

Programs synthesis, areas and developed research

No.	Program	Areas	Research developed
1.	State and tendencies of the natural system in Guatemala	Land and territory Water Forests Biodiversity Pollution Energy Non-renewable natural resources Climate change and vulnerability	<ul style="list-style-type: none"> • Environmental Profile of Guatemala • Follow up of the Millennium objectives with emphasis on the environmental sustainability goal. • Relationships among land ownership, productive efficiency and environmental quality • Methodologies to conduct analysis on forest resources at the landscape level.
2.	Environmental socio-economy	Economy of natural resources Economy of environmental conditions Global chains of goods Clean production Rural development Sustainable development Macro-economy and the environment	<ul style="list-style-type: none"> • Integrated Environmental and Economic Accounts of Guatemala (SCAEI). • Sector distribution of the growth of job offer in Guatemala's highlands • Establishing investment priorities in highway infrastructure to promote agriculture growth in Guatemala's highlands. • Proposal of the Rural Development Program • Assessment of the National Program of Forest Incentives (PINFOR)
3.	Systems of agriculture and protection of plants	Agriculture production systems Plant protection Food and nutritional security	<ul style="list-style-type: none"> • Current situation and perspectives of agriculture in Guatemala. • Analysis of the food situation in Guatemala
4.	Biotechnology	Tissue cultures Molecular biology	<ul style="list-style-type: none"> • <i>In vitro</i> propagation of non-traditional crops • Propagation of endangered wild species
5.	Human ecology	Human ecology	<ul style="list-style-type: none"> • Population dynamics in Guatemala
6.	Information systems	Socio-environmental indicators Socio-environmental statistics	<ul style="list-style-type: none"> • Concept development, design and development of the Integrated Economic and Environmental Information System (SIESAM) • Diagnosis of environmental statistics development in Guatemala • Indicators to follow-up on the impact of environmental funds in Guatemala.

