

MICHIGAN DEPARTMENT OF CONSERVATION
Game Division

Report No. 1146
March 3, 1952

Tabular Results of Surveys of Hunting
and Trapping on State Game Areas
in 1949, 1950, and 1951

The following tables summarize survey work done under Pittman-Robertson project 52R during hunting and trapping seasons of 1949, 1950, and 1951. The figures presented are computed (except where checking stations are maintained) figures based on estimates made in the field. Although no claim to a high degree of accuracy is made, the figures are conservative, and accurate enough to form a basis for policy making regarding acquisition, development, and administration.

The most valid criticism of the figures is that some are too conservative. It has been demonstrated several times that use figures based on considerable field work are larger than those based on meager field data plus conservative estimates.

Surveying recreational use becomes more difficult as game areas grow in number and size. We are looking for ways to refine survey methods, and criticisms and comments are requested.

WJG:sil

3-3-52



TABLE 1
Hunter Use and Game Kill on State Game Areas During the 1949 Season
(Small game only)

	<u>Acres Publicly Owned Land</u>	<u>Computed Number of Hunters</u>	<u>Computed Number Hours of Hunting</u>	<u>Computed Number Units of Game Killed</u>	<u>No. of Hours of Hunting per Unit of Game Killed</u>	<u>Units of Game Taken per 100 Acres</u>	<u>No. Hours of Use per 100 Acres</u>
Barry	12,574	1.283	3,849	775	5.0	6.24	30.6
Danville	2,775	1.297	3,891	582	6.7	20.9	145.
Flat River	5,862	684	2,028	267	7.6	4.3	34.6
Fulton	652	150	450	75	6.0	11.5	69.1
Gourdneck	1,288	584	1,752	119	14.7	9.09	136.6
Gratiot-Saginaw	11,064	638	1,904	184	10.3	1.66	17.2
Gregory	952	220	660	79	8.4	8.31	69.3
Lapeer	2,707	704	2,112	202	10.5	7.3	78.1
Minden City	5,669	237	711	166	4.3	2.9	12.4
Oak Grove	1,083	193	579	48	12.1	4.4	53.6
Port Huron	5,420	915	2,745	332	8.3	6.2	50.6
Saginaw Bay	1,273	1,501	4,678	443	10.6	34.8	368.8
Three Rivers	1,096	210	630	75	8.4	6.8	57.8
Deford	3,653	382	1,146	89	12.9	2.4	31.3
Tuscola	4,229	344	1,032	67	15.4	1.6	24.3
Vassar	1,262	220	660	55	12.0	4.3	52.3
Pointe Mouillee	2,608	5,474	27,783	3,095	9.0	119.	1050.
Total	64,140	15,036	56,610	6,653	8.6	10.37	88.2

Copied 2-28-52
Game Division
hk

TABLE 2

Hunter Use and Game Kill on State Game Areas During the 1950 Small Game Season

	<u>Acres of Publicly Owned Land</u>	<u>Computed Number of Hunters</u>	<u>Computed Number of Hours Hunted</u>	<u>Computed Units of Game Killed</u>	<u>Number of Hours per Unit of Game Killed</u>	<u>Units of Game Killed per 100 Acres</u>	<u>Number of Hours of Hunting per 100 Acres</u>
Barry	13,116	2,178	9,987	2,105	4.7	16.0	76.1
Dansville	3,239	2,487	7,287	1,163	6.3	35.9	225.0
Deford	4,353	345	889	119	7.5	2.7	20.4
Erie	240	249	1,272	127	10.0	52.9	530.0
Fish Point	761	1,675	6,000	320	18.75	42.0	788.4
Flat River	6,059	979	3,182	477	6.7	7.9	52.5
Fulton	652	174	680	170	4.0	26.1	104.3
Gratiot-Saginaw	11,455	1,487	5,186	617	8.4	5.4	45.3
Gregory	1,042	476	1,091	200	5.5	19.2	104.7
Gourdneck	1,288	666	2,470	250	9.9	19.4	191.8
Lapeer	2,787	1,097	4,223	399	10.6	14.3	151.5
Minden City	5,749	237	711	166	4.3	2.9	12.4
Oak Grove	1,143	612	1,755	365	4.8	32.0	153.5
Port Huron	5,524	719	2,968	695	4.3	12.5	53.7
Stanton	1,605	252	955	143	6.7	8.9	59.5
Three Rivers	1,096	210	630	75	8.4	6.8	57.5
Tuscola	4,270	590	2,092	287	7.3	6.7	49.0
Vassar	<u>1,375</u>	<u>294</u>	<u>1,124</u>	<u>183</u>	<u>6.1</u>	<u>13.3</u>	<u>81.7</u>
Total	65,754	14,727	52,502	7,861	6.7	12.0	79.5

Controlled Hunting Areas

	<u>Acres of Publicly Owned Land</u>	<u>Number Permits Issued</u>	<u>Number of Hours Hunted</u>	<u>Units of Game Killed</u>	<u>Hours per Unit of Game Killed</u>
Fennville	2,244	9,998	24,721	690	35.8
Pointe Mouillee	<u>2,608</u>	<u>3,738</u>	<u>18,701</u>	<u>2,814</u>	<u>6.6</u>
Total	4,852	13,736	43,422	3,504	12.4
Grand Totals	70,606	28,463	95,924	11,365	8.4

TABLE 3

Hunter Use and Game Kill on State Game Areas During the 1951 Small Game Season

	Acres Hunted	Computed No. of Hunters	Computed No. of Hrs. Hunted	Computed Units of Game Killed	No. of Hours of Hunting per Unit of Game Killed	Units of Game Killed per 100 Acres	No. of Hours of Hunting per 100 Acres
Barry	13,510	2,393	10,769	2,189	4.9	16.2	79.7
Dansville	3,680	1,429	5,961	477	12.5	13.0	162.0
Deford	1,392	769	2,827	361	7.8	25.9	203.1
Fish Point	2,005	1,803	9,013	1,581	5.7	78.9	449.5
Flat River	6,518	997	3,523	489	7.2	7.5	54.1
Gourdneck	2,087	1,200	3,701	411	9.0	19.7	177.3
Gratiot-Saginaw	11,775	1,424	4,481	533	8.4	4.5	38.1
Lapeer	2,896	2,910	9,227	831	11.1	28.7	318.6
*Pinckney	9,400	1,958	7,830	1,327	5.9	14.1	83.3
Stanton	2,119	539	1,560	147	10.6	6.9	73.7
Tuscola	6,785	1,007	3,564	520	6.9	7.7	52.5
Vassar	2,034	981	2,791	254	11.0	12.5	137.2
*Waterloo	12,140	1,901	9,450	1,196	7.9	9.9	77.8
Total	76,341	19,311	74,697	10,346	7.2	13.6	97.8

Controlled Hunting Areas

	Acres Hunted	Computed No. of Hunters	Computed No. of Hrs. Hunted	Computed Units of Game Killed	No. of Hours of Hunting per Unit of Game Killed
Fennville	1,692**	9,074***	23,785	747	31.8
Pointe Mouillee	1,700	5,074	24,743	4,757	5.2
Total	3,392	14,148	48,528	5,504	8.8

Grand Totals 79,733 33,459 123,225 15,850 7.8

*State Recreation Area

**Also accompanied by 1,277 acres of refuge.

***Permits issued.

TABLE 4

1949 Deer Hunting on State Game Areas

<u>Name of Project</u>	<u>Area in Acres</u>	<u>Computed Number of Hunters</u>	<u>Computed Number of Hours of Use</u>	<u>Estimated Computed Deer Kill</u>
Barry	12,574	2,654	13,270	50
Flat River	5,862	834	4,170	20
Gratiot-Saginaw	11,064	864	4,320	17
Deford	3,653	309	1,545	6
Oak Grove	1,083	644	3,220	20
Port Huron	5,420	996	4,980	15
Tuscola	4,229	1,802	7,923	20
Vassar	<u>1,262</u>	<u>524</u>	<u>2,320</u>	<u>8</u>
Total	45,147	8,627	41,784	156

TABLE 5

1950 Deer Hunting on State Game Areas*

<u>Area</u>	<u>No. of Hunters</u>	<u>No. of Hours of Hunting</u>	<u>No. of Deer Taken</u>
Barry	2,090	9,405	38
Flat River	457	2,216	10
Port Huron	1,032	4,128	1
Gratiot-Saginaw	640	3,185	12
Deford	188	950	5
Tuscola	1,800	8,057	13
Vassar	378	1,701	8
Oak Grove	1,636	6,544	15
Stanton	347	1,388	12
Gregory	200	796	6
Lapeer	<u>250</u>	<u>1,000</u>	<u>1</u>
Totals	9,018	39,370	121

*Figures are computed.

TABLE 6

1951 Deer Hunting on State Game Areas*

Area	Areas Hunted	Number of Hunters	Number of Hours of Hunting	Number of Deer Taken
Barry	13,510	4,085	18,382	40
Deford	1,392	196	785	8
Flat River	6,518	907	5,810	11
Gratiot-Saginaw	11,775	931	3,807	35
Oak Grove	1,246	391	1,491	20
Stanton	2,119	353	1,346	8
Tuscola	6,785	675	2,891	20
Vassar	2,034	358	1,332	12
Waterloo**	<u>12,142</u>	<u>652</u>	<u>2,047</u>	<u>25</u>
Totals	57,521	8,548	37,891	179

*Figures are computed.

**State Recreation Area

TABLE 7

Estimated Take of Fur Bearers in State Game Areas

	1949	1950		1951	
	Furbearers	Muskrats	Mink	Muskrats	Mink
Barry	500	300	15	242	24
Dansville	200	20	--	60	5
Deford	--	25	5	261	20
Erie	--	425 ¹	--	925 ¹	0
Fennville	--	17 ⁴	0	20 ⁴	1 ⁴
Fish Point	--	--	--	1,135	8
Flat River	300	200	10	140	8
Fulton	100	25	2	30	2
Gourdneck	200	25	--	75	--
Gratiot-Saginaw	--	150	--	201	11
Gregory	--	25	--	53	--
Iapeer	50	35	--	180	20
Maple River	--	--	--	299	--
Minden City	--	10	--	--	--
Murphy Lake	--	--	--	360	11
Oak Grove	--	10	--	--	--
Pointe Mouillee	--	358 ^{1,4}	0 ⁴	842 ^{1,4}	0 ⁴
Port Huron	100	80	--	350	9
Saginaw Bay	1,350 ²	1,250 ³	30 ³	--	--
St. Clair Flats	--	--	--	1,350	15
Stanton	--	40	10	250	4
Three Rivers	100	28	1	60	2
Tuscola	--	250	5	476	9
Vassar	--	25	5	38	4
Wildfowl Bay	--	--	--	897	4
Totals	2,900	3,298	83	8,244	157

1 Season ran from December 1 to January 31.

2 Now Fish Point State Game Area

3 Includes estimates for Fish Point and Wildfowl Bay State Game Areas.

4 Actual count by permit system.