	Approximate Page	Approximate Start Line of					
Reviewer	Number (Master,	Comment in Protocol (Master	r,				
#	05082015 Version)	05082015 Version)	Protocol Section	Comment	Theme (from list)	Author Response	Revision
				No periods used below (i.e., U.S.G.S. vs USGS), check for			
INT - 4		5	165 Acknowledgments	consistency throughout document.			
				This reference is missing from the References Section			
EXT - 2		5	172 Acknowledgments	(Element 8) that applies to this portion of the document.			
EXT - 2		5	177 Acknowledgments	This acronym should be defined.			
				The acronym "R" should be defined. The USFWS Region "x"			
EXT - 2		5	180 Acknowledgments	should also be defined for this individual			
EXT - 2		5	186 Acknowledgments	This acronym should be defined			
				The Clapper Rail taxonomy was modified by the AOU during			
				2014 and the new taxonomy should be reflected here.			
				There is a new species name, with crepitans replacing			
			Element 1 -	longirostris for clapper rail. Ridgway's rail (R. obsoletus) has			
EXT - 2		9	305 Background	been split from clapper rail and should be added to this list.			
				The correct species name for the common gallinule is			
				galeata, now that the new world form is considered a			
			_	separate species from the old world form. This document			
		_	Element 1 -	should follow the latest taxonomy and nomenclature used			
EXT - 2		9	309 Background	by the AOU.			
		_	Element 1 -	Gallinules and coots are also hunted and should be			
EXT - 2	1	0	336 Background	mentioned here			
			Element 1 -	Revise—this phrase does not make sense as currently			
EXI-2	1	0	343 Background	written.			
	A		Element 1 -	Abbreviations were used above, check document for			
INT - 4	1	0	345 Background	consistency.			
	1	0	Element I -	This situation is missing from the Deferences section			
EXT-Z	1	0	351 Background	This citation is missing from the References section.			
				The USEWS "vected" interest in march hirds is actually			
				described in the second contonse of this paragraph. Derband			
				the first contance should be rewritten to indicate the USEWS			
				has the legal responsibility under the MPTA to manage and	)		
			Flomont 1	has the legal responsibility under the WBTA to manage and			
	1	0	250 Packground	describe its vested interest in managing marsh hirds			
EAT - 2	1	0	559 Dackground	ls density the correct term here? Or, are you really referring			
				to relative abundance of marsh birds? Densities involve			
				actimates of numbers of individuals nor unit of area, which			
				may be difficult to determine from surveys involving play			
			Flomont 1	hav be united to determine non-surveys involving play-			
FXT - 2	1	1	379 Objectives	the recordings			
	1	1	Flement 1 -	the recordings.			
			Detection				
FXT - 2	1	1	386 Prohability	Well defined			
	I	±	Souriobability				

		Element 1 -		
		Detection	This discussion appears out of context in a paragraph on	
INT - 3	11	389 Probability	detection probabilities. I suggest removing these sentences	
		Element 1 -		
		Detection	This citation is missing from the References section for this	
EXT - 2	11	407 Probability	portion of the report.	
		Element 1 -		
		Detection		
INT - 3	11	407 Probability	Missing from References	
			Where is Element 1? Or, should sampling design become	
EXT - 2	11	411 Element 2	Element 1?	
			Should there be a statement somewhere in here that the	
			general method is a point count (versus transect, area	
INT - 2	11	411 Element 2	search:?	
		Element 2 - Sample		
INT - 3	11	418 design	This is first time used – define SOP	
		Element 2 - Sample	This paragraph addresses sample size but not sample	
INT - 4	12	430 selection and size	selection.	
		Element 2 - Sample	And the extent and accessibility of wetland habitats within	
EXT - 2	12	431 selection and size	the study site.	
EXT - 2	12	445 Element 3	Element 2?	
			Is this document prepared only for the USFWS Refuge	
			system or will it have a broader audience? If only for USFWS,	
			then be clear that you are referring to the USFWS Regional	
		Element 3 - Pre-	Biologist here. If for a broader audience, then consulting the	
		survey logistics and	USFWS Regional Biologist may not be appropriate and a	
EXT - 2	12	450 preparation	reference to "other biologists" may be more appropriate.	
		Element 3 - Pre-		
	10	survey logistics and	Some regions don't have "regional biologists" – in some	
INT - 3	12	451 preparation	areas this was replaced with I&M.	
			On page 3, units are defined as survey points, but here and	
		Element 3 - Pre-	later both units and points are used. Please be consistent	
	40	survey logistics and	one way or the other. Survey points make more intuitive	
EXI-1	12	461 preperation	sense in field protocol	
			Other types of marking survey points may be more	
		Flament 2 Dre	appropriate than just hagging tape, which would have to be	
		Element 3 - Pre-	replaced annually. Consider broadening marking types	
	10	survey logistics and	nere, and note the value of marking each unit/point with a	
EXI - 1	12	461 preperation	more permanent marker for long-term monitoring efforts	
		Element 3 - Pre-	This term is not clear to me. Deas this mean 12 5 dD are 15	
	10	Survey logistics and	This term is not clear to me. Does this mean $\pm 2.5$ GB of $-\pm 5$	
EAT - 2	15	473 preparation		
		Element 3 - Pre-	Should this he optional? Not all suprovers will accessorily	
	10	Survey logistics and	want to account for ambient noise	
IINT - 4	13	474 preparation		


		Element 3 - Pre-	
		survey logistics and	Is this equipment necessary for surveys of fresh water
EXT - 2	13	478 preparation	marshes? If not, then indicate when it is needed.
		Element 3 - Pre-	Should these be optional? The salinity meter is crossing over
		survey logistics and	into habitat measurements; isn't there a separate protocol
INT - 4	13	480 preparation	for wetland habitat monitoring?
		Element 3 - Pre-	
		survey logistics and	
INT - 4	13	490 preparation	What about surveys focusing on the wintering period?
		Element 3 -	
		Establishment of	
EXT - 1	14	494 sampling units	Points?
		Element 3 -	
		Establishment of	Not sure what you are referring to by the word "this". Please
EXT - 2	13	501 sampling units	define
		Element 3 -	
		Establishment of	Not sure why so much detail here versus in the SOP#1 as
INT - 2	13	509 sampling units	above.
		Element 3 - Data	
		collection	This has been repeated several times above, probably not
INT - 4	14	522 procedures	needed here again.
		Element 3 - End-of-	Strange to start a section on "end-of-season" procedures
INT - 4	14	546 season procedures	with something that is done at the start of the field season.
		Element 3 - End-of-	
INT - 4	14	550 season procedures	This belongs in the Reporting section.
EXT - 2	15	560 Element 4	Element 3?
		Element 4 - Data	
		entry, verification,	This new protocol framework also will allow data sharing,
INT - 4	15	563 and editing	correct? Why is the old protocol referenced here?
		Element 4 - Data	
		security and	Is this needed if electronic copies. I thought one of the
INT - 2	15	576 archiving	points was to reduce the paper part.
		Element 4 - Data	
		security and	
EXT - 2	15	579 archiving	Element 2?
EXT - 2	15	602 Element 5	Element 4?
		Element 5 - Annual	
INT - 2	16	613 Reports	Why the font change?
		Element 5 - Analysis	
		and Synthesis	
		Reports, Trends and	
		Habitat	This time frame should be consistent with the time frame
EXT - 2	16	623 Relationships	used in the next paragraph.


		It seems somewhat arbitrary to put a time frame on these
		Element 5 - Analysis reports because the objectives and information needs
		and Synthesis associated with a given survey will vary. Alternative:
		Reports, Trends and "should be prepared on a time interval that is scaled to the
		Habitat management objectives or information needs of the specific
INT - 4	16	624 Relationships survey. For example,"
		Element 5 - Sections
EXT - 2	17	658 to include Another undefined antecedent. Please define.
EXT - 2	17	677 Element 6 Element 5?
		Floment C. Delec
	47	Element 6 - Roles
EXT-2	1/	681 and responsibilities Also establishes the survey locations
		Element 6 - Roles Not a complete sentence. I presume that observers should
FXT - 2	17	689 and responsibilities be knowledgeable in these areas before starting the surveys
	17	Element 6 -
FXT - 1	17	695 Qualifications Replace all observers with surveyors to be consistent
	1/	
		May want to add a section on how to minimize disturbance
		to marsh vegetation/birds when travel through marsh
		vegetation is unavoidable. Observers should stick to
		established trails or paths when possible and avoid stepping
		on clumps of live or dead vegetation, especially during the
		breeding season to prevent trampling of nests nestlings
INT - 4	18	707 Element 6 - Training and/or adult birds.
EXT - 1	18	723 Element 6 - Training What about training if canoes or kayaks are used?
		I remain highly skeptical of accuracy in distance estimation
		when you cannot see the calling bird, given the many
		Element 6 - Distance environmental variables involved (never mind observer skills
EXT - 1	18	727 Estimation and bird behaviors)
		This section should also address the fact that birds
		vocalizing when facing away from an observer sound much
		more distant than the same bird vocalizing while facing the
		observer from the same location. Example 1 in this
		paragraph should be repeated with the speakers facing
		Element 6 - Distance away from the observers so they can appreciate this
EXT - 2	18	728 Estimation difference.
		This depends on the habitat variables that are of
		Element 6 - Distance interest—seems out of place in a paragraph about distance
INT - 4	18	728 Estimation estimation
		And facing in different directions and in different types of
		vegetation (e.g., cattail vs. sedge/grasses) or vegetation
		Element 6 - Distance densities – to get the full range of likely conditions
EXT - 1	18	730 Estimation encountered and different calling volumes.


EXT - 1	18	Element 6 - Distance 737 Estimation	? Are all surveys in these protocol assumed to be unconstrained by distance ie record all birds, regardless of how distant it may be, or is there an option to constrain to a set distance (e.g., recording only those detected within 100 m of the survey point, which may help to minimize detection errors)?. It may be useful to stress practices of distance estimation for simulated calls or natural features (that would usually be encountered, not flagpoles!) within 100 m, to best enhance estimate accuracy.
			Shouldn't the hearing tests he conducted before the survey
			season to determine if there is hearing loss that could
			significantly affect the survey results? I would think that the
		Element 6 - Hearing	program would not want the surveys conducted and then
FXT - 2	19	751 Tests	discover that surveyors had significant hearing issues
EXT - 2	19	759 Element 7	Element 6?
EXT - 2	19	762 Element 7 - Budget	2?
		Element 7 - Table	
INT - 2	19	768 7.1	Consistent font.
		Element 7 -	
		Schedule and staff	? how would this affect staff time and effort, once number
EXT - 1	19	775 time	of sample units are determined?
		Element 7 -	
EXT - 2	20	785 Coordination	Define the acronym.
EXT - 2	20	789 Element 8	Element 7?
		Element 8 -	
INT - 3	20	794 References	This reference is not in this chapter
		Element 8 -	
EXT - 1	20	794 Referencees	Not cited in this section
		Element 8 -	
INT - 3	20	810 References	This reference is not in this chapter.
	22	Element 8 -	
EXI-1	20	810 Referencees	Not cited in this section
	20	Element 8 -	Not sited in this section
EVI - T	20	Element 6	
	21	852 References	This reference is not in this chanter
INT - 5	21	Flement 8 -	
INT - 3	24	964 References	This reference is not in this chapter
	27	Flement 8 -	
EXT - 1	24	964 Referencees	Not cited in this section

			I'm wondering if there is some confusion here between a
			statistical population and a biological population. The birds
			are the biological population that we are interested in. But
			we can't sample the birds like drawing marbles from a
			bag—the birds are not our sampling units. The sampling
			units are the units of habitat that we are visiting. Therefore,
			the target population, in the statistical sense, should be all
		SOP 1 - Target	of the habitat units in our area of interest. The sampling
		population and	frame is the complete list of all habitat units that we can
INT - 4	24	995 sampling frame	access.
		SOP 1 - Target	Think the light of the set have a supervised when the halo full the
	24	Population and	I nink italicizing these key components may be helpful to
EXI-1	24	1000 sampling frame	readers
		SOP 1 - Target	
	25	population and	Listed as 2008 in Rofe
IINT - 3	25	1019 sampling frame	
			Another undefined antecedent. Are you referring to all of
FXT - 2	25	1025 SOP 1 - Objectives	the management objectives, or all of the sampling designs?
		1025 501 1 00500000	
			Objectives don't estimate but rather require estimates to
EXT - 1	25	1025 SOP 1 - Objectives	address an information need or management goal
		,	abundance or occupancy that you wish to be detected
EXT - 2	25	1049 SOP 1 - Objectives	and
		SOP 1 - Survey	
INT - 3	26	1066 timing and schedule	Not listed in References
		SOP 1 - Survey	Unclear what you mean here-do you mean 2 visits per
INT - 4	26	1069 timing and schedule	year?
		SOP 1 - Survey	
EXT - 2	26	1088 timing and schedule	will occur during migratory periods for many marsh birds.

		-

			Time of Day—Vocalization probability of marsh birds is
			typically highest in the 2 hours surrounding sunrise and the
			2 hours surrounding sunset. Survey scan be conducted
			during either the morning or evening as long as each route is
			surveyed consistently during the same period every year
			(once a route is design ed an evening route, it will always be
			an evening route). Morning surveys begin 30 minutes before
			sunrise and should be completed prior to the time when
			marsh birds cease calling which varies depending on a
			number of factors including temperature and time of year.
			In general, these surveys should be completed 2 hours after
			sunrise in southern latitudes and 3 hours after sunrise in
			northern latitudes. Evening surveys should begin 2 hours
			before sunset and must be completed by 30 minutes after
			sunset, when it is becoming too dark to see the datasheets.
			The half hour after sunset is often when detection
			probability of marsh birds is highest. Determine the optimal
			daily survey windows for your region and use these
			windows consistently between years. Including morning and
			evening surveys into a standardized monitoring protocol
			provides added flexibility and more potential survey hours
			for field personnel.
EXT - 2	26	1095 SOP 1 Time of Day	
			These protocol are appropriate for most of the species of
			interest here but definitely not for yellow rails, which are
			best surveyed between ~11pm and 3-4 am. Some note of
			this should be included here so that those refuges that have
			a specific interest in yellow rails can adjust their survey
			times appropriately. See Martin et al. 2014 (Waterbirds
			37:68-78) and Sidie-Slettedahl et al. 2014 (Wildlife Soc. Bull).
			I think a separate paragraph for yellow rails is warranted,
EXT - 1	26	1095 SOP 1 - Time of Day	since this is a species of focal concern.
			? Unclear why this is a hard and fast rule—am vs. pm survey
			timing can be incorporated into models as detection
INT - 4	27	1100 SOP 1 - Time of Day	covariates.
			Survey timing may vary depending on the focal species of
			interest—in SF Bay, Point Blue has found that RIRA
			detection is maximized using a survey window that extends
			from 1 hr before sunrise to 1 hr after, and, similarly from 1
INT - 4	27	1100 SOP 1 - Time of Day	hr before sunset to 1 hr after.
			Explain how temperatue can affect ceasation of calling so
EXT - 1	27	1103 SOP 1 - Time of Day	surveyors can appropriately adjust
			But see Harms and Dinsmore 2014 – their paper, and those
			they cite, clearly indicate variability by season and species.
EXT - 1	27	1106 SOP 1 - Time of Day	This statement seems too broad.
INT - 4	27	1110 SOP 1 - Time of Day	Wind may be a factor for evening surveys in many locations



		SOP 1 - Surveys in	
EXT - 2	27	1120 Tidal Marshes	This species is now known as Ridgway's Rail.
			The high tide surveys at Don Edwards SF Bay NWR are
			winter visual airboat surveys. All breeding season playback
		SOP 1 - Surveys in	surveys on the refuge are conducted when sloughs are less
INT - 4	27	1120 Tidal Marshes	than bank full.
		SOP 1 - Surveys in	
EXT - 2	27	1122 Tidal Marshes	Ridgway's rail if using current taxonomy.
			If surveying at mid-tides, does is matter if the tide is rising or
		SOP 1 - Surveys in	falling? Should this aspect of tide be consistent between
EXT - 2	27	1128 Tidal Marshes	surveys?
		SOP 1 - Surveys in	This is how breeding season playback surveys are timed in
INT - 4	27	1135 Tidal Marshes	SF Bay in relation to tides.
		SOP 1 - Surveys in	May be difficult to estimate closest high tide for muted tidal
INT - 4	27	1136 Tidal Marshes	marshes (common in SF Bay).
			I am not sure what is meant by the term "minimum" trend.
			With regards to trend estimates, the desired precision and
		SOP 1 - Sample size	accuracy of these estimates drives the sample size
EXT - 2	28	1150 for temporal trend	requirements.
		SOP 1 - Sample size	
EXT - 1	28	1155 for temporal trend	How short? Eg less than 5 yrs? 10 yrs? 20 yrs?
		SOP 1 - Sample size	Define "short time frames"—is this 5 years?, 10 years? 20
EXT - 2	28	1156 for temporal trend	years?
			Provide reference(s) to support this statement. This
			statement is contradicted later in the paragraph where the
			species characteristics that influence detection probability
	20	SOP 1 - Sample size	are indicated as an important factor influencing the
EXT-Z	28	1161 for temporal trend	required sampling effort.
		SOB 1 Sampla siza	This is the first montion of survey register. How do survey
	29	SOP I - Sample Size	routes relate to survey points in the campling design?
IINT - 4	20		Toutes relate to survey points in the sampling design:
		SOP 1 - Sample size	Can survey points be considered independent if they are on
	29	1180 for temporal trend	the same route? Is the route really the sampling unit?
1111 - 4	20	SOP 1 - Sample	Are these symbols or > that are underlined? Former would
FXT - 1	28	1190 designs	probably be more appropriate for final conv
	20	SOP 1 - Sample	Sample size will depend on the sampling objectives, so why
INT - 4	29	1196 Design #1	provide a hard number here?
		1100 - 00.8	
			How was a sample size of 50 cells developed? I thought that
			sample sizes were to be developed based on the specific
			needs of each study. That fact should be reflected in this
			paragraph. In this paragraph, it would be better to indicate
			what proportion of replacement grid cells should be
		SOP 1 - Sample	selected based on the desired sample size. Is the 40% used
EXT - 2	29	1197 Design #1	in this example representative for all studies?
		SOP 1 - Sample	
EXT - 1	29	1212 designs	Access routes often may not be linear
		5	


		SOP 1 - Sample	This is a very useful design because realistically most
INT - 4	29	1214 Design #2	marshes are sampled from accessible roads, levees, etc.
		SOP 1 - Sample	Again why specify a sample size if it will depend on the
INT - 4	29	1218 Design #2	sampling objective?
		SOP 1 - Sample	
INT - 4	29	1218 Design #2	See comment above.
			Instead of using arbitrary numbers, for stratified designs,
			the emphasis should be on consulting with a statistician to
			develop the allocation of survey points among Class 1 and
			Class 2 sites. Logistics and available resources may be the
			most important factors limiting the number of Class 2 sites
			that can be surveyed, and these constraints must be
		SOP 1 - Sample	factored into decisions regarding the allocation of survey
EXT - 2	29	1220 Design #2	points.
		SOP 1 - Sample	See comments above regarding using arbirtrary sample sizes
EXT - 2	29	1233 Design #3	in these paragraphs.
		SOP 1 - Sample	
INT - 4	29	1234 Design #3	See comment above.
		SOP 1 - Table SOP-	
EXT - 1	30	1278 1.1	Word usage – sampling sites vs units vs points
INT - 4	33	1378 SOP 2	This has been repeated several times, needed?
EXT - 1	33	1378 SOP 2	Is this repeated information necessary?
			For these surveys, should the playback recordings always be
			obtained from the survey program coordinator? If so, then
			replace the word "should" with "must". Perhaps it would be
		SOP 2 - Broadcast	good to clearly state in the paragraph that the surveyors
		equipment and	should not make up their own recordings to use in these
EXT - 2	33	1396 placement	surveys.
		SOP 2 - Broadcast	
		equipment and	Folks in SF Bay want to use locally recorded vocalizations,
INT - 4	33	1396 placement	how much standardization of the calls used is needed?
		SOP 2 - Broadcast	
		equipment and	Probably best to put the contact info here, don't want folks
INT - 4	33	1398 placement	to have to keep flipping to Appendices for important info.
		SOP 2 - Broadcast	
		equipment and	
INT - 4	34	1412 placement	By upright do you mean pointing the speaker up?
		SOP 2 - Broadcast	
		equipment and	
INT - 4	34	1417 placement	Yes
		SOP 2 - Broadcast	
		equipment and	Or towards the majority of the marsh habitat in the
INT - 4	34	1419 placement	surrounding area.
		SOP 2 - Species to	
		include in the	
EXT - 2	34	1439 broadcast sequence	Include Ridgway's Rail in this list.

EXT - 2	35	SOP 2 - Estimating distance to each 1481 focal bird	Population size? Number of breeding pairs? The number of species (as is currently written) is not related to the density estimates.
EXT - 2	35	SOP 2 - Species to include in the 1460 broadcast sequence	The chronological order of broadcasted calls should start with the least intrusive species in the following sequence:first, and follow this chronological order: black rail, least bittern, yellow rail, sora, Virginia rail, king rail, clapper rail/Ridgway's Rail, American bittern, common gallinule, purple gallinule, American coot, pied-billed grebe, limpkin. Thise order of species on the broadcast sequence wais based on recommendations by Ribic et al. (1999). The vocalizationscalls included in the call-broadcast sequence include the primary advertising call(s) of each species. (e.g., 'whinny' for sora, 'grunt' for Virginia rail, 'clatter' for clapper rail, 'click-click-click-click' for yellow rail, 'coo-coo-coo' for least bittern, 'pump-er-lunk' for American bittern, etc.). Other calls associated with reproduction are also included for many of the species. Including every all the common vocalizationcalls associated with reproduction forof each species on the broadcast sequence is thought to increase detection probability during different times of the breeding season and can help observers learn the less common calls of each target species. A list of common calls for each target species is found in attached (Appendix D).
FXT - 2	35	SOP 2 - Species to include in the 1457 broadcast sequence	This section should also discuss how habitat preferences should be considered in the species selection process. Some marsh bird species have very specific habitat requirements. If those habitats are not present, then those species may be excluded from the play-list even though the surveys are being conducted within that species breeding range
INT - 4	34	SOP 2 - Species to include in the 1440 broadcast sequence	Aren't American bitterns not very responsive to playback? Do we really care about coots that much? (just kidding, kind of). How about listing some criteria for how a surveyor should decide what species to include rather than have a fixed list? e.g., responsiveness of a species to playback, conservation priority level in that state/region, etc.



			of each bird when the bird is first detected becausesince birds may approach the call broadcast during the survey (Legare et al. 1999; Erwin et al. 2002), which violates an important assumption of distance sampling. More research is needed to address the magnitude of this potential problem for each focal species, but analysts will likely only use distance estimates only from birds detected during the initial passive period. of the survey (those detected prior to the call broadcast). Estimating density from a subset of birds detected during the 5-min passive period would not introduce bias as long as the other assumptions of distance
FXT - 2	35	SOP 2 - Estimating distance to each 1483 focal bird	sampling are met (Buckland et al. 2001). The distance at which most individuals are detected varies among the focal species (Conway and Nadeau 2006). Like all measurements, estimating distance to individual birds during surveys includes measurement error. However, training surveyors to estimate to distance to calling marsh birds can decrease biasObtaining accurate distance estimates requires training surveyors in order to decrease potential bias (Nadeau and Conway 2012). Surveyors are encouraged to use a range finder to help them determine the distance to specific landmarks surrounding each survey point, which will help estimate the distance to calling marsh birds. Other methods for improving distanceone's ability to estimatione distance include: 1) tying surveyors flagging at regular intervals away from each survey point in each cardinal direction, or 2) carrying aerial photos of the marsh with 50m 100m and
EXT - 2	35	SOP 2 - Estimating distance to each 1497 focal bird	Birds may also move a significant distance towards the speakers before their initial vocalization, which would also be an important violation of this assumption. Given these problems, why even bother to estimate distances once playback begins? The following sentences indicate not to use distance estimates collected during playback, so why bother collecting the data in the first place?
EXT - 1	35	SOP 2 - Estimating distance to each 1498 focal bird	This seems pretty intrusive
EXT - 2	36	SOP 2 - Estimating distance to each 1505 focal bird	This section should also caution observers about the problem caused by the bird's orientation to the observer. Birds facing observers when vocalizing sound much closer than the same individual facing away from the observer, even when the bird has not moved. This issue frequently leads to the double-counting of individual birds as well as influencing distance estimates.
EXT - 1	36	SOP 2 - Filling out 1514 the data sheet	Do these species then become the "target populations"?



			Consistency of word usage again – surveyor as official
			person detecting and recording, vs possibly "observer" who
		SOP 2 - Filling out	is just observing but not contributing to data (as indicated in
EXT - 1	36	1524 the data sheet	next sentence)
		SOP 2 - Recording	
		detections of focal	
EXT - 1	36	1545 species	Assume ID can be alphanumeric, as shown in example sheet.
		SOP 2 - Recording	
		detections of focal	
EXT - 1	36	1545 species	When to record weather information? At start or end?
			The data sheet and instructions should be modified to allow
			a surveyor to indicate exactly what playback was actually
			broadcast. There are many reasons why the marsh bird calls
			may not be broadcast (e.g., batteries die half way through a
		SOP 2 - Recording	survey, surveyor notices a harrier very close to the station
		detections of focal	and decides to do a passive survey to minimize the chance
INT - 4	36	1548 species	of predation on a listed species, etc.).
			Suggest modifying the data sheet so that the 5 passive
			listening columns are under one header "Passive", and
			those columns associated with call-playback are under
		SOP 2 - Recording	"Response" or "Called During". [the passive minutes aren't
		detections of focal	really "response" but simply unsolicited calling, and birds
EXT - 1	36	1549 species	may not actually be responding to a played call]
		SOP 2 - Recording	In SF Bay, folks like to use letters representing the type of
		detections of focal	vocalization rather than using a 1. Doesn't really matter but
INT - 4	37	1551 species	this might make it difficult to enter the data into AKN.
		SOP 2 - Recording	Especially when several minutes have passed between
		detections of focal	detections and the individual bird could have moved
EXT - 2	37	1572 species	towards or away from the observers.
			It is also very important to stress the need for consistency
			when making these judgments. Significant bias is possible if
			changes in counting protocols can be misconstrued as
			changes in population size. Guidance should also be
			provided for situations when only single vocalizations are
			detected at various times from different locations at the
			survey point. Marsh birds can move, especially in response
			to playback, and a single individual can be responsible for
		SOP 2 - Recording	multiple detections. When counter-calling is not present,
		detections of focal	should the observer be conservative and count only a single
EXT - 2	37	1575 species	individual under this situation?
			Suggest moving this to follow "Recording whether focal
		SOP 2 - Recording	birds are in the target area" (so all focal-species info is
		non-focal species	together) or after "Distinguishing between king and clapper
EXT - 1	38	1600 (optional)	rails"
		SOP 2 - Recording	
INT - 4	38	1640 types of calls	This addresses my comment above.



		SOP 2 - Birds	
		detected at a	
		previous point or	This example is very confusing and does not help explain
EXT - 2	39	1660 between points	this situation.
			Based on their experiences, the authors should provide
			additional guidance on situations where this problem is
			likely to occur. Clapper rails in extensive salt marshes and
			American coots and common gallinules in certain freshwater
			habitats may be most likely to pose this problem.
			If this problem occurs on a fairly regular basis, should the
			observers use the same data recording approach for all
		SOP 2 - What to do i	f surveys? Or should they employ these other approaches
		the surveyor	only on an "as needed" basis. How important is consistency
		hosomos	in data collection practices for these surveys? This issue
		becomes	about the discussed in this section
	22	overwheimed with	should be discussed in this section.
EXT - 2	39	1684 detections	~
		SOP 2 - What to do r	t de la companya de la
		the surveyor	Are you suggesting doing this on the fly, while conducting
		becomes	surveys and finding yourself overwhelmed? If so, and data
		overwhelmed with	sheets are already made up/in hand for the surveys, how to
EXT - 1	40	1717 detections	indicate on the sheet that you are ignoring them?
		SOP 2 -	
		Distinguishing	Other potential problems that should be acknowledged
		between king and	here: these species hybridize to some extent and they may
EXT - 2	41	1736 clapper rails	occur together in some brackish marsh situations.
		SOP 2 - Recording	Something to add to training sessions? Can include frogs
EXT - 1	41	1748 ambient noise level	calling and mosquitos!
			Situations with "no" background noise are probably fairly
		SOP 2 - Table SOP-	rare. Does even the slightest noise qualify as "faint". This
FXT - 2	41	1753 2.1	term should also be defined to distinguish from "faint".
		SOP 2 - Table SOP-	This term should be defined to distinguish it from
FXT - 2	<b>4</b> 1	1753 2 2	"moderate"
		1,00	Given that folks may be (should be) carrying sound level
		SOP 2 - Recording	meters would it be beloful to provide decibel levels for each
	11	1752 ambient noise level	of the levels on the scale?
1111 - 4	41	1755 ambient hoise level	
		SOD 2 Weather	How about in light rain or drizzlo? The precipitation
EVT 2	41	17CE restrictions	now about in light rail of unzzler the precipitation
EAT - 2	41	TTOS LESTLICTIONS	Conditions that are unacceptable should be clearly defined.
			But time-ot-day protocol says nothing about hight, only 30
			min after sunset. Which is a mighty narrow time window to
			target. In my experience in the prairies and northcentral
			areas, winds are least in the morning when air and soil
		SOP 2 - Weather	temperatures are least different, and winds die down at or
EXT - 1	42	1780 restrictions	after dusk.



		10	SOP 2 - Recording	
ł	EXI - 1	42	1795 weather conditions	Where? Don't see it on the data sheet.
			SOD 2 Pacarding	
	FXT - 1	12	1797 weather conditions	Data sheet shows F not C
ľ		72	SOP 2 - Table SOP-	
	EXT - 2	42	1809 2.3	Should be a superscript.
ľ				
				Should be optional, not all surveys will be looking at water
				level management effects on marsh birds. Also, if the water
			SOP 2 - Recording	gauge hasn't been tied to a known elevation (expensive),
	INT - 4	44	1815 water levels	then the data may not be reliable or useful
			SOP 2 - Recording	
ł	EXT - 2	44	1817 water levels	Citation missing from references section for this SOP.
			SUP 2 - Recording	Data is 2008 for this publication in the references section
	EXT - 2	44	1817 Water levels	Becord this where On the data sheet, or in the general
				nrotocol? Would be helpful to document gauge locations
				on the survey maps so their locations can be spatially
			SOP 2 - Recording	related to survey points and management unit
	EXT - 1	44	1834 water levels	names/habitats.
ľ			SOP 2 - Recording	Provide some information on the equipment to use to
	EXT - 2	44	1848 salinity	measure salinity, just as was done for water gauges.
			SOP 2 - Recording	
			date of fire,	
			disturbance, or	
ł	EXI - 1	45	1859 management action	Where? Under comment section?
			SOD 2 - Recording	Are there other data sheats for this purpose, or is this
			date of fire	something each Project Coordinator needs to develop and
			disturbance, or	maintain? How will such data connect to the surveys for
	EXT - 1	45	1866 management action	larger meta-analyses?
			SOP 2 - Inclusion of	
			an initial settling	
			period (NOT	Add something to indicate when a motorized watercraft is
	INT - 2	45	1878 recommended)	used, and perhaps make a solid recommendation.
			SOP 2 - Multiple	
	INT - 4	45	1903 observer surveys	This is almost impossible to control for.
			SOP 2 - Multiple	
		16	Observer surveys	Would be useful to include as example like Appendix E
ŀ	ΕΛΙ - Ι	40		would be useful to include as example like Appendix E
	FXT - 2	49	2038 description	Provide the complete name for this organization
				Is the appropriate word here "and" or "and/or" rather than
			SOP 3 - Data access	"or"? "Or" implies that the data can be filtered by only one
	EXT - 2	49	2057 roles	of these factors.

			How often do expect this document to be updated?	
			Including specific names here may cause confusion if people	
			in those positions change in the near future. Instead (also?)	
		SOP 3 - Creating a	give titles here and ensure the appropriate individuals can	
EXT - 1	50	2080 New Project	be quickly located on the web site.	
			Would be useful to explicitly indicate upfront the sets of	
		SOP 3 - Data entry,	data or sections to be entered (currently or planned for the	
		verification, and	future) – eg bird surveys (main data sheet), survey protocol,	
EXT - 1	50	2094 editing	site conditions, habitat/vegetation?	
		SOP 3 - Data entry,		
		verification, and		
EXT - 1	50	2095 editing	Could data files also be uploaded as csv files?	
		SOP 3 - Data entry,		
		verification, and	But are these stored anywhere in AKN to link to the data?	
EXT - 1	50	2099 editing	Not clear at this point	
		SOP 3 - Data entry,	Available yet? Will there will be a separate protocol or set	
		verification, and	of information like these documents for entering habitat	
EXT - 1	50	2102 editing	and vegetation data?	
			Given that FGDC metadata is the standard used by the	
			Federal government, this section should at least mention	
			this metadata standard and provide more information about	
EXT - 2	51	2157 SOP 3 - Metadata	developing standard metatdata for a project.	
EXT - 1	51	2158 SOP 3 - Metadata	Would be helpful to indicate the fields in table or appendix	
			Identifying publications that used those survey data would	
			be very useful for future data users – something to	
EXT - 1	51	2163 SOP 3 - Metadata	encourage.	
		SOP 4 - Sources of	This citation is missing from the references at the end of this	
EXT - 2	53	2199 variation	SOP.	
		SOP 4 - Sources of		
INT - 3	53	2199 variation	Add to References	
		SOP 4 - Sources of		
EXT - 2	53	2201 variation	For what?	
			Chan that there there down the analitable to be uside a dive	
			Given that these trend graphs are likely to be misleading,	
			and the following section addresses the need to incorporate	
			detection into the trend analyses, should the user be	
			encouraged to use this function? If anything, this paragraph	
			should refer to the paragraph below for a discussion of the	
		SOP 4 - Inventory:	potential for these trends to be misleading and that this	
		Species Composition	n function should not be used as a replacement for a more	
EXT - 2	54	2236 and Distribution	detailed trend analysis.	


EXT - 2	54	SOP 4 - Population Trend and Habitat 2242 Analysis	What is missing from this section is information about how to conduct these analyses. For surveys using distance sampling, reference should be made to the DISTANCE software available to conduct these analyses. For the other methods discussed here, the document should indicate if there are analytical tools available for conducting these analyses or if the Project Leaders will need to obtain statistical assistance in order to conduct these analyses. This important component of the marsh bird monitoring process should be described in sufficient detail here.
EXT - 2	54	SOP 4 - Population Trend and Habitat 2243 Analysis	Provide more specific guidance. A minimum of 5-10 years of data will be required before these analyses are possible. Specific guidance should be provided on the frequency that these analyses need to be repeated.
INT - 2	54	SOP 4 - Population Trend and Habitat 2250 Analysis	This seems to go against some of the discussion about not worrying about detection previously.
INT - 4	54	SOP 4 - Population Trend and Habitat 2257 Analysis	I think there is huge variation in distance to vocalizations reported by different surveyors (observer bias). Many other factors can influence perceived distance, including wind strength and direction, other ambient noise, the direction the bird is facing, the surrounding features that can inhibit sound (open water vs. veg), and the presence of channels, which conduct sound much differently than flat surfaces. I confess I don't trust the distance estimates.
FXT - 2	55	SOP 4 - Population Trend and Habitat 2272 Analysis	I presume this is the reference cited below.
EXT - 2	57	Appendix A - Table 2334 A.1	Add Ridgway's Rail to this table. Additionally for this table and the following table, capitalization of common names should be consistent with the rest of this document; these names were capitalized only when a formal name is included such as Virginia rail or Wilson's snipe.
		Appendix A - Table	Why is Western Grebe missing from this list when all of the
EX [ - 2	5/	2334 A.1	other grebes are listed? Tweaked column width in top row to match and changed
		Appendix A - Table	indentation in species name column. Need to do same for
EXT - 1	57	2334 A.1	next table
INT - 2	57	Appendix A - AOU	Not recommended, so why include?
EXT - 2	57	Appendix A - Table 2342 A.2	Given that the non-focal species can include any bird species, this section should provide a link/reference to a source that will provide the 4-letter acronyms for all North American birds.



				It would be worthwhile contacting different parts of the	
				country to find out when they conduct their surveys. SF Bay	
				surveys are conducted January 15-April 15 (completely	
				outside the recommended window); this is the period that	
INT - 4		58	2347 Appendix B -Figure 2	L they have found maximizes RIRA detection (Ridgway's Rail).	
			Appendix C - Focal		
			Species and Field		
INT - 2		59	2350 Data	Combine with A	
			Appendix C - Table		
INT - 4		59	2358 C.1	Does playback really increase detection prob?	
				Order of these species under broadcast? Would be more	
			Appendix C - Table	helpful to have the codes in alphabetical order, and	
EXT - 1		59	2358 C.1	indented so Broadast and Non-broadcast stand out better	
				Described in text in the BNAs or actual audio file? Would be	
			Appendix D - Table	helpul to also indicate online source of audio files for	
EXT - 1		60	2367 D.1	training (tho that would take even more space)	
				Suggest splitting this 1 row into "Passive" and "Called	
EXT - 1		62	2367 Appendix E	During" sections	
				·	
				This protocol framework for surveys of secretive marsh birds	
				a refuge or land area will be very useful for USFWS staff and	
				others seeking to inventory or monitor marsh birds. The	
				protocols have been significantly improved since the last	
				version. Procedures generally are very clear, with good	
				examples provided. I have few general comments. Full	
				comments and some suggested changes or additions are	
FXT - 1	NΔ	NΔ	General Comment	included in the track-changes draft	
	1.17.1		Scheral conment		
				One area of significant concern is the absence of	
				information specific to vellow rails. This species is a focal	
				species of concern and of interest to some porthern refuges	
				Following the morning or evening survey protocol would	
				seriously underestimate presence or abundance as the	
				species calls primarily in the middle of the night. No	
				information is given about appropriate survey protocol for	
				this necturnal species. Dreject leaders with a specific	
				interest in vellow will most consider scheduling for	
				niterest in yenow rais must consider scheduling for	
	N1.4	<b>N</b> 1A		nocturnal surveys that would appropriately target yellow	
EXI-1	NA	NA	General Comment	rails but not the other secretive marsh birds.	
				the material table allocations of the combine of all the comparison of the states	
				remain nighty skeptical of the value of distance estimation,	
				particularly for birds you cannot see, but until more	
				research is available across a range of species and	
			<b>_</b>	environmental conditions, training and documentation as	
EXT - 1	NA	NA	General Comment	provided here is the best feasible approach.	



EXT - 2	NA	ΝΑ	General Comment	The intended audience for this document needs to be specifically defined in the Introduction. This document appears to be aimed at US Fish and Wildlife Service (USFWS) refuge personnel, but that fact is not clearly stated. However, this document will reach a broader audience than just the USFWS refuge staff. Hence, this document should indicate how others should be able to follow this protocol to conduct marsh bird surveys even if they are operating under a different administrative system than then USFWS.
EXT - 2	NA	NA	General Comment	First and foremost, this document is an instruction manual. As such, its content should be expressed very clearly and simply so that someone without an extensive knowledge of marsh bird biology and survey experience can use the information to successfully initiate secretive marsh bird surveys.
EXT - 2	ΝΑ	ΝΑ	General Comment	In its current form, this document needs considerable editorial revisions. In general, this document is very wordy with an excessive use of parenthetical expressions and needless repetition. I made a number of editorial suggestions, but the entire document needs a very thorough editing to make it understandable to a user who may not be very familiar with the intricacies of marsh bird surveys. The shift from active to passive tenses among sentences, and in some cases even within a sentence, is also confusing. Use a single tense throughout the document.
EXT - 2	ΝΑ	ΝΑ	General Comment	The Data Analysis SOP (#4) discusses why these specific protocols are followed but does not discuss how to analyze the data. Where software is available that would allow a refuge biologist to analyze their survey data, such as the DISTANCE program used to analyze data collected by distance sampling methods, this manual should indicate where the software can be downloaded, what training may be necessary to use it, and other guidance that would help someone to understand the resources necessary to analyze that component of the marsh bird survey dataset. Where similar software is available for the other techniques to estimate detection probabilities, similar information should be provided.
EXT - 2	NA	NA	General Comment	This document needs to do a better job of indicating the resources that will be necessary to analyze these data. The lack of this information is a critical shortcoming of this protocol. Simply indicating to "consult a statistician" is not enough guidance. If a refuge is going to allocate resources to collect these data, then they need to understand the resources that will be required to analyze these data.



INT - 1	NA	NA	General Comment	Thanks for the opportunity to review the national protocol. It is certainly about as extensive a monitoring protocol as I've seen; my compliments. Overall, it accomplishes your two stated objectives.
				We have been surveying just the same 12 points for the last
				12 years or so. They are all along a bayou with marsh on one
				or both sides. However, some have narrow strip of
				maritime forest between us in the boat and the marsh. So,
				some points are would be #7 and some would fit in Other.
				There is likely a difference in detectability between those
				two types of points; we can't hear as well and definitely
	N 1 A	NA	Concerct Concercent	can't judge distance as well from the points with intervening
INI - 1	NA	NA	General Comment	forest. Did include now we might address that blas?
				The 12 points here were selected because those were the
				only points that would fit within the available habitat
				before there were any survey objectives. Did you include
INT - 1	NA	NA	General Comment	information for dealing with a sampling design that wasn't?
				I like the some of the detail in the training section. But if
				there has been no training for last 12 years, how would one
				compare the data before and after any training. It would be
				helpful to be much more specific about this 7 days of
				training. and 7 full days of training for 3 mornings of survey
INT - 1	NA	NA	General Comment	a year? Are there any guidelines on hearing test thresholds?
INT - 1	NA	NA	General Comment	We add MSCR to our non-focal species list.
				I may have missed, but was there a section on
				habitat/vegetation sampling and data analysis? We have
				not collected any, because some points have much easier
				access than others (the ones with maritime forest strip
				would one treat data points with different access to
INT - 1	ΝΛ	ΝΔ	General Comment	vegetation?
11N1 - T	NA	NA NA	General comment	Overall the material is very thorough, perhaps to the point
INT - 2	NA	NA	General Comment	of unwieldy to a station biologist.
				I would rather see more directive detail in elements three
INT - 2	NA	NA	General Comment	and four, rather than referencing the SOPs
				Because there are so many SOPs, there is a lot of repetition
INT - 2	NA	NA	General Comment	in references
				Some of the reporting discussion seems overboard, as do
				some of the more general discussion of statistics and
				sampling. That discussion seems applicable to all sampling
INT - 2	NA	NA	General Comment	ad goes beyond secretive marshbirds.


				This document is well written and thorough enough that anyone who has never conducted a secretive marsh bird survey could easily follow the general protocol. A site- specific protocol for a refuge or other area could, relatively easily, be developed using this base document. The scientific procedures outlined in this document are clear and
INT - 3	NA	NA	General Comment	will facilitate achievement of the sampling objectives as well as support management objectives.
				I was pleased to see the inclusion of recording habitat
				characteristics as these are vital in understanding the
INT - 3	NA	NA	General Comment	relationship of these birds with land management activities.
				I thought that having a Reference section at the end of each
				one Reference section at the end of the document that
INT - 3	NA	NA	General Comment	includes all references cited.
				For consistency, check the numbers in the document; some
INT - 3	NA	NA	General Comment	were written numerically when they should be spelled out.
				Additionally, be consistent with using spaces and
				were used: 5-min: 5 min: 5-minute, 5 seconds
INT - 3	NA	NA	General Comment	1 min: one-minute: 1 minute: 50m: 50 m: etc.
			General comment	
				i added this comment in track changes, but I think it is
				he unloaded into ServCat. The document states (nage 9)
				that results and reports should be archived at the refuge
				station, on the station's website and copies distributed to
				interested partners. I agree results should be archived at
				the refuge office, preferably also on the station server if one
				is available. Refuges generally don't upload reports on their
				website for availability to the general public, particularly if
INT - 3	NA	NA	General Comment	they include locations of listed species.
11NT - 4	NA	NA	General Comment	There were a lot of ancillary nieces of information that
				might not be needed by specific users (e.g., water height
INT - 4	NA	NA	General Comment	salinity) and should be made optional.
				The potential sampling designs were useful. The data
				management section was very useful and will help bring
INT - 4	NA	NA	General Comment	more data into AKN.
				The data analysis SOP is fairly thin. I recognize the challenge
				of covering the wide array of analyses that one could
				perform with the data, but perhaps a few common types of
	NLA			analyses should be sketched out in greater detail (e.g., GLM
INT - 4	NA	NA	General Comment	tor count data)



				*Are the scientific procedures clear and will they facilitate achievement of the stated sampling objectives and support management objectives?
INT - 4	NΔ	NΔ	General Comment	There are no specific management or sampling objectives because this is a very general protocol framework. So no, the procedures by themselves won't selves facilitate achievement of objectives. Site-specific management and sampling objectives will need to be developed by managers on the ground
			General comment	*Will the information provided facilitate easy production of
				site-specific instructions?
INT - 4	NA	NA	General Comment	Yes, the information will greatly facilitate the production of site-specific instructions.
				Overall I thought the protocol framework is well thought out
INT - 5	NA	NA	General Comment	and clearly described.
INT - 5	ΝΑ	ΝΑ	General Comment	My only comments pertain to the plausibility of a single refuge instituting this protocol at their station given the minimum number of sampling points required to meet minimum statistical standards ie. 50 random points or 50 points per stratum, a sampling frequency of 3 times per year and for trends analysis maintain this effort for 20 years. This survey would require a substantial effort that would deter most biologist especially if you consider we likely have more than one strata of wetlands or wetland management strategy on a refuge and also conduct numerous surveys with a similar standard focused in the same 2–month period (waterfowl breeding pair surveys, landbird point count surveys, amphibian call surveys, shorebird surveys, large and small mammal surveys, and various habitat surveys ). We have quickly exceeding the capacity of any single refuge biological program.
INT - 5	ΝΑ	ΝΑ	General Comment	This is particularly true if you also add in training requirements for field staff conducting all of these surveys . Most refuges do not have access to trained seasonal staff who return annually. Seasonal staff must be trained every year. In the protocol, it mentioned a minimum of 7 days of training for a marshbird survey that may involve only 5 species. Again multiple this by all the surveys we do annually. Without the budget and commitment by the Service to maintain a trained field staff that can work across multiple refuges and data management staff to handle data entry, summary and analysis these protocols seem to be mostly exercises in futility.



Intervent to be too negative, but I don't see protocols         with these sampling requirements below in private low evan mary retuges. Are there refuses doing this level of marshift do't do not toring? I an intersisted in seeing some examples, We do 2, 12 statuton routes 4 times a year and that is about all we can handle. (see additional comments that is about all we can handle. (see additional comments in that is about all we can handle. (see additional comments world examples of a refuge based sampling design.         INT - 5       NA       NA       SOP 1       world examples of a refuge based sampling design.         INT - 5       NA       NA       SOP 1       world examples of a refuge based sampling design.         INT - 5       NA       NA       SOP 1       monto the height.         INT - 5       NA       NA       SOP 1       monto the height.         INT - 5       NA       NA       SOP 1       monto the height.         INT - 5       NA       NA       SOP 1       table of minimum sample size for each sampling design.         INT - 5       NA       NA       SOP 1       The need to confer with a statistical is frequently mentioned. Does the Service have one or many that a refuge biologist can contact with questions? A bio of tongue in theke, however, if this result of the SOP 1 for this protocol.         INT - 5       NA       NA       SOP 1       advice would be helpful.         INT - 5       NA       NA <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>					
INT - 5       NA       NA       General Comment       under SOP 1)         INT - 5       NA       NA       General Comment       I think the SOP needs to have more meat in it and some real         INT - 5       NA       NA       SOP 1       world examples of a refuge based sampling design.         INT - 5       NA       NA       SOP 1       world example sizes for each sample sizes for each sampling design.         INT - 5       NA       NA       SOP 1       world example sizes for each sampling design.         INT - 5       NA       NA       SOP 1       world example sizes for each sampling design.         INT - 5       NA       NA       SOP 1       mentioned. Oost the sorice have one or many that a refuge biologist can contact or perhaps there is a statistican on on contact we can contact we can contact with questions? A bit of tongue in cheek. however, if this resource is available perhaps some kind of contact list or process for getting this kind of advice would be helpful.         INT - 5       NA       NA       SOP 1       came from the Midwest landbird protocol.         INT - 5       NA       NA       SOP 1       came from the Midwest landbird protocol.         INT - 5       NA       NA       SOP 1       came from the Midwest landbord of the SOP for this protocol.         INT - 5       NA       NA       SOP 1       came from the M					I don't want to be too negative, but I don't see protocols with these sampling requirements being instituted on very many refuges. Are there refuges doing this level of
INT - 5     NA     NA     General Comment     under SOP 1)       INT - 5     NA     NA     General Comment     under SOP 1)       INT - 5     NA     NA     SOP 1     world examples of a refuge based sampling design.       INT - 5     NA     NA     SOP 1     world examples of a refuge based sampling design.       INT - 5     NA     NA     SOP 1     world examples of a refuge based sampling design.       INT - 5     NA     NA     SOP 1     world examples of a refuge based sampling design.       INT - 5     NA     NA     SOP 1     world examples of a refuge based sampling design.       INT - 5     NA     NA     SOP 1     The need to confer with a statistician is frequently mentioned. Does the Service have one or many that a refuge biologist can contact with puscins? A bit of longue in check, however, if this resource is available perhaps some kind of contact list or process for getting this kind of contact list or process for getting this kind of contact list or process for getting this kind of contact list or process for getting this kind of contact list or process for getting this kind of contact subscript and how that a lot of the Service to put together a statistical handbook that provides more detail on survey types. The handbook could a king we details on processes for evaluating the atequacy of a sample size for detecting differenct barwen strats such as habitas or temporal trends. May of using processes to a statistical handbook could a king we details on processes for evaluating the atequacy of a sample size for detecting differenct batwen strats with as					marshbird bird monitoring? I am interested in seeing some
INT - 5       NA       NA       General Comment       under SDD 1         INT - 5       NA       NA       SOP 1       world examples of a refuge based sampling design.         INT - 5       NA       NA       SOP 1       world examples of a refuge based sampling design.         INT - 5       NA       NA       SOP 1       world examples of a refuge based sampling design.         INT - 5       NA       NA       SOP 1       would be helpful.         INT - 5       NA       NA       SOP 1       would be helpful.         INT - 5       NA       NA       SOP 1       would be helpful.         INT - 5       NA       NA       SOP 1       advice would be helpful.         INT - 5       NA       NA       SOP 1       advice would be helpful.         INT - 5       NA       NA       SOP 1       advice would be helpful.         INT - 5       NA       NA       SOP 1       advice would be helpful.         INT - 5       NA       NA       SOP 1       came from the Midwest landbird protocol.         INT - 5       NA       NA       SOP 1       came from the Midwest landbird protocol.         INT - 5       NA       NA       SOP 1       came from the Midwest landbird protocol.					examples. We do 2, 12 station routes 4 times a year and
INT 5       NA       NA       SOP 1       It think the SOP needs to have more meat in it and some real world examples of a refuge based sampling design.         INT -5       NA       NA       SOP 1       world examples of a refuge based sampling design.         INT -5       NA       NA       SOP 1       world examples of a refuge based sampling design.         INT -5       NA       NA       SOP 1       would be helpful.         The need to confer with a statistician is frequently mentioned. Does the Service have one or many that a refuge biologist can contact or perhaps there is a statistician on contract we can contact with questions? A bit of tongue in check, however, if this resource is available perhaps some kind of contact list or process for getting this kind of advice would be helpful.         INT -5       NA       NA       SOP 1       came from the Midwest landbird protocol.         INT -5       NA       NA       SOP 1       came from the Midwest landbird protocol.         INT -5       NA       NA       SOP 1       came from the Midwest landbook that provides more detail on survey sampling design including examples for different survey.         INT -5       NA       NA       SOP 1       came from the Midwest landbook that provides more detail on survey sampling design including examples for different survey.         INT -5       NA       NA       SOP 1       survey sampling design including examples for different survey sampl	INT - 5	NΔ	NΔ	General Comment	under SOP 1)
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INT - 5	ΝΑ	ΝΑ	General Comment	With regards to using the GAP Land Cover Classification. I agree that a national standard should be used for vegetation classification at survey points. The Ossification system proposed is good. However, the discussion on use of a GIS overlay of either potential survey grids or points in sampling design or classification of existing survey pints has some very real problems. I downloaded this map fro the LCC encompassing my refuge and found that there is a substantial error rate in the classification. Several mapped cover types at any level of the hierarchy don't even exist on the refuge and several areas mapped with cover classes that do occur in the area are misclassified. For example good portions of the refuge are mapped as big sagebrush types. this species does not occur on the refuge and never has. It also mapped many areas as a mixed conifer type. This this cover type does not occur here. Not a single grid was mapped as emergent vegetation although there are many blocks of this cover type in refuge wetland basins. This cover type has been consistently mapped as a forest cover type. The only wetland cover type mapped on the refuge is freshwater/open water habitat on the refuge.
INT - 5	NA	NA	General Comment	The resolution is also entirely too coarse for many of the small rare habitats on the refuge such as vernal pools and aspen thickets. If a refuge is going to use this system for survey design, they need to have a refuge specific mapping done using this classification at a much finer scale. The classification system is workable but the existing product at least at our scale is unusable.

