

2012 Japan Fund for Global Environment

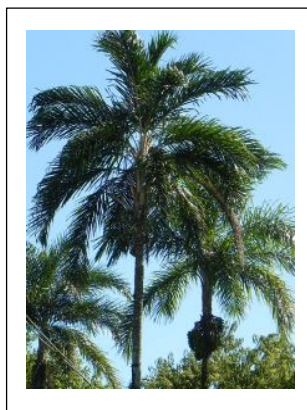
“The agroforestry by Jussara palm (*Euterpe edulis*) with Brazilian Fruits promoting enterprise for the small-scale farmers to conserve and restore the Atlantic forest in state of São Paulo, Federative Republic of Brazil”

Purpose of the activity	<p>This project as part of activities to prevent global warming through the rainforest conservation, in order to promote the conservation of the Atlantic forest in Brazil (Mata Atlântica) that has been harvested 97% by the agricultural development of Japanese immigrants, etc., and our project which aims to contribute to the economic independence of small farmers living in Mata Atlântica by disseminating agroforestry (AF) by Jussara palm with Brazilian Fruits of native species.</p> <p>This project is intended to form a network of industry, academia and government to establish a sustainable farming methods do not depend on illegal logging forest.</p>
Overview of the activity	<p>This project has many experts of forest conservation, community development, AF, food processing, distribution, sales and other experts to participate in Brazil and Japan. And basic research (agriculture, fishing forestry, rural life, such as AF needs) carried out below items in the city Sete Barras, state of Sao Paulo adjacent to the Mata Atlântica,</p> <p>1st. Cooperation with the organization counterpart, 2nd. Mid and long term planning, 3rd. Development of the technical guidance such as Raising seedlings, management and cultivation. 4th. Engaged in industry, academia and government networks in order to realize the fruit processing and sales.</p>
Background of the activity	<p>Brazil is the country of the world's largest Japanese immigrants, about 260,000 Japanese went to Brazil before World War II through the postwar period. Many Japanese immigrants are engaged in cotton plantations and coffee plantations etc. in Brazil, to demonstrate the inherent politeness and patience, played a significant contribution to agricultural development in Brazil.</p> <p>However, the Atlantic forest (Mata Atlântica) and the Amazon of Brazil has continued to the present decrease of tropical</p>

	rainforest by developing large-scale illegal logging and due to delays in improving the lives of local residents, if you leave it, Brazilian rainforest that has been concern can be reduced significantly.
The grant amount in 2012	¥1,600,000-
The goal of the grant activity in fiscal 2012	The goal of the grant activity in fiscal 2012 is to conduct pilot projects based on project execution plan in fiscal 2012 AF by Jussara palm with Brazilian Fruits in the city Sete Barras.
Expected effects of the grant activity in fiscal 2012	The implementation of pilot projects in fiscal 2012, grasp of Jussara palm AF needs, due to the establishment of AF leadership Jussara palm seedlings and the establishment of production base Jussara palm, prevention of illegal logging and sustainable management of small-scale farmers around the city Sete Barras can be expected.
Implementation Schedule	<ul style="list-style-type: none"> · April 2012: In Japan, the implementation of meeting Japan project Jussara palm AF. · May 2012: In the city Sete Barras, the implementation of pre-conference survey commissioned Jussara palm AF with Brazil and Japan joint project. · July 2012: In the city Sete Barras, the implementation of meeting Jussara palm AF with Brazil and Japan joint project. · July – December 2012: In the the Sete Barras, the implementation of pilot projects based on projects implementation plan in fiscal 2012. · January 2013: In the city Sete Barras, commissioned a follow-up survey of the pilot projects based on projects implementation plan in fiscal 2012. · March 2013: Create a compilation of activities and reports.
Implementation system	<ul style="list-style-type: none"> · Japanese organization: Projects committee Jussara palm in the NPO VERSTA (Dr. Masaaki Yamada/ Associate Professor, Tokyo University of Agriculture and Technology Graduate School of Agriculture. Mr. Akio Chikai/President ,Café do Centro Japan Co., Ltd.. Dr.Yoshikazu Onose/ Ph.D, Management Consultant) · Brazilian counterpart organization: Co-Projects committee Jussara palm with Brazil and Japan(Dr. Guenji Yamazoe/ Presidente,ABJICA. Former minister, State of Sao Paulo Institute of Forestry Department of Environment. Mr. Wagner Portilho/ Forest Foundation. Mr. Gilberto Ota/Manager of

	Agricultural Department, The Sete Barras City. Mr. Luiz C. Fazuoli /Campinas Agricultural Research Institute(CAI). Dr. Celso C. Lopes / Associate Professor, University of Campinas (UNICAMP). Mr. Olympio Rosa Silva /Leader of Rio Preto Sete Barras, etc.)
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【Current Status of Rio Preto Sete Barras】



List of substances and antioxidant component activation key of life (excerpt) fruit from Brazil

Fruit from Brazil (excerpts)		Vitamin C (mg/100 g fresh matter)	Total anthocyanins (mg/100 g fresh matter)	Extractable polyphenols (mg GAE/100 g)
Name	Species			
Acerola	Malpighia emarginata	1357 ± 9.5	18.9 ± 0.9	1063 ± 53.1
Camu-camu	Myrciaria dubia	1882 ± 43.2	42.2 ± 17.0	1176 ± 14.8
A: Açaí, assai	Euterpe oleracea	84.0 ± 10	111 ± 30.4	454 ± 44.6
B: Juçara, Jussara	Euterpe edulis	186 ± 43.3	192 ± 43.2	755 ± 8.3
B/A (%)		221.4	173.0	166.3
Function		*Prevention of scurvy *Promote absorption of minerals	*Antioxidant (to prevent hardening of the arteries, stroke) * Suppression of muscle fatigue	*Antioxidant effect *Hormone promoting activity

Source : Maria do Socorro M. Rufino "Bioactive compounds and antioxidant capacities of 18 non-traditional tropical fruits from Brazil", Food Chemistry 121 (2010) 996-1002