

**MANITOBA REMOTE SENSING CENTRE
SURVEYS AND MAPPING BRANCH
MANITOBA NATURAL RESOURCES**

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Major Products and Services: The Manitoba Remote Sensing Centre (MRSC) conducts digital image processing of satellite data for resource studies, inventorying, and environmental monitoring. The Centre is also responsible for the operation of the Canadian World Crop Monitoring Program through which daily satellite imagery is processed in order to determine crop quality, vigor and yield forecasts. Other services and products include: consulting, research and development, education, technology transfer, provision of satellite imagery, thematic land cover maps, joint venture opportunities, and rental of equipment.

Desired Alliance With Other Firms: The MRSC is interested in the growth and fostering of remote sensing and related aerospace industries in Manitoba. In this regard, the Centre makes equipment available and provides joint venture opportunities for industry and academic institutions who wish to work in this field. Co-operative project work is undertaken and brokerage services are provided for those wishing linkages with the Centre for mutual benefit.

Technology Expertise: The MRSC has a highly skilled staff with expertise in digital image processing, consulting, project management, aerial photography, and most other types of specialized mapping aspects. Staff of the Centre bring over 20 years of operational production related experience to tasks at hand. Coupled with strong and varied educational backgrounds in geography, forestry, cartography, remote sensing and business, the staff of the Centre are able to combine all their past experience to assist in providing remote sensing solutions to many resource and environmental issues.

Products Developed: Weekly NOAA satellite image composites for crop assessment purposes, colour land use/land cover maps for Manitoba, forest cover maps of Canada, and a wide assortment of other thematic maps and inventories conducted over the years.

Products in Development: Currently, the Centre is working in the field of Radar Data Development for purposes of assessing its use in land and resource inventories, and to acquire and provide for the necessary expertise when Canada launches its own RADARSAT satellite. Ongoing research is conducted in advanced digital image processing with the Canada Centre for Remote Sensing.