



# PROJECT REPORT

## PROJECT FOR INDEMNIFICATION FOR DAMAGES TO CORN PLANTINGS BY LEAR'S MACAWS (HARVESTS - 2013)

### 1. PROJECT CONTEXT

The **Project for Indemnification for Damages to Corn Plantings by Lear's Macaws** has the main goal of lessen, to the minimum extent possible, the negative effects of systematic attacks by Lear's macaws on corn crops located in the Ecoregion of the Raso da Catarina, Bahia State/Brazil, by the reducing or avoiding the formation of a negative image among the rural population and these native birds in light of the progressive incidence of conflicts with farmers which has contributed to the image of the birds as a pest to their fields, since the Lear's supply of native resources have become more and more restricted due to the destruction of the Caatinga native vegetation.

In this way, the **Project for Indemnification for Damages to Corn Plantings by Lear's Macaws** is a continuous project which has carried out direct measurement of damages, estimated the harm to the attacked fields, reimbursed the farmers according to their losses, and, at the same time, promoted environmental awareness with the farmers and inhabitants of the rural communities embraced by the Lear's Macaws field range.

#### **# Partners / Responsibilities**

- **Parrots International**  
Responsible for funding the Project
- **Lymington Foundation**  
Responsible for funding the Project
- **Nutrópica**  
Responsible for funding the Project
- **The Parrot Society UK**  
Responsible for funding the Project
- **Phoenix Landing**  
Responsible for funding the Project
- **American Federation of Aviculture**  
Responsible for funding the Project



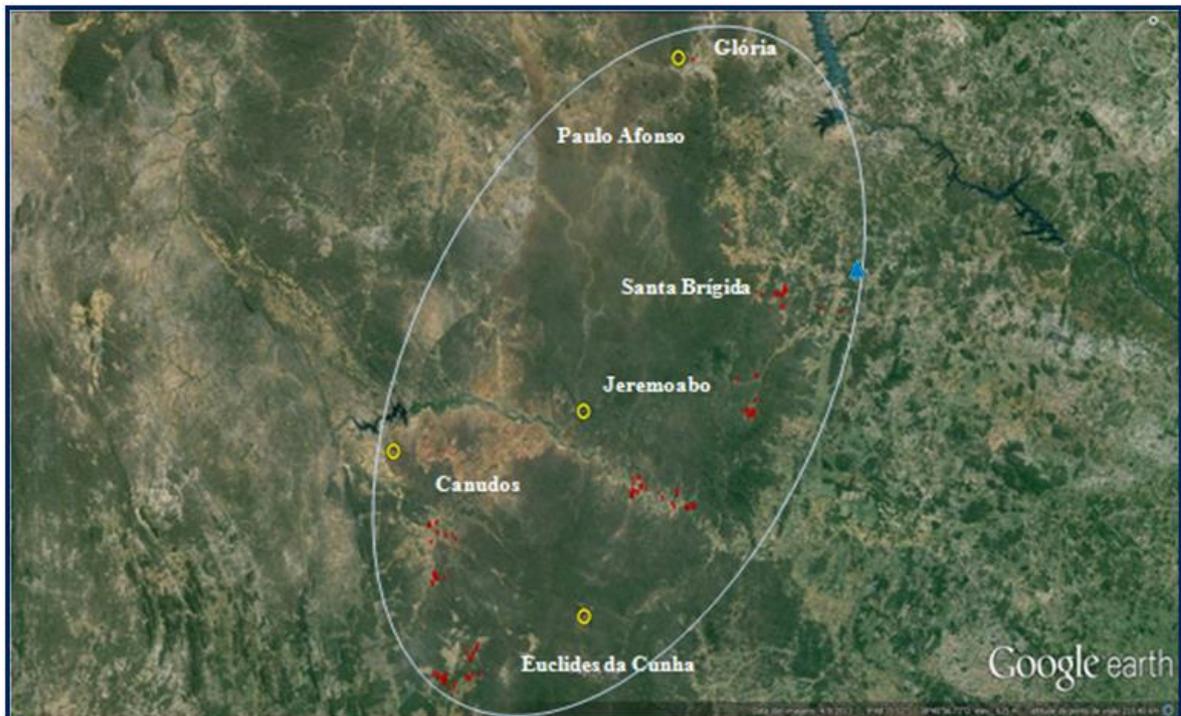
- **The Parrot Fund / Amigos de las Aves USA**

Responsible for funding the Project

- **ECO – Environmental Conservation Organization**

Responsible for implementation of field activities / Funding the Project

## # Map of the Area Embraced by the Project



**Figure 1** – Distribution of the Nesting/Roosting Sites (yellow circles) and Farms Victimized (red marks) by Lear's Macaws' Attacks; area where the Lear's Macaws were shot (blue triangle); and, area embraced by the Project (gray ellipse). (Image: Google Earth).

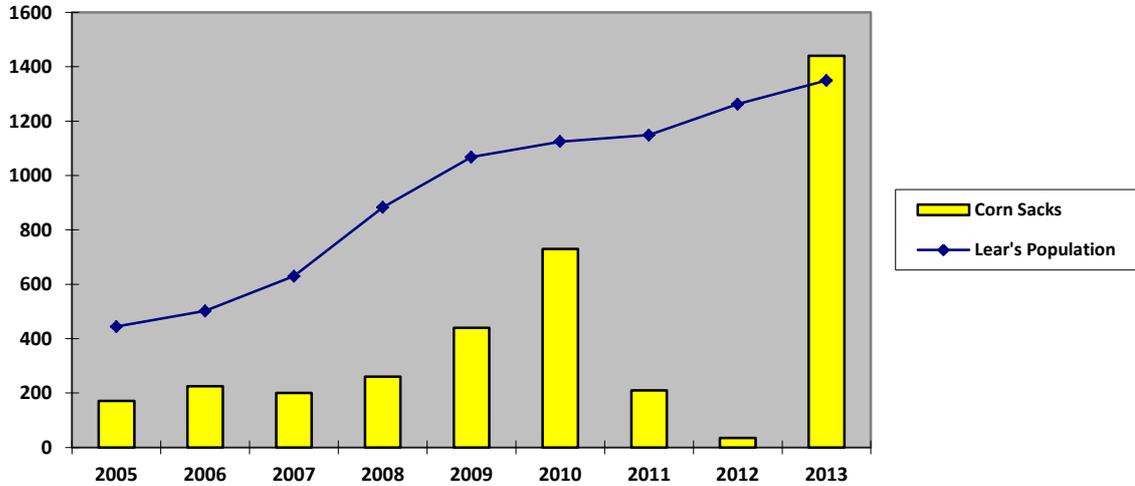
Nowadays, the area embraced by the Project is about **6,000** square kilometers, where are located six municipalities (**Figure 1**).

## 2. BENEFICIARIES

From 2005 to 2014, the **Project for Indemnification for Damages to Corn Plantings by Lear's Macaws** has benefitted a total of **475 rural properties** (*total amount of estimated damages: 3,693 corn sacks = 221.58 tons*), located in 27 rural villages in the municipalities of Canudos, Euclides da Cunha, Glória, Jeremoabo, Paulo Afonso and Santa Brígida – all in Bahia State – being Canudos, Jeremoabo and Euclides da Cunha the most important areas due to the amount of damaged corn plantings (**Graphic 1** and **Graphic 2**).

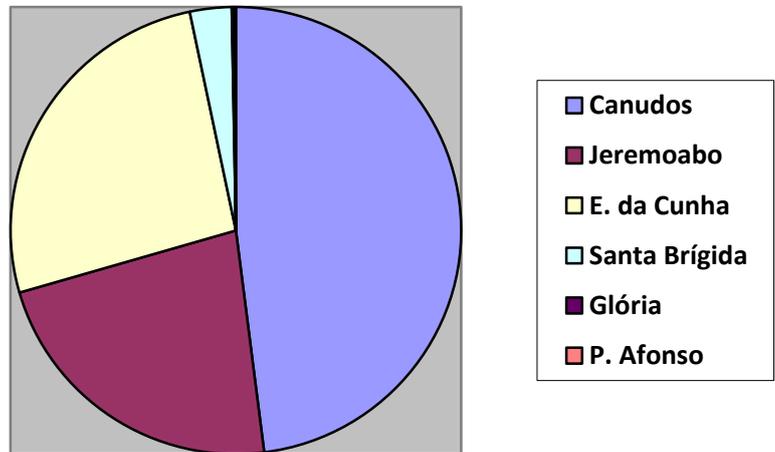


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**Graphic 1** – Yearly distribution of damages by Lear’s Macaws x Population of Lear’s Macaws

It is very important to emphasize that the very reduced number of damages seen in the years 2011 and 2012 doesn’t mean the macaws stopped attacking corn crops, but really means that due to the severely low rainfall in the region the cultivation of maize was almost completely precluded throughout those years.



**Graphic 2** – General distribution of Lear’s Macaws’ damages (in corn sacks) by municipality.

**3. DONATIONS – 2014 (2013 harvests)**

In order to support all the field work and the purchase of the total amount of corn sacks required to reimburse all the farmers whose crops plantations were victimized by the Lear’s Macaws attacks, in the harvests of 2013, the partners donated a total of **USD \$ 21,628.14**, as described below:

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 Recife/PE. CEP: 50.050-290 – Brazil. Phone/Fax: + 55 (81) 9788-3715  
 E-mail: [eco@eco-conservation.org](mailto:eco@eco-conservation.org) Webpage: [www.eco-conservation.org](http://www.eco-conservation.org)



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<b>Institution</b>	<b>Support</b>	<b>Donation (USD \$)</b>
<i>Parrots International</i>	Field works/Purchase of corn	<b>5,575.00</b>
<b>Lymington Foundation</b>	Field works/Purchase of corn	<b>3,575.00</b>
<b>Nutrópica</b>	Field works/Purchase of corn	<b>2,575.00</b>
<b>The Parrot Society UK</b>	Purchase of corn	<b>4,118.14</b>
<b>Phoenix Landing</b>	Purchase of corn	<b>785.00</b>
<b>American Federation of Aviculture</b>	Purchase of corn	<b>2,000.00</b>
<b>The Parrot Fund USA</b>	Purchase of corn	<b>1,750.00</b>
<b>ECO – Env. Conserv. Organization</b>	Field works	<b>1,250.00</b>
	<b>Total (USD \$)</b>	<b>21,628.14</b>
	<b>Total (BRL \$)</b>	<b>48,508.67</b>

With the purpose of surveying all the farms victimized by the Lear's Macaws attacks, five expeditions to the area were carried out where were identified and measured **136** corn plantings, and the harm done to the crops was estimated at **1,440** corn sacks (**86.4 tons**).

The total amount of donations destined for purchase of corn sacks was enough to buy **80.9%** of the total amount required to reimburse all the farmers. The corn was bought and vouchers delivered to the farmers that they exchanged for sacks of corn at local dealers (Invoices of Purchase of corn sacks are in **Attachment 1**).

#### **4. GOALS REACHED**

- Corn plantations subject of attacks has been identified, quantified, geo-referenced and measured;
- Damages suffered by the plantings has been evaluated and quantified;
- Losses suffered by the farmers has been reimbursed;
- The rural populations in the Lear's Macaw field range are more sensitized to the critical survival situation of the species and have a higher involvement in conservation of the species and the Caatinga itself.

#### **5. CONCLUSION**

Despite the efforts exerted in the Project have become more robust each year, unfortunately there is seen an increase in the adverse posture on the part of many farmers whose plantings have been victims of attacks by macaws. Examples of reduced planting areas and even abandonment of corn cultivation is evident because farmers know that they will not obtain a harvest as long as the birds systematically attack plantings along their foraging routes. Even worse, sometimes they employ their children to each day scare away the birds causing them to lose school classes only to avoid losses of their corn. In addition, it points up the reports of farmers shooting macaws that were attacking corn plantings in new feeding areas.



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Since there is no effective means to scare away the Lear's Macaws besides the continuous presence of persons on the planting area shouting and gesticulating on their approach, which is absolutely unviable effort during the long crop season, in order to avoid, or at least, reduce the damages suffered on the cornfields by the Lear's Macaws attacks; the attacks on corn crops will continue and become more and more intense each year as the Lear's Macaws native population has also increased; there is very strong relationship between the amount of attacks/damages to corn crops due to Lear's predation and the increase of the its population at wild.

Therefore, since the licuri palm is the primary food supply for the Lear's Macaw, as well as, also being used as a forage reserve for livestock in the severe dry periods, - a situation that is currently taking place in that region, since it represents practically the only alternative of food for wildlife (fruits, flowers and leaves) and domestic fauna - cattle and goats (leaves). All the other plant species, whether native or cultivated, die or lost all their leaves as a survival strategy to face hard droughts. This situation points up the importance and urgency of the development of effective actions to increase the supply of food resources for the fauna (native and livestock) of the region. Lacking this, what will happen is a definite increase in conflicts each year. It is mandatory to begin a parallel project with the purpose of replanting licuri palm seedlings across the region, because of the importance of this palm to the Lear's Macaw conservation in the wild, as well as to the farmers which need another optional food supply for their livestock to face the chaotic situation of drought that usually hits the entire region.

Finally, it must pointed out that there is a conflict situation between farmers and the native population of these birds which emphasizes the absolutely indispensable nature of the **Project for Indemnification for Damages to Corn Plantings by Lear's Macaws** for the success of the Conservation Program for the species. This is in order to diminish the conflict situation in the foraging areas and avoid a negative image of the birds on the part of the local population with whom we are trying to create a partnership allied with various actions that can come together for the *in situ* conservation of this wild species. So, in all of this it is important to emphasize that even when is not possible to satisfy all the farmers, we are doing something very important to preserve the Lear's macaw native population and this is the main goal of our actions.

Recife/PE, September 17<sup>th</sup>, 2014.

**KILMA MANSO**  
**General Co-ordinator**



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## PARTNERSHIP



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CASA DO PRODUTOR		NOTA FISCAL		00034							
JOSIVAN COSTA MENEZES - ME Av. Recife, Nº 105 - Centro - Tel.: (75) 3203-1735 CEP 48.540-000 - JEREMOABO - BA		<input checked="" type="checkbox"/> SAIDA <input type="checkbox"/> ENTRADA		1ª via - Branca - Destinatário 2ª via - Azul - Fisco/Fisco 3ª via - Rosa - Fisco/Destino							
NATUREZA DA OPERAÇÃO <i>venda</i>		CFOP	INSC. EST. DO SUBSTITUTO TRIBUTÁRIO	CNPJ	13.015.010/0001-42						
DESTINATÁRIO / REMETENTE		INSC. EST. <b>081.850.332ME</b>		DATA LIMITE PARA EMISSÃO <b>05/11/2015</b>							
NOME / RAZÃO SOCIAL <i>Organização PI Comemorativa do mei AMB</i>		CNPJ/CPF <i>05.486.987/0001-11</i>		DATA DA EMISSÃO <i>19/05/2014</i>							
ENDEREÇO <i>Av. Agamenon Magalhães, 2615 Espinheiro</i>		BAIRRO/DISTRITO <i>Espinheiro</i>		CEP <i>52020-000</i>							
MUNICÍPIO <i>Recife</i>		UF <i>PE</i>		INSCRIÇÃO ESTADUAL <i>insenta</i>							
DATA DA SAIDA/ENTRADA		HORA DA SAIDA									
DADOS DO PRODUTO											
COD. PROD.	DESCRIÇÃO DOS PRODUTOS	CL. FISC.	SIT. TRIB.	UNID.	QUANT.	VALOR UNIT.	VALOR TOTAL	ALIQ. ICMS	IPI		
	<i>milho em grãos</i>			<i>SC</i>	<i>200</i>	<i>33,00</i>	<i>6.600,00</i>				
	<i>milho em grãos</i>			<i>SC</i>	<i>60</i>	<i>35,00</i>	<i>2.100,00</i>				
<b>CÁLCULO DOS IMPOSTOS</b>											
BASE DE CÁLCULO DO ICMS		VALOR DO ICMS		BASE DE CÁLCULO DO ICMS SUBST.		VALOR DO ICMS SUBSTITUIÇÃO		VALOR TOTAL DOS PRODUTOS			
VALOR DO FRETE		VALOR DO SEGURO		OUTRAS DESPESAS ACESSÓRIAS		VALOR TOTAL DO IPI		R\$ <i>8.700,00</i>			
VALOR TOTAL DA NOTA R\$								R\$ <i>8.700,00</i>			
TRANSPORTADOR / VOLUMES TRANSPORTADOS											
NOME/RAZÃO SOCIAL				FRETE POR CONTA 1 - EMITENTE <input type="checkbox"/> 2 - DESTINATÁRIO <input type="checkbox"/>		PLACA DO VEICULO		UF		CNPJ/CPF	
ENDEREÇO				MUNICÍPIO		UF		INSC. ESTADUAL			
QUANTIDADE <i>260</i>		ESPÉCIE <i>sacos</i>		MARCA <i>milho</i>		NÚMERO		PESO BRUTO		PESO LÍQUIDO	
DADOS ADICIONAIS											
INFORMAÇÕES COMPLEMENTARES											
GRAF7 - Tancredo Araujo de Oliveira ME. Avenida Recife - nº 42 - Centro - Jeremoabo - BA - Insc.Est. 082.084.666 ME - CNPJ 13.060.856/0001-02 02TIs. de Nota Fiscal 50x03 Núm. Inicial de 00001 a 00100 AIDF Nº 99300113722013 EM 06/11/2013 - VÁLIDO P/ USO ATÉ 05/11/2015											
RECEBEMOS DE <b>JOSIVAN COSTA MENEZES - ME</b> OS PRODUTOS CONSTANTES DA NOTA FISCAL INDICADA AO LADO DATA DE RECEBIMENTO: <i>/ /</i> IDENTIFICAÇÃO E ASSINATURA DO RECEBEDOR								NOTA FISCAL		<b>00034</b>	

**Note:** the price of the sack of corn (60 kg) was **BRL \$ 32.00 – 35.00 (USD \$ 14.3 – 15.6 – Rate: 1: 2.24)**

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**ATTACHMENT 2**



**Figure 2 – A)** Meeting for delivering of vouchers at Santa Brígida municipality; **B)** Meeting for delivering of vouchers at Jeremoabo municipality; **C)** Delivering of vouchers to farmer at Paulo Afonso municipality; **D)** Delivering of vouchers to farmer at Glória municipality; **E)** Delivering of vouchers to farmers at Canudos municipality; and **F)** Delivering of vouchers to farmers at Euclides da Cunha municipality.

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