



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
Provincial Environment and Natural Resources Office
Bgy. Sta. Monica, Puerto Princesa City, Palawan
E-mail: penropalawan@denr.gov.ph
Telfax No. (048) 433-5638



November 15, 2022

MEMORANDUM

FOR : The Regional Executive Director
1515 DENR By the Bay Building,
Roxas Boulevard, Barangay 668
Ermita, Manila

THRU : The OIC- Assistant Regional Director for Technical Services
MIMAROPA Region

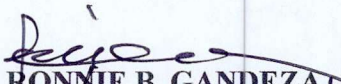
FROM : The Provincial Environment and
Natural Resources Officer

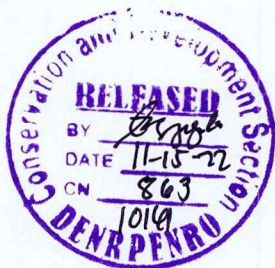
SUBJECT : PWRCC ACCOMPLISHMENT REPORT FOR
THE PERIOD OF JANUARY TO JULY 2022


Furnish is a copy of accomplishment report for the period of January to July 2022 of Palawan Wildlife Rescue and Conservation Center (PWRCC) submitted to this Office dated November 7, 2022 by OIC Project Manager Gina M. Varilla.

For information and reference.

For the PENRO:


RONNIE B. GANDEZA
DMO IV/OIC- Technical Service Division
Officer In Charge



DENR-PALAWAN
PENRO-RECORDS
RELEASED
By 
Date: 15 NOV 2022 22-3054



R4B PENRO Palawan <penropalawan@denr.gov.ph>

Fwd: Accomplishment Report - Jan. to July 2022

1 message

gina m. varilla <giemvi.nrdc@gmail.com>

To: Wildlife Resources Division <wcs.wrd@gmail.com>, R4B PENRO Palawan <penropalawan@denr.gov.ph>

Mon, Nov 7, 2022 at 1:43 PM

Good afternoon.

Providing you a copy of PWRCC accomplishments for the period January to July 2022 submitted to NRDC in September.

My sincere apologies for not including your respective offices in the thread of communication.

The report for the months of August to September shall be submitted **not** later than tomorrow.

Thank you.

----- Forwarded message -----

From: gina m. varilla <giemvi.nrdc@gmail.com>

Date: Wed, Sep 14, 2022 at 4:49 PM

Subject: Re: Accomplishment Report - Jan. to July 2022

To: Lora Mcren Abengoza <labengoza.nrdc@gmail.com>

Cc: Dayin Bernardo <nlbernardo.nrdc@gmail.com>

Hi Lora,

Please see the attached final version of the report with its Annexes and accompanying Memo.

Thanks.

Annex B - summary of necropsy reports.zip

On Wed, Sep 14, 2022 at 1:35 PM gina m. varilla <giemvi.nrdc@gmail.com> wrote:
Wala pa Lora, hindi pa tapos i-draft.

Try ko masubmit this afternoon.

Thanks.

On Wed, Sep 14, 2022 at 1:15 PM Lora Mcren Abengoza <labengoza.nrdc@gmail.com> wrote:
Dear Ma'am Gina, may Memo na po ito submitting kay sir Alex? thank you po

On Mon, Sep 5, 2022 at 2:23 PM Lilly Garcia <lgarcia.nrdc@gmail.com> wrote:
Hi Ms Gina,

Please see memo with comments.

Thanks,
Lilly

Lilly Klara Garcia

Non-Com POPs Project Manager

Natural Resources Development Corporation

9/F DENR Bldg., 1515 Roxas Boulevard, Manila

On Thu, Sep 1, 2022 at 3:47 PM gina m. varilla <giemvi.nrdc@gmail.com> wrote:
Hi Lilly,

Good afternoon.

Please see the 2nd draft of PWRCC accomplishment report for January to July 2022.

Thanks.



GINA M. VARILLA
OIC-Project Manager
Palawan Wildlife Rescue and Conservation Center
Brgy. Irawan, Puerto Princesa City

--
Lora Mc-ren F. Abengoza
Natural Resources Development Corporation
Salus Populi est Suprema Lex



GINA M. VARILLA
OIC-Project Manager
Palawan Wildlife Rescue and Conservation Center
Brgy. Irawan, Puerto Princesa City



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OIC-Project Manager
Palawan Wildlife Rescue and Conservation Center
Brgy. Irawan, Puerto Princesa City

5 attachments



PWRCC - Jan-July 2022-v0914.docx
52K



Annex A-feeds mgnt-P1.pdf
6382K



Annex A-feeds mgnt-P2.pdf
6006K



Annex C-wildlife feeds-weekly requirement.xlsx
29K



Memo for AML - jan to july accomp.docx

Palawan Wildlife Rescue and Conservation Center (PWRCC)
Accomplishment Report
January to July 2022

A. Background

Palawan Wildlife Rescue and Conservation Center (PWRCC), formerly known as Crocodile Farming Institute (CFI), is a recovery program of the Philippines and was established on August 20, 1987 with the primary purpose of ending the extinction and further decline of two species of crocodiles. PWRCC is a technical cooperation between the Philippine government under the Department of Environment and Natural Resources (DENR) and the Government of Japan through the Japan International Cooperation Agency (JICA). It formally opened on March 4, 1988 in a ten-hectare land in Barangay Irawan, Puerto Princesa City, Palawan. The Technical Cooperation agreement between the two countries ended on August 19, 1994. Since then, the PWRCC has become solely a project of the Philippine government under the DENR.

PWRCC is a bold and imaginative project in the true spirit of conservation through sustainable utilization with the following objectives:

1. Conserve the two endangered species of crocodiles in the Philippines-the *Crocodylus mindorensis* or the Philippine crocodile and the *Crocodylus porosus* or the Saltwater crocodile; and
2. Help promote the socio-economic well-being of Filipino people through the development and introduction of a suitable crocodile farming technology.

PWRCC is recognized internationally as a captive breeding operation of *C. porosus* and was registered under the Convention on International Trade in Endangered Species of Flora and Fauna (CITES) on January 4, 1997. This allows the PWRCC to produce and sell *C. porosus* for commercial purposes after favorable endorsement by the Biodiversity Management Bureau (BMB), formerly the Protected Areas and Wildlife Bureau (PAWB).

On June 19, 2000, pursuant to DENR Administrative Order (DAO) No. 2000-49, CFI was renamed as Palawan Wildlife Rescue and Conservation Center (PWRCC).

B. Organizational Structure

Organizational set-up of employees numbering thirty (30) Contract of Service (COS) personnel was maintained by NRDC. Duties and responsibilities commensurate to their skills and capabilities were assigned to individuals whose potential to deliver and accomplish was observed during the transition period in 2021.

C. Revenue Collections

There is a significant increase in revenue collection this year compared to last year due to upsurge of visitors coming to the Center.

COMPARATIVE MATRIX OF COLLECTION

2021				2022			
Month	No. of Guests	Admission Fee	Total	No. of Guests	Admission Fee	Crocodile Holding Fee	Total
January	507	PhP20,700	PhP20,700	1,599	PhP57,950	PhP25,980	PhP83,930
February	371	14,930	14,930	2,467	91,050	43,440	134,500
March	389	15,460	15,460	6,016	223,290	111,240	334,530
April	105	4,190	4,190	10,911	411,320	207,960	619,280
May	100	4,000	4,000	12,947	486,220	273,300	759,520
June	0	0	0	15,177	570,750	349,980	920,730
July	141	5,620	5,620	16,709	623,420	357,240	980,660
Grand Total	1,613	PhP64,900	PhP64,900	64,767	PhP2,464,000	PhP1,369,140	PhP3,833,140

In the middle part of September of 2021, as an additional revenue for PWRCC, the IEC-Marketing staff recommended bringing back the photo opportunity for guests while holding juvenile crocodiles. From then on until December, the Center has collected and additional PhP33,300 revenue for the year. As of July, the crocodile-holding photo opportunity has collectively contributed an average of thirty-five percent (35%) of the total collection (as shown in the above table).

D. Crocodile Farming and Conservation

1. As of July 31, 2022, the inventory of crocodiles are as follows:

Items	<i>C. porosus</i>				
	Eggs	Hatchlings	Juvenile	Sub-adult	Breeders
Beginning Balance, Dec. 2021	0	274	476	86	73
<i>Additions:</i>					
Due to age (change in size)		3			
Due to other reasons (collected)	232				
Total Additions	232	3			
<i>Deductions:</i>					
Due to age (change in size)	3				
Due to deaths		42	11	5	4
Due to sale of crocodile					
Due to other reasons (infertile)	186				
Total Deductions	189	42	22	5	4
Ending Balance, July 31, 2022	55	235	467	81	69

Items	<i>C. mindorensis</i>				
	Eggs	Hatchlings	Juveniles	Sub-adults	Breeders
Beginning Balance, Dec. 2021	0	361	2	31	130
<i>Additions:</i>					
Due to age (change in type)		17	100		
Due to other reasons (collected)	217				
Total Additions	217	17	100		
<i>Deductions:</i>					
Due to age (change in type)	14	100			
Due to deaths		46	27	7	6
Due to sale of crocodile					
Due to other reasons (infertile)	203				
Total Deductions	217	146	27	7	6
Ending Balance, July 31, 2022	0	232	75	24	124

- There was a drastic change in inventory during the month of February when an actual head count and tail-cut reading was conducted. Hatchling House B, which is supposed to be an area for hatchlings, was inventoried with more than 100 juveniles, which explains the reason why some of them was able to jump from their tanks. According to Animal Keeper III, the inventory report they were submitting was just based on record because there was no actual head count conducted since his transfer from Wildlife Rescue to Farming Unit during the time of former Project Director CENRO Angeles. Hence the inventory was rectified immediately.
- According to the Veterinarian, the high rate of crocodile mortality in January to May 2022, mostly comprised of hatchlings, is due to weak immune system at birth. Animal keepers emphasized that deaths of bigger crocodiles are due to stress or traumatic injuries caused by aggression by a dominant pen mate. Based on their experience, in every pen, there is almost always a dominant crocodile who instigates quarrel among pen mates, thus resulting in injuries/wounds, and most of the time, death. Another reason is due to old parental stocks/breeders. To address this issue, the animal keepers suggested to have new pairs of young breeders transferred to a new pen, hence we started the repair works for another breeding pen, P43/44, the budget of which was included in the CY 2021 GAA funds provided by BMB.

2. As of July 31, 2022, total egg collection and hatched eggs are as follows:

Items	<i>C. porosus</i>	<i>C. mindorensis</i>
No. of Active Nests	8	11
No. of Collected Eggs	232	217
Infertile	168	92
Crushed/Cracked/Soft shells	18	0
No. of Eggs Hatched	9	14
Percentage of Eggs Hatched	3%	6%

Note: Still being incubated – CP – 37pcs / CM – 224pcs

- Breeding season for crocodiles normally starts in the fourth (4) quarter of the year. The low egg production this year is caused by old breeders which resulted to eggs with soft shells, either crushed or cracked and with no fertility bond (infertile). In most cases, stress usually resulting from a change in environment (like the damage caused by Typhoon Odette in December 2021) are likely reasons for low egg production.

COMPARATIVE MATRIX OF EGG COLLECTION

	2020		Total	2021		Total	2022		Total
	CP	CM		CP	CM		CP	CM	
Collected	445	499	944	714	697	1,411	232	217	449
Hatched	99	96	195	167	82	249	3	14	17
Percentage	22%	19%		23%	12%		3%	6%	

3. As of July 31, the inventory of crocodile feeds is as follows:

Item	Raw Meat (in kg)	Fish (in kg)
Beginning Balance. Dec. 31, 2021	Approx. 300	0
<i>Additions:</i>		
Procurement (GAA)		1,128
Donations	14,755	22
Total Additions	14,755	1,150
<i>Deductions:</i>		
Usage (Fed to crocodiles/wildlife)	6,200	1,150
Spoilage		
Other Reasons (found not fit for animal consumption)	4,300	
Total Deductions	10,500	1,150
Ending Balance, July 31	4,555	0

- The feeding management of crocodiles is based on the Memorandum dated October 16, 2018 (**Annex A**) of the then Chief, Technical Section to the former Project Director. In accordance with the said Memorandum, crocodile feeds include meat and fish, while the frequency of feeding varies depending on size classification.
- The Center does not refuse or reject voluntary donations of condemned to avoid ill feelings of the donor. A deep pit was excavated by animal keepers for burying volumes of excess condemned meat which are no longer fed to crocodiles as it is either determined to be unfit for animal consumption or might just cause indigestion due to overfeeding.

- Donation of condemned meat and carcasses of dead animals started on September 2021 after a negotiation with the City Veterinarian's and City Slaughterhouse Offices. Those donations proved to be very helpful as additional feeds for crocodiles.

E. Maintenance of Captive Wildlife Species

1. As of July 31, 2022, the inventory of all other wildlife species is the following:

Item	As of Jan. 1, 2021	Current Month	Difference
Mammals	59	53	1
Avian	73	58	5
Reptiles	98	103	
Total	230	214	6

- Based on the summary of necropsy reports (**Annex B**) submitted by the resident Veterinarian, there are various causes of deaths of wildlife animals, i.e. indigestion, gastric bleeding due to stress of captivity, starvation due to inability to eat food, inability to adapt to captivity, and traumatic injury due to predation. Most of these animals were turned-over to the Center already in weak condition.
- Foods for other wildlife animals are comprised of bananas, squash, cucumber, sweet potato, string beans, tomato, eggs, live chicken or duck, dog food (for its nutrients), seed mix concentrate, and some other various vegetables like watermelon, and cabbage. The variety and quantity of foods were prescribed by the Veterinarian/In-charge of Wildlife Rescue Unit. Delivery of feeds on a weekly basis is always coordinated with the PENRO-Supply Officer.

2. As of July 31, 2022, total inventory of wildlife feeds are as follows:

Item	Dry Feeds (in kg)	Fruits (in pc)
Beginning Balance, Dec. 31, 2021	95.20	9,196
<i>Additions:</i>		
Procurement (GAA)	476.55	85,860
Donations	90.75	6,306
Total Additions	576.30	92,166
<i>Deductions:</i>		
Usage (Fed to wildlife)	567.30	97,740
Spoilage		
Other Reasons		
Total Deductions	567.30	97,740
Ending Balance	104.60	3,622

- A weekly food requirement (**Annex C**) prepared by the Wildlife Rescue Unit in-charge is the basis of the food allocation of wildlife animals. This weekly requirement is being monitored by the Official Canvasser as guide on the quantity of items to be ordered from the supplier on a weekly basis, in coordination with the PENRO-BAC Secretariat who takes responsibility in abiding by the provisions of the procurement process.
- The Veterinarian, who prepared the weekly requirement, recommended that mammals and avian should have a variety of foods (bananas, squash, cucumber, sweet potato, live chicken, eggs, string beans, sunflower seeds, dog food, concentrate seed mix, and fresh meat or fish) twice daily (morning and afternoon) while reptiles are fed once a week mostly with live chicken. Market stall owners also donate various overripe veggies and fruits which serve as additional foods for wildlife animals.
- The animal keepers were able to manage wastage of foods by feeding the riper fruits and vegetables first to the animals.

F. Repairs and Improvements.

- Four (4) footbridges in the Nature Park were repaired using sliced/cut trunks of fallen trees (by the use of chainsaw borrowed from PCSD). These footbridges were destroyed last year by flood caused by Typhoon Odette. There are still five (5) bridges for repair but since the request for a unit of chainsaw from PCSD for donation to the Center has not been released yet, the repair activity has been sidelined temporarily.
- An old animal enclosure at the back of Palawan Bearcat cage in the Nature Park was likewise repaired and rehabilitated for six (6) heads of Palawan Porcupine. It served as an additional display for viewing of visitors.
- There are various repairs and improvement activities that need to be done for the year because of the damage caused by Odette, i.e. other wildlife cages, ceiling and walls of crocodile-holding photo booth area, the old turtle pond near the reptile houses, and signage in main and Nature Park entrances. Other items for improvement are one (1) additional reptile cage where a big Python will be housed, a portion of the footbridge in P6, and the vacant space near the photo booth which is recommended by the Veterinarian to be developed into an eagle's enclosure for public viewing. The former Dark Room was likewise recommended by IEC staff to be developed into an Exhibit Room for photos of flora and fauna and artifacts of crocodiles and other wildlife animals.

G. In-Situ Conservation Activities – Add here any other activities related to conservation of the crocodiles and other wildlife.

- Provided technical assistance to Palawan Council for Sustainable Development (PCSD) in the validation of crocodile sightings in Brgys. Taratak and Rio Tuba in Bataraza;
- The Animal Keeper III participated as Resource Person in the "Law Enforcement Basic Orientation for Wildlife Enforcement Volunteers" as per invitation of the Puerto Princesa City ENRO, and another one for Bantay Gubat Volunteers conducted by the Calamianes Resilience Network, Inc.

H. Other Notable Activities

- i. Of the three visitors' waiting areas (nipa huts) near the entrance gate which were slightly damaged by Typhoon Odette, two were already repaired utilizing bamboos for seats and large tree trunks as improvised tables. The rough floorings were also cemented making them more appealing to visitors.
- ii. At the photo booth area, a slide show of photos of various associations, groups, families, famous personalities and kids who came to visit the Center is flashed in the TV monitor as a form of an effective encouragement to new guests to have their own photos taken with juvenile crocodiles as souvenirs.
- iii. An old wildlife enclosure adjacent to the cage of Palawan Bearcat was rehabilitated and converted into a new enclosure for Palawan Porcupine as an additional attraction for visitors. The latter is formerly caged in the far end of the Nature Park and is seldom seen by guests.



Department of Environment and Natural Resources
Natural Resources Development Corporation
Palawan Wildlife Rescue and Conservation Center
Brgy. Irawan, Puerto Princesa City, Palawan
Email: pwrcc.nrdc@gmail.com

MEMORANDUM

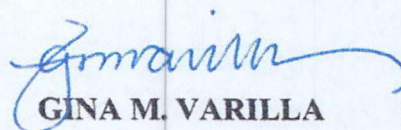
FOR/TO : Mr. Alexander M. Linde
OIC, Administrative Division

FROM : The OIC-Project Manager

SUBJECT : **PWRCC ACCOMPLISHMENT REPORT FOR THE PERIOD
JANUARY TO JULY 2022**

DATE : September 14, 2022

Please find attached the above-stated report specifying the tasks relative to organizational structure, revenue collection, crocodile farming and conservation, maintenance of captive wildlife species, egg collection, repair and improvements, in-situ and other notable activities of PWRCC.


GINA M. VARILLA

cc. Wildlife Resources Division
BMB

PENRO-Palawan

WILDLIFE FEEDS REQUIREMENT
January to December 2022

		JANUARY				
		1-9	10-16	17-23	24-31	
Unit	Item Description	Qty.	Qty.	Qty.	Qty.	Total
piece	Banana	4050	3150	3150	3600	13950
kg	Cucumber	3	3	3	3	12
kg	Sweet potato	3	3	3	3	12
kg	Squash	3	3	3	3	12
kg	Tomato	3	3	3	3	12
kg	Fresh meat	4				4
sack	Concentrate seed mix, 20kgs	1				1
tray	Egg				1	1
sack	Dog Food (22.68kgs.)		1			1
kg	Stringbeans	2	2	2	2	8

		FEBRUARY				
		1-6	7-13	14-20	21-28	
Unit	Item Description	Qty.	Qty.	Qty.	Qty.	Total
piece	Banana	2700	3150	3150	3600	12600
kg	Cucumber	3	3	3	3	12
kg	Sweet potato	3	3	3	3	12
kg	Squash	3	3	3	3	12
kg	Tomato	3	3	3	3	12
kg	Fresh meat	4				4
sack	Concentrate seed mix, 20kgs	1				1
tray	Egg				1	1
sack	Dog Food (22.68kgs.)		1			1
kg	Live chicken	14				14
kg	Stringbeans	2	2	2	2	8

		MARCH				
		1-6	7-13	14-20	21-27	28-31
Unit	Item Description	Qty.	Qty.	Qty.	Qty.	Total
piece	Banana	2700	3150	3150	3150	1800
kg	Cucumber	2	3	2	3	2
kg	Sweet potato	2	3	2	3	2
kg	Squash	2	3	2	3	2
kg	Tomato	2	3	2	3	2
kg	Fresh meat	4				4
sack	Concentrate seed mix, 20kgs	1				1
tray	Egg				1	1
sack	Dog Food (22.68kgs.)		1			1
kg	Live chicken	14				14
kg	Stringbeans	2	2	2	2	8

		APRIL				
		1-3	4-10	11-17	18-24	25-30
Unit	Item Description	Qty.	Qty.	Qty.	Qty.	Total
piece	Banana	1350	3150	3150	3150	2700
kg	Cucumber	2	3	2	3	2
kg	Sweet potato	2	3	2	3	2
kg	Squash	2	3	2	3	2
kg	Tomato	2	3	2	3	2
kg	Fresh meat	4				4
sack	Concentrate seed mix, 20kgs	1				1
tray	Egg				1	1
sack	Dog Food (22.68kgs.)		1			1
kg	Live chicken	14				14
kg	Stringbeans	2	2	2	2	8

		MAY				
		1-8	9-15	16-22	23-31	
Unit	Item Description	Qty.	Qty.	Qty.	Qty.	Total
piece	Banana	3600	3150	3150	4050	13950
kg	Cucumber	3	3	3	3	12
kg	Sweet potato	3	3	3	3	12
kg	Squash	3	3	3	3	12
kg	Tomato	3	3	3	3	12
kg	Fresh meat	4				4
sack	Concentrate seed mix, 20kgs	1				1
tray	Egg				1	1
sack	Dog Food (22.68kgs.)		1			1
kg	Live chicken	14				14
kg	Stringbeans	2	2	2	2	8

		JUNE					
		1-5	6-12	13-19	20-26	27-30	
Unit	Item Description	Qty.	Qty.	Qty.	Qty.	Total	Total
piece	Banana	2250	3150	3150	3150	1800	13500
kg	Cucumber	2	3	2	3	2	12
kg	Sweet potato	2	3	2	3	2	12
kg	Squash	2	3	2	3	2	12
kg	Tomato	2	3	2	3	2	12
kg	Fresh meat	4					4
sack	Concentrate seed mix, 20kgs	1					1
tray	Egg				1		1
sack	Dog Food (22.68kgs.)		1				1
kg	Live chicken	14					14
kg	Stringbeans	2	2	2	2		8

		JULY					
		1-3	4-10	11-17	18-24	25-31	
Unit	Item Description	Qty.	Qty.	Qty.	Qty.	Total	Total
piece	Banana	1350	3150	3150	3150	3150	13950
kg	Cucumber	2	3	2	3	2	12
kg	Sweet potato	2	3	2	3	2	12
kg	Squash	2	3	2	3	2	12
kg	Tomato	2	3	2	3	2	12
kg	Fresh meat	4					4
sack	Concentrate seed mix, 20kgs	1					1
tray	Egg				1		1
sack	Dog Food (22.68kgs.)		1				1
kg	Live chicken	14					14
kg	Stringbeans	2	2	2	2		8

95400

		AUGUST					
		1-7	8-14	15-21	22-28	29-31	
Unit	Item Description	Qty.	Qty.	Qty.	Qty.	Total	Total
piece	Banana	2800	3150	3150	3150	1350	13600
kg	Cucumber	2	3	2	3	2	12
kg	Sweet potato	2	3	2	3	2	12
kg	Squash	2	3	2	3	2	12
kg	Tomato	2	3	2	3	2	12
kg	Fresh meat	4					4
sack	Concentrate seed mix, 20kgs	1					1
tray	Egg				1		1
sack	Dog Food (22.68kgs.)		1				1
kg	Live chicken	14					14
kg	Stringbeans	2	2	2	2		8

		SEPTEMBER					
		1-4	5-11	12-18	19-25	26-30	
Unit	Item Description	Qty.	Qty.	Qty.	Qty.	Total	Total
piece	Banana	1800	3150	3150	3150	2250	13500
kg	Cucumber	2	3	2	3	2	12
kg	Sweet potato	2	3	2	3	2	12
kg	Squash	2	3	2	3	2	12
kg	Tomato	2	3	2	3	2	12
kg	Fresh meat	4					4
sack	Concentrate seed mix, 20kgs	1					1
tray	Egg				1		1
sack	Dog Food (22.68kgs.)		1				1
kg	Live chicken	14					14
kg	Stringbeans	2	2	2	2		8

		OCTOBER					
		1-9	10-16	17-23	23-31	Total	
Unit	Item Description	Qty.	Qty.	Qty.	Qty.	Total	
piece	Banana	4050	3150	3150	3600	13950	
kg	Cucumber	3	3	3	3	12	
kg	Sweet potato	3	3	3	3	12	
kg	Squash	3	3	3	3	12	
kg	Tomato	3	3	3	3	12	
kg	Fresh meat	4				4	
sack	Concentrate seed mix, 20kgs	1				1	
tray	Egg				1	1	
sack	Dog Food (22.68kgs.)		1			1	
kg	Live chicken	14				14	
kg	Stringbeans	2	2	2	2	8	

		NOVEMBER					
Unit	Item Description	1-3 Qty.	4-10 Qty.	11-17 Qty.	18-24 Qty.	25-31 Total	Total
piece	Banana	1350	3150	3150	3150	3150	13950
kg	Cucumber	2	3	2	3	2	12
kg	Sweet potato	2	3	2	3	2	12
kg	Squash	2	3	2	3	2	12
kg	Tomato	2	3	2	3	2	12
kg	Fresh meat	4					4
sack	Concentrate seed mix, 20kgs	1					1
tray	Egg				1		1
sack	Dog Food (22.68kgs.)		1				1
kg	Live chicken	14					14
kg	Stringbeans	2	2	2	2		8

		DECEMBER					
Unit	Item Description	1-3 Qty.	4-10 Qty.	11-17 Qty.	18-24 Qty.	25-31 Total	Total
piece	Banana	1350	3150	3150	3150	3150	13950
kg	Cucumber	2	3	2	3	2	12
kg	Sweet potato	2	3	2	3	2	12
kg	Squash	2	3	2	3	2	12
kg	Tomato	2	3	2	3	2	12
kg	Fresh meat	4					4
sack	Concentrate seed mix, 20kgs	1					1
tray	Egg				1		1
sack	Dog Food (22.68kgs.)		1				1
kg	Live chicken	14					14
kg	Stringbeans	2	2	2	2		8

Prepared by:

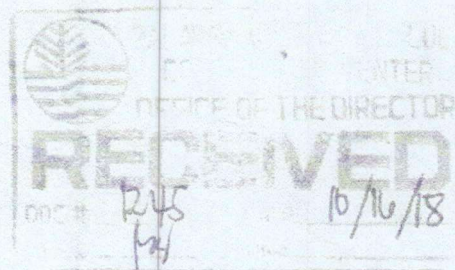
GLENN G. REBONG
 Veterinarian



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MEMORANDUM

FOR : The Project Director
FROM : The Chief Technical Section
DATE : October 16, 2018
SUBJECT : Feeds and feeding husbandry management of Crocodiles at PWRCC



Range of body measurements that determine the classification of crocodiles

Class	<i>C. mindorensis</i> BW* (kg)	TL** (cm)	<i>C. porosus</i> BW (kg)	TL (cm)	Estimate Age (yr.)
Hatchling	0.04-0.55	40-65	0.04-0.55	40-65	< 1.5
Juvenile	0.55-8	65-120	0.55-10	65-150	1.5-4.5
Sub-adult	8-30.5	120-190	10-70.5	150-270	4.5-7
Breeder	>30.5	>190	>70.5	>270	>7

*BW=body weight **TL=total length

Feeds and feeding of each size classification of crocodile

Class	Feed	Frequency (per week)	Allocation (%BW/feeding)	Supplementation (%oyster shell/vit.)
Hatchling	Meat and Fish	3 to 4 times	5 to 10%	3 to 5%
Juvenile	Meat and Fish	2 to 3 times	3 to 5%	2 to 3%
Sub-adult	Meat and Fish	2 to 3 times	2 to 3%	2 to 3%
Breeder	Meat and Fish	1 to 2 times	1 to 2%	2 to 3%

Presentation of food is very important. By this, however, we do not refer to aesthetics but rather, to its size and form. Since 1 year crocodile cannot manipulate nor swallow large particles of food, it is important to give them ground food or chopped food. For 2-3 year old crocodile, feed should be chopped. For 2 year old crocodile, chopped food should be about 1x2 inches and for 3 year old, 2x3 inches. This will also allow efficient mixing of supplements. Large sharp bones in the food must be removed to prevent injury to the stomach of hatchlings and juveniles except to the large or sub-adult and breeder size.

Feed allotment is equivalent to five to 5-10% of the body weight per feeding depending on the feed type. More complex feeds such as pork, beef and carabeef may be given at 5 % on the total

body weight. Chicken and fish may follow a higher range. When feeding fish supply must also be fresh to prevent thiamine deficiency. Feeding frequency is 3 to 4 times a week for one-year old crocodiles and 2 to 3 times a week for 2 to 3-year old crocodiles and 1 or 2 times a week for adult or breeder sizes of crocodiles.

To avoid wastage of feeds, take noting of the amount of feed given to the crocodiles and the amount of left over. Feed consumption of crocodiles should be recorded in the prescribed form for monitoring purposes to determine when to increase or decrease feed allocation. Feeding should be done in the afternoon because crocodiles eat more during this time of day. When feeding, spread the feeds in three or four different places to allow all crocodiles to have an equal chance of feeding. In addition, planks of wood should be used as feeding boards. These boards must be washed after every use. Leftover should be removed and buried the following morning to avoid the possibility of introducing diseases.

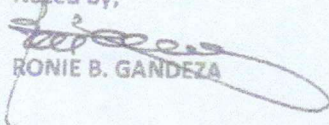
These kind of feeding management husbandry practices was also adopted the good management idea of other crocodile farms in abroad by the Palawan Wildlife Rescue and Conservation Center (PWRCC) formerly Crocodile Farming Institute (CFI).

Prepared by;



SALVADOR L. GUION

Noted by;



RONIE B. GANDEZA