

Zuwerink, D. A. 2001. Changes in the derivation of mallard harvests from the northern U.S. and Canada, 1966-1998. M.S. Thesis, Ohio State University, Columbus. 109 pp.

- | | | |
|---------------------|------------------------------------|---------------------------|
| 1 – N. Pacific | 7 – N. Sask/N. Manitoba/N. Ontario | 13 – Missouri River Basin |
| 2 – N. Alberta/NWT | 8 – E. Ont/W. Quebec | 14 – Great Lakes |
| 3 – SW Alberta | 9 – Washington/ Oregon | 15 – Mid-Atlantic |
| 4 – SW Saskatchewan | 10 – California | 16 – NE United States |
| 5 – SE Saskatchewan | 11 – Intermountain | |
| 6 – SW Manitoba | 12 – High Plains | |

Harvest Area	Major Reference Area															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Atlantic Flyway																
CT	0.0	0.0	0.0	0.0	0.0	0.0	7.3	8.9	0.0	0.0	0.0	0.0	0.6	0.0	3.2	80.1
DE	0.0	0.0	0.0	0.4	0.6	1.2	0.0	21.3	0.0	0.0	0.0	0.0	1.6	5.4	30.0	39.6
DC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FL	0.0	0.0	0.0	78.8	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GA	0.0	0.0	1.1	3.7	10.1	2.5	22.2	17.1	0.0	0.0	0.0	0.0	8.4	21.6	11.5	1.8
ME	0.0	0.0	0.0	0.0	0.0	0.0	12.6	6.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	79.3
MD	0.0	0.0	0.0	0.0	3.2	0.8	2.6	22.6	0.0	0.0	0.0	3.6	3.1	8.3	39.0	16.8
MA	0.0	0.0	0.0	0.0	0.0	0.0	5.1	4.4	0.0	0.6	0.0	0.0	0.0	0.0	0.0	89.9
NH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.6
NJ	0.0	0.0	0.0	0.0	0.0	0.1	1.9	15.9	0.0	0.0	0.0	0.0	0.1	1.9	23.5	56.6
NY	0.0	0.0	0.0	0.0	0.2	0.2	4.1	12.8	0.0	0.0	0.0	0.0	0.6	2.7	41.9	37.5
NC	0.0	0.0	0.0	0.5	1.5	2.6	11.0	30.6	0.0	0.0	0.0	0.0	2.8	17.9	18.5	14.7
PA	0.0	0.0	0.0	0.3	0.4	0.4	1.1	9.0	0.0	0.0	0.0	0.7	1.0	6.0	71.7	9.4
RI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.7
SC	0.0	0.0	0.0	1.0	2.4	1.4	17.2	26.2	0.0	0.0	0.0	3.2	6.5	20.6	18.4	3.2
VT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	80.9
VA	0.0	0.0	0.0	1.1	0.6	1.3	4.6	28.5	0.0	0.0	0.1	0.0	3.8	17.8	25.5	16.6

Table A.3: Derivation of total mallard harvests within the United States from major reference areas during 1990-1997.

Harvest Area	Major Reference Area															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mississippi Flyway																
AL	0.0	1.8	0.2	5.5	4.7	4.8	33.4	11.4	0.0	0.0	0.0	0.0	8.4	19.1	8.6	2.2
AR	0.5	4.1	2.6	16.6	17.5	6.2	15.0	0.6	0.0	0.0	0.0	7.4	22.2	6.8	0.3	0.1
IL	0.1	1.3	0.0	5.7	10.4	7.4	24.3	0.6	0.0	0.0	0.0	3.1	19.2	27.6	0.2	0.0
IN	0.0	0.9	0.2	0.9	3.0	2.6	48.5	4.3	0.0	0.0	0.0	0.6	8.3	28.2	1.6	0.9
IA	0.4	1.6	0.7	6.2	10.0	6.5	23.7	0.0	0.0	0.0	0.0	5.9	28.1	16.7	0.1	0.0
KY	0.0	2.5	1.0	3.8	2.5	4.0	30.9	12.5	0.0	0.2	0.0	0.0	11.2	22.9	8.2	0.4
LA	1.0	4.7	4.7	18.8	18.1	6.5	12.0	0.5	0.0	0.1	0.1	5.9	23.4	4.0	0.2	0.0
MI	0.0	0.0	0.0	0.5	1.0	1.4	23.7	11.5	0.0	0.0	0.0	0.2	5.0	53.7	2.8	0.0
MN	0.0	0.7	0.5	1.8	3.7	4.6	23.8	0.2	0.0	0.1	0.0	0.7	51.0	12.7	0.1	0.0
MS	0.7	2.6	1.3	12.2	14.8	7.8	16.7	2.1	0.0	0.0	0.0	5.6	22.2	13.4	0.7	0.0
MO	0.6	3.2	2.3	15.2	13.6	7.8	20.7	0.2	0.0	0.0	0.1	7.6	23.9	4.6	0.2	0.0
OH	0.0	0.4	0.1	0.8	2.5	1.9	17.4	16.0	0.0	0.0	0.0	0.0	4.8	21.6	32.3	2.2
TN	0.3	1.5	0.5	6.9	9.9	5.4	26.5	6.7	0.0	0.0	0.0	1.8	14.4	21.6	3.9	0.6
WI	0.0	0.1	0.0	0.7	1.7	1.6	11.9	0.2	0.0	0.0	0.0	0.4	4.5	78.7	0.2	0.0
Central Flyway																
CO	0.1	1.3	4.1	1.6	0.3	0.0	2.9	0.0	0.0	0.0	15.0	74.3	0.4	0.0	0.0	0.0
KS	0.4	8.4	7.5	20.3	16.6	1.9	2.6	0.0	0.0	0.0	0.2	20.6	21.2	0.3	0.0	0.0
MT	1.3	4.6	17.1	3.8	0.2	0.0	0.0	0.0	0.0	0.2	15.4	57.4	0.0	0.0	0.0	0.0
NE	1.4	16.5	8.0	18.0	12.8	2.7	3.3	0.0	0.0	0.0	0.2	25.8	11.3	0.0	0.0	0.0
NM	0.0	10.3	4.9	2.6	0.2	0.0	0.0	0.0	0.0	0.0	16.9	64.7	0.4	0.0	0.0	0.0

Harvest Area	Major Reference Area															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Central Flyway																
ND	0.5	0.6	0.6	5.0	6.8	5.5	8.9	0.0	0.0	0.0	0.0	13.5	58.5	0.0	0.0	0.0
OK	0.9	7.1	5.9	22.1	10.4	3.4	5.2	0.0	0.0	0.0	0.1	26.2	18.9	0.0	0.0	0.0
SD	0.0	3.9	5.1	12.7	9.1	3.2	9.1	0.1	0.0	0.0	0.0	10.5	45.3	1.0	0.0	0.0
TX	0.0	11.0	10.0	24.4	11.8	2.8	4.2	0.0	0.0	0.0	0.4	19.1	15.6	0.6	0.0	0.0
WY	1.4	7.6	15.5	11.1	0.0	0.1	0.0	0.0	0.0	0.0	15.0	48.6	0.3	0.0	0.6	0.0
Pacific Flyway																
AK	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AZ	0.0	6.4	29.8	2.5	0.0	0.0	0.0	0.0	1.3	0.0	42.9	17.1	0.0	0.0	0.0	0.0
CA	4.9	4.9	7.0	0.7	0.0	0.0	0.0	0.0	6.8	73.8	1.3	0.6	0.0	0.0	0.0	0.0
ID	11.0	17.1	39.2	4.5	0.1	0.0	1.0	0.1	1.0	0.8	18.7	6.5	0.1	0.0	0.0	0.0
NV	6.0	7.0	31.4	5.2	0.0	0.0	0.0	0.0	3.9	6.8	39.9	0.0	0.0	0.0	0.0	0.0
OR	17.7	23.6	17.8	1.4	0.0	0.0	0.0	0.0	29.9	7.8	1.4	0.3	0.0	0.0	0.0	0.0
UT	0.8	15.1	31.1	6.7	0.9	0.0	0.0	0.0	0.1	0.0	36.7	8.6	0.0	0.0	0.0	0.0
WA	29.9	36.7	19.8	2.4	0.0	0.0	0.0	0.0	8.7	1.0	1.4	0.0	0.0	0.0	0.0	0.0

