

**SOCIAL AND BIOLOGICAL IMPACT OF OIL PALM (*Elaeis guineensis* Jacq.)
PLANTATIONS IN THE EASTERN BRAZILIAN AMAZON**

Biological and Conservation

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Statistical results about the difference of biodiversity between oil palm plantations and natural forest.

Difference of species richness between natural forest and oil palm areas for each taxonomic group using generalized linear models (GLMs). Diff = difference; SD.diff = standard deviation of the difference. * *P* value < 0.05; ** *P* value < 0.001

Taxonomic groups	Forest	Oil palm	Diff	SD.diff	<i>t</i>	<i>P</i>
Odonata	2.09	2.15	0.056	0.157	0.361	0.722
Hemiptera	2.83	2.37	-3.295	0.137	-3.295	0.003 **
Reptiles	1.61	1.15	-0.457	0.224	-2,042	0.068
Amphibians	2.32	1.95	-0.373	0.140	-2,667	0.022 *
Fishes	3.04	3.26	0.217	0.083	2,619	0.016 *
Birds	4.54	4.04	-0.502	0.084	-5,948	< 0.001 **
Mammals	2.77	2.35	-0.426	0.240	-1.77	0.096
Plants	2.99	2.85	-0.139	0.085	-1,638	0.105

Difference of Shannon diversity between forest and oil palm areas for each taxonomic group using generalized linear models (GLMs). Diff = difference; SD.diff = standard deviation of difference. * *P* value < 0.05; ** *P* value < 0.001.

Taxonomic groups	Forest	Oil palm	Diff	SD.diff	<i>t</i>	<i>P</i>
Odonata	1.77	1.83	0.060	0.163	0.350	0.730
Hemiptera	2.80	2.30	-0.502	0.165	-3.041	0.006 **
Reptiles	1.42	1.03	-0.386	0.218	-1.770	0.107
Amphibians	1.99	1.58	-0.416	0.216	-1.922	0.081
Fishes	2.76	2.96	0.195	0.081	2.417	0.025 *
Birds	4.25	3.56	-0.680	0.085	-7.980	< 0.001 **
Mammals	2.03	1.77	-0.257	0.185	-1.384	0.185
Plants	2.79	2.32	-0.466	0.124	-3.759	< 0.001 **