

[MONTHLY SERVICE BULLETIN  
(WESTERN AUSTRALIA. FISHERIES

8(10) Oct 1959

DEPARTMENT OF PARKS AND WILDLIFE

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MONTHLY SERVICE BULLETIN

Vol. VIII, No 10.

October 1959.

STAFF NOTES.

The Director, Mr. A. J. Fraser, will attend the annual meeting of the Pemberton-Warren Trout Acclimatisation Society at Pemberton on Saturday evening, October 10. The following morning he will take the chair at the annual meeting of the Trout Acclimatisation Council of W.A. Technical Officer J. S. Simpson will also attend.

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The Research Officer, Mr. B. K. Bowen, and Mr. W. K. Cherrington, of Head Office, made a rush trip to Pemberton on September 10. They took with them 20,000 trout ova brought by air from the Trout Hatchery at Snob's Creek, Victoria, and made available by the Victorian Fisheries and Game Department on an exchange basis for experimental purposes.

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We welcome to the staff the following officers -

- \* Miss Yvonne Lauffer, who commenced duty at Head Office on August 4, 1959, vice Miss Cann, resigned.
- \* Mr. Norman Henry, who was appointed Assistant Inspector on August 24, 1959.
- \* Master Kevin Enright, who commenced on September 7 as Cadet Inspector.
- \* Mr. Dudley Gordon, appointed on September 21 as temporary Assistant Inspector.

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Miss Lauffer, who entered hospital on August 27 to undergo an emergent appendectomy, resumed duty after sick leave on September 21.

ANNUAL INSPECTORS' CONFERENCE.

In the September issue of this Bulletin, on pages 125 and 126, we published a brief summary of the proceedings on the opening day of the 16th Annual Conference of Inspectors. Hereunder is a summary of the reports and discussions of the two final days of the conference.

Fauna Section.

Fauna Warden S. W. Bowler outlined the patrols he had undertaken during the year in the South-West, Great Southern, Midlands, and Kimberley districts. He also reported highlights of tours of inspection of some of the islands of the Recherche Archipelago and when in company with the Fauna Protection Advisory Committee on its tour through the Great Southern, Esperance, Duke of Orleans Bay and Kalgoorlie Goldfields districts.

Reviewing the increase in policing activities brought about by the inception of the cage bird and pet food trades, Mr. Bowler said that the number of licenses issued had increased markedly compared with the previous twelve months. This referred particularly to bird trappers and dealers' export and import licenses. Mr. Bowler forecast that in the foreseeable future it would be necessary to introduce limits on the number of finches that might be taken by any trapper and to restrict the number of trappers who might operate. He considered that the present open season for kangaroos had enabled mass destruction methods to be adopted. This had reduced the numbers of these animals in some districts to such low proportions that he thought it would be many years before they would become a nuisance again. Before concluding his report, Mr. Bowler dealt with the number of his miscellaneous duties including co-operation of Honorary Wardens, bird banding activities and the nursing of giant petrels blown ashore during winter gales.

The Fauna Protection officer, Mr. Shugg briefly explained the administration of the Fauna Protection Act. He pointed out that in addition to the policing activities generally covered by the Fauna Warden, the Department was charged with ensuring that all possible steps be taken to conserve and preserve sections of our native fauna for economic, aesthetic and scientific purposes. He pointed out that it was generally accepted these days that only preservation of the habitat, and its maintainance in near-natural condition, could ensure the survival of the species.

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nesians, Malays and Chinese. Only 14 professional fishermen's licenses had been issued during the year, and poor fishing had been experienced. He attributed this to the hot weather experienced and the higher water temperatures which prevented fish from penetrating into Roebuck Bay. Indeed, the fish were so scarce that the fishermen were forced to give up fishing. Referring to the Pearls Pty. Ltd's pearl culturing venture at Kuri Bay, Mr. Baird reported that the first harvest had been successful and culture pearls of fine quality had been recovered. He said that while no definite valuation of the Australian cultured pearl had been decided, it was thought that the price for a top grade cultured pearl would be about one-third of the value of a good natural pearl. The Kuri Bay product was superior to the Japanese and was a lot larger - the Australian cultured pearl ranging in size from 50-90 grains, whereas the best Japanese pearl was about 40 grains.

Referring to the fauna patrol carried out during August and September with Warden S.W. Bowler, Mr. Baird said it had been a very interesting experience and a good deal of information had been obtained about the fauna of the Kimberley region. Unfortunately, he added, one of his strongest impressions was the "don't care" attitude of the majority of station owners towards the fauna, and their lack of hospitality. Mr. Baird concluded his address with the showing of selected slides on the pearling and pearl culture industries.

#### Research Section.

Mr. B. K. Bowen, Research officer, summarised the research projects his section had in hand. These were the set-net experiments being carried out in Mandurah waters, fertilisation of farm dams and limnological studies thereon, fertility and mortality rates in the trout hatcheries at Pemberton, and prawn and scallop testing at Exmouth Gulf and Shark Bay.

He then briefly described an ecological survey of Bernier and Dorre Islands, the first of its kind carried out under the auspices of the Department. The survey, he said, had been undertaken to give the Fauna Protection Advisory Committee information on the needs of the fauna of the island, so that it could make recommendations to the Minister in respect of an application to lease parts of the islands for tourist purposes. Mr. Bowen led the survey party, other members of which were Dr. W. D. L. Ride, Director, Dr. G. F. Mees, Curator of Birds, and Mr. A. M. Douglas, Entomologist, of the W.A. Museum; Mr. R. D. Royce, Senior Botanist, Department of Agriculture; and Mr. H. Tindale-

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Biscoe, Department of Zoology, University of W.A. The party was landed first on Dorre Island, and later on Bernier Island, having been transported from Carnarvon on the research vessel "Lancelin" under the command of Assistant Inspector D. Wright, with Inspector N.E. MacLaughlan as sailing master and Mr. C.R.C. Haines as mate. Mr. Bowen went on to show slides to illustrate the flora and fauna of the island, specimens of which proved to be most interesting, including some species believed to be new to science. He said that a complete report was being prepared and would be published in due course.

Captain H.C.W. Piesse outlined r.v. "Lancelin's" activities in prawn and scallop surveys of the waters of the nearer North-West, and Technical officer R. J. McKay showed slides and described the activities of commercial trawlers on the prawning grounds.

Technical officer L. G. Smith summarised the results of his year's activities in bream tagging, the set-net experiments at Mandurah and trout transport and liberation.

Technical officer J. S. Simpson outlined the survey work on farm dams.

#### Whaling.

Assistant Inspector D. Wright described operations at the Nor'West Whaling Co.'s station at Babbage Island, Carnarvon, in 1958. The season was in full swing by July 7, he said, with catches of from 7 to 19 whales a day. The best day's catch was 20 on July 10, and the best weekly catch was 120 for the week ended July 10. The whales were all in good condition, the blubber being up to 8" in thickness. Smaller whales approximately 35-38ft in length were found to be plentiful in the Shark Bay area, and their blubber and meat proved to be in excellent condition. In mid-August, Mr. Wright continued, the daily catches became smaller, and although blubber measurements were about the same, the quality deteriorated, becoming more fibrous. By the beginning of September, the catches of larger whales had dropped off, the catcher boats reporting numbers of cows with calves, and small whales of about 36 feet. By October 1 the weekly catch was very poor and a large number of the Station's staff was dismissed. By October 19, only an odd cow and calf were sighted, and the season officially closed on October 21.





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September, 1959.

STAFF NOTES.

The Minister for Fisheries (Mr. Hutchinson) visited Geraldton from August 28 to 30 and met representatives of the Geraldton Fishermen's Association and professional fishermen. He was accompanied by the Director, Mr. A.J. Fraser, and the Chief Clerk, Mr. B.R. Saville. The Under Secretary of the Department of Health, Mr. J.J. Devereux, and the Minister's secretary, Mr. J.R. Driscoll, were also in the party.

On Saturday morning, August 29, from the fore-deck of the crayfish carrier boat "Irus", the Minister reviewed a sail past by craft of the fishing fleet based at Geraldton. This was one of the many events organised in connection with the Geraldton Sunshine Festival.

\* \* \* \*

The Director, Mr. A.J. Fraser, will commence annual leave on September 7. He intends to re-visit Sydney and his old home at Petersham.

\* \* \* \*

The Chief Clerk, Mr. B.R. Saville, will commence one week's annual leave on September 3.

\* \* \* \*

Other officers to enjoy annual leave this month will be Technical Officers J.S. Simpson and R.J. McKay, who will commence leave on September 7 and 28, respectively.

\* \* \* \*

Inspector N.E. McLaughlan, of Shark Bay, will begin biennial leave on September 3. During his absence Assistant Inspector H.D. Kavanagh will be in charge of the district.

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Inspector A.V. Green, of Mandurah, commenced annual leave on August 24. Until Mr. Green's return to duty on September 14, Relieving Inspector G.C. Jeffery will be in charge of the Mandurah district.

\* \* \* \*

The Fauna Warden, Mr. S.W. Bowler, also commenced annual leave on August 24.

\* \* \* \*

The Research Officer, Mr. B.K. Bowen, has received approval to take two weeks' annual leave on October 12, followed by three months' long service leave and one month's study leave. He will visit kindred departments in New Zealand, New South Wales and Victoria and will attend the inaugural meeting of the Australian Waterfowl Committee to be held in Melbourne next February.

Congratulations are extended to Mr. and Mrs. B.K. Bowen on the birth of their second daughter, Evelyn Ann, at the King Edward Memorial Hospital, on August 18.

\* \* \* \*

The Fauna Protection Officer, Mr. H.B. Shugg, will also commence annual leave on October 12.

#### MINISTER ENTERTAINS VISITORS

To give senior officers of the Department and others the opportunity of meeting colleagues and co-workers from the eastern States, who were to attend the thirty-fourth congress of the Australian and New Zealand Association for the Advancement of Science, the Minister for Fisheries (Mr. Hutchinson) gave a buffet dinner at the Palace Hotel on August 24. Visitors from other States included Drs. J.M. Thomson, and A.G. Nicholls, Principal Research Officers, Division of Fisheries and Oceanography, C.S.I.R.O., of Cronulla, N.S.W. and Hobart, Tasmania, respectively; Messrs. J. McNally, Deputy Director, D.D. Lynch, Senior Research Officer, and D.C. Woodland and J. Ling, Research Officers, of the Victorian Fisheries and Game Department; Messrs. F.N. Ratcliffe, Officer-in-Charge, H.J. Frith, Principal Research

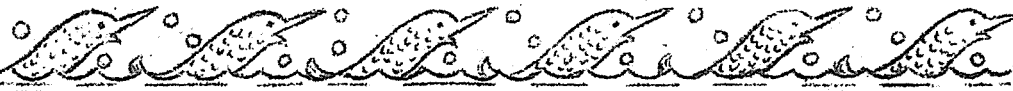
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Vol. VIII, No. 7

July, 1959.

STAFF NOTES

The Research Officer, Mr. B.K. Bowen, will lead a scientific team to Bernier and Dorre Islands during the month. The party will leave Perth for Carnarvon on July 11 and two days later will board the Lancelin for the trip across to the islands which are approximately 40 miles west of that port.

\* \* \* \*

Senior Inspector J.E. Munro will begin annual leave on July 13.

\* \* \* \*

Congratulations are the order of the day to the following officers -

- \* Mr. C.J. Seabrook, who was appointed Assistant Inspector, Classification G-VII-1/2, as from April 1, 1959. During the month Mr. Seabrook received notification that he had passed the examinations for, and been awarded, the Motor Engine Driver's Competency Certificate and Skipper's Certificate Grade 2.

A daughter, Joanne, was born to Mr. and Mrs. Seabrook on June 8.

- \* Mr. E.H. Barker, who was promoted to the position of Assistant Inspector, Classification G-VII-1/2, as from June 5.
- \* Cadet Inspector R.G. Emery, who was appointed to the permanent staff on June 5.

DUCK BAND RECOVERIES

As stated in the previous issue, hereunder are listed the recoveries of bands from grey teal and other species of wild ducks received this year -

Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
			<u>Grey Teal</u>		
4107	17/4/56	Yere Yere Stn. Dandaragan.	11/1/59	Moora Lakes	18 miles
3869	25/3/56	Wardering Lake, Woodanilling.	10/1/59	20 miles west of Woodanilling	10 "
4753	11/4/58	Near Murapin Lake, Woodanilling.	3/1/59	Casuarina swamp	30 "
1667	22/3/53	Big Bootine Swamp, Beermullah.	10/1/59	Rowles Lagoon, North-east of Kalgoorlie	310 "
4509	16/1/58	Karrinyup Lake, Wanneroo.	10/1/59	Goomalling	75 "
4520	18/1/58	Karrinyup Lake, Wanneroo.	16/1/59	Spade Lake north of Beermullah	53 "
3957	27/3/56	Wardering Lake, Woodanilling.	21/12/58	3 miles south of Pinjarra	100 "
4172	7/12/56	Gundaring Lake, Wagin.	17/1/59	Behind Busselton Golf Club.	125 "
3923	26/3/56	Wardering Lake, Woodanilling.	20/1/59	Near Ora Banda	320 "
4369	7/11/57	Koomberkine Lake, Dowerin.	23/12/58	Mouth of Harvey River.	140 "

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Band No.	BANDING		RECOVERY		Distance Flown
	Date.	Place	Date	Place	
			<u>Gray Teal</u>		
4149	5/12/56	Gundaring Lake, Wagin.	18/1/59	Disused Dam 58 miles from Kalgoorlie on Kalgoorlie-Menzies Road.	315 miles
4557	24/1/58	Karrinyup Lake, Wanneroo.	28/1/59	Lake Mealup, Peel Inlet.	55 "
3110	2/12/54	Near Meckering	11/1/59	White Lake, Yealering.	75 "
3185	23/1/55	Yealering Lake, Wickepin.	11/1/59	Pool on Milgun Stn. Gascoyne River.	520 "
3022	23/11/54	Lake Mears, Brookton.	26/1/59	Avon River, 8 miles S.E. of Mt. Kokeby.	15 "
14911	7/1/59	Coolup.	9/1/59	Boggy Bay, Peel Inlet.	10 "
4403	14/11/57	Metcalf Lake, Dowerin.	11/10/58	Kalgoorlie.	270 "
4588	1/3/58	Karrinyup Lake, Wanneroo.	Band recd. 18/2/59. Date of recovery not known	Lakes 15 mls. south of Tambellup.	175 "
3894	28/3/56	Wardering Lake, Woodanilling.	14/2/59	Taarblin Lake, east Narrogin.	43 "
14928	3/2/59	Coolup.	22/2/59	18 mls. north of Capel.	55 "

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
			<u>Grey Teal</u>		
4102	15/4/56	Yathroo Stn. Dandaragan.	22/2/59	Gundaring Lake, Wagin.	203 mls.
3937	11/3/56	Wardering Lake, Woodanilling.	25/2/59	Wannamal Lakes.	180 "
14912	10/1/59	Coolup.	12/3/59	Wilson Inlet	180 "
4331	5/11/57	Koomberkine Lake, Dowerin.	14/3/59	Cook's Lake 2 mls. west of Moora.	67 "
14929	3/2/59	Coolup.	4/3/59	Coolup, Location 75.	
14919	15/1/59	Coolup.	30/3/59	Dookanooka Swamp. 16 mls. S.W. of Three Springs.	205 "
4577	27/2/58	Karrinyup Lake.	14/3/59	Marada Lake, 3 mls. N.W. of Moora.	82 "
3970	28/3/56	Wardering Lake, Woodanilling.	30/3/59	Toolibin Lake, East Narrogin.	45 "
4670	5/4/58	Near Murapin Lake, Woodanilling.	26/3/59	Red Lake, south of Kalgoorlie.	315 "
4243	5/2/57	Craigs Lake, Kewdale.	11/4/59	Toolibin Lake, East Narrogin.	120 "
4603	6/3/58	Yathroo Stn., Dandaragan.	4/4/59	Moora.	20 "

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
4402	15/11/57	Near Metcalf Lake, Dowerin.	19/4/59	Taarblin Lake, east Narrogin.	130 mls.
14753	24/2/59	Cape Riche	10/3/59	Cape Riche.	
2997	21/11/54	Lake Mears, Brookton.	19/4/59	Lake Brown, off Yealering.	30 "
4018	12/4/56	Yathroo Stn., Dandaragan.	20/4/59	Qualen Lake 10 miles N.W. of Dowerin.	83 "
4235	19/1/57	do	4/1/59	McHugh's Lake 7 miles north of Dowerin.	83 "
4654	4/4/58	Murapin Lake, Woodanilling.	4/1/59	Oak Park Lake 17 miles north west of Dowerin.	165 "
4439	5/11/57	Koomberkine Lake, Dowerin.	3/4/59	Lake System 16 miles N.W. of Esperance.	334 "
3864	25/3/56	Wardering Lake, Woodanilling.	March 1959	Murapin Lake, Woodanilling.	
2058	19/12/53	Watson's Lake, Dumbleyung.	Mid Apl. 1959	Bremer Bay.	123 "
3116	4/12/54	Meckering District	Band sent in on 2/7/59	Trig Pool near Lake Austin, Cue district.	283 "
6709	10/3/57	<u>Mountain Duck</u> Wardering Lake.	21/12/58	Sam Light's Swamp near Wardering.	
7242	8/3/58	<u>Maned Goose</u> Yathroo Station, Dandaragan.	10/1/59	Kanowna Lakes near Kalgoorlie.	345 mls.
3499	17/2/56	Craig's Lake, Kewdale.	3/1/59	Near Mingenew.	190 "

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MONTHLY SERVICE BULLETIN

Vol. VIII. No. 6

June, 1959

STAFF NOTES

The Director visited the field station at Rottnest Island for a few days during May and later, on May 20, 21 and 22, accompanied the Minister for Fisheries, Mr. Hutchinson, on a visit to Dongara and Geraldton.

\* \* \* \* \*

The Research Officer, Mr. B.K. Bowen, accompanied the Minister to Margaret River to investigate a complaint of net fishing in closed waters made by the Augusta-Margaret River Tourist Bureau. They were joined at Bunbury by Inspector T.B. Baines. The Minister's secretary, Mr. J.R. Driscoll, also attended.

\* \* \* \* \*

Later in the month Mr. Bowen visited Pemberton to see the first "stripping" of trout eggs and the commencement of the hatching season. He also conferred with Technical Officer J.S. Simpson, who is spending some weeks working there on trout fertility studies.

\* \* \* \* \*

Inspector S.C. Stokoe resigned from the public service on May 7. The resignation of Assistant Inspector S. La Roche has also been accepted. He will cease duty on June 4.

\* \* \* \* \*

We welcome to the staff Mr. Geoffrey David Houston of South Perth, who will commence duty as an assistant inspector on June 2.



Besides the national committee, which comprises some of Australia's foremost scientists, a sub-committee has been appointed in each State. The members of the sub-committee for Western Australia are -

Dr. W.D.L. Ride, Director of the Western Australian  
Museum, - Chairman;  
Mr. A.J. Fraser, Director of Fisheries;  
Mr. A.C. Harris, Conservator of Forests;  
Dr. A.R. Main, Department of Zoology,  
University of W.A.;  
Mr. C.A. Gardner, Government Botanist;  
Mr. R.D. Royce, Senior Botanist of the Agriculture  
Dept.;  
Dr. A.R. Wilson, Department of Geology, University of  
W.A.  
Mr. T.A. Cleave, Divisional Surveyor, Lands Department.

Dr. Ride, who is a paleozoologist, is also a member of the Australian Committee.

#### DUCK BAND RECOVERIES

Hereunder are details of further duck bands returned since the previous list was published in the January issue of this Bulletin - Volume VIII, No. 1. As more than 100 bands have been returned during the period, space limitations necessitate only some black duck bands being recorded here. Recoveries of grey teal and other species will appear in the next issue.

One of the more interesting recoveries was No. 2330, a black duck in its fifth year of banding. It had been ringed at Cook's Farm, Moora, on February 14, 1954, and was recovered near Cowaramup on January 1, 1959, about 230 miles from its banding site. Unfortunately, age of the bird at banding was not established so that we cannot say how old it was when shot but, through further recoveries of this nature, the research programme will eventually give us a picture of the age structure of the duck population.

Two other recoveries worth commenting on were from ducks banded in the Dandaragan district on January 6 and 7, 1957. The first, No. 6290, was shot near McAlinden in the Collie district on February 15, 1959; while the second, No. 6298, was only 18 miles from its banding site when it was shot a week earlier at Moora.

These two recoveries and that of bands 11925 and 11926 illustrate the impossibility of predicting in which direction ducks will move. The latter were banded at Coolup in January of this year.

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The first, 11925, was recovered 345 miles away at the Murchison River Crossing on March 8. The second was shot on the Harvey River on March 21, only 25 miles from its banding site.

Band No. 6587 was also of particular interest as it demonstrated a marked easterly movement of black duck which has seldom been so definitely recorded. This duck was banded at Karrinyup Lake in February, 1957, and was shot 290 miles away in March of this year on the upper reaches of the West River near Ravensthorpe.

Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
			<u>Black Duck</u>		
2330	14/2/54	Cook's Farm, Moora.	1/1/59	About 3 miles S.E. of Cowaramup	230 miles
7302	29/3/58	Near Murapin Lake, Woodanilling District	22/12/58	9 miles west of Quindanning	55 miles
7784	12/4/58	do	3/1/59	Taarblin Lake	45 miles
7600	6/4/58	do	21/12/58	Beermullah, via Gingin	175 "
7138	17/1/58	Karrinyup Lake	27/12/58	Wannamal Lake	60 "
7324	30/3/58	Murapin Lake (near)	10/1/59	Dornducking Lake, 20 miles east of Wagin	20 "
6927	4/4/57	Queens Gardens	Mid-Dec. 1957	Three Springs	167 "
6981	8/4/57	do	do	do	do
2294	25/1/54	do	57/58 season	Wanneroo	16 miles
6401	27/1/57	Craigs Lake Kewdale	12/1/59	Balingup River	120 "

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
11916	14/1/59	Y anjettee Farm, Coolup	18/1/59	Browns Dairy Coolup	
7972	9/5/58	Queens Gardens	9/1/59	Mouth of Harvey River	58 miles
7970	do	do	do	do	do
6410	27/1/57	Craigs Lake, Kewdale	31/1/59	do	57 miles
3268	3/2/55	Cape Riche	? Jan. 1959	Cape Riche	
6298	7/1/57	Yere Yere Stn Dandaragan	8/2/59	About 2 miles north of Moora	18 miles
11929	4/2/59	Coolup	5/2/59	On Welsley Rvr.	35 miles
6220	12/12/56	Flagstaff Lake	8/2/59	Just below Winnijup Bridge. Bridgetown	67 miles
7869	27/4/58	Karrinyup Lake	31/1/59	Runnymede Swamp about 6 miles north of Leschenault Estuary	90 do
4022	12/4/56	Yathroo Stn.	10/2/59	Grass Patch	390 do
11911	12/1/59	Coolup	8/2/59	Property of D.R. Clarke "Mayolea" Waterloo.	40 do
7261	11/3/58	Yathroo Stn. Dandaragan	7/2/59	Lake Clifton	135 do
7505	4/4/58	Near Murapin Lake	1/1/59	Meelup Swamp	105 do
6290	6/1/57	Yere Yere Stn.	15/2/59	On River approx. 20 miles from Collie. (McAlinden dis.)	200 do



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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
7775	12/4/58	Near Murapin Lake	7/2/59	Lake Meelup	105 miles
6265	17/12/56	Flagstaff Lake Woodanilling	28/2/59	Irwin Inlet	103 do
7914	8/5/58	Queens Gardens	20/2/59	Green Lake east of Snag Island	145 do
8098	20/2/59	Craigs Lake	3/3/59	Queens Gardens	(Died of Botulism)
7966	9/5/58	Queens Gardens	2/3/59	Lake Toolibin	123 miles
7639	10/4/58	Near Murapin	21/12/58	Queerearrup Lake	1 mile
6341	15/1/57	Yathroo Stn.	21/2/59	3 miles west of Moora	24 miles
6520	7/2/57	Craigs Lake Kewdale	25/2/59	Warmamal Lakes	62 miles
8019	16/1/59	Queens Gardens	25/2/59	do	60 do
6080	18/4/56	Yere Yere Stn.	14/3/59	R. Cook's property, Moora	20 do
11925	17/1/59	Coolup	8/3/59	Murchison Rvr. at crossing of main Carnarvon road	345 do
7696	10/4/58	Near Murapin Lake, Woodanilling	20/3/59	Swamp 7 miles from Bunbury and 3 miles east of the Estuary	85 do
6378	18/1/57	Yathroo Stn. Dandaragan	21/3/59	Moora	16 do

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
11926	19/1/59	Coolup	21/3/59	On the Harvey Rv.	25 miles
7839	23/2/58	Cape Riche	28/3/59	Nomans Lake	132 do
7770	11/4/58	Near Murapin Lake	13/3/59	Narrogin	40 do
6587	12/2/57	Karrinyup Lake	28/3/59	Upper reaches of West River. Approx. 20 miles west of Ravensthorpe	290 do
7405	3/4/58	Near Murapin Lake	26/3/59	Swamp 7 miles from Bunbury	90 do
7145	17/1/58	Karrinyup Lake	22/3/59	Chittering Lake	35 do
7479	3/4/58	Near Murapin Lake	? March 1959	West Arthur Road District	23 do
7581	5/4/58	do	4/4/59	Near Bokal	18 do
6190	4/5/56	Queens Gardens	5/4/59	Head of Estuary, Bunbury	85 do
7326	30/3/58	Near Murapin Lake	26/1/59	Lake Quairrup via Wagin	
7674	10/4/58	Near Murapin Lake	16/4/59	12 miles north of Kojonup	7 miles
7668	do	do	8/2/59	do	do
7478	3/4/58	do	15/2/59	do	do
7453	do	do	do	do	do
7373	1/4/58	do	8/2/59	do	do

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
6902	4/4/57	Queens Gardens	18/4/59	Wannamal Lake	57 miles
7550	5/4/58	Near Murapin Lake	8/3/59	Toolibin Lake	47 do
7341	31/3/58	do	18/4/59	Lake Dumbleyung	30 do
7249	9/3/58	Yathroo Stn.	5/4/59	Wannamal Lake	43 do
8088	14/2/59	Craigs Lake	April 1959	Forrestdale	14 do
11928	3/2/59	Coolup	19/4/59	Head of Leschenault Inlet	34 do
8028	18/1/59	Queens Gardens	1/3/59	Brunty Swamp, Narrogin District	105 do
7336	31/3/58	Murapin Lake, Woodanilling	25/4/59	Lake Murapin, Woodanilling	
6649	20/2/57	Queens Gardens	23 or 24th Dec. '58	Ludlow	116 do
7386	2/4/58	Near Murapin Lake	? April 1959	Woodanilling	
7658	10/4/58	do	? April 1959	Woodanilling	

#### LUCKY BAND WINNERS ANNOUNCED

The names of five persons, who had returned a lucky band and thereby won a case of 500 shotgun cartridges, were announced last month.

The competition, which was organised by Imperial Chemical Industries of Australia and New Zealand Ltd., in co-operation with the Department, made provision for a possible 50 winners. Before

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the season commenced the Chief Warden of Fauna selected 50 secret band numbers which were lodged at a city bank and opened after the season closed on May 1. The successful shooters and the details of their birds were as follow -

T. Mincham, 135 Chelmsford Road, North Perth.	3894	Grey Teal banded near Wardering Lake 25.3.56. Shot at Taarblin Lake Saturday February 14, 1959. Flight 43 miles.
F. Neve, 22a Turner Street, Kalgoorlie.	4403	Grey Teal banded Metcalf's lake, Dowerin, 14.11.57. Shot at Hannan's Lake near Kalgoorlie on 11.10.1958. Flight 270 miles.
F. Gibbs, 10 Wynward Way, Thornlie.	6902	Black Duck banded Queen's Gardens 3.4.57. Shot at Lake Wannamal on 18.4.59. Flight 57 miles.
B. Clifford, Brookhampton.	7770	Black Duck banded Woodan- illing 11.4.58. Shot at Narrogin 13.3.59. Flight 40 miles.
E.J. Moore, Three Springs.	7914	Black Duck banded Queen's Gardens 8.5.58. Shot at Green Lake, east of Snag Island on 22.2.59. Flight 145 miles.

The return of Band 4403 by Mr. F. Neve drew attention to the five-year open season for all species in the Eastern Goldfields, North-West and Kimberley divisions. In those areas, where shooting pressure is low and duck stocks fluctuate according to weather conditions, the season opened in December, 1957, and will close in 1962.

DF<sup>n</sup>MSB<sup>n</sup> June 1969, Vol. VIII, No. 6.



DEPARTMENT  
AUSTRALIA

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MONTHLY SERVICE BULLETIN



Vol. VIII, No. 5

May, 1959

CHANGE OF MINISTERS



Hon. Ross Hutchinson, M.L.A.

On April 2, 1959, the Hon. Ross Hutchinson, M.L.A., was sworn in as Minister for Fisheries. Mr. Hutchinson, now a married man with two children, was born 44 years ago at Worsley in the Harvey district. Educated at Wesley College, he trained as a teacher and served a brief period in the country. Later, in 1940, he was appointed to the staff of Claremont High School. In 1942 he enlisted in the R.A.A.F. and saw service as a Bomber Command pilot in the Middle East, India and England, where as a Flight Lieutenant, he completed 38 operational flights and won an immediate award of the D.F.C. He was elected to Parliament as member for Cottesloe on March 25, 1950, and has represented that electorate continuously since then. In the sporting field Mr. Hutchinson won

honours as a player and as captain-coach of three league football teams - East Fremantle, West Perth and South Fremantle - and was captain-coach of the State team which defeated the visiting Victorian side in 1939.

AUSTRALIAN WATERFOWL COMMITTEE.

Ministerial approval has been received for this State's participation in the founding of a nation-wide committee on waterfowl. Proposals for the establishment of such a committee were first raised at the Australian fauna authorities' conference in Perth, in 1955, and final details were agreed to by delegates at the conference held in Sydney last November. The committee will function as a clearing-house of ideas and will provide a forum for discussion of the technical and biological problems encountered in waterfowl research in Australia. It will also plan and co-ordinate research activities of a national nature and act as an advisory body to formulate recommendations on policy for decisions by the States, either severally or at the biennial conference. This State's delegate on the committee will be the Research Officer, Mr. B.K. Rowan.

SEASONS CLOSE.

Despite a request from the Council of Gun Clubs of W.A. to extend the season to May 31, it was decided to stand by a previous decision that the duck shooting season end on April 30 - a month earlier than usual. Consequently, from May 1, until the season re-opens - probably the week-end before Christmas - all species of wild duck will be protected in the South-West and Eucla Land Divisions. In all other parts of the State (the Eastern Goldfields, North-West and Kimberley areas) the season will remain open for a further four years.

Winners of the cases of cartridges under I.C.I's. Lucky Band Scheme will be announced in the press by that organisation during the month.

\* \* \* \* \*

Inspectors are reminded that the marron open season ended on April 30. Until December 1, the taking of this freshwater crustacean by any means of capture whatsoever is entirely prohibited.

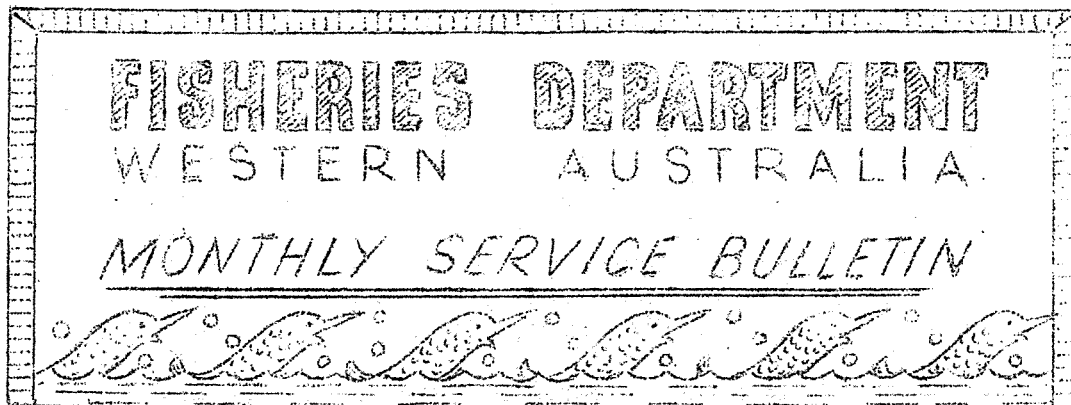
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[MONTHLY SERVICE BULLETIN  
(WESTERN AUSTRALIA. FISHERIES

8(2) Feb 1959

DEPARTMENT OF PARKS AND WILDLIFE



Vol. VIII, No. 2.

February, 1959

STAFF NOTES

Commencing February 9 the Superintendent (Mr. A.J. Fraser), as Chairman of the Fishermen's Advisory Committee, accompanied by members and the acting Secretary, will visit the Mandurah and Bunbury districts where meetings will be held with the respective fishermen's associations. On February 16, in company with the members and secretary of the Rottnest Biological Station Committee, he will visit Rottnest Island for a meeting of the committee. During two or three days on the Island work in hand at the Station will be inspected.

Inspector R.J. Baird will leave Perth on February 14 for Broome after biennial leave. Inspector B.A. Carmichael is relieving at Broome and Inspector J. Traynor at Albany.

Inspector G.H. Lyon resumed duty after annual leave on January 19. At the moment he is on special crayfish patrol work in coastal areas with Assistant Inspector C.J. Seabrook.

Assistant Inspector S. LaRoche is still stationed at Lancelin.

Cadet Inspectors D. Smith and J. Kelly are at present assisting the Fleet Maintenance Officer (Mr. A.J. Bateman) at Fremantle.

Inspector S. Stoloe and Cadet Inspector E. Barker are patrolling the Abrolhos area in p.v. "Kooruldhoo".

Assistant Inspector E.I. Forster and Cadet Inspector R. Emery are stationed on the p.v. "Silver Gull" in the Jurien Bay area.

The p.v. "Misty Isle" is operating from Fremantle with Inspector H.D. Kavanagh and Cadet Inspector G. Hanley on board.

Congratulations and good wishes are extended to Mr. W.K. Cherrington, of Head Office, and Mrs. Cherrington, on the birth of their second daughter, Susan Peta, on January 24.

Other officers resuming duty after annual and accumulated leave include Mr. C.R.C. Haynes, mate, r.v. "Lancelin", and Assistant Inspector R.J. McKay on January 19, and Captain H.C.W. Piesse on January 29. Mr. McKay is at present acting as Technical Officer. Technical Officer J. Simpson is duck banding in the metropolitan area.

Mr. C.R.C. Haynes entered hospital on January 26 to undergo minor surgery to his arm. Satisfactory progress has been reported.

Inspector R.M. Crawford, of Geraldton, who is on long service leave, recently visited Sydney with Mr. R.M. Saunier, who has purchased a 120-foot ex-navy vessel for cray-fishing on this coast. Mr. Crawford is returning in the vessel, which is expected to reach Fremantle on February 5.

#### PERSONAL PARS

Mr. H. Ito, First Secretary of the Japanese Embassy, Canberra, called on the Minister for Fisheries (Mr. Kelly) and the Superintendent on January 13. The following day he left for Broome to investigate conditions pertaining to his nationals engaged in the pearling industry. On January 20 he left Broome for Darwin. While at Broome he had discussions with Inspector B.A. Carmichael.

\* \* \* \* \*

We have been advised that Dr. Mary Gillham, lecturer in botany at the University of Exeter, has been delayed in

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MARINE MAMMALS AND FAUNA PROTECTION

A legal opinion has been obtained from the Crown Law Department regarding the interpretation of fauna as applied to such birds and animals as penguins, albatrosses, turtles, dugongs, seals and dolphins, which are normally found at sea, either for the whole or part of their lifetimes. It will be remembered that the definition of fauna specifically includes birds and reptiles. It seems therefore that as both seals and dugongs for example, are ordinarily to be found in parts of the State such as sandy beaches and resorts used for breeding purposes, they are fauna within the meaning of the Fauna Protection Act. Dolphins, which are always found in the water and are indigenous to no part or parts of the State but to the high seas, cannot be classified as fauna within the meaning of that Act. They are strictly "fish" in terms of the Fisheries Act.

LUCKY BAND DUCK SCHEME

Through the co-operation of Imperial Chemical Industries of Australia and New Zealand Limited, Western Australia this year is participating in the "Lucky Band Scheme" in regard to duck tag recoveries. The scheme was introduced in Victoria in 1958 and proved so successful that it is being repeated this year.

Fifty band numbers have been chosen and lodged in safe custody. The envelope, containing the lucky numbers will be opened on April 30, and all persons who have sent in one of the numbered bands will receive from ICI a case of cartridges of their own choosing.

As the number of bands returned over the past few years has totalled only about 300, and 30 have been returned in the first month since the scheme started this year, there is no doubt of the interest brought about by the introduction of this scheme.

Any bands recovered should be forwarded immediately prior to the close of the season on April 30, together with the following details - the exact location of recovery, date of recovery, and recoverer's name and address.

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Scorecards and post-free envelopes are available at Head Office, and any enquiries should be referred here.

#### GAME LICENSES

We have been notified by the Director of Fisheries and Game, Melbourne, that a game license at a fee of £1 has been introduced into Victoria. Initially, this license will apply to ducks only. This license will come into operation before the next duck open shooting season in that State, which commences on February 21.

#### HOUSING OF GOVERNMENT EMPLOYEES

The Government recently formed a committee to determine the districts in which houses for Government employees would be erected, the conditions of tenancy, and any matters generally applying to the leasing of such. We have now been advised that allocations have been completed for this financial year, and that this Department has not been granted any allocation.

#### GIANT PETRELS

On pages 24 - 29 are listed the recoveries of giant petrels ringed as nestlings at Signy Islands in the South Orkneys by the Falkland Island Dependencies Scientific Bureau in 1958. It will be observed that many of these birds, which make a circumpolar flight during their first year, were recovered in Western Australia as well as other parts of the Commonwealth.

#### LABOUR DAY PROCESSION

This Department will once again be taking part in the Labour Day procession on March 2, with a float publicising the fishing industry. Arrangements are in the hands of Mr. A.J. Buchanan and Acting Supervising Inspector J.E. Munro.

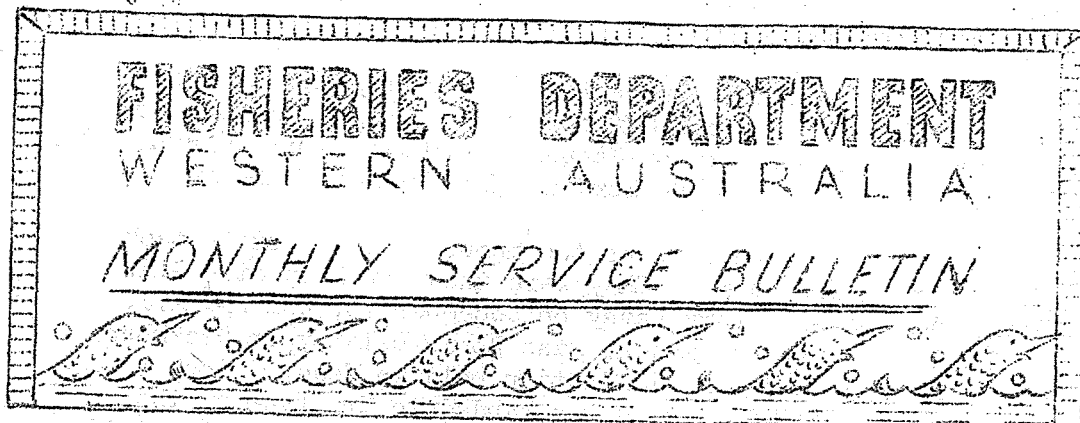
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[MONTHLY SERVICE BULLETIN  
(WESTERN AUSTRALIA. FISHERIES

8(1) Jan 1959

DEPARTMENT OF PARKS AND WILDLIFE



Vol. VIII. No. 1.

January, 1959.

STAFF NOTES

The Fauna Protection Officer (Mr. H.B. Shugg) and the Supervising Inspector (Mr. J.E. Bramley) will each commence 3 months' long service leave this month. Mr. A.J. Buchanan will act in Mr. Shugg's position and Mr. J.E. Munro in Mr. Bramley's.

Inspector R.M. Crawford, of Geraldton, is still enjoying long service leave. He and his wife have just returned from a visit to Singapore. Inspector R.J. Baird, of Broome, is in Perth with his family on biennial leave. Relieving Inspector G.C. Jeffery is holding the fort at Geraldton, and Inspector B.A. Carmichael, of Albany, will leave for Broome in the next day or two to take over pending Mr. Baird's return towards the end of February. Inspector J. Traynor will relieve at Albany during Mr. Carmichael's absence.

Mr. John Terrence Kelly has been appointed cadet inspector, and is expected to start work on January 7.

Assistant Inspector D. Wright, who was on sick leave over the holidays, will resume duty on January 5. He will be stationed temporarily in Fremantle to assist the Fleet Maintenance Officer (Mr. A.J. Bateman), who has quite a number of jobs on hand at this moment.

We offer our congratulations to Mr. Wright on having recently qualified (by examination) as Skipper, Grade 2. This qualification entitles him to command fishing boats of from 15 to 50 tons.

Assistant Inspector R.J. McKay, who is acting temporarily as Technical Officer Grade 2 (vice Traynor), is expected to resume duty on January 19 after annual leave. The Fauna Warden (Mr. S.W. Bowler) is also on annual leave.

The weddings of two members of the staff took place during December. They were those of Inspector G.H. Lyon, who wed Miss Mary Davey on December 13, and Mr. A.J. Buchanan, who was married to Miss Robin Delaney on December 26. At a small informal function held in Head Office, a presentation smoker's stand was handed to Mr. Lyon by the Superintendent with the best wishes of both inside and outside staff. At the Department's Christmas eve party, the Minister for Fisheries (Mr. Kelly) presented to Mr. Buchanan, with the felicitations of his fellow-officers, a sum of money which had been subscribed as a wedding gift.

#### PERSONAL PARS

A visitor to Western Australia during December was Mr. B.V. Hamon, of the Division of Fisheries and Oceanography, C.S.I.R.O., Cronulla, who stopped off for a couple of days on his way back to headquarters after 9 months overseas. For most of his stay abroad Mr. Hamon was working at the National Institute of Oceanography, at Godalming, Surrey, England.

\* \* \* \* \*

Another prominent visitor was Mr. Tokuichi Kuribayashi, president of the Nippon Pearling Co. Mr. Kuribayashi, who was accompanied by his daughter, is one of the principal shareholders of Pearls Pty. Ltd., which under license from this Department operates the pearl culture station in Brecknock Harbour, North-West Australia. It is from the first two syllables of Mr. Kuribayashi's name that the small bay of Brecknock Harbour in which the station is located received the name "Kuri Bay".

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DUCK BAND RECOVERIES

Hereunder are details of the duck bands returned to this Department since the previous list was published in Vol. VII, No. 7, July, 1958, of this Bulletin

Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
			<u>Black Duck</u>		
7492	13/4/58	Woodanilling District	3/5/58	Woodanilling	-- mls
7683	10/4/58	do.	do.	do.	--
7790	12/4/58	do.	12/5/58	Carrolup River	15 "
6840	31/3/57	Karrinyup Lake	14/3/58	Springfield, Gingin	45 "
6468	5/2/57	Queen's Gardens	13/2/58	Mouth of the Warren River	180 "
7134	16/1/58	Karrinyup Lake	22/8/58	On a swamp between Yokaine and Worsley	97 "
6805	3/3/57	Karrinyup Lake	22/12/57	Treens Pool	
7401	3/4/58	Murapin Lake, Woodanilling	21/12/58	Walbyring Lake	45 "
2102	8/1/54	Karrinyup Lake	1956/57 open season	Lake Wannamal	45 "
2183	14/1/54	do.	do.	do.	45 "

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
7472	3/4/58	Near Murapin Lake, Woodanilling District	21/12/58	Near Junction Collie and Brunswick Rivers	85 mls
6640	20/2/57	Queen's Gardens	21/12/58	Mealup Lake	52 "
7566	5/4/58	Murapin Lake, Woodanilling District	21/12/58	West Coolup	95 "
6100	20/4/56	Yere Yere Station, Dandaragan	28/12/58	Namming Lake	22 "
7521	4/4/58	Near Murapin Lake, Woodanilling District	31/12/58	Toolburup Lakes, Cranbrook	60 "
7340	31/3/58	do.	28/12/58	Beaufort River, 5 mls E. of Bokal Siding	15 "
7796	13/4/58	Woodanilling District	3/1/59	15 mls S. of Borden	80 "
<u>Grey Teal</u>					
4642	20/3/58	Cook's Farm, Moora	14/5/58	Willies Lake, Mandurah	132 "
4668	5/4/58	Near Murapin Lake, Woodanilling District	29/4/58	Pootenup	55 "
4521	20/1/58	Karrinyup Lake	11/10/58	Swamp 12 mls S. Coolgardie	320 "
2176	12/1/54	do.	1956/57 open season	Lake Wannamal	45 "

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
<u>Grey Teal (contd.)</u>					
4538	22/1/58	Karrinyup Lake	unknown	Lake Wannamal	45 mls
4183	8/12/56	Gundaring Lake	21/12/58	Gundaring Lake	--
4192	8/12/56	do.	21/12/58	Taarblin Lake	25 "
3939	27/3/56	Wardering Lake	23/12/58	Perup River, 21 mls E. Manjimup	70 "
4263	13/3/57	Queerearrup Lake	27/12/58	Swamp 4 mls S.E. Bokal Siding	20 "
4786	15/4/58	Near Murapin Lake, Woodanilling District	21/12/58	Dumbleyung Lake	30 "
3076	26/11/54	Lake Mears	20/12/58	Capel	140 "
4426	16/11/57	Dowerin District	26/12/58	"Channels", 3 mls W. of Lake Mears	80 "
3995	28/3/56	Wardering Lake	26/12/58	Woody Swamp, 20 mls N. Kojonup	4 "
4781	13/4/58	Woodanilling District	Jan '59	Malcolm Dam, 8 mls N. Gwalia	400 "
4681	5/4/58	do.	do.	5 mls W. Quairading	103 "

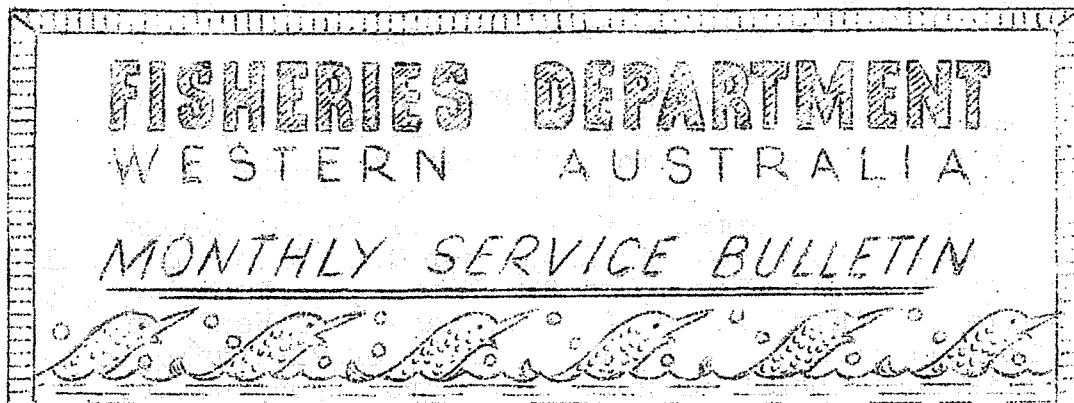
Of considerable interest also were the return of two C.S.I.R.O. bands, nos. 090-14326 and 090-15304. These bands had been fixed to the legs of two grey teal at Humpty Doo Station in the Northern Territory, on July 29 and August 14, 1957, respectively. Band no. 090-14326 was recovered from a duck shot on the Ludlow River, about four miles from Capel, on December 28, 1958 - its flight from the banding site being 1,750 miles in a straight line, and band no. 090-15304 was taken from a grey teal shot at Dermody's Lake, seven miles east of Wagin, on December 21, 1958 - its flight from the banding site being 1,670 miles.

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ALBANY  
NOT FOR SALE



Vol. VII, NO. 11.

November, 1958

STAFF NOTES

During the month the Superintendent (Mr. A.J. Fraser), as Chairman of the Fishermen's Advisory Committee, accompanied by members and the Secretary, visited Geraldton and Shark Bay where meetings were held with the respective fishermen's associations. Towards the end of the month Mr. Fraser also visited Albany and Pemberton. On November 11 he will leave by air to attend the Interstate Fauna Authorities' Conference, which will open in Sydney on November 17. The Superintendent also intends to spend a day or two at the Commonwealth Fisheries Office, Canberra.

The Fauna Protection Officer (Mr. H.B. Shugg) accompanied by the Fauna Warden (Mr. S.W. Bowler), visited Nyabing on October 29 to officially open that town's first wild life show. After the ceremony they went to Albany and the next day carried out a survey of a reserve adjacent to the Manypeaks Townsite. On this survey they were assisted by Mr. J.B. Higham, of Albany (a member of the Fauna Protection Advisory Committee). On the following day they inspected reserves and lakes in the Rocky Gully District before visiting Manjimup to hold discussions with Mr. A.D. Jones of the "Bailleston Sanctuary", who intends shifting his sanctuary to an "A"

class reserve within the Manjimup townsite. Before returning to Perth they will inspect bird shops and aviaries at Collie, Bunbury and Boyanup.

The first of three of our officers to be married before the end of the year, is Mr. John McK. Mitchell, of Head Office, who will wed Miss Sheila Mitchell, of Perth, Scotland, on November 22. Mr. Mitchell will commence annual leave on the following Monday. The second is Inspector G.H. Lyon, who will marry Miss Mary Davey, of Swanbourne, on December 20, while the third is Mr. A.J. Buchanan, of Head Office, who will marry Miss Robin Delaney, of Rivervale, on Boxing Day, December 26. Inspector Lyon and Mr. Buchanan will also each commence annual leave after the nuptials.

Congratulations are extended to Inspector and Mrs. A.V. Green, of Mandurah, on the birth of their daughter, Jennifer Leanne, on October 23 at the Murray District Hospital.

Mr. J. Traynor has been transferred from the Research to the Inspectorial Section of the Department (vice Inspector Murray, retired) as from October 27.

Officers on leave at the moment include Research Officer B.K. Bowen, who will resume duty on November 3; Mr. G.C. Ferguson, of Head Office, who will also resume on the same date, and Assistant Inspectors S. LaRoche, of Mandurah, and E.I. Forster, acting Inspector in charge of the "Silver Gull", who commenced annual leave on October 20 and 21 respectively.

Inspector B.A. Carmichael, of Albany, will commence annual leave on December 1. Early in the New Year he will fly to Broome to act as Pearling Inspector during the absence on biennial leave of Inspector R.J. Baird.

Cadet Inspector E. Barker resumed duty after annual leave on October 13.

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CAMPAIGN TO BOOST PEARLSHELL

In a press report from Canberra late last month, the Commonwealth Minister for Trade (Mr. McEwen) announced that the Government would contribute \$40,000 (£A17,800) towards the special advertising campaign to promote the sale of Australian pearlshell products in the U.S.A., the United Kingdom and Europe. The total cost of the campaign has been estimated at \$120,000 (£A53,500) this financial year. The balance of the cost would be shared between the Australian pearling industry and importers in the U.S.A.

Outlining the proposed pearlshell sales drive, Mr. Alan Gerdau, President of the Otto Gerdau Co., which buys most of the shell produced in Western Australia, announced that the assistance of film star Marlene Dietrich and a bevy of young American beauties would be enlisted in a series of publicity stunts. Miss Dietrich has agreed to visit Australia for this purpose.

VACANCY FOR TECHNICAL OFFICER

By reason of the transfer of Mr. J. Traynor to the inspectorial staff, applications are now being called for the position of Technical Officer, Grade 2 (Classification G.II.1/2). Any officer desirous of applying for the vacancy should secure the necessary form from the Clerk-in-Charge (Mr. Saville).

FREMANTLE DISTRICT CRAYFISHERIES

The Minister for Fisheries has approved a recommendation from the Fishermen's Advisory Committee that the open season for the taking of crayfish in the area south of lat. 30°S commence on November 15. All waters within one mile of the coast (and south of lat. 30°S) will be closed to crayfishing from January 1, 1959. Last season the mile closure did not operate until January 15.

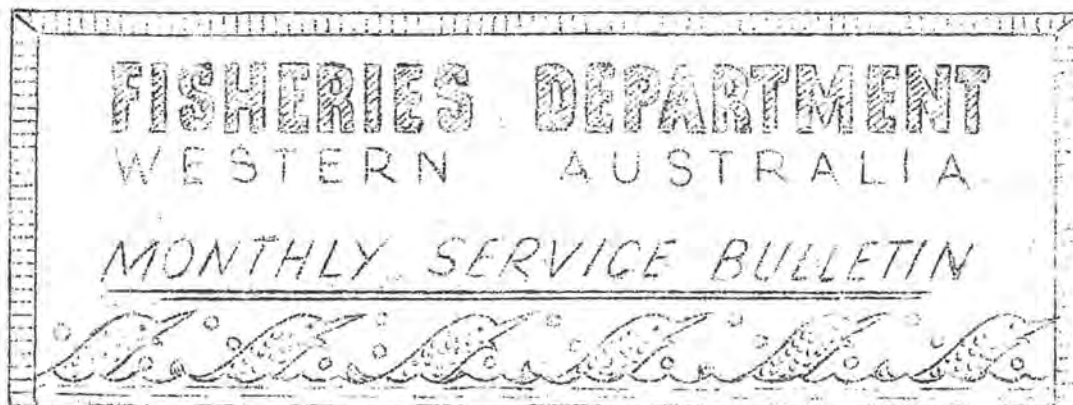
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[MONTHLY SERVICE BULLETIN  
(WESTERN AUSTRALIA. FISHERIES

7(7) Jul 1958

DEPARTMENT OF PARKS AND WILDLIFE



Vol. VII, No. 7.

July, 1958

STAFF NOTES

The Superintendent (Mr. A.J. Fraser) will attend a conference of Commonwealth and State Fisheries officers to be held in Canberra on July 15 and 16.

Inspector A.K. Melsom will commence duty after long service leave on August 1, and from that date will resume charge of the Fremantle district.

Relieving Inspector G.C. Jeffery will relieve at Shark Bay during Inspector N.E. McLaughlan's absence on long service leave, which is due to commence on August 1.

Inspector A.V. Green of Mandurah plans to commence annual leave on August 25.

Inspector H.J. Murray will cease duty on August 28 to clear all accrued leave and long service leave prior to his retirement.

Miss P.J. Pegrum of Head Office returned to duty after annual leave on June 10.

DE VASBY

VERDICT FOR CO-OPERATIVE

Mr. Justice Wolff in a reserved judgment delivered in the Supreme Court on June 13, dismissed with costs an action brought by Dr. J.S. Marian, formerly secretary and general manager of the Fishermen's Co-operative Society, Ltd., against the Co-op. for moneys said to be owing to him when he relinquished his office about three years ago.

His Honour said that Dr. Marian had agreed to serve the Co-op. in the capacity mentioned until June 30, 1959, at a salary of £1,838 p.a. plus  $\frac{1}{3}\%$  of the Society's total turnover.

One of the issues, said His Honour, was whether Dr. Marian had bought a fishing-boat on his own account or whether - notwithstanding he had bought it in his own name, as he admitted - he intended to hold it in trust. The judge said he was satisfied that the Co-op. had authorised Marian to tender up to £7,000 for the vessel. His tender of £3,500 was accepted, but he did not communicate that fact to the chairman or to any member of the management committee. Mr. Justice Wolff said that by his conduct at a meeting in June, 1955, Marian had indicated he was buying the boat for himself. In those circumstances the committee was justified in demanding Marian's resignation, as he had been guilty of serious misconduct. His Honour said he could not accept Marian's evidence in relation to his claim and the action was dismissed.

DUCK BANDING

Technical Officer J. Traynor visited the property of Mr. A.H. Robinson, Coolup, during June, but after a few days had to give up ideas of continuing the duck banding programme. All birds caught were sexed and it was found that they were paired, and continuance of trapping might have interfered seriously with the birds' breeding.

Recoveries : Since the previous issue of the Bulletin, the following bands have been returned -

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
			<u>Black Duck</u>		
7812	15/2/58	Cape Riche	30/5/58	2 mls N. of Leschenault Inlet	200 miles
7248	9/3/58	Yathroo Station, Dandaragan District	about middle May '58	On property at Gingin	55 "
			<u>Grey Teal</u>		
4783	14/4/58	Near Murapin Lake, Woodanilling	9/5/58	"Duck Pool", 20 mls S. of Mandurah	105 "

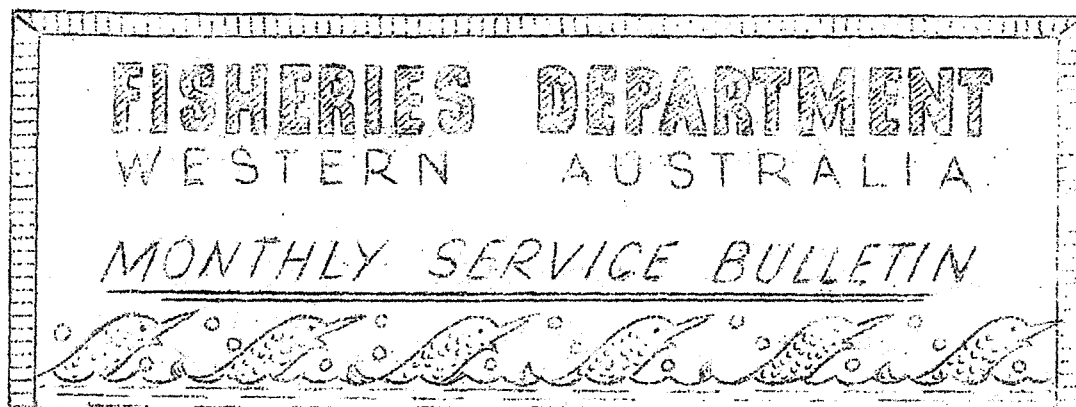
W.A. FISH PRODUCTION - 1957

The table on page 78 sets out the production by species in excess of 10,000 lb. for the twelve months ended December 31, 1957. For comparison the 1956 figures are also shown. The 1957 catch was a record, due mainly to an increase in the crayfish take. The catch of salmon, snapper, cobbler and prawns dropped, but increases of mullet, both sea and yellow-eye, ruff, shark, trevally and several minor species were recorded. The prawns from Exmouth Gulf were negligible, but production was boosted by the excellent season in the Swan and Mandurah estuaries. One interesting increase was in Perth herring. Good catches of this species appear likely this year.

All figures are given in round weight. The figures for snapper and other big fish landed gutted have been converted to whole weight.

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Vol. VII, No. 6.

June , 1958

STAFF NOTES

The Superintendent of Fisheries (Mr. Fraser) will recommence duties on June 9, after completion of long service leave.

Mr. B.R. Saville, as Acting Chairman, attended a meeting of the Fisherman's Advisory Committee held at Denmark on May 16 and 17.

The Supervising Inspector will visit the Shark Bay district early in June.

Mr. W. Johnson has returned to the Chief Secretary's Department after relieving in the Records section.

Research Officer B.K. Bowen and Technical Officer J. Simpson will carry out studies at Pemberton hatchery during the coming season in relation to the fertility of trout eggs.

Technical Officer J. Traynor will be working at the Rottnest Biological Station during June.

DUCK BAND RECOVERIES

Since the previous issue of the Bulletin several more recoveries have been made. This brings the total recoveries to 229 black duck, 128 grey teal and 20 others; in all 377. As 5740 ducks have now been banded, this represents a recovery rate of 6.56%.

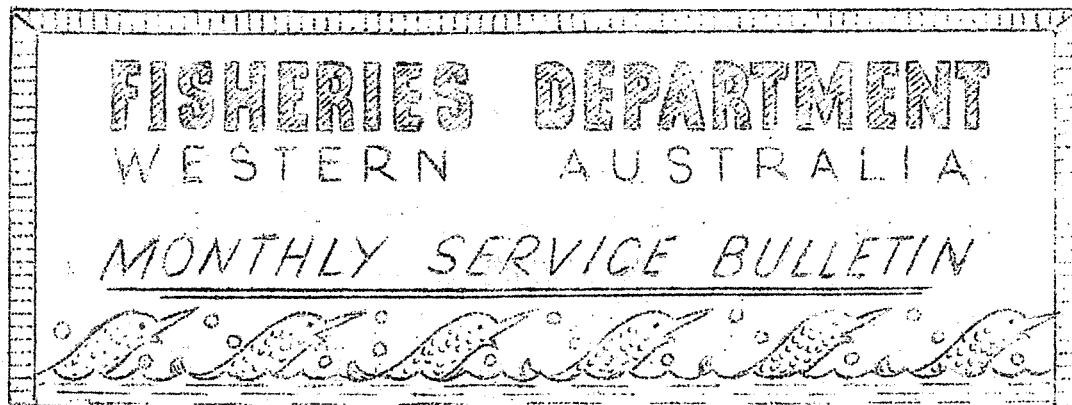
Once more a grey teal has journeyed from West to East. This carried band no. 2973, which was placed on the duck at Lake Mears, east of Brookton, in November, 1954. The teal was shot at Colignan, near Red Cliffs, on the New South Wales/Victoria border, a distance of some 1,468 miles from the point of banding. The bird was in its fourth year of banding.

Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
		<u>Black Duck</u>			
7465	3/4/58	Near Murapin Lake, Woodanilling District	3/5/58	Near Woodanilling	10 miles
7394	2/4/58	do.	19/5/58	Yarloop	87 "
6718	19/3/57	Bennecke Swamp	18/5/58	Bald Rock	4½ "
7832	21/2/58	Cape Riche	11/4/58	Warriup	20 "
7826	18/2/58	do.	25/4/58	do.	20 "
7846	26/2/58	do.	25/4/58	do.	20 "
7974	9/5/58	Queen's Gardens	17/5/58	Lake Monger	3 "

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Band No.	RECOVERY		BANDING		Distance Flown
	Date	Place	Date	Place	
<u>Black Duck (contd.)</u>					
6068	17/4/56	Yeri Yeri Station, Dandaragan District	4/4/58	Recovered at Namming Lake	about 20 miles
7530	5/4/58	Near Murapin Lake, Woodanilling District	early April 1958	150-mile peg, Albany Highway	3 "
7589	5/4/58	do.	5/5/58	Bennecke Swamp	11 "
2485	6/3/54	Wardering Lake	5/5/58	do.	11 "
7474	3/4/58	Near Murapin Lake, Woodanilling District	18/5/58	do.	15 "
7572	1/4/58	do.	3/5/58	Rushy Pool, 15 mls W. Woodanilling	2 "
7339	31/3/58	do.	3/5/58	do.	2 "
7772	11/4/58	do.	3/5/58	do.	2 "
7432	3/4/58	do.	29/5/58	On Property at Ferguson	85 "
<u>Grey Teal</u>					
4363	7/11/57	Koomberkine	3/5/58	18 mls W. Laverton	350 "
2973	19/11/54	Lake Mears, Brookton District	5/4/58	Colignan, near Red Cliffs, NSW/Vic-toria border	1468 "





Vol. VII, No. 5.

May, 1958

STAFF NOTES

Inspector H.J. Murray is relieving in the Fremantle District during the absence of Inspector A.K. Melsom on Long Service Leave.

Assistant Inspector C.J. Seabrook is now stationed at Fremantle.

Relieving Inspector G.C. Jeffery is at present in the Bunbury District. He will commence annual leave on May 9.

Proceeding on leave this month will be Miss P. Pegrum and Cadet Inspector G. Hanley.

Cadet Inspector D. Smith, after special duties at Geraldton, has returned to Perth.

Inspector S. Stokoe is temporarily assisting on the p.v. "Kooruldhoo".

Cadet Inspector E. Barker will be stationed at Geraldton for the remainder of the Abrolhos crayfish season.

Deliveries of trout will be made to the Serpentine, Harvey, Blackwood and Gingin Trout Acclimatisation Societies during May. Technical Officer L.G. Smith will be in charge of the transport unit.

After a very successful banding programme in the Woodanilling District, Technical Officer J. Traynor has returned to the metropolitan area.

#### MOVEMENT OF DEPARTMENTAL VESSEL

During May, the research vessel "Lancelin", under the command of Captain H.C.W. Piesse, will proceed to Shark Bay to continue the prawn and scallop investigational work. The crew will comprise Inspector C.R.C. Haynes and Cadet Inspector R. Emery. Assistant Inspector R. McKay will carry out the duties of Technical Officer.

#### PERSONAL PARS

Mr. Gilbert P. Whitley, Curator of Fishes, Australian Museum, Sydney, who is well known to departmental officers for his work in Western Australia during the war years, left for the U.S.A. towards the end of March. The purpose of his visit was to attend a symposium on sharks and shark repellents held in New Orleans, Louisiana.

\* \* \* \* \*

Mr. E. leG. Troughton, Curator of Mammals, Australian Museum, Sydney, has retired from the N.S.W. public service. Mr. Troughton, who has been a member of the Museum's staff for 50 years, is well known for his writings on Australian mammals. His "Furred Animals of Australia" has passed through several editions.

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DUCK BAND RECOVERIES

Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
			<u>Black Duck</u>		
6719	19/3/57	Bennecke Swamp, Kojonup District	5/4/58	10 miles S.E. of Wagin	25 miles
7492	4/4/58	Murapin Lake	6/4/58	Murapin Lake	--
7535	5/4/58	do.	do.	do.	--
7323	30/3/58	15 mls W. Woodanilling	30/3/58	15 mls W. Woodanilling	--
2716	29/4/58	Queen's Gardens	22/12/57	Fitches Swamp	135 "
7780	12/4/58	Murapin Lake	13/4/58	Beaufort River Bridge	7 "
7219	27/2/58	Karrinyup Lake	unknown	Butlers Swamp	8 "
7527	4/4/58	Near Murapin Lake	20/4/58	Near Beaufort River Bridge	3 "
7560	5/4/58	do.	do.	do.	3 "
6365	16/1/57	Yathroo Station	Late Feb. 1958	Hutt River	195 "
7854	4/3/58	Cape Riche	21/4/58	Mouth of Capel River	200 "
6245	15/12/56	Flagstaff Lake	unknown	Collie River	approx. 70 "

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
<u>Black Duck (contd)</u>					
7322	30/3/58	15 mls W.of Woodanilling	30/3/58	15 mls W. of Woodanilling	-- miles
<u>Grey Teal</u>					
4637	15/3/58	Yere Yere Station	22/3/58	18 mls W. of Laverton	410 "
3870	25/3/56	Wardering Lake	28/1/58	Dumbleyung Lake	25 "
3892	25/3/56	Wardering Lake	26/4/58	Dumbleyung Lake	27 "
<u>Mountain Duck</u>					
6269	17/12/56	Flagstaff Lake	4/4/58	Mouth of Pallinup River	110 "
<u>White-Eyed Duck</u>					
4248	11/2/57	Karrinyup Lake	18/3/58	Dumbleyung Lake	140 "

On pages 53 and 54 are shown the latest recoveries of duck bands. The total recoveries are now 213 black duck; 125 grey teal and 20 other - in all 359. As 5,646 ducks have been banded to date, this represents a recovery rate of 6.4%.

Advice of two outstanding recoveries of grey teal has come to hand recently. They were bands 3782 and 4637. The first bird was recovered 460 miles away 2 years later, while the second was recovered 410 miles from its banding site but only seven days after it was banded.

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We have also recorded the first recovery of a white-eyed duck, banded on 11/2/57 at Lake Karrinyup and recovered at Dumbleyung Lake on 18/3/58, a distance of 140 miles.

Technical Officer J. Traynor had a very successful banding programme in the period March 28 to April 16. Total bandings were 506 black duck, 151 grey teal and 1 mountain duck. Additionally, 163 black duck and 39 grey teal re-entered the traps after having been banded.

#### TOMMY RUFF SEASON

The season for tommy ruff commenced in the open waters of Rottnest on May 1 with much better results than last year. The run this year has been good from Albany to Fremantle.

#### TAILOR AT YANCHEP

Senior Inspector J.E. Munro reported some exceptionally good fishing for tailor at Yanchep. Mr. Burnett of Yanchep Park and a companion hooked 46 between them on April 23. The biggest was 11 pounds, with several 8 pounders. Others reported catches of larger fish than usual.

#### PEARL STEALING CASE

On April 17, two Chinese, Chan Leung and Tsang tin Sang, were convicted at the Broome Court of Sessions of stealing a pearl, valued at £1,000. They were sentenced to 12 months imprisonment with hard labour, but are to be released to the Immigration Authorities, when arrangements for their deportation are finalised.

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(WESTERN AUSTRALIA. FISHERIES

7(4) Apr 1958

DEPARTMENT OF PARKS AND WILDLIFE

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Vol. VII, No. 4.

April, 1958

STAFF NOTES

The Acting Superintendent (Mr. B.R. Saville), accompanied by Research Officer B.K. Bowen, attended a meeting of the Trout Acclimatisation Council at Bridge-town on Sunday, March 30.

Mr. G.C. Ferguson returned to duty on March 25, after three months' national service training.

Mr. B. Guinan, who relieved during the absence of Mr. Ferguson, is now on the staff of the Chief Secretary's Department.

We welcome to the staff Mr. C.J. Seabrook, who commenced duty as Assistant Inspector on March 17.

Research Officer B.K. Bowen and Technical Officer J.S. Simpson will continue empirical tests of dams at Walebing early this month. Later they will proceed to Pemberton and carry out further tests in connection with the transportation of fish in plastic bags.



Relieving Inspector G.C. Jeffery is recuperating at home after being in hospital for a minor operation on his hand.

Technical Officer L.G. Smith will resume duty this month.

Technical Officer J. Traynor is now duck banding in the Wagin district.

Inspector A.K. Melsom, Fremantle, will commence annual leave on April 9, followed by three months' long service leave. Inspector T.B. Baines, Bunbury, Mr. A.J. Buchanan and Mrs. V.T. Priest, Head Office, will commence annual leave during this month.

#### MOVEMENT OF DEPARTMENTAL VESSEL

The patrol vessel "Leschenault" has been transferred by rail from Geraldton to Bunbury for patrol work in Leschenault Inlet.

#### UNUSUAL UNDERWATER COMPANION

Members of the Great Southern Undersea Club recently had the unusual experience of being accompanied on their excursion to the deep by a friendly seal. These mammals are well known for their mimicry and this one was no exception. He imitated the members in their underwater acrobatics and accompanied them in their search for fish before departing seawards.

#### SALMON SEASON

A haul of 70 tons of salmon was landed on a south coast beach recently. Despite unfavourable weather conditions the overall take of salmon so far this season compares favourably with that of previous years.

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DUCK BAND RECOVERIES

Listed hereunder are particulars of band recoveries from black duck and additional band recoveries from grey teal.

Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
			<u>Black Duck</u>		
3576	21/2/56	Queen's Gardens	12/1/57	Moore River	approx. 55 miles
3693	27/2/56	do.	4/11/57	Heirisson Is. N. of Causeway	$\frac{1}{2}$ "
6562	10/2/57	Karrinyup Lake	2/1/58	Coolup	70 "
3578	21/2/56	Queen's Gardens	late December 1957	Upper Blackwood River near Duranillin	120 "
2907	23/10/54	Cockleshell Gully	25/1/58	Chapman River near Nabawa	115 "
2861	17/9/54	Glen-garry Station	5/1/58	Greenough River	--
6729	22/3/57	Bennecke Swamp	5/1/58	10 mls N.E. of Kojonup	--
3963	28/3/56	Wardering Lake	23/12/57	Lake Muir	70 "

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
		<u>Black Duck (contd)</u>			
6258	16/2/56	Flagstaff Lake, Woodan-illing District	15/2/58	Lake Muir	75 miles
6724	21/3/57	Bennecke Swamp	23/2/58	Bennecke Swamp	--
6326	10/1/57	Yere Yere Station, Dandara-gan	8/2/58	Moora	15 "
6096	19/4/56	do.	Feb., 1958	Cook's Farm, Moora	15 "
		<u>Grey Teal</u>			
4321	3/11/57	Koomber-kine Lake, Dowerin	3/3/58	Avon River, 8 mls from Northam	45 "
1396	15/2/53	Wardering Lake	Feb., 1958	Cook's Farm, Moora	210 "
4155	5/12/56	Gundaring Lake	do.	do.	200 "
3850	24/3/56	Wardering Lake	16/3/58	Badgebup 24 mls E. of Katan-ning	about 40 "

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
		<u>Grey Teal (contd.)</u>			
4003	11/4/56	Yathroo Station	3/3/58	Namming Lake, Dandargan District	about 25 miles
3782	10/3/56	Dumble-yung	16/3/58	35 mls W. of Meekatharra	460 "

The Department has established a duck banding station on the property of Mr. D.J. Moir, of Cape Riche. Mr. Moir, who is an Honorary Warden of Fauna, has banded 61 black duck and 2 grey teal during the period February 12 to March 22.

#### HUMPBACK WHALE QUOTAS

Advice has been received from the Commonwealth Fisheries Office that the humpback quotas for Nor'-West Whaling Company Ltd. and Cheynes Beach Whaling Company Ltd. will be the same in 1958 as applied in 1957.

Reminding the Companies of the concern felt over the increase in the percentage of females and the decrease in the average length of humpbacks taken off the west coast, the Office warned that, if these trends continued, consideration would have to be given to a reduction in quotas.

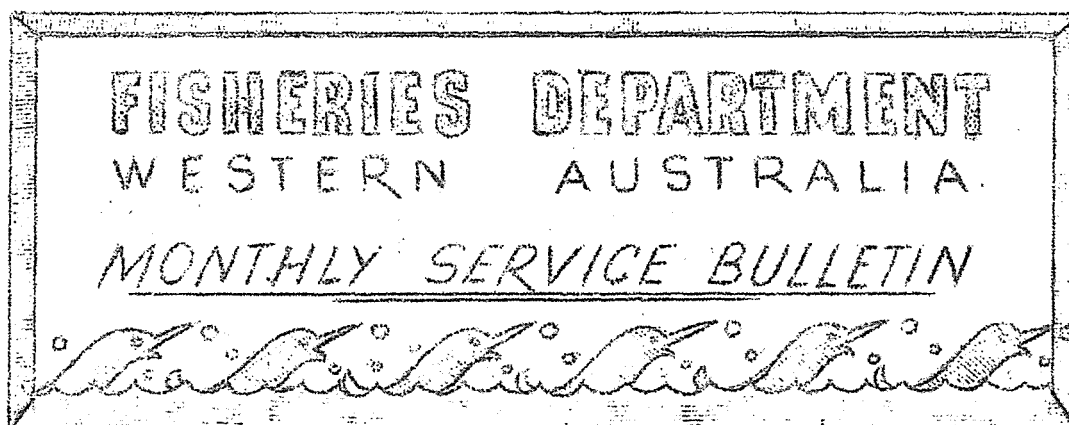
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(WESTERN AUSTRALIA. FISHERIES

7(3) Mar 1958

DEPARTMENT OF PARKS AND WILDLIFE

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Vol. VII, No. 3.

March, 1958

STAFF NOTES

During the absence of the Superintendent (Mr. A.J. Fraser) on Long Service Leave, Mr. B.R. Saville is Acting Superintendent of Fisheries and Acting Chief Warden of Fauna. Mr. Shugg is Acting Clerk-in-Charge and Mr. A.J. Buchanan is Acting Fauna Protection Officer.

We welcome to the staff Mr. W. Johnson who has been seconded from the Chief Secretary's Department as Acting Statistical Officer.

Technical Officer L.G. Smith is recuperating at home after his recent operation.

Technical Officer J. Traynor is continuing the wild duck banding programme in the Dandaragan district.

Assistant Inspectors S. LaRoche and K. Brooks are expected to return to Perth on March 7 after a fortnight's work at Pemberton. Mr. LaRoche will return to normal duties at Mandurah, but Mr. Brooks has tendered his resignation from the service as from March 7.

DUCK BAND RECOVERIES

Since the opening of the duck shooting season the recovery of bands has increased to 332. Of these, 198 were from black duck and 116 from grey teal. This represents a recovery of 7.08% of the total number of birds, 4608, banded to date.

An unusual recording was of a black duck bearing band no. 1044. This bird was banded in June, 1952, at Queen's Gardens and was recaptured there in February, 1958, suffering from botulism. The duck duly recovered and was released again last month with the band, which was in good condition, still attached.

Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
			<u>Maned Goose</u>		
6200	29/11/56	20 mls S.E. of Nyabing	22/12/57	Junction of Williams and Hotham Rivers	128 miles
6196	28/11/56	do.	Late December 1957	27 miles N.W. of Kojonup	90 "
6197	29/11/56	do.	January 5 or 6, 1958	Rosa Brook	185 "
			<u>Mountain Duck</u>		
6370	17/1/57	Yathroo Station	11/1/58	Moora	20 "
			<u>Grey Teal</u>		
4372	7/11/57	Dowerin	24/12/57	3½ miles W. of Boyanup	175 "

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
<u>Grey Teal (Contd.)</u>					
4380	8/11/57	Koom-berkine	29/12/57	7 mls S. of Wagin	147 miles
4287	28/3/57	Karrinyup Lake	23/12/57	Gundaring	140 "
3058	24/11/54	Lake Mears	5/1/58	Dumbleyung Lake	75 "
3079	27/11/54	do.	28/12/57	28 miles E. of Tambellup	130 "
4454	17/11/57	Dowerin	29/12/57	Dowerin	--
4405	14/11/57	do.	do.	do.	--
4398	13/11/57	do.	do.	do.	--
4383	9/11/57	Koom-berkine	19/1/58	Koom-berkine	--
3982	28/3/56	Wardering Lake	31/12/57	Brunswick Junction	83 "
4148	4/12/56	Gundaring Lake	5/1/58	10 miles N.E. of Kojonup	30 "
4311	1/4/57	Karrinyup Lake	8/2/58	Lake Clifton	65 "
1416	5/2/53	Wardering Lake	20/1/58	Trapped at Karrinyup	(Re-banded with band no. 4528)
3843	24/3/56	do.	15/2/58	Lake Charling, Wagin	5 miles

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
4254	9/3/57	Wardering Lake	17/1/58	Teal Lake, near Lake Clifton	100 miles
4427	16/11/57	Dowerin	5/1/58	Dowerin	---
4446	17/11/57	do.	do.	do.	---
4049	12/4/56	Yathroo Station	do.	do.	90 miles
4340	5/11/57	Koom-berkine	2/2/58	do.	8 "

(Due to lack of space in this issue, black duck recoveries are not listed. They will be published next month.)

Since our report in Vol. VI, No. 9, September, 1957, issue of this Bulletin, 15 ducks banded in other States have been recovered in Western Australia. These include two grey teal, one banded at Darwin and recovered at Lake Muir, near Manjimup, and another banded at Lara in Victoria, and recovered near Wagin. The interstate recoveries lead us to suppose that there is a massive movement of grey teal throughout Australia and that the majority migrate to this State via the northern regions. A west-east movement along the southern coast is also probable.

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Vol. VII, No. 2.

February, 1958

ANNUAL INSPECTORS' CONFERENCE

The Annual Conference of Inspectors will be held from February 12 to February 14, 1958, in the Conference Room on the 2nd Floor of the State Government Insurance Office Building, 182 St. George's Terrace, Perth. The Conference will be opened at 10 a.m. on February 12 by the Public Service Commissioner, Mr. K.J. Townsing.

Included among those who will address the Conference will be Dr. D.L. Serventy, Wildlife Survey Section, C.S.I.R.O., and Dr. W.D.L. Ride, Director, W.A. Museum.

OBITUARY

We regret to advise that just before going to press notification was received that Mr. F.J. Griffiths, Chief Guardian of Fauna, Sydney, had passed away.



STAFF NOTES

The Superintendent (Mr. A.J. Fraser), as Chief Warden of Fauna, led the Fauna Protection Advisory Committee on a field inspection of the Great Southern and Eastern Goldfields Districts from January 20 to 31. He was accompanied by Dr. D.L. Serventy, Mr. G.E. Brockway, Mr. J.B. Higham (committee members), Mr. H.B. Shugg (secretary) and Mr. S.W. Bowler, Fauna Warden. A report of the tour appears elsewhere in this issue.

The Superintendent will visit Geraldton on February 9, 10 and 11 and at the end of the month will leave for the eastern States on long service leave. He will visit Canberra and Cronulla.

Officers on leave at the present time include - the Supervising Inspector (Mr. J.E. Bramley), annual leave; Captain H.C.W. Piesse, master of the research vessel "Lancelin", annual and special leave, and Technical Officer J.S. Simpson, long service leave. Each will resume duty this month.

Mr. G.C. Ferguson of Head Office is on special leave attending a 3 months' national service training course.

Technical Officer L.G. Smith will undergo an operation at the South Perth Community Hospital this month.

Technical Officer J. Traynor, who resumed duty after sick leave on January 6, is continuing the duck banding programme in the metropolitan area. He will shortly leave for Cape Riche to set up a permanent trap on the property of Mr. D. Moir, an honorary warden who has offered to co-operate in the Department's wild duck research programme.

Technical Officer J.S. Simpson will, after resuming duty, carry out empirical tests of trout in dams in a survey of progress made in the "Trout for the Inland" scheme.

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### BOTULISM KILLS WATERFOWL

In the last issue of the Bulletin for Honorary Wardens, it was forecast that further outbreaks of botulism might reasonably be expected towards the end of this summer. It seems, however, from the recent discovery of sick and dead ducks along the Como foreshore, that the disease commenced earlier than had been expected. Dr. H. Bennetts, of the Animal Health and Nutrition Laboratory, Nedlands, diagnosed the disease as botulism and it is thought it has probably been caused by the dredging undertaken east of the new Narrows Bridge preparatory to the construction of the new non-access highway. The disease is caused by a very small organism which occurs in decaying vegetation and flesh. When circumstances are favourable, the bacillus multiplies very rapidly and generates a particularly potent poison known as botulinus toxin. The botulinus bacillus is related to two other well known organisms which are the causative agents of gas gangrene, a disease which was prevalent in France in World War I, and tetanus.

A minor outbreak of botulism has also occurred among the ducks in Queen's Gardens where carp and a tortoise have also died recently.

The birds picked up at Como included grey teal, little pied cormorants, little stints (sandpipers) and a banded plover, while those at Queen's Gardens included a domesticated khaki-campbell, a mallard-black duck hybrid and two black ducks. One of the black ducks was carrying band no. 1044, which had been placed on its leg on June 6, 1952, at Queen's Gardens.

### ADVISORY COMMITTEE'S LONG TOUR

During January, the Fauna Protection Advisory Committee was engaged on the longest and busiest field tour it has yet undertaken.

Departing from Perth on January 20, the Committee covered over 1,800 miles of country in the

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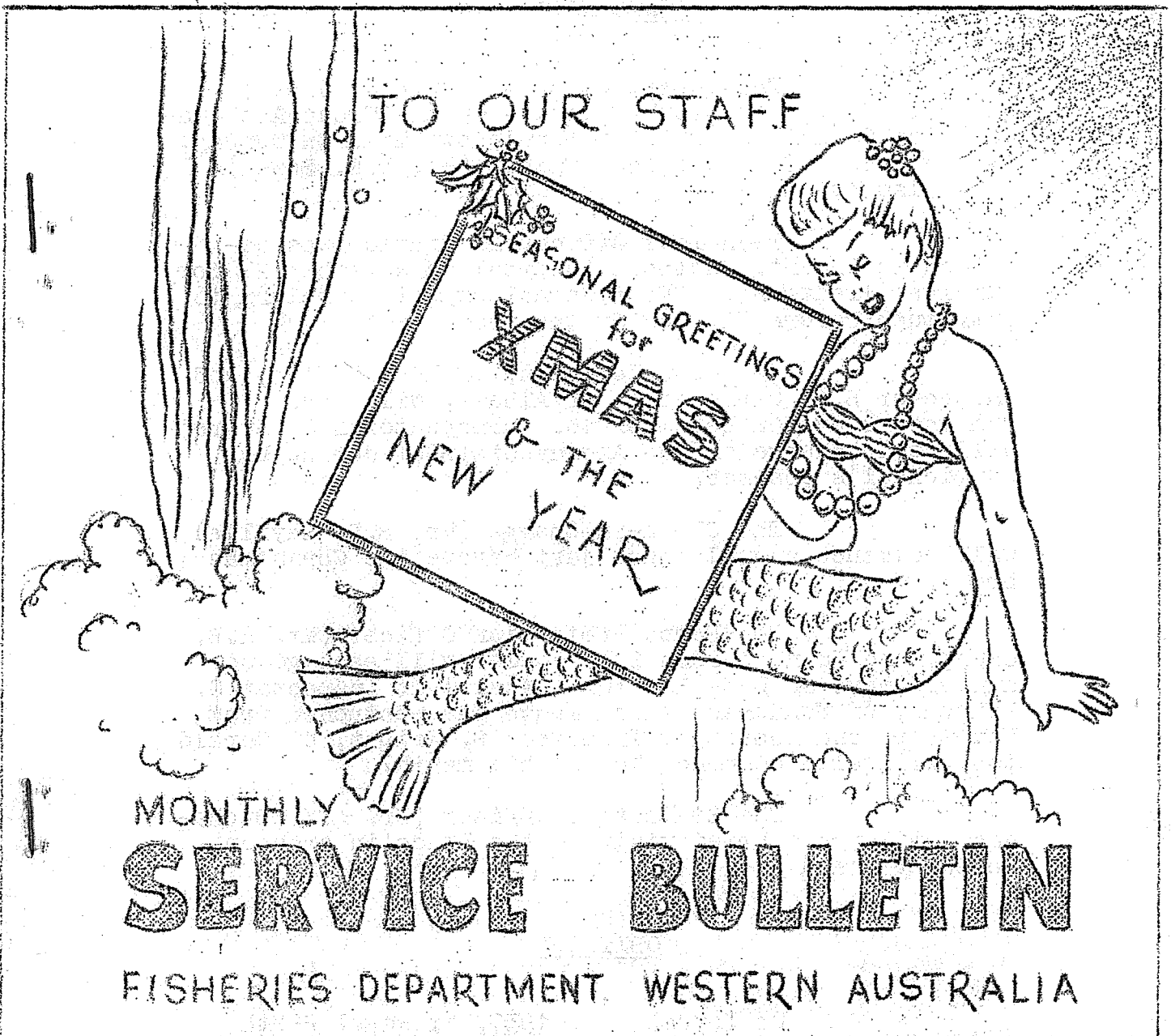
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[MONTHLY SERVICE BULLETIN  
(WESTERN AUSTRALIA. FISHERIES

6(12) Dec 1957

DEPARTMENT OF PARKS AND WILDLIFE

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VOL VI No 12

DEC 1 1957



WILD DUCKS

(a) Open Season in Outlying Areas :

After giving consideration to information made available from duck banding programmes throughout Australia, the Fauna Protection Advisory Committee recently recommended that an extended open season be proclaimed in the Kimberley, Eastern and North-West Land Divisions.

The recommendation, which has been accepted by the Minister, will mean that the season will open in these outback areas on the 22nd of this month, and will not close until 1962.

In making their recommendation, the Committee was mindful of the different breeding seasons of ducks, both geographically and between species. In the Kimberleys, on information received from a competent naturalist and Honorary Warden, Mr. P. Slater, all species except black duck and freckled duck nest during the "wet", i.e., from November to March. Black and freckled duck usually nest later on when the Kimberleys are comparatively dry. Banding programmes have shown that grey teal, the species most commonly shot in light rainfall areas, are opportune nesters and set about breeding wherever and whenever conditions are to their liking. It will be seen that to protect the different species during their breeding seasons would call for a number of close seasons and cause a good deal of confusion. In recent years the same open season has been declared throughout the State, but it is well known that in all outlying areas, where supervision is difficult, shooters take little notice of the close season. Banding results have shown that this has had a negligible effect on the total duck population, so that the prolonged open season will legalise the shooting habits of outback shooters and remove an unnecessary restriction.

(b) Duck Banding :

For the first three weeks in November, Technical Officer J. Traynor was engaged on duck banding

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in the Dowerin district. Mr. Traynor advises that although there was a great number of birds about, they did not enter the traps readily. Before returning to Perth for medical attention, he was able to band a total of 183 birds, of which 166 were grey teal, the remainder being pink-eared, black, wood and mountain duck in about equal proportions.

#### MANDURAH FISHPOT

An unusual but most attractive competition has been designed by Mandurah business men to "sell" their town and district to the holidaymaking public. Named "The Mandurah Annual Fishpot", the competition will commence on December 13. It is already exciting considerable interest, and we are indebted to Assistant Inspector S. LaRoche for having supplied details of the scheme.

In the first place a committee was set up to find something that would boost the town - something that was simple, original and attractive, and in keeping with the character of Mandurah. Fishing and Mandurah being synonymous, the committee bent its thoughts on an angling competition and decided to wed it to the current jackpot craze. Thus the basis of the scheme was born. Business men rushed to support it and guaranteed a weekly prize of goods to the value of £50 which will "fishpot" if not won.

The whole scheme, and the rules, were kept simple. Briefly they are --

- (a) The competition is open to all comers and there is no entry fee or form.
- (b) The fish entered must be caught from waters within the boundaries of the Mandurah Road District by a handline or rod and line.
- (c) The fish must be taken to the recording office at No. 2 Pinjarra Road, Mandurah,





[MONTHLY SERVICE BULLETIN  
(WESTERN AUSTRALIA. FISHERIES

6(11) Nov 1957

DEPARTMENT OF PARKS AND WILDLIFE

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FISHERIES DEPARTMENT, WESTERN AUSTRALIA

MONTHLY SERVICE BULLETIN

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Vol. VI, No. 11.

November, 1957

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STAFF NOTES

The Superintendent (Mr. A.J. Fraser), accompanied by the Clerk-in-Charge (Mr. B.R. Saville), met representatives of the Waroona branch of the Murray Trout Acclimatisation Society on Friday, October 25. In the evening of that day they attended a meeting of the South-West Licensed Fishermen's Association at Busselton. Mr. A.J. Buchanan, of Head Office, spent from October 22 to 26 in the Bunbury district and also attended the meeting at Busselton.

The Superintendent, as a member of the Agriculture Protection Board, will accompany other members of the Board on its tour of the South-West from November 4 to November 8. Meetings have been arranged with local authorities at Busselton, Margaret River, Augusta, Donnybrook, Bridgetown, Manjimup, Boyup Brook and Pinjarra.

Officers at present on annual leave include Mr. B.K. Bowen, Research Officer; Inspector R.M. Crawford, of Geraldton, and Mr. J.M. Mitchell, of Head Office. Mr. Bowen will resume duty on November 18, Inspector Crawford on November 19, and Mr. Mitchell on November 21.

Assistant Inspector S. LaRoche will go on annual leave this month and the Clerk-in-Charge (Mr. B.R. Saville), Fauna Protection Officer (Mr. H.B. Shugg) and Inspector B.A. Carmichael, of Albany, will commence leave in December.



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We welcome to the staff Mr. S. Stokoe, who was appointed Inspector, on October 14. Mr. Stokoe, who had lengthy service with the R.N. and R.A.N., will take command of the p.v. "Misty Isle".

Mr. Ray Emery will commence duty as Cadet Inspector on November 4.

Technical Officer J.S. Simpson will start 3 months' long service leave on November 1.

Cadet Inspector K.R. Dickson has resigned from the Service.

The Fauna Warden (Mr. S.W. Bowler) will leave for the South-West and Kojonup Districts on November 5 to investigate complaints of out-of-season duck shooting and marron fishing.

Assistant Inspector K.L. Brooks will return to the metropolitan area from Geraldton on November 2. He will assist Inspector A.K. Melsom in the Fremantle District.

Assistant Inspector D. Wright, who will return to Perth on the research vessel "Lancelin" on November 1, will leave for Geraldton on November 11 to assist in that district. He will commence annual leave in December.

Assistant Inspector M.J. Simpson has submitted his resignation. He will be replaced by Assistant Inspector E.I. Forster, a new appointee, who will take up duty on November 18.

After Inspector R.M. Crawford resumes duty in the Geraldton District, Relieving Inspector G.C. Jeffery will be posted to Lancelin. He will be assisted by Assistant Inspector R.J. McKay. It has been decided to maintain two inspectors at this centre for the time being.

Technical Officer J. Traynor will this month be trapping in the Dowerin District, where big flocks of ducks have been reported.

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[MONTHLY SERVICE BULLETIN  
(WESTERN AUSTRALIA. FISHERIES

6(9) Sep 1957

DEPARTMENT OF PARKS AND WILDLIFE

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FISHERIES DEPARTMENT, WESTERN AUSTRALIA

MONTHLY SERVICE BULLETIN

Vol. VI. No. 9.

September, 1957

STAFF NOTES

The Superintendent (Mr. A.J. Fraser) and the Clerk-in-Charge (Mr. B.R. Saville) left for an inspection of the Bunbury and Busselton areas on August 29. They had a discussion with the President of the South West Fishermen's Association at Busselton and at Bunbury met some of the local fishermen. They afterwards inspected a fish farming project on land between the Collie River and Leschenault Inlet. The following day they left for Pemberton to attend the Annual General Meetings of the Pemberton-Warren Trout Acclimatisation Society and the Trout Acclimatisation Council of W.A. These meetings were also attended by the Research Officer (Mr. B.K. Bowen).

The Supervising Inspector (Mr. J.E. Bramley) visited Shark Bay and the new Dirk Hartog crayfish grounds last month. He was accompanied by Technical Officer J. Traynor, who investigated possible duck banding sites in areas adjacent.

The Superintendent will commence annual leave on September 9.

Other officers proceeding on annual leave this month include Inspector N.E. McLaughlan on September 2; Technical Officer J. Traynor and Inspector H.J. Murray on September 9, and Inspector A.V. Green on September 23.

too wet in the winter months, but might be used each summer when surrounding seasonal wet-lands dried up.

In co-operation with the Zoology Department and C.S.I.R.O., it is intended to carry out a minor trapping programme and night surveys in the summer months to establish concrete proof of the quokka's occurrence over the extended range, and possibly to attempt some population studies.

#### PRAWN NETTING TO CONTINUE IN THE SERPENTINE

A request by members of the Furnissdale-Barraghup Progress Association for the prohibition of prawn net fishing in the channel system between the lakes and the estuary of the Serpentine River has been refused by the Minister.

Members of a deputation which waited on Mr. Kelly alleged that although camping was prohibited in the area, many prawning parties congregated there and caused a nuisance to residents.

After careful consideration, however, the Minister decided that no action should be taken under the Fisheries Act. The 12' prawn net allowed in the Serpentine River was the type almost universally used in Western Australian estuarine and river waters, and could not be banned on conservation grounds. It was considered that the offended parties should avail themselves of their rights under other laws governing public behaviour.

#### DUCK BAND RECOVERIES

As the season in this State has closed, the number of bands coming in is extremely limited, as may be seen by the table overpage. The number of bands returned has now reached 297, of which 186 were from black ducks and 97 from grey teal. As 4319 ducks have been banded, the recovery rate is 6.88%.

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Band No.	BANDING		RECOVERY		Distance Travelled
	Date	Place	Date	Place	
		<u>Grey Teal</u>			
4203	14/12/56	Flagstaff Lake, Woodanilling	16/3/57	Lake in Woodanilling District	-- miles
4216	12/1/57	Yathroo Stn. Dandaragan	3/8/57	20 miles north-west of Ayr, N. Queensland	2,150 "

The return of band no. 4216 was, however, of extreme interest, as its flight from Yathroo Station to Ayr is believed to be the longest duck movement yet recorded in Australia. This year has seen a number of outstanding recoveries, probably because banding is now carried out by three States - Western Australia, Victoria and Queensland - and by the C.S.I.R.O.'s Wildlife Survey Section in New South Wales and the Northern Territory.

Advice has been received from the latter of the recovery of two bands from grey teal banded near Darwin approximately in the same period. One was recovered 86 miles west of Meekatharra twelve days after banding, while the second was shot on the Queensland-South Australian border north of Cunamulla a few days later. Both were extremely fast flights for such distances.

It is of interest to note that another grey teal, banded at Mildura by the Victorian Department of Fisheries and Game, was recovered near Darwin in recent weeks.

From these and previous recoveries, it is apparent that grey teal are likely to migrate to practically any point in Australia. This highlights the need for the close integration of all banding programmes, a matter which has been listed for discussion at the forthcoming Interstate Conference.

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FISHERIES DEPARTMENT, WESTERN AUSTRALIA

MONTHLY SERVICE BULLETIN

Vol. VI. No. 7.

July, 1957

STAFF NOTES

The Minister for Fisheries (Mr. Kelly) spent the last week of June aboard m.v. "Lancelin" to see for himself the type of investigational work on which the Department is at present engaged in Shark Bay and vicinity. Prior to joining the vessel at Carnarvon Mr. Kelly inspected the Nor'-West Whaling Company's station at Babbage Island.

The Superintendent (Mr. A.J. Fraser), and the Chief Vermin Control Officer (Mr. A.R. Tomlinson), accompanied by Fauna Protection Officer H.B. Shugg, will visit Albany on July 10. They will meet a deputation that evening of members of the Albany Zone Council of the Farmers' Union, and members of the Albany Road Board, to discuss the kangaroo situation in the district. They will return to Perth the following day.

The Clerk-in-Charge (Mr. B.R. Saville) will commence one week's annual leave on July 3.

We welcome to the staff Mr. K.L. Brooks and Mr. K.R. Dickson, who commenced duty on June 15 as Assistant Inspector and Cadet Inspector, respectively.

Mr. W.K. Cherrington will commence duty on July 1 as a Clerk at Head Office. He will occupy an additional position recently created in the Fauna Section.

DUCK BAND RECOVERIES

During the month a further 6 bands were returned and in addition, details were obtained of a band sent in some time ago.

The table hereunder sets out the particulars associated with these recoveries. Band No. 3162 was only the second recovered from a pink-eared duck. In this case the bird was not killed - it was captured alive in moult, the band removed and the bird released.

Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
			<u>Black Duck</u>		
2922	25/10/54	Cockleshell Gully	26/12/56	On a pool 10M. S. of Eradu	90 miles
6583	12/2/57	Butler's Swamp, Claremont	21/5/57	Butler's Swamp (found dead)	--
6831	31/3/57	Karrinyup Lake	24/4/57	Road Lake, Mandurah	50 "
6568	11/2/57	do.	May '57	Butler's Swamp, Claremont, (found dead)	6 "
6720	20/3/57	Bennecke's Swamp, Kojonup District	April '57	Boscabel	7 "
			<u>Grey Teal</u>		
3833	24/3/56	Wardering Lake	22/5/57	Trapped 65 mls N.E. of Lake Grace	140 "

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Band No.	BANDING		RECOVERY		Distance Flown
	Date	Place	Date	Place	
			<u>Pink-eared Duck</u>		
3162	19/1/55	Yealering Lake	Captured alive 15/6/57	14 mls S.W. of Coorow	210 miles

ABROLHOS CRAYFISHERY

The catch at Houtman's Abrolhos continues to exceed production figures of past years. The table at page 114 compares the intensity and results of the fishing force in May last year with those this year. If conditions during the remainder of this season are usual, a record 3 million lb. catch may be expected.

WHITE-NECKED HERONS \*

All officers are invited to send in notes on observations of white-necked herons. Dr. D.L. Serventy, who is a member of the Fauna Protection Advisory Committee, has recorded information on the arrival and departure times and general behaviour pattern of these birds this year, as an irruption of this species is occurring in the South-West at the present time. He says that these irruptions occur periodically - the last was in 1952 - and that they are believed to be caused by unfavourable conditions further north where the bird is more common.

In appearance the white-necked heron, which is also known as the Pacific heron, is similar to the white-faced heron or blue crane, a widely known and popular bird to which it is closely related. The Pacific heron is a slate grey on the upper parts and has a long neck, white underneath, white on the breast and at the bend of the wings. It feeds on aquatic insects and other food obtained in some flooded paddocks.

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FISHERIES DEPARTMENT, WESTERN AUSTRALIA

MONTHLY SERVICE BULLETIN

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Vol. VI. No. 6.

June, 1957

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STAFF NOTES

The Superintendent, Mr. A.J. Fraser, is at present visiting the eastern States on official business. He is expected to return to Perth on June 7.

On Sunday, May 19, the Superintendent, the Clerk-in-Charge, Mr. B.R. Saville, and the Research Officer, Mr. B.K. Bowen, attended the quarterly meeting of the Trout Acclimatisation Council at Dwellingup.

Assistant Inspector M.J. Simpson, who had been assisting Inspector R.M. Crawford at Geraldton, was transferred to duties on the p.v. "Kooruldhoo" on May 21. Assistant Inspector R. McKay, whom he had relieved, is at present stationed at Perth and will leave for Carnarvon on June 12 to act as Whaling Inspector for the duration of the humpback season.

Assistant Inspector T.B. Baines will leave Fremantle on June 10 to take over the Bunbury district from Relieving Inspector G.C. Jeffery, who will return to duties in the metropolitan area.

On June 6 Cadet Inspector G. Hanley will be transferred to Pemberton for three months to assist at the trout hatchery.

The influenza epidemic was felt by the Department during the month when the Clerk-in-Charge, Mr. B.R. Saville, Technical Officers L.G. Smith and J. Traynor, and Inspector H.J. Murray were all afflicted.

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SCORECARDS

The Minister for Fisheries (Mr. Kelly) recently appealed to all sportsmen to continue to co-operate with the Department in its duck research programme. Scorecards have been widely distributed again this year and further supplies are available at this Office. It is essential that a large number of correctly completed cards be returned to allow an assessment of the seasons' results to be made and to establish the present status of the duck population.

DUCK BANDING

With the start of the winter rains the banding programme has been temporarily suspended as usual. A permanent trap has however been completed and a further one is to be constructed, also in the Metropolitan area, and if these traps are successful banding will be continued practically throughout the year.

Recoveries :

Since the previous issue of this Bulletin the following bands have been returned :-

Band No.	Banding		Recovery		Distance Flown
	Date	Place	Date	Place	
<u>Black Duck</u>					
6687	26/2/57	Queen's Gardens	12/5/57	Butler's Swamp (found dead)	6 miles
6628	19/2/57	do.	do.	Chittering Lake	45 "
6742	27/3/57	Karrinyup Lake	25/4/57	Watson's Lake, Wannamal	50 "
3425	8/2/55	Cape Riche	12/5/57	Waterloo	195 "
6119	30/4/56	Queen's Gardens (Retrapped April '57)	28/5/57	Shot on Pool near Preston River, about 8 mls E. of Donnybrook	110 "

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Band No.	Banding		Recovery		Distance Flown
	Date	Place	Date	Place	
			<u>Grey Teal</u>		
3181	23/1/55	Yealering Lake	9/3/57	6 mls n.w. of Moora	175 miles
1344	12/2/53	Wardering Lake	28/3/57	Yalka Pool, Meekatharra	450 "
3118	4/12/54	Meckering	4/5/57	Taarblin Lake	100 "
3876	25/3/56	Wardering Lake	27/4/57	do.	45-50 "
4001	11/4/56	Yatheroo Station, Dandaragan	21/5/57	Wannamal	30 "
1653	21/3/53	Big Bootine Swamp, Beermullah	6/4/57	Dam north of Burracoppin	165 "
3033	23/11/54	Lake Mears	about 20/5/57	Taarblin	50 "
3890	25/3/56	Wardering Lake	15/2/57	Shot on Blackwood River, near Duranillin	25 "

In addition to the above, a particularly interesting band was returned by Mr. L.R. Tuckey, of 10 Sutton Street, Mandurah. It was No. 090-01126 which had been placed on a grey teal at Griffith in southern New South Wales, on January 18, 1957, under the Australian Bird Banding Scheme conducted by the Wildlife Survey Section, C.S.I.R.O. When shot at Boggy Bay, Mandurah, by Mr. L.R. Tuckey on April 30, the bird must have flown approximately 1,900 miles, even if it came by a fairly direct route. The interval between banding and recovery, 103 days, was the shortest yet recorded to demonstrate a trans-continental flight by a duck.

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A teal banded at Lara, near Melbourne, in January 1953, was shot at Rowle's Lagoon on January 10, 1954, and another banded under our own scheme at Lake Karrinyup on April 15, 1954, was shot at Menindee, River Darling, New South Wales, on January 2, 1956.

Another very interesting recent recovery was that of a grey teal banded at Wardering Lake (in the Woodanilling District) on February 12, 1953, and shot at Yalka Pool, 53 miles south east of Meekatharra, by Mr. T.J. Carmody. The band had been eroded and one of the numbers was quite invisible. Through the co-operation of the Inspector in Charge of the Police Department's Scientific Bureau (Inspector A.J. Baird), the band was chemically treated and established as 1344. This was the northernmost recovery and the longest recorded flight of a duck within this State.

#### COMMITTEE'S TOUR OF INSPECTION

Led by the Superintendent (Mr. A.J. Fraser) as Chairman, members of the Fauna Protection Advisory Committee, Mr. J.B. Higham and Mr. A.J. Milesi, accompanied by the Secretary (Mr. H.B. Shugg) and Fauna Warden S.W. Bowler, visited areas in the South-West from May 13-18. After a brief inspection of lakes south of Perth, the party visited areas from which complaints had been received of damage caused by kangaroos and emus. As well as visiting the properties of affected farmers, the party met representatives of the Preston, Nannup, Manjimup and Plantagenet Road Boards to discuss the situation generally, and to receive recommendations from the local authorities.

Before completing their tour, a meeting of the Committee was held at Narrogin on the evening of May 17, when the evidence obtained was reviewed. Owing to the widespread nature of the damage and the ineffectiveness of previous short open seasons, it was decided to recommend a long open season as an experiment, provided that the effects were observed carefully by departmental officers and a close check kept on the pet-food trade.

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FISHERIES DEPARTMENT, WESTERN AUSTRALIA

MONTHLY SERVICE BULLETIN

Vol. VI. No. 5.

May, 1957

STAFF NOTES

The Superintendent, as Chairman, will accompany members of the Fauna Protection Advisory Committee on a six-day survey of areas in the South-West. The party will leave Perth on Monday, May 13, and will meet local authorities and farmers' organisations to discuss fauna problems. Fauna Protection Officer H.B. Shugg and Fauna Warden S.W. Bowler will accompany the Committee. On May 23 the Superintendent will leave Perth by air to attend a meeting of State and Commonwealth fisheries authorities to be held in Canberra.

The Clerk-in-Charge, Mr. B.R. Saville, will visit Geraldton on May 9 on an annual inspection of district office administration.

Technical Officer L.G. Smith resumed duty after long service leave on April 4.

Senior Inspector J.E. Munro commenced annual leave on April 10, on the expiration of which he will commence long service leave. During his absence Inspector H.J. Murray is acting as Senior Inspector and has taken over the Metropolitan district.

Technical Officer J.S. Simpson left Perth by air for Carnarvon on April 26. Mr. Simpson will join the research vessel "Lancelin" as technical officer in lieu of Mr. K. Godfrey, Senior Technical Assistant of the Division of Fisheries and Oceanography,



- (2) All the Swan River downstream of a line drawn from Point Walter to Point Resolution to the sea.
- (3) All districts adjacent to :-
- (a) The north side of the Swan River from Victoria Avenue, Claremont, to Fremantle.
- (b) The south side of the Swan River from Point Walter Road, Bicton, to Fremantle.

#### DUCK BANDING

Since publication of the previous issue of this Bulletin, an additional 203 ducks have been banded. Two hundred were black duck, one was a male mallard and two were mallard hybrids - all were banded at Queen's Gardens, Perth. The total banded since the inception of the scheme is now 4,319, mainly black duck and grey teal.

The total number of bands recovered has reached 275, a recovery rate in excess of 6%. Individual bands returned since the last issue were as follows :-

Band No.	Banding		Recovery		Distance Flown
	Date	Place	Date	Place	
			<u>Black Duck</u>		
2237	20/1/54	Karrinyup Lake	22/4/57	Lake Clifton	65 miles
6796	29/3/57	do.	do.	do.	65 "
6483	6/2/57	Queen's Gardens	14/4/57	Chittering Lake	45 "
			<u>Grey Teal</u>		
3977	28/3/56	Wardering Lake	20/4/57	Taarblin Lake	45 "
3893	25/3/56	do.	30/12/56	1 mile S. of Boyanup	90 "

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(WESTERN AUSTRALIA. FISHERIES

6(4) Apr 1957

DEPARTMENT OF PARKS AND WILDLIFE

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FISHERIES DEPARTMENT, WESTERN AUSTRALIA

MONTHLY SERVICE BULLETIN

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Vol. VI. No. 4.

April, 1957

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STAFF NOTES

The Relieving Inspector (Mr. A.K. Melsom) has been appointed inspector in charge of Fremantle district vice Mr. W. Davidson, retired. He entered on his new duties on March 29.

Mr. G.C. Jeffery (Fauna Warden) is being appointed Relieving Inspector, and Mr. S.W. Bowler, Inspector, Mandurah, will take up the position of Fauna Warden when he resumes duty early in April after 3 months' long service leave.

The vacancy at Broome will be filled by the promotion of Assistant Inspector R.J. Baird. Mr. Baird, accompanied by his wife and three young children, flew to Broome on March 24, taking over from Relieving Inspector Melsom on the following day.

Mr. H.B. Shugg, Fauna Officer, is at present in the Albany district, investigating, with Inspector B.A. Carmichael, reports of damage to crops, pastures, etc., by kangaroos and emus.

The Research Officer (Mr. B.K. Bowen) is at Shark Bay in r.v. "Lancelin".

Assistant Inspector M.J. Simpson, of Mandurah, and Mrs. Simpson, are receiving congratulations on the birth of their second child, another girl. We join heartily in those congratulations. Mr. Simpson is at present assisting Inspector Crawford at Geraldton.

The Superintendent (Mr. A.J. Fraser), as Chairman of the Fauna Protection Advisory Committee and the Rottnest Biological Station Committee, accompanied by Fauna Protection Officer H.B. Shugg and Research Officer B.K. Bowen, secretaries of the respective committees, together with members of the Committees, visited Rottnest Island on March 23 and 24. They were given an outline of the quokka research work carried out to date by Dr. A.R. Main of the Zoology Department of the University of W.A. Dr. Main conducted the visitors to control quadrats which demonstrated the overgrazed condition of the Island. A meeting of the Rottnest Biological Station Committee was held on March 24. Early next month the Superintendent will visit the Bunbury District.

The Fauna Warden (Mr. G.C. Jeffery) resumed duty on March 26 after annual and long service leave.

Assistant Inspector T.B. Baines recommenced in the Fremantle District on March 26 after annual leave.

Technical Officer J. Traynor returned from the Woodanilling - Kojonup Districts on March 22 to carry out further duck banding in the metropolitan area.

Miss V.T. Hogan of Head Office will resign from the public service on April 18. On April 20 she will marry Mr. V.R. Priest, of Maylands, at St. Mary's Church of England, Colin Street, West Perth.

Miss P.J. Pegrum of Head Office will commence annual leave on April 18.

Senior Inspector J.E. Munro will commence 3 months' long service leave on May 1.

Technical Officer L.G. Smith will return to duty after long service leave on April 4.

Inspector N.E. McLaughlan of Shark Bay is scheduled to commence annual leave on April 29.

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DUCK BANDING

Since publication of the previous issue of this Bulletin, a further 214 ducks have been banded in the Woodanilling, Kojonup and metropolitan districts. Of these, 132 were black duck, 60 grey teal and 22 white-eyed duck. Mr. Traynor at the time of going to press was being assisted by Technical Officer J.S. Simpson, at Queen's Gardens, Perth, and was having considerable success. The number of recoveries is beginning to taper off, as is usual at this stage of the open season. The table hereunder sets out additional recoveries.

Band No.	Banding		Recovery		Distance Flown
	Date	Place	Date	Place	
			<u>Black Duck</u>		
3627	21/2/56	Queen's Gardens	17/3/57	Gingin Brook	45 miles
6392	25/1/57	Craigs Lake, Kewdale	17/3/57	Chittering Lake	40 "
6733	22/3/57	Bennecke Swamp, Kojonup	31/3/57	Bennecke Swamp	--
1952	4/5/53	Queen's Gardens	28/3/57	Muddy Lake, Bunbury	105 "
3234	3/2/55	Cape Riche	Mar. '57	Pools in Eyre River, Cape Riche	--
3402	7/2/55	Cape Riche	do.	do.	--
2744	19/5/54	do.	do.	do.	--
			<u>Grey Teal</u>		
3140	8/12/54	Lake at Meckering	2/3/57	8 mls north Ongerup	180 "

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Band No.	Banding		Recovery		Distance Flown
	Date	Place	Date	Place	
<u>Grey Teal (contd.)</u>					
3867	25/3/56	Wardering Lake	23/3/57	Cooks Farm, Moora	195 miles
3381	5/2/55	Cape Riche	24/3/57	Taarblin Lake	135 "

#### OUTSTATION BANKING AND ABSTRACTS

Complaints have been received from the Audit Department that certain outstations have failed to bank their moneys at regular intervals and to furnish abstracts of collections to the Clerk of Courts or Treasury, as the case may require.

Inspectors are reminded that the Treasury Regulations stipulate that all moneys received shall be banked where possible daily, but never less frequently than once weekly. An abstract should also be furnished at least once each week. On no account must departmental moneys be held by an officer for any period in excess.

In the event of no revenue being collected the inspector should forward a "nil" abstract fortnightly.

In all cases where an ordinary receipt is written the inspector must insert the name of the person concerned on the abstract.

Inspectors must adhere strictly to these requirements.

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[MONTHLY SERVICE BULLETIN  
(WESTERN AUSTRALIA. FISHERIES

6(3) Mar 1957

DEPARTMENT OF PARKS AND WILDLIFE

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MONTHLY SERVICE BULLETIN

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Vol. VI. No. 3.

March, 1957

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STAFF NOTES

The Superintendent (Mr. A.J. Fraser) visited the Bunbury and Busselton districts from February 20 to 22.

The Supervising Inspector (Mr. J.E. Bramley) will commence a fortnight's annual leave on March 11, during which he will attend a Navy refresher course in Sydney. With the approval of the Minister, Mr. Bramley will before returning to Perth spend some time in Sydney, Melbourne and Adelaide with a view to making contact with C.S.I.R.O. and other State fishery administrations.

Resulting from the retirement of Mr. W. Davidson, some temporary staff changes have taken place. Senior Inspector J.E. Munro is acting in charge of the Fremantle district pending the return to Perth of Relieving Inspector A.K. Melsom, who is at present acting as Pearling Inspector, Broome. It is anticipated that Assistant Inspector R.J. Baird will transfer to Broome to relieve Mr. Melsom towards the end of this month. Inspector B.A. Carmichael will act in charge of the Albany district. For a time Inspector H.J. Murray will combine the duties of Metropolitan Inspector and Fauna Warden.

Assistant Inspector T.B. Baines, of Fremantle, and Mr. A.J. Buchanan, of Head Office, will commence annual leave on March 5 and 11 respectively.



The Research Officer (Mr. B.K. Bowen) will fly to Shark Bay on March 28 to board the research vessel "Lancelin" in connection with the prawn investigation programme. He will spend about a fortnight in the Bay.

Technical Officer J. Traynor will leave Perth on March 5 to carry out duck banding in the Wagin and Woodanilling Districts.

Technical Officer J.S. Simpson is carrying out preliminary work in Perth on the construction of a permanent duck trap to be installed at Craig's Lake, Kewdale.

The Superintendent, (Mr. A.J. Fraser) Research Officer B.K. Bowen and Fauna Protection Officer H.B. Shugg, will attend a joint inspection by the Rottnest Biological Station and Fauna Protection Advisory Committees of the research work being carried out on quokka at Rottnest Island on Saturday and Sunday, March 23 and 24.

#### PERSONAL PARS

Dr. D.L. Serventy, Principal Research Officer of the Wildlife Survey Section, C.S.I.R.O., stationed in Perth, will leave on March 11 by air for Ceduna. After visiting offshore islands, he will fly to Tasmania and is not expected to return to Perth until April 15.

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Dr. R.G. Chittleborough, Research Officer, Division of Fisheries and Oceanography, C.S.I.R.O., with his family will leave Perth on the m.v. "Westralia" on March 8 on transfer to the Division's headquarters at Cronulla.

\* \* \* \* \*

Mr. Athol Middleton, formerly hydrologist in the Division of Fisheries and Oceanography, C.S.I.R.O., has tendered his resignation from that service as from March 8. He has been appointed a lecturer in physical chemistry at Perth Technical College.

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DUCK BANDING

A further 311 ducks have been banded since publication of the previous figures in last month's Bulletin. The majority of those recently banded were black duck; actually they comprised 290 out of the total. An item of interest was the banding of 10 white-eyed ducks at Karrinyup Lake. Most of these were immature.

Since banding operations commenced early in December, 703 ducks have been banded, bringing the total since the inception of the scheme to 3,902.

Recoveries : Details of further bands recovered since last published are as follows -

Band No.	Banding		Recovery		Distance Flown
	Date	Place	Date	Place	
			<u>Black Duck</u>		
6363	16/1/57	Yathroo Station	3/2/57	Moore River, 13 mls N. of Mogumber	about 20 miles
1516	28/2/53	Karrinyup	10/2/57 again on 11/2/57	Karrinyup	killed by fox
2866	18/9/54	Glengarry Station	27/1/57	4 to 6 mls from outlet Greenough R.	20 miles
2465	21/2/54	Swamp at Moora	11/1/57	Galena	205 "
6415	29/2/56	Craigs Lake	17/2/57	Chittering Lake	40 "
3747	29/2/56	Queen's Gardens	17/2/57	do	40 "
2417	17/2/54	Cook's Farm, Moora	1/2/57	3 mls W. of Gingin	50 "

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Band No.	Banding		Recovery		Distance Flown
	Date	Place	Date	Place	
			<u>Grey Teal</u>		
3013	22/11/54	Lake Mears	4/2/57	12 mls W. Bremer Bay	190 miles
4158	5/12/56	Gundaring	23/12/56	Gundaring	--
3791	11/3/56	Dumbleyung	22/12/56	Dam 12 mls W. Kondinin	65 "
2760	19/5/54	Cape Riche	18/2/57	Kondinin Lake	150 "
3912	26/3/56	Wardering Lake	24/2/57	Boilup Pool 8 mls W. of Kojonup	20 "
3911	26/3/56	do.	do.	Boilup Pool	20 "
3909	26/3/56	do.	16/2/57	Taarblin	45 "
2019	14/12/53	Watson's Lake, Dumbleyung	23/2/57	Bunagarra Lake, Wannamal	190 "
3997	28/3/56	Wardering Lake	22/2/57	Lake Mears	90 "
3169	22/1/55	Yealering Lake	9/3/57	Taarblin Lake	about 25 "
1671	23/3/53	Lake Beer-mullah	1/3/57	Beaufort River	

#### TROUT ACCLIMATISATION COUNCIL

A special meeting of the Council will be held in Perth on March 17. In addition to the Superintendent, who is Chairman of the Council, the Department will be represented by the Clerk-in-Charge (Mr. B.R. Saville); the

DF "MSB" Mar 1957, Vol. VI, N°3.





[MONTHLY SERVICE BULLETIN  
(WESTERN AUSTRALIA. FISHERIES

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6(2) Feb 1957

DEPARTMENT OF PARKS AND WILDLIFE

FISHERIES DEPARTMENT, WESTERN AUSTRALIA

MONTHLY SERVICE BULLETIN

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Vol. VI . No. 2.

February, 1957

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STAFF NOTES

The Superintendent (Mr. A.J. Fraser) visited Albany and Denmark on fishing matters during the month. On February 1 he will leave for Kulikup to investigate requests for a close season for English perch in the upper Blackwood River and tributaries, including the Arthur and Balgarup Rivers.

The Supervising Inspector (Mr. J.E. Bramley) accompanied by acting Fauna Warden B.A. Carmichael, attended Court cases in Geraldton on January 18.

The appointment of Mr. R.M. Morton as Pearling Inspector, Broome, is being annulled as from February 1. Relieving Inspector A.K. Melsom is at present at Broome and will remain there until a permanent replacement is made. Applications for the vacant position will be called shortly.

Messrs B.R. Saville, H.B. Shugg and G.C. Ferguson of Head Office and Relieving Inspector A.K. Melsom and Technical Officer J.S. Simpson all resumed duty in January after annual leave.

We were relieved to hear that Mrs. Gallop, wife of Inspector J.L. Gallop, who underwent a serious operation during the month, is now out of hospital and convalescing satisfactorily.

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the value of the Company's original investigations, and the proceeds, approximately £600 a whale, will enable the Company to install some much-needed new plant.

### DUCK BANDING

Technical Officer J. Traynor reports that during the period November 29, when banding operations recommended, to January 22, 301 ducks were banded. Of these, 146 were black duck and 100 grey teal. The remainder consisted of 42 mountain duck, 9 maned geese, 3 white-eyed duck and one pink-eared duck. They were banded at stations in the Wagin, Woodanilling, Metropolitan and Dandaragan districts. At the present time, Mr. Traynor is operating again in the Metropolitan district.

### Recoveries.

Since the commencement of the open season on December 22, quite a number of bands have been handed in. As will be seen from the table hereunder, a surprisingly large proportion has been recovered from ducks of this season's bandings.

Band No.	Banding		Recovery		Distance Flown
	Date	Place	Date	Place	
			<u>Black Duck</u>		
3740	29.2.56	Queen's Gardens	25.5.56	Dale River, 23 miles W. Beverley	55 miles
3434	28.3.55	do.	May '55	9 miles from Boddington	65 "
3697	27.2.56	do.	approx. 30.10.56	On property at Riley Rd. Riverton	(found dead) 6 "
2698	29.4.54	do.	approx. 28.11.56	North Lake Hamilton Hill	10 "



Band No.	Banding		Recovery		Distance Flown
	Date	Place	Date	Place	
<u>Black Duck</u> (contd)					
6279	19.12.56	Flagstaff Lake	26.12.56	Coyrecup Lake	35 miles
6218	8.12.56	Gundaring Lake	Opening Day '56	Gundaring Lake	- "
2923	25.10.56	Cockle-shell Gully	30.12.56	Walyengarra n. of Lan-celin	50 "
3964	28.3.56	Wardering Lake	13.1.57	Swamp S. Gundaring	20 "
6254	16.12.56	Flagstaff Lake	20.1.57	Fitches Swamp, 12 M. Nth Kojonup	10 "
3424	9.2.55	Cape Riche	9.1.56 or 10.1.56	Near Pingrup	80 "
6243	16.12.56	Flagstaff Lake	27.1.57	Woody Lake	14 "
<u>Grey Teal</u>					
2818	21.5.54	Eyre River Cape Riche	19.5.56	Frankland River	about 120 "
4165	6.12.56	Gundaring Lake	9.1.57	5 mls N.W. Lake Grace	55 "
3791	11.3.56	Dumbleyung	22.12.56	Kondinin	65. "
4159	5.12.56	Gundaring Lake	6.1.57	Gundaring	- "
2622	7.4.54	Karrinyup Lake	30.12.56	Gundaring	140 "

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Band No.	Banding		Recovery		Distance Flown
	Date	Place	Date	Place	
			<u>Grey Teal</u>	(contd)	
3828	23.3.56	Wardering Lake	1.1.57	Parkeyering Lake	12 miles
4152	5.12.56	Gundaring Lake	23.12.56	Gundaring	- "
4161	5.12.56	Gundaring Lake	22.12.56	Wagin	
3851	24.3.56	Wardering Lake	27.1.57	Taarblin	45 "
4166	6.12.56	Gundaring Lake	19.1.57	Gundaring	- "
4068	13.4.56	Yathroo Station	22.12.56	Taarblin Lake	195 "
3200	24.1.55	Yealering Lake	not known	Yealering	- "
3201	"				
			<u>Mountain Duck</u>		
6268	17.12.56	Flagstaff Lake	26.12.56	Coyrecup Lake	35 "
6275	8.12.56	do.	1.1.57	Park	10 "

EXCESSIVE TELEPHONE EXPENDITURE

The Under Treasurer has called attention to the need to economise in the use of telephone facilities. Trunk calls are only to be made or telegrams dispatched when the nature of the business is so urgent that their use is imperative. Alternative mailing facilities are generally good and on all but a few occasions, with a little forethought, can serve adequately.

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(WESTERN AUSTRALIA. FISHERIES

5(12) Dec 1956

DEPARTMENT OF PARKS AND WILDLIFE

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F I S H E R I E S  
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A U S T R A L I A

MONTHLY  
*Service  
Bulletin*

TO OUR STAFF  
FOR XMAS AND  
THE NEW YEAR

*The Most*

VOL V. NO 12 DEC 1. 1956

STAFF NOTES

The Clerk-in-Charge (Mr. B.R. Saville), accompanied by the Research Officer (Mr. B.K. Bowen) and Technical Officer J.S. Simpson, attended a meeting of the Trout Acclimatisation Council at Serpentine on Sunday, November 25. In the absence of the Superintendent (Mr. A.J. Fraser) Mr. Saville chaired the meeting, which among other things discussed the establishment of a holding pond in Perth, a new transport unit and the increasing cost of producing young trout. As no finality was reached, it was decided to call a special meeting later.

The Supervising Inspector (Mr. J.E. Bramley), accompanied by Inspector B.A. Carmichael, visited fishing centres south to Quindalup. They returned via the old coast road to investigate reports of out-of-season duck shooting in the Lake Clifton area.

Assistant Inspector R.J. Baird is stationed at Lancelin for the duration of the crayfish season.

Inspector A.J. Bateman was absent on 10 days' sick leave during the month recovering from the bite of a red-back spider.

Technical Officer J. Traynor has commenced duck-banding operations and expects to be in the Dumbleyung-Wagin area until Christmas.

Inspector B.A. Carmichael is acting as Fauna Warden during the absence of Inspector G.C. Jeffery on long service leave.

Assistant Inspector D. Wright was transferred to Geraldton on November 26 as Assistant to Inspector R.M. Crawford. Mr. Wright has been advised that he will be called up early in January for six months' National Service Training in the Navy.

Relieving Inspector A.K. Melsom is assisting in the Fremantle district and also in the preparation of the research vessel "Lancelin".

Assistant Inspector M.J. Simpson has been assisting Technical Officer J.S. Simpson on trout distribution duties.



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5(8) Aug 1956

DEPARTMENT OF PARKS AND WILDLIFE

FISHERIES DEPARTMENT, WESTERN AUSTRALIA

MONTHLY SERVICE BULLETIN

Vol. V, No. 8.

August, 1956

STAFF NOTES

The Superintendent (Mr. A.J. Fraser) as Chairman, and Fauna Protection Officer H.B. Shugg as Secretary, of the Fauna Protection Advisory Committee, will accompany members of the Committee on an inspection of new sanctuaries in the wheatbelt area late this month. The party expects to leave Perth on August 29 and travel to Merredin, Nungarin, Bencubbin, Welbungin, Koorda and Mollerin and return to Perth through Carribin Rock on September 1.

The Supervising Inspector (Mr. J.E. Bramley) returned from Shark Bay and Carnarvon on Friday, July 27.

Miss V.T. Hogan of Head Office resumed duty after annual leave on July 23.

Officers proceeding on annual leave this month include Technical Officer L.G. Smith, who will commence two weeks' leave on August 1; Inspector A.V. Green, of Albany, from August 6 to 26; and Inspector A.J. Bateman, skipper of m.v. "Silver Gull", from August 20 to September 9. Senior Inspector J.E. Munro plans to commence his leave on September 3, followed by Assistant Inspector G.H. Lyon on September 10 and Inspector Davidson on September 23.

Relieving Inspector A.K. Melsom will in turn be in charge of the Albany, Metropolitan and Fremantle districts during the above periods.

reported elsewhere in this issue, the inspection will be made later this month.

#### DUCK BANDING PROGRAMME

Results obtained from the duck banding programme were reviewed at a meeting of the sub-committee on bird-banding of the Fauna Protection Advisory Committee held on July 31. Those present were Mr. A.J. Fraser (Chairman), Dr. D.L. Serventy (member) and H.B. Shugg, Secretary. Mr. B.K. Bowen (Research Officer) and Technical Officer J. Traynor also attended. Dr. Serventy said that the only obvious conclusion that could be drawn from the recoveries at that stage, was that the duck population of the South-West appeared to be an homogeneous one, although there was some suggestion of movement patterns and of more favoured migrational routes.

It was decided that in future operations in the metropolitan area, the sex and age of the ducks be recorded at the time of banding to allow a more intensive study, and that as many birds as possible would be banded before the commencement of the open season. A recommendation that the possibilities be investigated of establishing traps of a permanent, or semi-permanent, nature within the metropolitan area was adopted. The sub-committee further decided that Dr. Serventy and Mr. Bowen should confer with Mr. N. Stenhouse, a statistician of the C.S.I.R.O., on methods of assessing the information from recoveries to date. It also agreed that the results achieved and deductions drawn from the programme should be published as a technical paper.

#### GOOD KING PRAWN SEASON

From the commencement of operations on March 27, until the flooding of the Peel Estuary on June 9, king prawn catches were very good, reports Inspector Bowler from Mandurah.

Mr. Bowler added that the grand total of 18,566 lb. caught by local professional fishermen was easily the best of any year in the last ten years, according to the records in his office.



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5(7) Jul 1956

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Y SERVICE BULLETIN

Vol. V, No. 7 .

July, 1956.

STAFF NOTES

Mr. B.K. Bowen, of Head Office, has been appointed Research Officer, classification P-II-2/7, as from May 9, 1956. Mr. Bowen is now responsible for the research branch of the Department, and all research and investigational work will be under his control and all technical officers subject to his direction.

Technical Officer L.G. Smith is at present engaged on a mullet tagging programme at Shark Bay. It is expected that Mr. Smith will return to Perth after the first week of this month.

Inspector A.J. Bateman contracted virus influenza and was off duty for the last few days of June. We were pleased to hear that his illness was not of a serious nature, however, and that he is expected to resume duty on July 2.

Technical Officer J. Traynor commenced three weeks' annual leave on June 25. Inspector H.J. Murray plans to take his annual leave later this month but will first visit Albany on special duties. Inspector A.V. Green will be on three weeks' leave from August 6 to 26, inclusive, during which time Relieving Inspector A.K. Melsom will be in charge of the Albany district.

Assistant Inspector R.J. Baird arrived in Geraldton on June 7, to assist Inspector R.M. Crawford during Inspector B.A. Carmichael's absence. Mr. Carmichael was appointed whaling inspector for the current season and has been stationed at Carnarvon since June 8.

We welcome to the staff Miss M.R. Carter who was, on June 18, appointed temporarily to the vacancy caused by Mr. Bowen's transfer to the Research Division. Mr. I. Bartholomew is acting in Mr. Bowen's previous position of Statistical Officer.



of the marking area. As the open season for humpbacks in the Antarctic extends over the first five days of February only, it is assumed that the marked whale was recovered in February, 1956.

#### DUCK BANDING RECOVERIES

As the open season for wild ducks terminated at the end of May, the number of bands returned during June was not great. Unfortunately many people delay sending in bands and recovery information. This results not only in an enforced recasting of our records, but also in incomplete information being submitted as, in the interval between the band's recovery and the reporting of it, specific and vital details are forgotten. All officers are requested whenever possible, to foster public co-operation and the prompt submission of all details when any bands or fish-tags are recovered.

Following are details of the bands returned during June :-

Band No.	Date Banded	Place Where Banded	Date of Recovery	Place Where Recovered	Distance Travelled
<u>Black Duck</u>					
3766	2.3.56	Queen's Gardens	April or May, '56	Queen's Gardens	(found dead)
3786	11.3.56	Dumbleyung	25.3.56	Dumbleyung	-
2515	12.3.54	Wardering Lake	Jan. or Feb. '55	Carrolup River	
3631	21.2.56	Queen's Gardens	May, '56	Burges Siding	55 miles
<u>Grey Teal</u>					
3778	9.3.56	Dumbleyung	1.4.56	Dumbleyung	-
3840	24.3.56	Wardering Lake	10.4.56	Swamp near Wardering Lake	-

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[MONTHLY SERVICE BULLETIN  
(WESTERN AUSTRALIA. FISHERIES

5(6) Jun 1956

DEPARTMENT OF PARKS AND WILDLIFE

FISHERIES DEPARTMENT, WESTERN AUSTRALIA

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MONTHLY SERVICE BULLETIN

Vol. V, No. 6.

June, 1956

STAFF NOTES

The Superintendent (Mr. A.J. Fraser) visited Geraldton from May 23 to 26. In the company of the Minister for Fisheries (Mr. Kelly), he attended a meeting of the Northampton Road Board, called to discuss the Murchison River flora and fauna reserve. He was also present at a civic reception tendered to the Minister by the Geraldton Municipal Council, and visited crayfish processing works.

The Supervising Inspector (Mr. J.E. Bramley) will leave for Geraldton and Shark Bay on June 1. He will be accompanied by Inspector C.R.C. Haynes and Assistant Inspector S. LaRoche. Mr. LaRoche will replace Assistant Inspector T.B. Baines on the p.v. "Kooruldhoo", and Mr. Baines will return to duties in the Fremantle district.

Inspector A.J. Bateman flew to Onslow on May 12 and joined the crew of the research vessel "Lancelin" vice Inspector C.R.C. Haynes, who had been granted compassionate leave. Mr. Bateman will return to Fremantle and resume control of the p.v. "Silver Gull" when Mr. Haynes resumes duty on the "Lancelin".

The Senior Inspector (Mr. J.E. Munro) will visit the south coast during June to undertake patrols of Wilson's and Irwin Inlets.

Inspector R.M. Crawford, who was married to Miss Jean McBean on May 26, was at an informal function on May 25 the recipient of a crystal fruit set with the best wishes of the Superintendent and staff.

Inspector B.A. Carmichael has been appointed whaling inspector for the 1956 season at Carnarvon. It is understood that the Nor'-West Whaling Co. will commence operations at its new station about June 11. Mr. Carmichael will go there as soon as notification is received that whaling has commenced. Our congratulations are extended to Mr. Carmichael, whose engagement to Miss Rona Atley, of Geraldton, was announced last month.

Cadet Inspector R. McKay has been transferred to Pemberton to assist at the trout hatcheries for approximately three months from May 24.

Technical Officer J. Traynor carried out a survey of sections of the 600,000-acre flora and fauna reserve north and east of Bremer Bay. A brief report of the survey is published elsewhere in this issue.

Inspector N.E. McLaughlan resumed duty after annual leave on May 15.

Technical Officer L.G. Smith will leave for Albany on June 1 to continue the estuarine research programme. The following week he will be at Mandurah and Bunbury, and towards the end of the month will visit Shark Bay to carry out a mullet tagging programme.

#### PERSONAL PARS

Dr. M. Blackburn, Principal Research Officer of the Division of Fisheries and Oceanography, C.S.I.R.O., Cronulla, N.S.W., who in the interregnum between the retirement of Dr. Thompson and the appointment of Dr. Humphrey acted as Chief of that Division, has now resigned to take up the appointment of Professor of Marine Biology at the University of Hawaii, Honolulu.

\* \*

Mr. C.G. Setter, Assistant Director of the Commonwealth Fisheries Office, Department of Primary Industry, Canberra, will visit Western Australia early in June for discussions with the whaling companies operating in the State.

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(1) Ten different species of prawns have been observed in the commercial catches. The bulk of the take comprised Penaeus indicus, P. merguiensis (banana prawn, also taken by "Lancelin" in Exmouth Gulf), P. penicillatus, Metapenaeus monoceros and Parapenopsis uncta.

(2) In the creeks the fishermen use beach seines and stake nets and in shallow coastal waters cast nets operated from a boat.

(3) Processing for export consists of removing the head and freezing the tails with shell on.

(4) The prawns are packed according to the number of headed prawns per lb. They start as small as 95-100 count per lb., and go up to 10-14 count per lb. The bulk of the export comprises three categories, viz. 30-35, 35-40 and 40-45 per lb.

(5) At the moment the alimentary canal is removed by hand. This is possible only if the prawns are be-headed soon after capture, in which case the canal is pulled out with the head.

(6) If the prawns are not cold, i.e., they have not been well iced before processing, freezing occupies up to 6 hours. If they have been chilled on ice freezing takes less time.

A further item of interest reported by Dr. Qureshi is the fact that a Karachi firm has commenced the canning of prawns. The product, he says, is very good, and exports have already been made to the United Kingdom. The prawns are packed in a salt solution in a 5-oz. (net weight) can.

#### DUCK BANDING

Due to the onset of winter rains with its consequent scattering of the wild duck population, and also to Mr. Traynor's being engaged on the Bremer Bay reserve survey, only 91 ducks were banded last month. These were all black duck banded at Queen's Gardens and Craig's Lake in the metropolitan area.

It is expected that very little further banding will be possible during the winter months and Mr. Traynor is engaged in completing new lightweight traps for use in the spring.

Recoveries • A further 9 bands were returned since the last issue of this Bulletin, 8 of them being black duck and one a grey teal.

The details are as follows -

Band No.	Date Banded	Place Where Banded	Date of Recovery	Place Where Recovered	Distance Travelled
<u>Black Duck</u>					
1530	4.3.53	Queen's Gardens	Sep. '54	Rocky Lake, County Peak	80 miles
3283	3.2.55	Cape Riche	28.4.56	Cape Riche	--
3730	29.2.56	Queen's Gardens	27.4.56	Marrinup	35 "
3306	4.2.55	Cape Riche	26.4.56	Lot 1022, on a swamp near Narrinup	61 "
3416	9.2.55	Cape Riche	10.5.56	Tudor Flats between Denmark & Albany	77 "
3414	8.2.55	Cape Riche	5.5.56	Cape Riche	--
3278	3.2.55	Cape Riche	6.5.56	Cape Riche	--
<u>Grey Teal</u>					
3809	23.3.56	Wardering Lake	28.4.56	Fitchets Swamp, 14 miles N. of Kojonup	10 "

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