WILDLIFE HABITAT APPRAISAL GUIDE-MISSOURI

Landowner _____ Appraiser _____

Location T ____ R ____ S ____ Date _____

Total Acres Appraised _____ County _____

CANADA GOOSE
FALL AND WINTER HABITAT

Habitat Characteristics	Habitat Types: Cropland				Nonforest Wetland				Grassland			
Field No.												
Acres												
Fall and Winter Water Conditions[1]												
1. Water present annually (predictable) & water levels controlled	10	10	10	10	10	10	10	10				
2. Water present most years with occasional lapse & water levels controlled	7	7	7	7	7	7	7	7				
3. Water present 1 out of 3 years (opportunistic) & water levels controlled	4	4	4	4	4	4	4	4				
4. Water unpredictable; or dry during fall and winter; or no control when present	1	1	1	1	1	1	1	1				
Fall and Winter Flood Conditions (% annual reduction in food plant coverage from siltation and flooding)[2]												
1. Food plant coverage not affected by fall floods					10	10	10	10				
2. Reduced 1-25%; or 1 in 4 years (Multiply index by .75)					8	8	8	8				
3. Reduced 25-50%; or 2 in 4 years (Multiply index by .50)					6	6	6	6				
4. Reduced 50-75%; or 3 in 4 years (Multiply index by .25)					4	4	4	4				
5. Reduced >75%; or nearly every year (Multiply index by .25)					1	1	1	1				
Percent Nonforest Wetlands and Lakes or Reservoirs 2 Mile Wide Circle of Sample Site (2000 Ac.)[1]												
1. >75% (>1500 Ac.)	10	10	10	10	10	10	10	10	10	10	10	10
2. 50-75% (1000-1500 Ac.)	8	8	8	8	8	8	8	8	8	8	8	8
3. 25-50% (500-1000 Ac.)	6	6	6	6	6	6	6	6	6	6	6	6
4. 10-25% (200-500 Ac.)	4	4	4	4	4	4	4	4	4	4	4	4
5. <10% (<200 Ac.)	1	1	1	1	1	1	1	1	1	1	1	1
Water Depth 1"-18" Deep (% covered average conditions for fall-winter period)												
1. >90%	5	5	5	5	10	10	10	10				
2. 75-90%	3	3	3	3	8	8	8	8				
3. 50-75%	3	3	3	3	6	6	6	6				
4. 25-50%	5	5	5	5	4	4	4	4				
5. <25%	1	1	1	1	1	1	1	1				
Important Food Plant Coverage (% wetland covered by seed producing food plants flooded at least 1" deep)[2]												
1. >75%					10	10	10	10				
2. 50-75%					8	8	8	8				
3. 25-50% (Multiply index by .75)					6	6	6	6				
4. 10-25% (Multiply index by .50)					4	4	4	4				
5. <10% (Multiply index by .25)					1	1	1	1				
Number of Important Food Plants (See list)												
1. >7					5	5	5	5				
2. 4-7					3	3	3	3				
3. <4					1	1	1	1				
Persistent Emergent and/or Woody Vegetation Coverage												
1. 5-15%					5	5	5	5				
2. 15-25%					4	4	4	4				
3. 25-50%					2	2	2	2				
4. <5% or >50%					1	1	1	1				
Subtotal												

Canada Goose
Fall and Winter Habitat

Habitat Planning Key ◯-Existing ⊕-Planned ●-Applied

Habitat Characteristics	Habitat Types: Cropland				Nonforest Wetland				Grassland			
Subtotal												
Field No.												
Acres												
Grassland Composition												
1. Bluegrass, clover or alfalfa									10	10	10	10
2. Timothy, orchardgrass or mixed cool-season grasses									5	5	5	5
3. Fescue monotype (>50% fescue) or warm-season grass									1	1	1	1
Average Height of Herbaceous Vegetation (Fall)												
1. <6"									10	10	10	10
2. >6"									1	1	1	1
Crop Rotation												
1. Row crops - small grains - legume	5	5	5	5								
2. Row crops - small grains	3	3	3	3								
3. Continuous corn - soybeans	1	1	1	1								
Cropfield Management												
1. No fall tillage; or with winter wheat	10	10	10	10								
2. Chisel plowing once in fall	8	8	8	8								
3. Crop residues grazed, chopped or baled	6	6	6	6								
4. Fall discing	4	4	4	4								
5. Fall moldboard plowing	1	1	1	1								
Cropping Practice												
1. >50% unharvested	10	10	10	10								
2. 25-50% unharvested	7	7	7	7								
3. 10-25% unharvested	4	4	4	4								
4. <10% unharvested	1	1	1	1								
Field Size (% field within 660' of treeline, shelterbelt, woodlot or woodland)												
1. <25%	10	10	10	10					10	10	10	10
2. 25-50%	6	6	6	6					6	6	6	6
3. 50-75%	3	3	3	3					3	3	3	3
4. >75%	1	1	1	1					1	1	1	1
Distance to Nonforest Wetland												
1. <½ mi., flooding predictable	10	10	10	10					10	10	10	10
2. ½-1 mi. flooding predictable	8	8	8	8					8	8	8	[illegible]
3. <½ mi., flooding predictable 1 out of 3 years	6	6	6	6					6	6	6	
4. ½-1 mi. flooding predictable 1 out of 3 years	4	4	4	4					4	4	4	
5. <1 mi. flooding unpredictable; or >1 mi. to any nonforest wetland	1	1	1	1					1	1	1	1
Distance to Grassland												
1. <½ mi. with winter height <6" and field size >40 acres	10	10	10	10	10	10	10	10				
2. ½-1 mi. with winter height <6" and field size >40 acres	7	7	7	7	7	7	7	7				
3. <1 mi. with winter height <6" and field size <40 acres	4	4	4	4	4	4	4	4				
4. >1 mi. to any grassland with winter height <6" or grassland with winter height >6"	1	1	1	1	1	1	1	1				
Distance to Cropland												
1. <½ mi., no fall tillage; or with winter wheat					10	10	10	10	10	10	10	10
2. ½-1 mi. no fall tillage; or with winter wheat					8	8	8	8	8	8	8	8
3. <½ mi. with residues chiseled, disced, chopped or grazed					6	6	6	6	6	6	6	6
4. ½-1 mi. with residues chiseled, disced, chopped or grazed					4	4	4	4	4	4	4	4
5. >1 mi. to any cropfield; or cropfield fall plowed					1	1	1	1	1	1	1	1
Distance to Major River, Lake or Reservoir >100 Acres												
1. <1 miles Major River = Missouri, Mississippi	10	10	10	10	10	10	10	10	10	10	10	10
2. 1-5 miles Grand, St. Francis	7	7	7	7	7	7	7	7	7	7	7	7
3. 5-10 miles	4	4	4	4	4	4	4	4	4	4	4	4
4. >10 miles	1	1	1	1	1	1	1	1	1	1	1	1
Distance to Major Canada Goose Winter Area[2]												
1. <4 miles	10	10	10	10	10	10	10	10	10	10	10	10
2. 4-10 miles (multiply index by .75)	7	7	7	7	7	7	7	7	7	7	7	7
3. 10-25 miles (multiply index by .50)	4	4	4	4	4	4	4	4	4	4	4	4
4. >25 miles (multiply index by .25)	1	1	1	1	1	1	1	1	1	1	1	1
Subtotal												

Canada Goose
Fall and Winter Habitat Habitat Planning Key ◯-Existing ⊕-Planned ●-Applied

	Habitat Types											
	Cropland				Nonforest Wetland				Grassland			
Subtotal												
Field No.												
Acres												
Existing Total												
Planned Total												
Applied Total												
Maximum Possible Score	100	100	100	100	105	105	105	105	80	80	80	80
Check Footnotes												
Existing Index												
Planned Index												
Applied Index												

Habitat Type Index = $\frac{\text{Total Actual Score}}{\text{Maximum Possible Score}}$

Farm Habitat Index = $\frac{\Sigma[\text{Habitat Type Indexes x Acres}]}{\text{Total Acres Appraised}}$

Existing Farm Index = _____

Planned Farm Index = _____

Habitat Quality	Score	0.75-1.0	0.50-0.75	0.25-0.50	0-0.25
	Rating	Excellent	Good	Fair	Poor
Acres per bird		<.25	.25-.50	.50-2	>2

NOTE: 1. If Fall and Winter Water Conditions within Nonforest Wetland Habitat Type or Percent Nonforest Wetland within 2 Mile Wide Circle score 1, disregard other characteristics and enter .1 as Habitat Type Index.

2. If Distance to Major Canada Goose Winter Area, Important Food Plant Coverage, or Fall and Winter Flood Conditions score less than 10, multiply Habitat Type Index by appropriate percent. Use lowest percent only.

IMPORTANT FOOD PLANTS

____Acorns
____Agricultural Crops
____Alfalfa
____Beggar Tick
____Bluegrass
____Bulrush
____Chufa
____Clovers
____Coontail
____Cutgrass
____Foxtails
____German Millet
____Japanese Millet
____Pigweeds
____Pondweeds
____Ragweeds
____Sedges
____Smartweeds
____Spikerushes
____Wigeon Grass
____Wild Millet

WINTERING AREAS

Major wintering areas include only the following state wildlife management areas (WMA) and national wildlife refuges (NWR) and Corps of Engineers Reservoirs; Fountain Grove WMA (Linn County), Swan Lake NWR (Chariton County), Smithville Reservoir (Clay County), Thomas Hill WMA (Randolph County), Clarence Cannon Reservoir (Audrain County), Schell-Osage WMA (St. Clair County), Table Rock Reservoir (Stone County), Bull Shoals Reservoir (Taney County), Duck Creek WMA (Stoddard County), Mingo NWR (Stoddard County), Stockton Reservoir (Cedar County) and August Busch WMA (St. Charles County).

Missouri Department of Conservation

U.S.D.A.
Soil Conservation Service
Columbia, MO.

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