A Pheasant Plan, say what??

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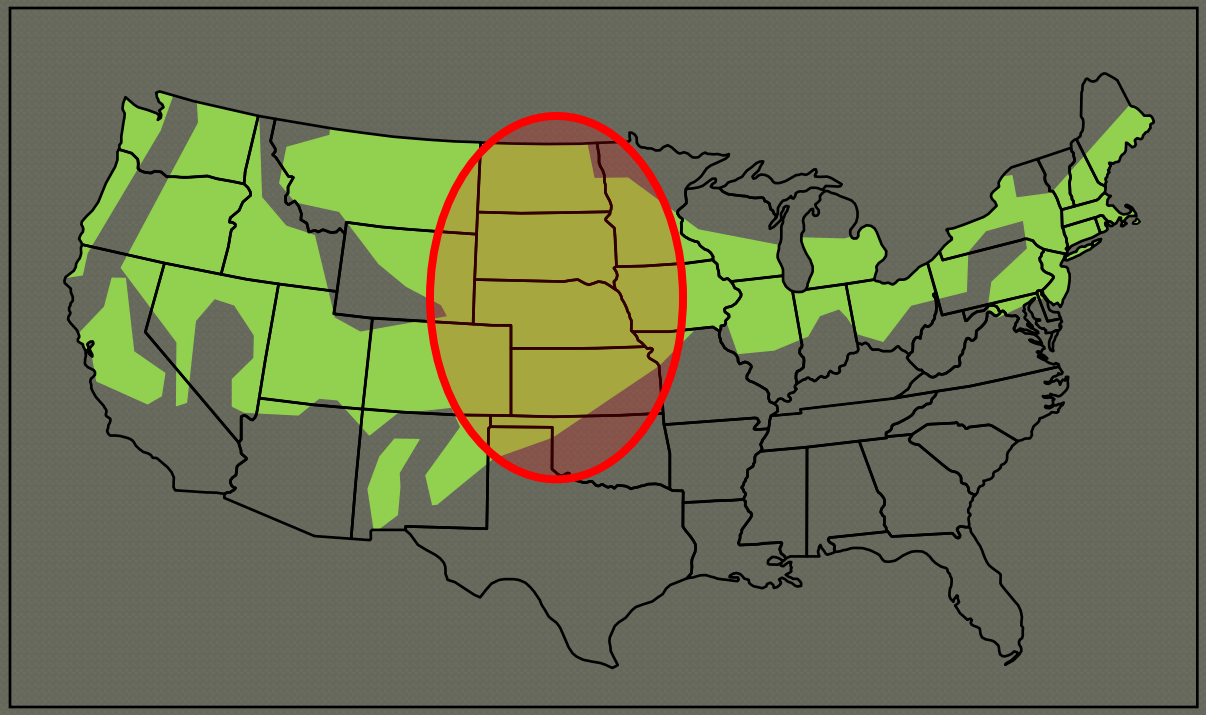
Midwest Pheasant Study Group

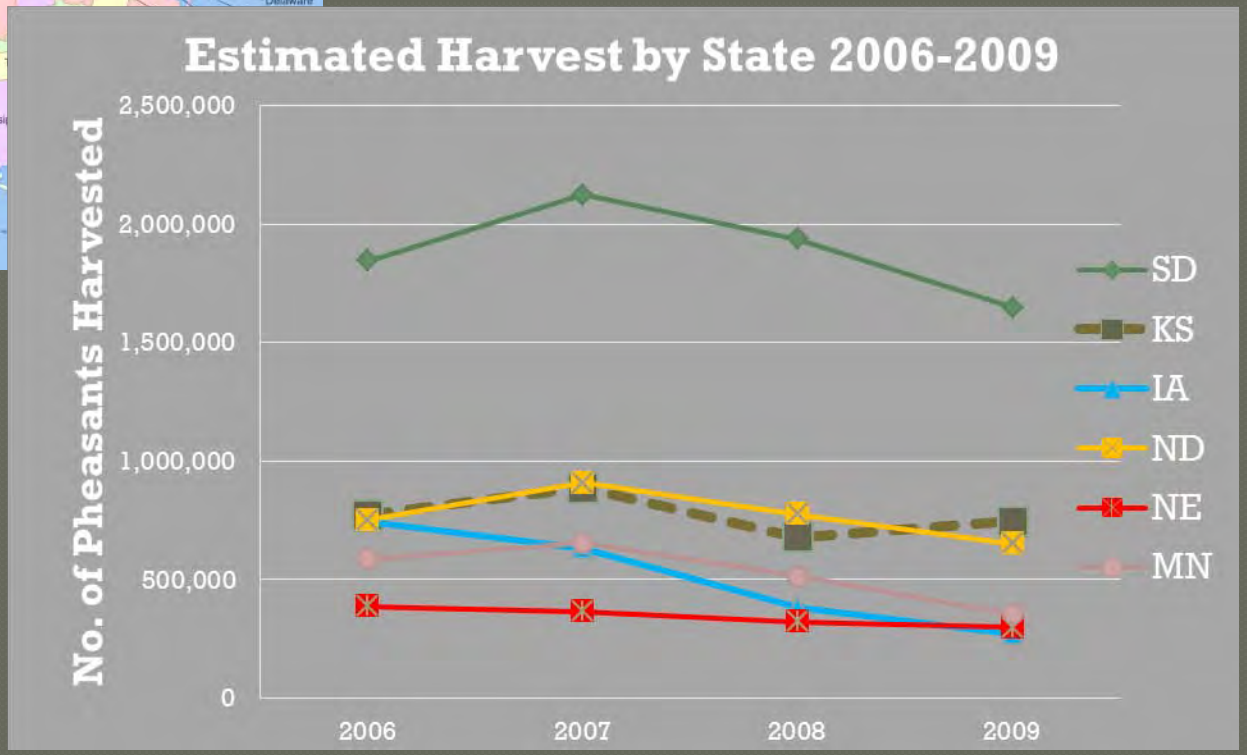
- 2011 in Chamberlain, SD 13th Meeting
- National Wild Pheasant Conservation Plan

National Pheasant Range



The goal for this plan and initiative is to restore and maintain self-sustaining wild pheasant populations in each state that provide maximum recreational opportunities.

Why have a plan?



What's happened?

- Iowa and Minnesota
- Pennsylvania, Indiana, Illinois, Ohio, Michigan, Wisconsin
- South Dakota, North Dakota, Kansas, Nebraska
- The rest of the country

2010?
2011?

More Justification: Economics

<u>2006 to 2009 Avg. Annual Data</u>
836,000 Sportsmen
> 5,000,000 pheasants bagged
5,166,000 days afield
$431 Million local economies
$61/res rooster $116/non-res rooster ($78 per rooster avg.)

Justification: Intangibles

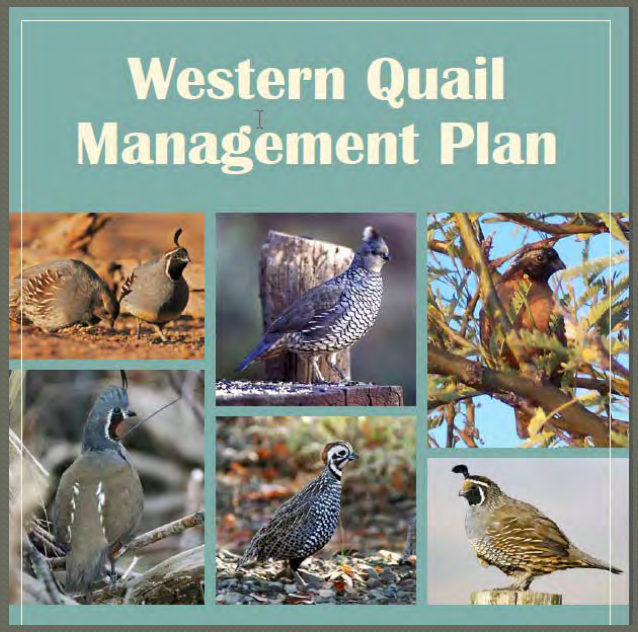
Engine of Conservation (Sportsmen)

Recruitment of Youth

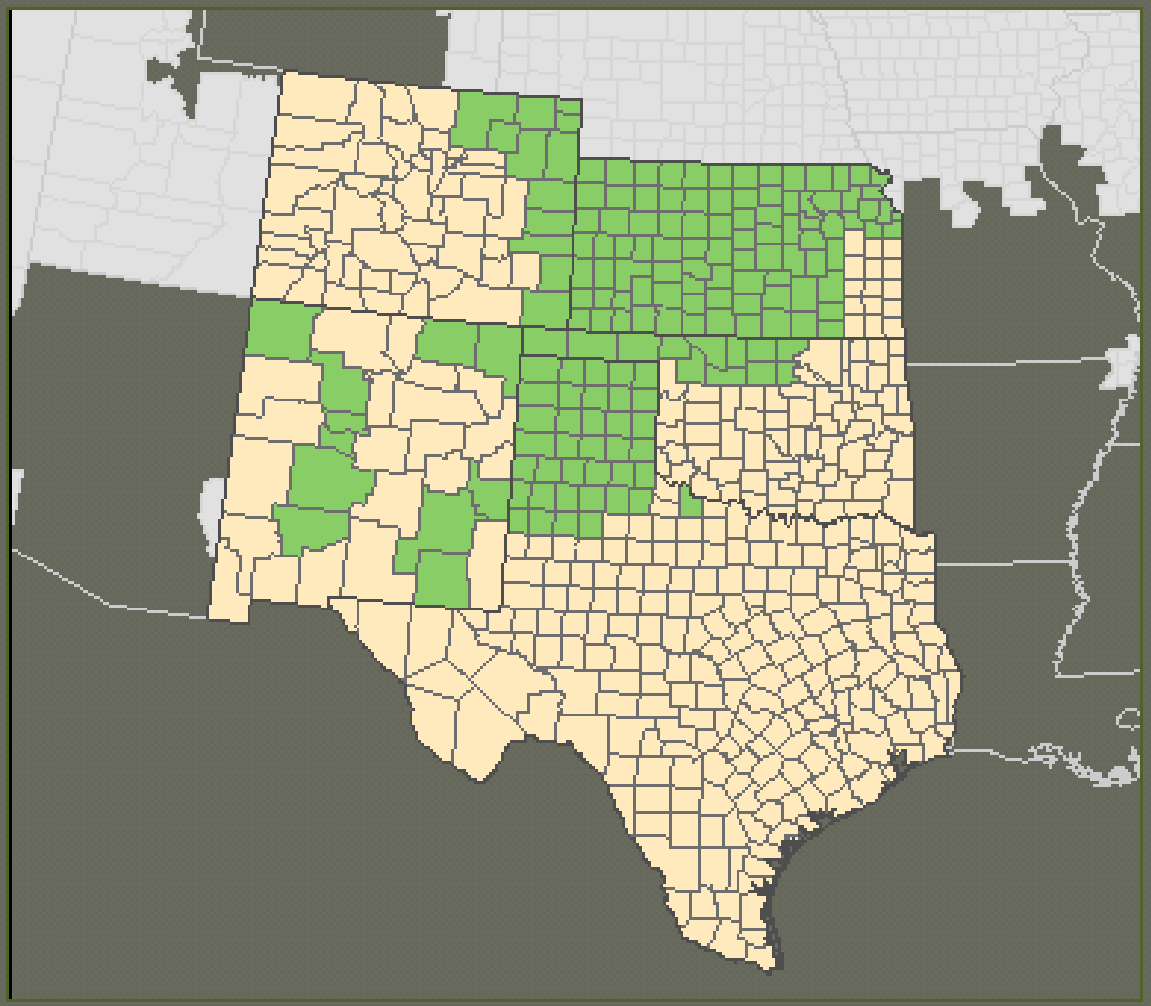
Plan Outline

Typical Conservation Plan

Northern Bobwhite (NBCI)
Western Quail Plan



Planning Regions



Plan Process

- Relating Harvest to Habitat to Dollars

Procedure
Select 10-year period representative of pheasant harvest goals for your state.
Enter annual estimates of pheasant harvest (wild birds only) for your selected 10-year period.
Enter annual estimates of CRP abundance for your selected 10-year period.
Download crop data from the NASS website.
Small grains are sum of barley (all), oats, rye, wheat [all], and flaxseed categories.
Grass hay is estimated as the difference between all hay and alfalfa hay.
If desired, pasture land can be estimated in the NASS Census of Agriculture (see Table 8). Because the census is conducted every 5 years (2007, 2002, 1997, etc.), you will have to interpolate acreages for intervening years.
Adjust prehunt sex ratio and harvest rate as appropriate for your state and document rationale.
Adjust relative nest success values as appropriate for your state and document rationale.

Plan Process

Kansas

Production Variable	Pasture	Alfalfa	Sm Grains	Grass/Hay	CRP
Relative nest success	0.100	0.100	0.590	0.250	0.435
Relative Hab Avail	0.000	0.063	0.681	0.080	0.176
Weighted Nest Success	0.000	0.013	0.796	0.039	0.152

Habitat Types

Variable	Pasture	Alfalfa	Sm Grains	Grass/Hay	CRP
Harvest	0	8,148	517,029	25,612	98,511
Prehunt Pop	0	24,141	1,531,938	75,887	291,885
Acres/live bird	#DIV/0!	37.96	6.43	15.18	8.73
Acres/Harvested Bird		112.46	19.06	44.98	25.85

Data that states need to plug in

Prehunt Sex Ratio (% males)
0.45

Harvest Rate (% of prehunt males harvested)
0.75

Proportion (%) of State Harvest that is wild birds
1

NASS habitat data and state harvest info used in table above to estimate average production values.

Year	Pasture	Alfalfa Hay	Sm Grains	Grass Hay	CRP	Pheasant Harvest	
1996		1,569,300	11,108,000	223,600	2,651,681	512,000	704,239
1997		829,500	10,804,200	1,100,600	2,640,815	766,000	700,798
1998		926,600	10,155,200	1,151,600	2,475,977	681,000	662,371
1999		830,600	9,668,400	1,114,800	2,399,740	824,000	632,212
2000		835,400	9,298,000	1,123,400	2,389,539	692,000	612,620
2001		821,500	9,311,600	1,441,800	2,508,310	426,000	624,882
2002		867,000	9,166,900	1,323,400	2,513,580	497,000	615,267
2003		899,300	9,908,400	1,343,600	2,514,038	646,000	654,921
2004		844,600	9,409,200	1,455,900	2,664,877	685,000	636,577
2005		739,300	9,723,100	1,242,800	2,709,922	764,000	649,113
10 yr Ave		916,310	9,855,300	1,152,150	2,546,848	649,300	649,300

Predicted Harvest with 2010 habitat levels

2008 NASS habitat #'s for KS	246,300	8,687,800	1,404,500	2,716,000	594,245
Increased Sm Grains (XX mil ac)	246,300	10,705,000	1,404,500	2,716,000	700,072
Increased CRP (XX mil ac)	246,300	8,687,800	1,404,500	5,451,000	700,034
Increaseed Sm Grains and CRP (XX mil ac)	246,300	10,495,000	1,404,500	3,000,000	700,040

KS wants a harvest of 700,000 birds.

So for 700,000 bird harvest, KS could increase small grains acreage to 2.02 mil acres

OR increase CRP acreage to 2.7 mil acres.

OR increase small grains 1.8 mil ac AND CRP 284 K ac

Plan Process: Regions

- Overview
- Challenges
- Regional Goals

State	2010 NASS/FSA Habitat Data (Ac)				Predicted Pheasant Harvest Based on 2010 Habitat	State Pheasant Harvest Goal	CRP Habitat Needed to Attain Harvest Goal	Sm Grain Habitat Needed to Attain Harvest Goal
	Alfalfa Hay	Small Grains	Grass Hay	CRP				
Illinois	242,400	91,800	83,100	405,600	159,486	180,000	70,400	96,200
Iowa	880,000	80,000	320,000	1,680,000	912,215	1,000,000	220,000	320,000
Minnesota	773,900	731,300	414,000	1,550,400	407,709	450,000	249,600	368,700
Missouri	49,200	193,400	735,800	927,929	47,643	60,000	372,000	496,600
Wisconsin	887,000	446,800	378,000	426,400	158,283	190,000	198,600	403,200
					1,685,336	1,880,000	1,110,600	1,684,700

- Opportunities

State	Hunters	Days Hunted	Trips	Birds/Hunter	Harvest	Expenditures*	$/Bird Harvested
IA	96,949	6.73	652,865	5.24	508,468	$50,357,972	$99
IL	31,433	4.64	145,653	3.10	97,312	$7,524,103	$78
MN	110,335	7.38	814,017	4.89	539,177	$44,377,361	$82
Wi[c]	70,251	15.32	602,549	11.04	350,767	$33,147,689	$334
MO[b]	9,782	4.69	45,892	3.29	32,142	$2,370,378	$74
Sum	**318,749**	**7.09**	**2,260,976**	**4.79**	**1,527,865**	**$137,777,503**	**$90**

a Resident and non-resident hunters combined.

b 2006, 2007, and 2008 data only

c 2006 and 2007 data only

Outcomes

- National Coordinator
  - Lots TBD here (Oct. 2012 meeting MN)
- Partnerships
- Education
- Research
- POLICY!!!

Timelines

- June 2012 – MAFWA Meetings (Kansas)
- October 2012 – MPSG Meeting Finalize Plan (Minnesota)
- Implementation (NBCI Model)

The End