



Association for Canadian Educational Resources offers:

1. **Our Schoolyard-Measuring Our Resources (OSY)** is a cross-curricular program for schoolyards as a long-term commitment to monitor established trees and/or new plantings. The students map schoolyards, inventory trees and measure changes, work with technical advisors and report internationally on changes in forest biodiversity. The program includes training, equipment, hands-on support and a forum network. ACER 's new program **"Planting for Change"** is an experimental planting schoolyard plot to record influences of climate change for teachers who are graduates from OSY/Summer Institute. www.measureup.ca
2. **Resources that support monitoring initiatives** include manuals, CD, DVD and online resources that support training and implementation of programs, equipment, data management, data sharing links with educators and scientists in the provincial, national and international community. www.measureup.ca and www.acer-acre.org
3. **Integrity and respect among Canadian scientists** is shown through contracts with Environment Canada - Impacts and Adaptation, Meteorological Service Ontario and Health Canada. ACER was a guest and trainer at the Panama Symposium on Climate Change and Biodiversity in North, Middle and South Americas in February 2008. www.climatechangeandbiodiversity.ca
4. **Track record.** ACER has focused on tracking changes in forest biodiversity with students for twelve years. See www.canada-biodiversity.ca where 6 of 14 Canadian papers involve ACER's student work.
5. **A unique set of community-based forest biodiversity sites.** In 1996 ACER established 1 ha plots in southern Ontario with outdoor education partners to collect data using Smithsonian protocols. The Niagara Peninsula Project (NPP) 2008 revisited partners with established sites and researched new monitoring sites. A research study is currently underway on 5 Escarpment sites with an ACER team that includes our University of Waterloo co-op student.
6. **Experience working with youth at risk and new Canadian professionals** to monitor planted, experimental and forest sites. E.g. Humber Arboretum and Humber Youth Stewardship project with City of Toronto and 6 partners in 2009.

7. **Measure and Mulch** program of experimental plantings for Climate Change began in 2002. The climate change lab (1ha) at Humber Arboretum represents 76 species, planted, then measured annually, by Gr.6-12 students. Classes receive bus subsidy and training to measure and mulch trees in May and Oct.

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