

T
BOSTON PUBLIC LIBRARY



3 9999 06317 784 2

239

SUMMARY OF FOREIGN GAME BIRD LIBERATIONS, 1969-78

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Special Scientific Report—Wildlife No. 239

Library of Congress Cataloging in Publication Data

Banks, Richard C., 1940-

Summary of foreign game bird liberations, 1969-78.

(Special scientific report—wildlife ; no. 239)

1. Game and game-birds—United States. 2. Animal introduction—United States. I. Title. II. Title: Foreign game bird liberations, 1969-78. III. Title: Game bird liberations, 1969-78. IV. Series.

SK361.A256	no. 239	639.9' 79' 0973s	81-I5213
		[333.95' 8]	AACR2

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402

NOTE: Use of trade names does not imply U.S. Government endorsement of commercial products.

SUMMARY OF FOREIGN GAME BIRD LIBERATIONS, 1969-78

By Richard C. Banks



**UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE**

Special Scientific Report—Wildlife No. 239

Washington, D.C. • 1981

Summary of Foreign Game Bird Liberations, 1969-78

by

Richard C. Banks

U.S. Fish and Wildlife Service
Denver Wildlife Research Center
National Museum of Natural History
Washington, D.C. 20560

Abstract

This compilation summarizes releases of exotic game birds into the United States by 23 States, 1969-78. The 32 entries of taxonomic units include 6 species (and 1 additional subspecies) of tinamous (family Tinamidae) and 13 species (and 12 additional subspecies or hybrid combinations) of partridges and pheasants (family Phasianidae). Twelve entries are of forms of the pheasant *Phasianus colchicus*.

The Foreign Game Importation Program (FGIP) of the U.S. Fish and Wildlife Service was discontinued in 1970. Before termination of FGIP, three compilations of propagation and release activities, summarizing the work of the participating States through 1968, were published (Bump and Bohl 1964; Chambers 1966; Bohl and Bump 1970). At the time of termination, some of the participating States still held birds obtained under the auspices of FGIP, and releases of these birds or their progeny continued for several years. In view of widespread ecological concern about the introduction and establishment of exotic wildlife in the United States, as expressed in the President's Executive Order No. 11987 (24 May 1977), the Service decided to gather information on the release of exotic game birds after 1968.

In December 1978, letters were sent from the Regional Offices of the U.S. Fish and Wildlife Service to the appropriate conservation agencies of the States (including Guam) that apparently still had exotic game birds on hand at the time of the last summary of activities (Bohl and Bump 1970). The States were asked to provide information on releases from 1969 on. Five States—Arkansas, Guam, Hawaii, Pennsylvania, and Tennessee—responded that release activities were terminated before 1969. Twenty-three States (Alabama, Arizona, California, Florida, Georgia, Idaho, Indiana, Iowa, Kentucky, Louisiana, Maryland, Missouri, Nebraska, Nevada, New Mexico, New York, Oklahoma, Oregon, South Carolina, Texas, Utah, Virginia, and Washington) provided information on releases, which forms the body of this report (Table 1).

The list includes information on 19 species and 13 additional subspecies or hybrid combinations, for a total of 32 taxonomic entries. Six of the species are tinamous (family Tinamidae); the others are partridges and pheasants (family Phasianidae). Subspecies and subspecific hybrid combinations of the pheasant *Phasianus colchicus* account for 12 of the entries. The names used are, in general, those provided by the States, although some standardization was necessary.

Certain limitations are inherent in the methods used to acquire the information presented here. Only States that had recently and actively cooperated with the FGIP were queried. Other States without a relationship to FGIP may have released exotic game birds also. Not all the birds reported here as having been released were necessarily obtained initially through the Program. Thus, this cannot be considered either as a terminal report of FGIP or as a complete list of releases or introductions.

Another qualification of this report relates to the "Results" of the releases. Following the format of the earlier compilations, these were generally reported as "Results to Date." Much of the information submitted under this heading was old when submitted, and it has aged further during the seemingly interminable compilation. Nonetheless, one receives the impression that there is regrettably little follow-up of releases or introductions.

A few minor taxonomic problems arose in the compilation of this report. Some States reported the release of (Japanese) Green Pheasants with the scientific name *Phasianus versicolor*, giving the

subspecies (if noted) as *robustipes*. I have listed these as Green Pheasant, *Phasianus colchicus robustipes*, recognizing the green pheasant group as only subspecifically, rather than specifically, distinct from the ring-necked pheasant, which also includes the white-winged and black-necked populations. This is the treatment followed in the earlier FGIP compilations; I mention it here because it varies from the States' listings and from the treatment in some major taxonomic works (e.g., Vaurie 1965).

The reverse of this problem arose in listing some of the partridges of the genus *Allectoris*. States variously reported "Chukar" partridges as *A. graeca* or *A. chukar*, with a variety of subspecific designations including *A. g. chukar*. Watson (1962) has shown that the rock partridge, *Alectoris graeca*, and the chukar, *A. chukar*, are distinct species. I have listed all reported under the name Chukar because subspecific names used by the States (either scientific or English) indicated affinity to that species and because that form is the one that has historically been of greater importance in importation and release.

That taxonomic problems still exist in a group of such economic importance and of such historical interest as gallinaceous game birds may surprise anyone but a taxonomist. Those problems mentioned may serve as a reminder that others may still exist—including, no doubt, some that are not even known. This works out to be a neatly contrived (but decades late) lead-in for a plea for specimen documentation of exotic birds released into North American ecosystems. Previously accepted specific or subspecific limits may be found to be erroneous, and names may change, so that what we are working with

one day may go by a different name the next. Unless accurate identifications can be established by specimen identification, one is denied access to the appropriate body of literature that may yield the secrets of proper management, even of success or failure of an introduction (see Banks 1979).

Acknowledgments

I appreciate the cooperation of representatives of the agencies of the various States in providing the information compiled in this report. Duncan MacDonald served as an advisor in the early stages of the project.

References

- Banks, R. C., compiler. 1979. Museum studies and wildlife management. National Fish and Wildlife Laboratory, U.S. Fish and Wildlife Service, Washington, D.C. 297 pp.
- Bohl, W. H., and G. Bump. 1970. Summary of foreign game bird liberations 1960 to 1968 and propagation 1966 to 1968. U.S. Fish Wildl. Serv., Spec. Sci. Rep.—Wildl. 130. 61 pp.
- Bump, G., and W. H. Bohl. 1964. Summary of foreign game bird propagation and liberations 1960-1963. U.S. Fish Wildl. Serv., Spec. Sci. Rep.—Wildl. 80. 48 pp.
- Chambers, G. D. 1966. Summary of foreign game bird propagation 1965, and liberations 1960-1965. U.S. Fish Wildl. Serv., Spec. Sci. Rep.—Wildl. 80, Suppl.
- Vaurie, C. 1965. The birds of the Palearctic fauna. Non-Passeriformes. H.F. & G. Witherby, Ltd., London. 763 pp.
- Watson, G. E. 1962. Sympatry in Palearctic *Alectoris* partridges. *Evolution* 16:11-19.

Table 1. Summary of foreign game bird releases and results.

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Red-winged Tinamou (<i>Rhynchotus rufescens</i>)						
Alabama						
1970	80	F	D	Mar	Houston County	Observed brood of 4 young. All disappeared second year
1971	30	F	D	Sep	Greene County	Disappeared
Chilean Tinamou (<i>Nothoprocta perdicaria sanborni</i>)						
Washington						
1971	95	F			Clark County	
1972	264				Clallam County	
	332				Clark County	
	83				Pacific County	
	100				Snohomish County	
	680			Jul	Lewis and Thurston Counties	Some survival in Lewis County
1973	100		G	Jul	Snohomish County	No winter survival
1976	25			Apr	Dallesport, Klickitat County	Some winter survival; nesting, Sep
	90			Jun	Flaming Geyser Park, King Co.	
	59			Jun	Auburn, Pierce Co.	
	799			Apr-Jun	Lopez Island, San Juan County	Young reported Aug-Oct
	112			Jul	Big Ditch area, Snohomish Co.	
	399			Apr-May	Heisson-Battleground Lake, Clark Co.	
	239			Aug	" "	
	240			Apr-May	Ridgefield, Clark Co.	
	190			Apr-May	Woodland Bottoms, Cowlitz County	
	119			Aug	" "	
	149			Apr-May	Adna, Lewis County	
	118			Apr-May	Forest-Napavine Road, Lewis County	
	390			Apr-Jun	Lincoln Creek, Lewis County	Brood observed, Jul
	114			Sep	" "	
	150			Jun	North Newaukum, Lewis County	
	100			Apr	Bingen, Klickitat Co.	Broods observed, Aug
	75			Apr	Underwood, Skamania County	
	568			Apr-Jul	Dungeness Recreation Area, Clallam Co.	Nesting reported, June
	90			Jun	Happy Valley, Clallam Co.	
	305			Apr-May	Bangor Annex, Kitsap County	Broods reported, June
	80			Jul	" "	
	30			May	East Olympia, Thurston County	
	11			Jul	" "	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W-wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Chilean Tinamou (Cont'd.)						
Washington (Cont'd.)						
1977	420			Apr	Whidbey Island, Island County	
	80			May	Flaming Geyser Park, King County	
	240			May	Smith Brothers' Farm, King County	
	629			Apr,May	Lopez Island, San Juan County	
	253			Jul	" "	
	15			Jul	Bayview, Skagit Co.	
	536			Apr-May	Hession-Battleground Lake, Clark County	Broods reported, May and July
	210			Jul	" "	
	240			May	Ridgefield, Clark Co.	
	477			May-Jun	Woodland Bottoms, Cowlitz County	
	120			Apr	Bingen, Klickitat Co.	
	60			Apr	Dallesport, Klickitat County	
	90			Apr	Forest-Napavine Road, Lewis County	
	30			Jun	" "	
	810			Apr-Jun	Lincoln Creek, Lewis Co.	
	210			Apr	North Newaukum, Lewis Co.	
	360			Apr-May	Dungeness Recreation Area, Clallam County	
	180			Jul	" "	
	180			Apr	Grays Marsh, Clallam Co.	
	89			Jul	" "	
	339			May	Elma, Grays Harbor Co.	
	180			Apr	Bangor Annex, Kitsap Co.	
	30			May	East Olympia, Thurston County	
	120			May	Oyster Bay, Thurston Co.	
Ornate Tinamou (<i>Nothoprocta ornata</i>)						
Oregon						
1969	49	F	D	Spring	Willamette Valley	} None
1970	29	F	D	Spring	" "	
1971	93	F	D	Spring	" "	
1972	111	F	D	Spring	" "	
1973	118	F	D	Spring	" "	
1974	73	F	D	Spring	" "	
Spotted Tinamou (<i>Nothura maculosa</i>)						
Alabama						
1972	39	F	D	Mar	Autauga County	Disappeared
Florida						
1971	36	W	G	May	Eastern Alachua Co.	No reproduction observed

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
<i>Pale Spotted Tinamou (Nothura darwini salvadori)</i>						
Colorado						
1969	124	F	D	Apr	Baca County	Disappeared
1970	40	F	D	May	" "	Disappeared
Oklahoma						
1970	641	F	D	May	Candian County	Unsuccessful
	238	F	D	Jun	Jefferson County	Unsuccessful
	121	F	D	Aug	" "	Unsuccessful
<i>Crested Tinamou (Eudromia elegans)</i>						
Nebraska						
1971	256	F	D		Chase and Frontier Counties	Failure
<i>Pale Crested Tinamou (Eudromia elegans alida)</i>						
California						
1968	55	F	D	Jul	Inyo County	Disappeared after release
1970	162	F	D	Jul	" "	
<i>Seesee Partridge (Ammodramus psaltria)</i>						
Nevada						
1971	50	F	D	Apr	Lava Beds, Pershing County	} Some signs of initial establishment but re- sults inconclusive. Limited reproduction in the wild has been docu- mented.
1972	50	F	D	Mar	" "	
1973	36	F	D	May	" "	
1976	60	F	D	Apr	" "	
1971	52	F	D	Apr	Pilot Mountain, Mineral County	} Results inconclusive
1973	50	F	D	May	" "	
1975	53	F	D	Apr	" "	
1976	98	F	D	Oct	" "	
1971	50	F	D	Apr	Virginia Mountains, Storey County	Probable failure
1972	50	F	D	Mar	Fox Range, Washoe County	} Probable failure
1973	35	F	D	May	" "	
	50	F	D	May	Pinenut Range, Lyon County	Probable failure
1974	182	F	D	Mar	Seven Troughs Range, Pershing County	} Results inconclusive
1975	101	F	D	Mar	" "	
1975	100	F	D	Apr	Buffalo Hills, Washoe County	Probable failure

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Seesee Partridge (Cont'd.)						
Nevada (Cont'd.)						
1976	72	F	D	Apr	Silver Peak Range, Esmeralda County	} Results inconclusive
1977	72	F	D	Oct	" "	
1977	72	F	D	Oct	Seaman Range, Lincoln County	Results inconclusive
California						
1970-74	510	W,F	D	Dec	Kern and Fresno Counties	} Reproduction and survival in Fresno County; possible establishment.
Utah						
1976	31	F	G	Mar	Washington County	Failed
Himalayan Snowcock (<i>Tetraogallus himalayensis</i>)						
Nevada						
1970	66	F	D	Mar,Oct	Toquima Mountains, Nye County	Failure to establish
1970	70	F	D	Mar,Oct	Mount Grant, Mineral County	} Failure to establish
1972	30	F	D	Apr	" "	
1973	23	F	D	May	Toiyabe Mountains, Lander and Nye Cos;	} Results inconclusive; probably failed to establish.
1974	46	F	D	Apr	" "	
1975	22	F	D	Apr	" "	
1972	86	F	D	Apr	Ruby Mountains, Elko County	} Limited population establishment appears probable. Reproduction in the wild has been documented.
1973	56	F	D	May	" "	
1974	91	F	D	Apr	" "	
1976	386	F	D	Apr,Jun,Sep	" "	
1977	256	F	D	Mar,Sep,Oct	" "	
1978	382	F	D	Sep	" "	
Chukar (<i>Alectoris chukar</i>)						
California						
1960-69	7,845	W	D	Aug-Sep	Kern, Madera, Fresno Stanislaus, Mariposa, San Diego, Lassen, Tehama, and Monterey Counties	} Established; first hunting season 1954. These stocking areas were of sub-marginal habitats and failed to contribute to the already established population.

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Chukar (Cont'd.)						
Nebraska						
1969	720	F	D	Feb	Dawes County	Some reproduction reported 1969 and 1970. Introduction thought to be a failure at most release sites. Some birds reported in Banner and Morrill Counties during November, 1978 by local conservation officers. Sporadic reports in same region by hunters.
	1,509	F	D	Mar	Sheridan, Sioux, Banner, and Scotts Bluff Counties	
	974	F	D	Jul	Garden, Keith, Phelps, and Sheridan Cos.	
	1,477	F	D	Aug	Hooker and Sheridan Counties	
	1,307	F	D	Sep	Sheridan and Thomas Counties	
1970	702	F	D	Mar	Scotts Bluff County	
	1,400	F	D	Apr	Cherry and Sheridan Counties	
	963	F	D	Jun	Cherry, Garden, Keith, and Phelps Counties	
	1,392	F	D	Aug	Custer and Garfield Counties	
	2,300	F	D	Aug	" "	
	1,260	F	D	Oct	Boyd and Valley Cos.	
Washington						
1969	150	F	D		Benton County	Birds released in 1969 were in areas suffering severe loss in winter 1968-69. Most were released in May, July and August.
	926	F			Chelan County	
	1,446	F			Douglas County	
	177	F			Grant County	
	1,546	F			Kittitas County	
	113	F			Lincoln County	
	2,480	F			Okanagan County	
	1,070	F			Yakima County	
1970	100	F			Benton County	
	180	F			Chelan County	
	160	F			Douglas County	
	81	F			Ferry County	
	460	F			Grant County	
	576	F			Kittitas County	
	114	F			Lincoln County	
	1,160	F			Okanagan County	
	150	F			San Juan County	
	31	F			Whitman County	
	809	F			Yakima County	
1971	120	F			Douglas County	Some 1970 birds released in regulated hunting areas for immediate harvest.
	500	F			Kittitas County	
	359	F			Lincoln County	
	2,780	F			Okanagan County	
	20	F			Chelan County	
	100	F			Benton County	
	500	F			Grant County	
	448	F			Whitman County	
	294	F			Yakima County	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Chukar (Cont'd.)						
Washington (Cont'd.)						
1972	100	F			Benton County	195 birds in 1972 were under-the-gun plants on public shooting areas; remainder released in spring and summer
	75	F			Chelan County	
	445	F			Douglas County	
	15	F			Garfield County	
	285	F			Kittitas County	
	44	F			Lewis County	
	1,306	F			Okanagan County	
	200	F			Skamania County	
	145	F			Walla Walla County	
	78	F			Whitman County	
	1,029	F			Yakima County	2,691 birds planted under-the-gun on shooting areas; rest released in spring and summer
1974	7,799	F			Statewide	
1975	1,490	F			"	
1976-77	13,990	F			"	11,880 released in hunting season on public shooting areas.
1977-78	15,304	F			"	12,984 were released on public shooting areas during hunting season
Spanish Red-legged Partridge (<i>Alectoris rufa hispanica</i>)						
California						
1969	450	F	D	Feb	Madera, Tulare and El Dorado Counties	No survival or reproduction recorded. Birds disappeared within a month. Birds failed to become established.
1970	470	F	D	Feb	Glenn and Tulare Cos.	
1971	720	F	D	Feb	Yolo County	
1972	1,276	F	D	Feb	Glenn, Colusa, Tulare, and Placer Cos.	
1973	198	F	D	Feb	Placer County	
1974	139	F	D	Feb	Fresno County	
French Red-legged Partridge (<i>Alectoris rufa rufa</i>)						
California						
1969	1,566	F	D	Feb	El Dorado and Nevada Counties	Survival good for 2 or 3 years. Reproduction reported for several years. Birds disappeared after 5 years. Failed to become established.
1970	486	F	D	Feb	Nevada County	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
French Red-legged Partridge (Cont'd.)						
Idaho						
1972	90	F	D	Mar	SW Idaho	Population established but not expanding } Unsuccessful } Unknown } Unknown
1974	75	F	D	Mar	"	
1975	35	F	D	Mar	"	
1976	20	F	D	Mar	N Idaho	
1977	40	F	D	Mar	SW Idaho	
1978	70	F	D	Mar	"	
Washington						
1969	200	F		Mar	Benton County	} Survival and reproduction } } Some broods noted, but population declines without restocking
	400	F		Mar	Franklin County	
	227	F		May	Kittitas County	
1970	226	F			" "	
1971	174	F			" "	
1972	85	F			" "	
1973	350	F		Aug	" "	
1974	525	F		Nov-Dec	" "	
	120	F		Nov	Yakima County	
1975	25	F		May	Kittitas County	
Black Francolin (<i>Francolinus francolinus asiaticus</i>)						
California						
1970	324	F	D	Jun	Butte County	Reproduction noted on the Gray Lodge Management area for 5 or 6 years; all birds disappeared. Failed to become established
1971	873	F	D	Jun	Butte and Colusa Counties	
1973-74	435	F	D	Mar	Colusa and Fresno Counties	
Louisiana						
1969	257	F	D	Oct	Lake Charles	Sightings occasionally made; unlikely that a stable breeding population exists
1970-71	530	F	D	Sep-Oct, Dec, Mar	"	
1971	8	W	D	Nov	Lake Arthur	Birds seen and heard in area. Very possible that breeding population developing. Continued close observation will be made.
1972	24	W	D	Feb	" "	
1973	10	W	D	Feb	" "	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
<i>Gray Francolin (Francolinus pondicerianus interpositus)</i>						
California						
1969	288	F	D	Feb	Fresno and Kern Cos.	} Birds dispersed rapidly. No reproduction noted. Failed to become established.
1970	697	F	D	Feb	Kings, Fresno, and Kern Counties	
1971	588	F	D	Feb	Kings and Colusa Cos.	
1972-75	406	F	D	Feb	Colusa County	
<i>Eckel's Francolin (Francolinus erekelii)</i>						
Washington						
1969	64				Klickitat County	Birds dispersed and disappeared
<i>Gray Partridge (Perdix perdix)</i>						
Colorado						
1970	674	F	D	Apr	Moffat County	} Disappeared
	49	F	D	Apr	Sedgwick County	
	62	F	D	May	Larimer County	
1971	286	F	D	Apr	Alamosa County	
	200	F	D	Apr	Conejos County	
	169	F	D	Apr	Saguache County	
1972	103	F	D	Apr	Alamosa County	
	162	F	D	Apr	Conejos County	
	265	F	D	Apr	Saguache County	
	86	F	D	Jul	Conejos County	
Iowa						
1969	442	F	D	Aug-Sep	Cass County	} Isolated reports of birds in four southwestern counties by 1978
1970	265	F	G	Sep	Shelby County	
1971	484	F	G	Mar-Oct	Shelby County	
1972	264	F	G	Mar	Shelby County	
Nebraska						
1969	67	Alberta, Canada	D		Dawes and Frontier Counties	Some reproduction at each release site during 1969. Two brood sightings in Dawes County, 1970. Introduction probably a failure
Oregon						
1969	133	F	D	Spring	Willamette Valley	} None
1970	72	F	D	Spring	" "	
1971	76	F	D	Spring	" "	
	18	F	D	Summer	" "	
1972	50	F	D	Spring	" "	
1973	107	F	D	Spring	" "	
1974	123	F	D	Spring	" "	
1975	56	F	D	Spring	" "	
1976	56	F	D	Spring	" "	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Gray Partridge (Cont'd.)						
Washington						
1969	77	F		Jun	Douglas County	} Attempt to upgrade wild stock; not much change reported
	20	F		Apr	Kittitas County	
	25	F		Mar	Lewis County	
	46	F		Apr	Okanagan County	
	50	F		Mar	Thurston County	
	30	F		Mar	Whitman County	
1970	54	F		Jun	Douglas County	
	55	F		Jun	Okanagan County	
	6	F		Mar	Whitman County	
1971	21	F			Douglas County	
	131	F			Lincoln County	
	151	F			Spokane County	
	65	F			Whitman County	
1972	170	F			Kittitas County	
	88	F			Yakima County	
1974	191	F			Benton County	
1975	50	F			Clallam County	
	25	F			Island County	
	84	F			Lincoln County	
	10	F			Stevens County	
Bamboo Partridge (<i>Bambusizola thoracica</i>)						
Oregon						
1969	238	F	D	Spring	Mid-coast	None
1970	429	F	D	Spring	Mid-coast	None
Washington						
1969	100			Apr	Clark County	
	100			Apr	Cowlitz County	
	46			Jun	Island County	
	100			Apr-Jun	King County	
	100				Kittitas County	
	50				Klickitat County	
	192			Apr-Jun	Skagit County	
	100				Snohomish County	
	184				Thurston County	
	50			Apr	Wahkiakum County	
	300			Apr	Yakima County	
1970	150			Mar	Franklin County	
	50			Apr	Pierce County	Disappeared
	100			Apr	Skagit County	Not successful
	50			May	Whitman County	No reproduction
	535			Mar	Yakima County	Broods sighted
1971	207				" "	
1972	548				" "	
1973	360			Mar-May	" "	Failed
1974	276				" "	
1975	132			May	" "	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Kalij Pheasant (<i>Lophura leucomekana hamiltoni</i>)						
Oregon						
1969	56	F	D	Spring	Willamette Valley	} Observed in limited number at some release sites for up to 3 years
1970	126	F	D	Spring	" "	
1971	166	F	D	Spring	" "	
1972	246	F	D	Spring	" "	
1973	248	F	D	Spring	" "	
1974	282	F	D	Spring	" "	
Virginia						
1969	91	F	D	Mar	Henry and Cumberland Counties	} Failure
1970	51	F	D	Apr	Henry County	
1971	145	F	D	Oct-May	Carroll County	
1972	42	F	D	Apr	Patrick County	
1973	105	F	D	Apr	Campbell and Patrick Counties	
1974	94	F	D	Nov	Bedford, Carroll, and Grayson Counties	
1976	32	F	D	Nov	Rappahannock County	
Washington						
1969	45	F		Mar	Lewis County	Survival
1970	136	F		Mar-Jun	Cowlitz County	Broods reported
	141	F		Mar	Klickitat County	Broods reported
1971	22	F			Cowlitz County	
	40	F			Klickitat County	
	80	F			Skamania County	
1972	89	F			Cowlitz County	
	5	F			Lewis County	
	50	F			Skamania County	
1974	50	F		Apr-May	Lewis County	
	186	F		Apr-May	Skamania County	
1975	32	F		Apr	" "	
Red Jungle Fowl (<i>Gallus gallus murghi</i>)						
Alabama						
1970	195	F	D	Aug	Cherokee County	} Disappeared
	150	F	D	Nov	Lamar County	
	100	F	D	Mar	" "	
	50	F	D	Mar	Calhoun County	
	197	F	D	Nov	Bibb County	
1971	125	F	D	Mar	Cherokee County	
	303	F	D	Sep	Bibb County	
1969	159	F	D	Apr	Lee County	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Red Jungle Fowl (Cont'd.)						
Georgia						
FY 66-67	135	F		Apr	Oaky Woods W.M.A., Houston County	
FY 66-67	125	F		Feb	Bowens Mill, Ben Hill County	
FY 68-69	135	F			" "	
	135	F			Waycross State Forest, Ware County	
	75	F			Clinch County	
FY 69-70	700	F			Bowens Mill, Ben Hill County	Stable at low popula- tion levels 1978
	100	F			Clinch County	Disappeared
	80	F			Waycross State Forest, Ware County	Disappeared
	150	F			Oaky Woods W.M.A., Houston County	Population stable or declining at very low level in 1978
South Carolina						
1970	100	F	D	Dec	Orangeburg County	} Disappeared
	50	F	D	Jan	Anderson County	
	100	F	D	Sep	Beaufort County	
	400	F	D	Dec	Chesterfield County	
1971	100	F	D	Jan	Bamberg County	
	100	F	D	Jan	Williamsburg County	
	100	F	D	Feb	Lexington County	
	100	F	D	Dec	Laurens County	
Green Pheasant (<i>Phasianus colchicus robustipes</i>)						
Idaho						
1969	1,180	F	D	Spring- Fall	Northern Idaho	} All releases failed; program discontinued 1974
1970	853	F	D	"	" "	
1971	1,706	F	D	"	" "	
1972	2,979	F	D	"	" "	
1973	2,071	F	D	"	" "	
1974	1,072	F	D	"	" "	
Kentucky						
1969-72	821	F	G	Spring	Wayne County	Reproduction observed. Little dispersion. Failed to establish.
Maryland						
1969	34			Mar	Allegany County	No reproduction known; disappeared
	43			Jul	Garrett County	
	12			Jul	Western Region	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Green Pheasant (Cont'd.)						
New York						
1968-71	285	F	D	Spring	Columbia	Unqualified failure by 1974-75; sightings, crowing cocks or bag checks indicated no birds or too few for transfer potential
	1,165	F	D	Spring	Dutchess	
	1,200	F	D	Spring	Essex	
	627	F	D	Spring	Fulton	
	769	F	D	Spring	Montgomery	
	197	F	D	Spring	Putnam	
	312	F	D	Spring	Kensselaer	
	2,025	F	D	Spring	Saratoga	
	2,402	F	D	Spring	Schoharie	
	813	F	D	Spring	Sullivan	
	1,161	F	D	Spring	Ulster-Orange	
	96	F	D	Spring	Washington	
Virginia						
1970	46	F	D	Apr	Accomac County	Stragglng failure
1971	158	F	D	Apr-Nov	Northampton County	
1973	106	F	D	Apr	Accomac County	
	74	F	D	Apr	Northampton County	
1974	33	F	D	Apr	Mathews County	
Washington						
1969	1,522	F		Mar-May	Lewis County	Survival and production; hybridize readily with ring-necks.
	300	F		Apr	Pierce County	Some 1969-70 releases were on public hunting areas.
	365	F		Apr	Grays Harbor County	
1970	60	F		Mar	Clallam County	
	50	F		Apr	Clark County	
	250	F		Mar	Grays Harbor County	
	200	F			Lewis County	
	595	F		Apr-Jun	Pierce County	
	50	F		Apr	Skamania County	
	235	F		Apr	Thurston County	
	300	F		Apr	Wahkiakum County	
1971	100	F			Clark County	
	200	F			Grays Harbor County	
	180	F			Lewis County	
	100	F			Pacific County	
	290	F			Pierce County	
	110	F			Thurston County	
	325	F			Wahkiakum County	
1972	450	F			Lewis County	370 birds released on regulated hunting areas in season; rest released in spring and summer.
	352	F			Pierce County	
	5	F			Stevens County	
						305 of the 1972 releases were "under-the-gun" in public shooting areas.

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results	
Green Pheasant (Cont'd.)							
Washington (Cont'd.)							
1973	80	F		Fall	Pierce County	Under-the-gun	
	160	F		Fall	Wahkiakum County	} 120 of the 1974-75 releases were planted under-the-gun on public shooting areas.	
1974	245	F		Nov	Wahkiakum County		
1975	61	F		Mar	Island County		
	34	F		Mar	Skagit County		
	175			May	Wahkiakum County		
White-winged Pheasant (<i>Phasianus colchicus bianchi</i>)							
Arizona							
1969	716	F	D	Jan	Safford Valley	Local population established	
	256	F	D	Jan	Duncan vicinity	} Very local population	
1970	255	F	D	Jan	" "		
	237	F	D	Jan	San Pedro Valley (near Redington)	Disappeared	
	138	F	D	Apr	Springerville vicinity	Disappeared	
California							
1969	598	F	D	Feb	Kern County	} Limited reproduction Mixed with ringnecks in area. Small established populations.	
1970	450	F	D	Feb	Kern County		
1971	360	F	D	Feb	Kern and San Luis Obispo Counties		
1972	630	F	D	Feb	" "		
1973	580	F	D	Feb	San Luis Obispo and Tulare Counties		
1974	599	F	D	Feb	Kern County		
1975	716	F	D	Feb	Kern County		
1976	320	F	D	Feb	Kern County		
Colorado							
1971	325	Calif.	D	Mar	Mesa County		Disappeared
1972	153	Calif.	D	Mar	Garfield County	Disappeared	
Oklahoma							
1970	438	F	D	Jul	Greer County	} Unsuccessful	
	173	F	D	Aug	Roger Mills Co.		
	177	F	D	Aug	Greer County		
	50	F	D	Oct	Greer County		
Texas							
1969	100				Hale County		
	100				Lynn County		
	100				Tom Green County		
1970	50				Cottle County		
	150				Lynn County		
	376				Terry County		

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=Wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
White-winged Pheasant (Cont'd.)						
Texas (Cont'd.)						
1971	150				Cottle County	
	300				Terry County	
	570				Hudspeth County	
	940				Reeves County	
1972	840				" "	
	560				Hudspeth County	
	525				Terry County	
1973	250				Cottle County	
	100				Dickens County	
	664				Reeves County	
	500				Hudspeth County	
	200				Oldham and Potter Cos.	
Utah						
1970	120	F	D	Jun	Hanksville, Wayne Co.	Success masked by interbreeding with resident ring-necks. Total populations higher than before.
	104	F	D	Dec	St. George, Washington County	
1971	25	F	D	Apr	Hanksville, Wayne Co.	
	224	F	D	Jun	St. George, Washington County	
1972	170	F	D	Jun	Bluff, San Juan Co.	
1973	137	F	D	Mar	St. George, Washington County	
	440	F	D	Jul	Bluff, San Juan Co.	
	200	F	D	Jul	Hanksville, Wayne Co.	
	200	F	D	Jul	Washington County	
1974	153	F	D	Dec	" "	
1975	239	F	D	Jun	" "	
1975	483	F	D	Sep	Escalante, Garfield County	
	491	F	D	Sep	Hurricane, Washington County	
White-winged X Ring-necked Pheasant (<i>Phasianus colchicus blanchii</i> X <i>P. p. torquatus</i>)						
Oklahoma						
1970	838	F	D	Jul	Greer County	Unsuccessful
	286	F	D	Aug	Roger Mills Co.	Unsuccessful
Korean Ring-necked Pheasant (<i>Phasianus colchicus karpowi</i>)						
Indiana						
1964	317				Hancock,	Some dispersal and production followed by decline; failed.
1965	192				Johnson,	
1966	254				Shelby,	
1968	398				Rush,	
1974	1,606				and Fayette	
1975	8,832				Counties	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results	
Korean Ring-necked Pheasant (Cont'd.)							
Kentucky							
1966	93	F	D	Spring	Hancock County	} Reproduction observed, some dispersion. Mortality greater than reproduction. Failed to establish.	
	153	F	D	Fall	" "		
1967	68	F	D	Spring	" "		
	245	F	D	Fall	" "		
1968	310	F	D	Spring	" "		
	246	F	D	Fall	" "		
1969	136	F	D	Spring	" "		
	147	F	D	Fall	" "		
1970	93	F	D	Spring	" "		
	138	F	D	Fall	Webster County		} Reproduction observed, some dispersion. Mortality greater than reproduction. Failed to establish.
1970	79	F	D	Spring	" "		
	683	F	D	Fall	" "		
1971	228	F	D	Spring	" "		
	381	F	D	Fall	" "		
1972	250	F	D	Spring	" "		
Missouri							
1969-71	1,550	F	G	Spring-Fall	Malta Bend	Promising	
New York							
1968-71	857	F	D	Spring	Allegany County	} Failure	
	1,200	F	D	Spring	Broome-Tompkins-Cortland Counties		
	118	F	D	Spring	Cattaraugus Co.		
	773	F	D	Spring	Chautauqua Co.		
	600	F	D	Spring	Chemung-Schuyler Cos.		
	1,159	F	D	Spring	Chenango County		
	410	F	D	Spring	Essex County		
	353	F	D	Spring	Jefferson County		
	600	F	D	Spring	Oswego County		
	149	F	D	Spring	St. Lawrence County		
	323	F	D	Spring	Seneca County		
	1,095	F	D	Spring	Tioga County		
	2,944	F	D	Spring	Wyoming County		
	1,854	F	D	Spring	Franklin County		
						Small breeding population until 1975. Hunting opened in 1977. Failure delayed in Franklin County.	
Texas							
1968	200				Bowie County		
	150				Fannin County		
1969	495				Bowie County		
	225				Fannin County		
	200				Lamar County		

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Korean Ring-necked Pheasant (Cont'd.)						
Texas (Cont'd.)						
1970	200				Bowie County	
	160				Fannin County	
	200				Lamar County	
	400				Wilbarger County	
1971	200				Lamar County	
	200				Wilbarger County	
	450				Waller County	
1972	716				Waller County	
	585				Wilbarger County	
1973	1,015				Waller County	
Virginia						
1973	50	F	D	Nov	King George and Richmond Counties	} Stragglng failure
1974	166	F	D	Nov	York County	
1976	210	F	D	Nov	August, Clarke, and Frederick Counties	
Black-necked Pheasant (<i>Phasianus colchicus persicus</i>)						
Oklahoma						
1969	101	F	D	Oct	Hughes County	} Unsuccessful
1970	148	F	D	Jul	LeFlore County	
	106	F	D	Jul	Hughes County	
	176	F	D	Aug	LeFlore County	
	62	F	D	Aug	Hughes County	
	164	F	D	Sep	Hughes County	
Black-necked X Ring-necked Pheasant (<i>Phasianus colchicus persicus</i> X <i>P. c. torquatus</i>)						
Oklahoma						
1969	264	F	D	Jul	LeFlore County	} Unsuccessful
	20	F	D	Jul	Johnston County	
	347	F	D	Aug	Hughes County	
	140	F	D	Sep	" "	
	76	F	D	Oct	" "	
Texas						
1966	325				Brazoria County	
1967	200				" "	
1968	631				" "	
	200				Chambers County	
	150				Fort Bend County	
	295				Liberty County	
1969	365				Brazoria County	
	200				Chambers County	
	50				Harris County	
	50				Houston County	
	200				Liberty County	
1970	200				Brazoria County	
	400				Chambers County	
	260				Liberty County	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Black-necked X Ring-necked Pheasant (Cont'd.)						
Texas (Cont'd.)						
1971	695				Chambers County	
	1,655				Liberty County	
1972	420				Chambers County	
	940				Liberty County	
1973	330				Jefferson County	
	330				Liberty County	
	141				Chambers County	
1974	2,015				Jefferson County	
	200				Liberty County	
	400				Chambers County	
1975	2,380				Jefferson County	
	1,010				Liberty County	
	440				Chambers County	
1976	1,800				Jefferson County	
	400				Liberty County	
	400				Chambers County	
	800				Colorado County	
	400				Williamson County	
	230				Navarro County	
1977	1,200				Colorado County	
	500				Jefferson County	
	900				Lavaca County	
	400				Liberty County	
	400				Navarro County	
	400				Williamson County	
1978	400				Caldwell County	
	1,200				Colorado County	
	400				Jefferson County	
	800				Lavaca County	
	400				Liberty County	
	400				Navarro County	
	400				San Patricio County	
	400				Williamson County	
	160				Liberty County	
	240				Jefferson & Liberty Counties	
	300				Jefferson County (Burrell Ranch)	
	10				Liberty County	

Iranian Black-necked Pheasant (*Phasianus colchicus persicus* and/or *talischensis*)

Alabama						
1969	81	F	D	Apr	Morgan County	Disappeared within two years

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Iranian Black-necked Pheasant (Cont'd.)						
Virginia						
1969	2,915	F	D	Apr, Sep- Oct	Statewide (21 counties)	} Stragglng failure
1970	1,503	F	D	Apr, Sep- Oct	Statewide (16 counties)	
1971	5,005	F	D	Apr, Sep- Oct	Statewide (26 counties)	
1972	706	F	D	Apr, Sep- Oct	Statewide (10 counties)	
1973	1,065	F	D	Apr, Sep- Oct	Statewide (13 counties)	
1974	268	F	D	Oct	Augusta, Frederick and Shenandoah Counties	
1975	8	F	D	Nov	Hanover and York Cos.	
1976	590	F	D	Nov	Augusta, Clarke, and Frederick Counties	
Black-necked Pheasant (<i>Phasianus colchicus talischensis</i>)						
Oklahoma						
1969	201	F	D	Sep	Wagoner-Tulsa Cos.	} Unsuccessful
1970	707	F	D	Jul	Wagoner County	
	262	F	D	Aug	Delaware County	
	316	F	D	Aug	Wagoner County	
	207	F	D	Aug	Muskogee-Wagoner Cos.	
	283	F	D	Sep	Cherokee-Wagoner Cos.	
Pheasant hybrids (<i>Phasianus colchicus talischensis</i> X <i>P. c. karpowi</i>)						
Missouri						
1964-71	2,989	F	G	Spring-Fall	LaMonte	Failure
Iranian X Chinese Ring-necked Pheasant (<i>Phasianus colchicus talischensis</i> X <i>P. c. torquatus</i>)						
Louisiana						
1978	50	Texas	D	Feb	Lake Arthur	Some reproduction observed in spring breeding season
Maryland						
1969	25			Apr	Washington County	} No reproduction; disappeared
	100			Jun	Frederick County	
	70			Jun	Howard and Montgomery Counties	
	118			Jul	Frederick, Howard and Montgomery Counties	
	770			Nov-Dec	Howard County (Hugg-Thomas)	} Stocked for hunting season
	730			Nov-Dec	Montgomery County (McKee-Beshers)	
	600			Nov-Dec	Washington County (Blair Valley)	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Iranian X Chinese Ring-necked Pheasant (Cont'd.)						
Maryland (Cont'd.)						
1970	69			Apr	Washington County (Blair Valley)	No reproduction known; disappeared
	15			Apr	Washington County (Seacrest Farm)	
	210			Apr	Montgomery County (Butz Farm)	
	775			Nov-Dec	Washington County (Blair Valley)	Stocked for hunting season
	670			Nov-Dec	Montgomery County (McKee-Beshers)	
	660			Nov-Dec	Howard County (Hugg-Thomas)	
1971	292			Mar	Montgomery County	
Oklahoma						
1969	234	F	D	Jul	Wagoner County	Unsuccessful
	180	F	D	Jul	Sequoyah-Muskogee-Cherokee Counties	
	222	F	D	Aug	Wagoner-Washington	
	480	F	D	Aug	Wagoner-Muskogee	
	178	F	D	Sep	Tulsa-Wagoner Cos.	
	221	F	D	Sep	Delaware-Muskogee-Wagoner Counties	
1970	592	F	D	Jul-Aug	Wagoner County	
	124	F	D	Jul	Muskogee County	
	107	F	D	Aug	Delaware County	
Western Iranian X Ring-necked Pheasant (<i>Phasianus colchicus talischensis</i> X <i>P. c. talischensis</i>)						
Indiana						
1964	147				Vigo, Sullivan, Greene, and Knox Counties	Unsuccessful
1965	25					
1966	1,175					
1967	510					
1968	447					
1969	1,072					
1970	2,113					
1971	1,124					
Ring-necked Pheasant (<i>Phasianus colchicus talischensis</i>)						
Iowa						
1969	2,820	F	D	Sep-Oct	Wappello, Keokuk, and Jefferson Counties	Substantial increase in pheasant population noted in all southeastern counties by 1978.
1970	2,725	F	D	Sep-Oct	Lee and Van Buren Cos.	
1971	2,858	F	D	Sep-Nov	Appanoose County	
1972	1,800	F	D	Sep-Oct	Davis County	
1973	1,748	F	D	Oct	Van Buren County	Results Unknown
1978	1,010	F	D	Oct-Jan	Webster and Worth Cos.	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results
Ring-necked Pheasant (Cont'd.)						
Louisiana 1978	50	Texas	D	Feb	Gueydan	Some reproduction observed in spring breeding season
Texas 1969- 71	493				Matagorda and Jackson Counties	
1974- 76	348				Wharton and Matagorda Counties	
1977	2,195 1,000				Carson and Gray Cos. Carson, Gray, and Knox Counties	
1978	1,075				Haskell, Knox, and Lynn Counties	
1978	133				Victoria and Matagorda Counties	
Reeves' Pheasant (<i>Syrnaticus reevesii</i>)						
Iowa 1969	389	F	D	Oct	Lucas County	No reproduction known
Washington 1969	50	F		Apr	Chelan County	} 204 male birds released experimentally on public hunting areas
	20	F			Ferry County	
	180	F		Apr	King County	
	55	F		Apr	Kittitas County	
	64	F			Lincoln County	
	95	F		Apr	Okanagan County	
	100	F		Apr	Pierce County	
	20	F			Stevens County	} Some survival, apparently no reproduction
	107	F		Jun	Whitman County	
1970	116	F			Asotin County	} Some birds in 1970 released on public hunting areas
	324	F			Columbia County	
	35	F			Ferry County	
	123	F			Garfield County	
	32	F			Lincoln County	
	32	F		Jan	Stevens County	
	48	F			Whitman County	
1971	1	F			Adams County	} 129 birds released in hunting season on regulated hunting areas; rest released in spring and summer
	9	F			Benton County	
	10	F			Ferry County	
	10	F			Franklin County	
	1	F			Garfield County	
	6	F			Grant County	
	15	F			King County	
	1	F			Kitsap County	
	15	F			Kittitas County	
	166	F			Lincoln County	
	12	F			Mason County	
	17	F			San Juan County	

Table 1. (Continued)

State and year	Number released	Source (F=farm; W=wild)	Direct(D) or gentle(G) release	Month of release	Area (Co.=County)	Results	
Reeves' Pheasant (Cont'd.)							
Washington (Cont'd.)							
1971	56	F			Spokane County	233 birds were under-the-gun plants in public shooting areas; rest released in spring and summer	
	80	F			Stevens County		
	2	F			Walla Walla		
	116	F			Whitman County		
	13	F			Yakima County		
1972	1	F			Asotin County		
	64	F			Ferry County		
	18	F			Franklin County		
	4	F			Grant County		
	131	F			Island County		
	18	F			King County		
	9	F			Kitsap County		
	6	F			Kittitas County		
	213	F			Klickitat County		
	24	F			Lincoln County		
	48	F			San Juan County		
	24	F			Stevens County		
	22	F			Walla Walla		
	24	F			Whitman County		
	17	F			Yakima County		
1973	129	F		Fall	Stevens, Ferry, Lincoln, Whitman, and Spokane Counties		Birds in 1973 were released for hunting purposes
	58	F		Fall	Whatcom, Island, and Skagit Counties		
	34	F		Fall	Pierce County		
	16	F		Fall	King County		
	2	F		Fall	Cowlitz County		
	7	F		Fall	Lewis County		
	11	F		Fall	Thurston County		
1974	6	F		Fall	Kitsap County	60 birds in 1974 released under the gun in public hunting areas.	
	156	F			Asotin County		
	27	F		Fall	Clallam County		
	71	F		Fall	Island County		
	30	F			San Juan County		
	8	F		Fall	Skagit County		
	20	F			Spokane County		
	67	F			Walla Walla		
	20	F		Fall	Whatcom County	94 released in hunting season	
1975	31	F		Apr	Island County		
	30	F		Apr	San Juan County		
	36	F		Apr	Clallum County	120 released in hunting season	
FY 1976-77	187	F			Island County		
FY 1977-78	221	F			" "		

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
EDITORIAL OFFICE
AYLESWORTH HALL, CSU
FORT COLLINS, COLORADO 80523

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF THE INTERIOR
INT 423



NOTE: Mailing lists are computerized. Please return address label with change of address.