
Thornton
Riley Center
Burns
Kimball
Lamb
Wales
Allenton
Berville
Smiths Creek
Doyle
Memphis
Marysville
Hickey
Battle Run
Adair
ST. CLAIR
Wilson Drain
St. Clair & Sanilac Co Drain
Mill Cr.
Black Creek
White River
Pine River
Belle River
Eddy Creek
Holland Drain
Flansburg Dr.
Dowling Dr.
Fraser Dr.
Black Segate & Reid Dr.
Galley Dr.
Lemon Dr.
Emmett Dr.
Sullivan Dr.
McLaren Dr.
Hyde Dr.
Linsey Dr.
Johnson Dr.
Neaton Dr.
Cowhy Dr.
Parker Dr.
Adams Dr.
Shell Dr.
Cameron Dr.
Graham Dr.
Apply Drain
Spencer Dr.
Loomis Dr.
Tallmage Dr.
Jerome Dr.
Fillen Dr.
Barringer Dr.
Mackley Dr.
Sheldon Dr.
Chartier Dr.
Dawson Dr.
Cuttle Dr.
Angel Dr.
Mioak Dr.
London Dr.
Smiths Creek
Glashaw Dr.
Brace Dr.
Thompson Dr.
Brandimore Dr.
Price Dr.
Stotts Cr.
Bunce Creek
Jordan Cr.
Porter Dr.
Rowman Dr.
Brandywine Dr.
Warner Dr.
Howe Dr.
Rouley Dr.
Dixon Dr.
Odette Dr.
Hill Dr.
Todd Dr.
Engles Dr.
Jackson Dr.
Hayes Dr.
Eves Drain
Liverpool Dr.
Roberson Dr.
Weese Dr.
Meseke Dr.
Middleton Dr.
Sheehy Dr.
Lyons & Mussey Dr.
Spraberry Dr.
Loveloy Ex.
Doty Dr.
Stein Dr.
Cor & Dot Dr.
Waltz Dr.
Popplewell Dr.
Capac Dr.
Kelly Dr.
Hanner Dr.
Leonard Dr.
Butler Dr.
Scott Dr.
Newland Dr.
Hamby Dr.
Trout Dr.
Franklin Dr.
Wentworth Dr.
Mudcat & State Dr.
Ostrander Dr.
Waite Dr.
Root Dr.
Willoughby Dr.
Thompson Dr.
Thood Dr.
Pohly Dr.
Plumer Dr.
Neil Dr.
Jackson Co. Dr.
Teets Dr.
Lynn Co. Dr.
Stever Dr.
Curtis Dr.
No. Br. Kelly Dr.
Anderson Dr.
Scott Dr.
Campbell Dr.
Holman Dr.
Wolvin Dr.
Slaght Dr.
Smiths Dr.
Wonderlich Dr.
Welsch Dr.
Pitt Dr.
Columbus & St. Clair Dr.
Wolf Dr.
Wolf Dr. No. 2
Fred Dr.
Pitt Dr.
Hunter Dr.
Boehm Dr.
Beenie Dr.
North Dr.
Dr.

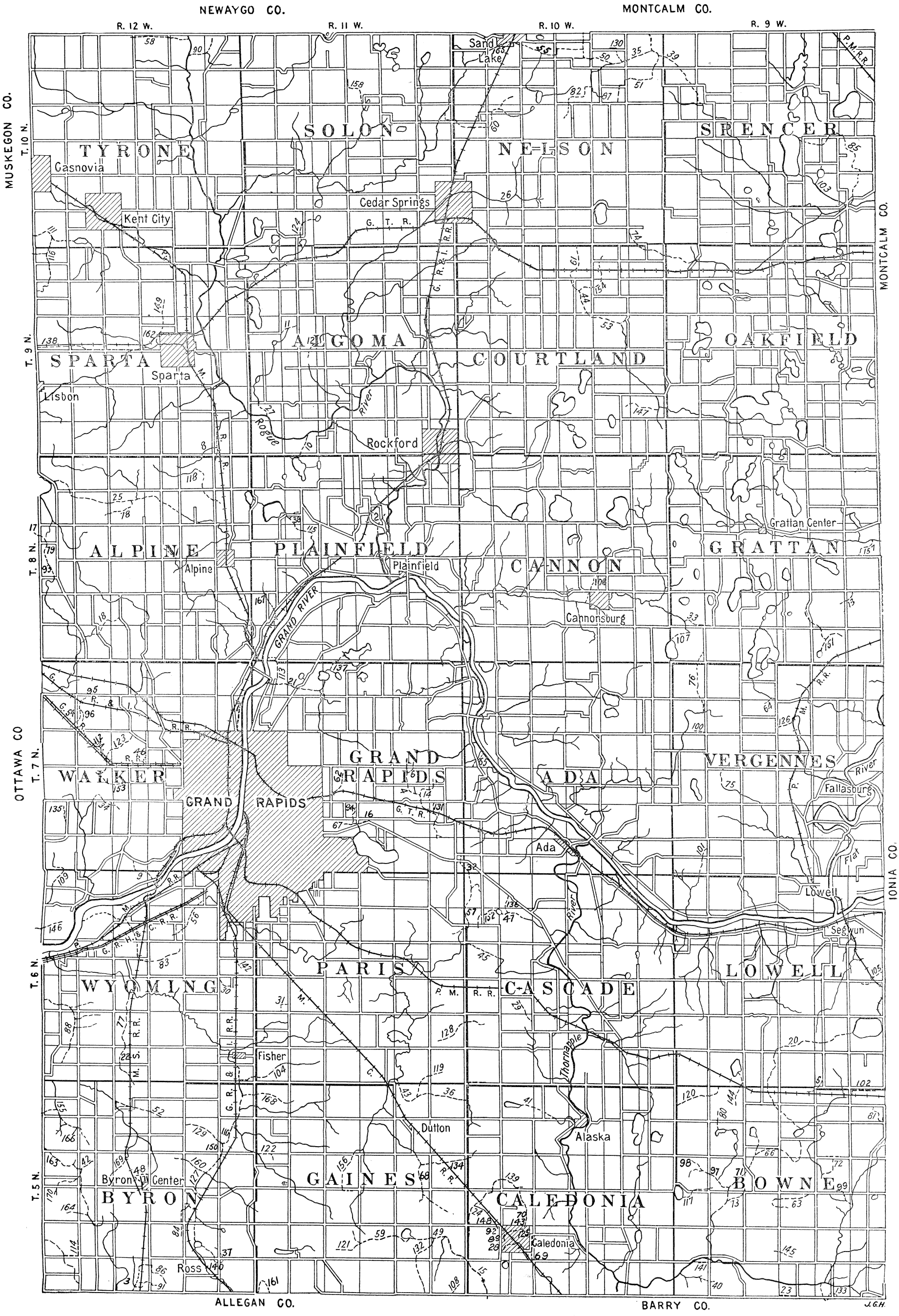
MAP OF ST. CLAIR COUNTY SHOWING 166 COUNTY DRAINS

ST. CLAIR COUNTY DRAINS

Name of Drain.	Township.	Name of Drain.	Township	Name of Drain.	Township.	Name of Drain.	Township.
Achart	China	Dawling	Lynn	Loomis	Riley	Sheehy	Brockway
Adams	Berlin	Eddy Creek	Wales	Lovejoy Extension	Emmett	Sheldon	St. Clair
Angel Creek	St. Clair	Emmett	Emmett	Lynn	Lynn	Sheo	China
Anderson	Berlin	Endress	China	Lynn and Mussey	Lynn and Mussey	Shell	Berlin
Apply	Riley and Wales	Engles	Greenwood	Mackey	Kenockee	Slaght	Kimball
Arnold	Cottreville	Eves	Greenwood	Marine City	Cottreville	Smith	Cottreville
Ayers	Cottreville	Fillen	China	Mackley	Columbus	Sparberry	Mussey
Baird	China	Flansburg	Lynn	McLaren	Emmett	Spencer	Wales
Baird, West	China	Franklin	Lynn	Meharg	Lynn and Brockway	State Road	Berlin
Baldwin	Port Huron	Fraser	Lynn	Middleton	Brockway	Stein	Mussey
Barringer	St. Clair	Furlong	Greenwood	Moak	St. Clair	Stever	Lynn
Beaver Dam	Cottreville	Galley	Lynn	Mudcat and State	Mussey	Stotts Creek	Port Huron
Benkie	Mussey and Emmett	Glashaw	Clyde	Neaton	Kenockee	Sullivan	Emmett
Benoit	Ira	Gorman	Greenwood	Neil	Greenwood	Swagle	Clay
Beohman	Casco	Graham	Berlin	Nelson	Kimball	Swartroot	Clay
Black	Greenwood	Grand Camp	Cottreville	Newland	Berlin	Sykes	Cottreville
Black, Segate and Reid	Lynn	Green	Riley	Number 2	St. Clair	Tallmadge	Riley
Boehr	Emmet	Hannah	Berlin	Odette	Clyde	Tollman and Bay	Ira
Bondlow	Casco	Hayes	Greenwood	O'Laughlin	Kenockee	Teets	Brockway
Bowman	St. Clair	Hill	Greenwood	Ostrander	Lynn	Thody	Brockway
Brace and Brace	Fort Gratiot	Hoffman	Port Huron	Palmer Road	Ira	Thompson	Fort Gratiot
Brandimore	Fort Gratiot	Holland	Columbus and St. Clair	Parker	Riley	Todd	Greenwood
Brandywine	St. Clair	Howe	Fort Gratiot	Pelton	Ira	Town Line	Ira
Broad Bridge	Cottreville	Hyde	Kenockee	Peters	Casco	Trott	Berlin
Bunce Creek	Port Huron	Jackson	Greenwood	Pine	Emmett	Troy	China
Butler	Berlin	Jackson Creek	Brockway	Plant	China	Volmer	Casco
Cameron	Berlin	Jerome	Casco	Plum Creek	Greenwood	Waite	Lynn
Campbell	Wales	Johnson	Kenockee	Pohly	Greenwood	Walker, E. Branch of	Mussey
Capac	Mussey	Jordan Creek	St. Clair	Popplewell	Emmett	Waltz	Emmett
Chartier	Columbus	Kelly	Mussey	Potter	St. Clair	Warner	Fort Gratio
Columbus and St. Clair, No. Br. of	Columbus and St. Clair	Kelly, No. Branch of	Mussey	Price	Fort Gratiot and Port Huron	Weber	Casco
Cook	Riley	Kenny	Lynn	Pritchard	Port Huron	Webster	China
Cot and Doty	Mussey and Emmett	Kenockee and Clyde	Kenockee and Clyde	Rank	China	Weese	Lynn
Cowhy	Riley	Keophfgen	Wales	Robertson	Greenwood	Wendth	Mussey
Cox and Doty	Berlin and Mussey	Kimball	Berlin	Rolins	Fort Gratiot	Westrick	China
Currie	Mussey and Berlin	King	Greenwood	Rontley	Fort Gratiot	White	Emmett
Cuttle	St. Clair	Korth	Mussey	Root	Lynn	Wilkins	Cottreville
Dana	Cottreville	Lemon	Mussey	St. Clair and Sanilac	Lynn	Wilson	Greenwood and Grant
Dawson	Columbus and St. Clair	Leonard	Berlin	Scheider	China	Willoughby	Lynn
Demars	Ira	Linsey	Kenockee	Schriber	China	Wolf	St. Clair
Dixon	Burtchville	Livergood	Greenwood	Scott	Berlin	Wolvin	Kimball
		London	Kimball			Wonderlick	Wales

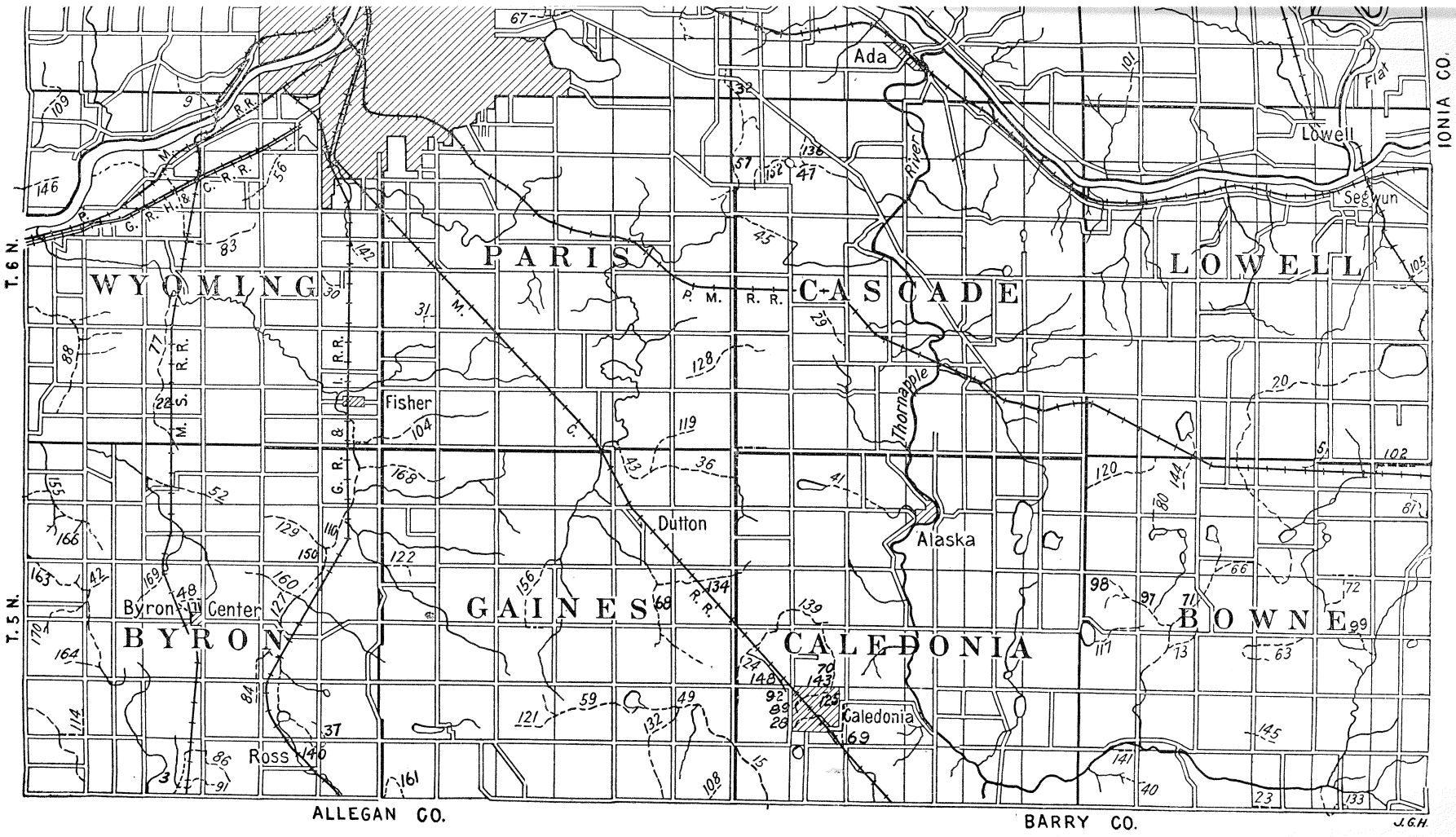


MAP OF ST. CLAIR COUNTY SHOWING 166 COUNTY DRAINS



MAP OF KENT COUNTY SHOWING 171 COUNTY DRAINS

KENT COUNTY DRAINS



MAP OF KENT COUNTY SHOWING 171 COUNTY DRAINS

KENT COUNTY DRAINS

Reference No.	Name of Drain.	Township.
35	Alder Creek	Nelson
82	Alder Creek Extension	Nelson
43	Anderson	Gaines and Paris
40	Barnes	Bowne
12	Basin	Algoma
146	Bayou	Wyoming
19	Bear Swamp	Bowne
44	Beaver Dam	Court and
61	Beaver Dam Extension	Courtland and Nelson
51	Beak	Cascade and Paris
134	Beesing	Gaines and Caledonia
77	Behan and Foley	Wyoming
53	Bennett	Courtland
24	Bergy Extension	Caledonia
11	Black Lake	Algoma
39	Black Creek	Nelson and Spencer
78	Blanchard	Alpine
157	Bookey	Grattan
30	Boss	Wyoming
66	Boulard and Thompson	Bowne
117	Bowler	Bowne
103	Bradshaw	Spencer
156	Brewer	Gaines
110	Buck Creek	Byron
168	Buck Creek Extension	Wyoming and Byron
171	Bunn	Byron
3	Byron and Dorr	Byron
69	Caledonia	Caledonia
28	Caledonia	Caledonia
106	Cannonsburg Village	Cannon
50	County Line	Nelson
131	Carmody	Grand Rapids
116	Chase	Sparta
16	Church Lake	Grand Rapids
71	Clark and Bunker	Bowne
74	Crinnion Creek	Nelson, Courtland Oakfield
80	Cobb and Miller	Bowne
142	Cole	Wyoming
85	Cooley	Spencer
97	Colby and Livingston	Bowne
98	Colby and Livingston Extension	Bowne
104	Crippen	Wyoming and Paris
138	De Boer	Sparta
100	Downs	Vergennes
95	Driscoll	Walker
15	Dunnean Lake	Gaines and Caledonia
49	Dunnean Lake Extension	Gaines
87	Durfy	Nelson
27	Dutch	Algoma
70	Emmons Lake	Caledonia
125	Emmons St.	Caledonia
75	Fairchild	Vergennes
25	Farmer	Alpine
124	Finch	Solon and Algoma
119	Fisk	Paris and Gaines
1	Fresheter	Alpine
133	Guger	Bowne
135	Girgle	Walker
129	Goose Creek	Byron
150	Goose Creek and Buck Creek Branch	Byron
153	Graham and Warden	Walker
86	Grandy	Byron
58	Gorby	Tyrone
166	Goorhouse	Byron
128	Heintzelman	Cascade and Paris
141	Heir and Thomas	Bowne
31	Heyboer	Paris
91	Herps	Byron
65	Hill	Ada
164	Homerich	Byron
18	Hopkins Lake	Alpine
76	Howard and Doyle	Grattan and Vergennes
84	Hudson	Byron
88	Hinzenga and Branches	Wyoming
23	Irving and Bowne	Bowne
169	Irwin	Byron
22	Jewel	Wyoming
73	Johnson, Branch of Clark Bunker	Bowne
63	Johnson and Godfrey	Bowne
102	Kilgus and Mud Lake	Bowne
132	Klopfenstein	Gaines
52	Knight	Byron
41	Kroft	Caledonia
64	Lally	Vergennes
21	Lamberton Lake	Grand Rapids
79	Lanback	Alpine
93	Lanback Extension	Alpine
99	Layer	Bowne
60	Lockwood	Nelson and Solon
143	Maloney and Wade	Caledonia
89	Maloney	Caledonia
32	Martin	Ada and Cascade
13	Mason and Slayton	Grattan
122	McDowell	Gaines
126	McGee	Vergennes
161	McIntosh	Gaines
29	McKnight	Cascade
4	Medema	Grand Rapids
163	Miller Jct. Co.	Byron
42	Miller	Byron
144	Miller and Stewart	Bowne and Lowell
72	Miller and Wright	Bowne
8	Mill Pond	Sparta
37	Mink Creek	Byron
140	Mink Creek Extension	Byron
112	Mullins	Walker
6	Myler	Grand Rapids
154	Morris	Courtland
155	Morman	Byron
148	Mosher and Farnum	Caledonia
151	Mosley	Grattan
7	Nason	Walker
170	Nichols	Byron
96	Nolan	Walker
105	Oatman	Lowell
54	O'Neil	Walker
90	Osbourne	Tyrone
51	Overlie	Nelson
101	Parker	Vergennes
33	Parnell	Grattan
10	Pickerel Lake	Plainfield and Algoma
149	Phelps	Sparta
162	Phelps Extension	Sparta
38	Pine Island	Plainfield
137	Plainfield	Plainfield and Algoma
158	Potter	Solon
20	Pratt Lake	Lowell and Bowne
107	Ratigan Lake	Grattan
46	Reeds	Walker
94	Remington	Grand Rapids
5	Rettinger	Lowell and Bowne
111	Rexford Lake	Tyrone
9	River Side	Walker and Wyoming
59	Roth	Gaines
147	Richardson and Beatty	Courtland
2	Rogue River	Plainfield
83	Roys	Wyoming
14	Saddle Bag	Grand Rapids
55	Sand Lake	Nelson
130	Scese	Nelson
118	Schindler Swamp	Alpine
45	Shuman	Paris and Cascade
68	Schooley	Gaines
145	Scot Lowe	Bowne
115	Scotch Lake	Plainfield
34	Sexton	Walker
152	Spaulding	Cascade
47	Tobias and Walden	Cascade
139	Troy	Caledonia
121	Voss Parker	Gaines
161	Veenstra	Plainfield
26	Wagar and Bayless	Nelson
114	Wagner	Byron
136	Waldron Lake	Cascade
109	Walker No. 4	Wyoming and Walker
48	Warner	Byron
67	Waters	Grand Rapids
62	Waring	Grand Rapids
127	Weaver	Byron
113	Wells	Grand Rapids
92	West Caledonia	Caledonia
160	Winchester	Byron
165	Williams	Nelson
36	Winger and Nulty	Gaines and Caledonia
120	Winslow	Bowne
108	Winters	Gaines
81	Woods	Bowne
123	Warden	Walker
17	Wright and Alpine	Alpine
56	Wyoming	Wyoming