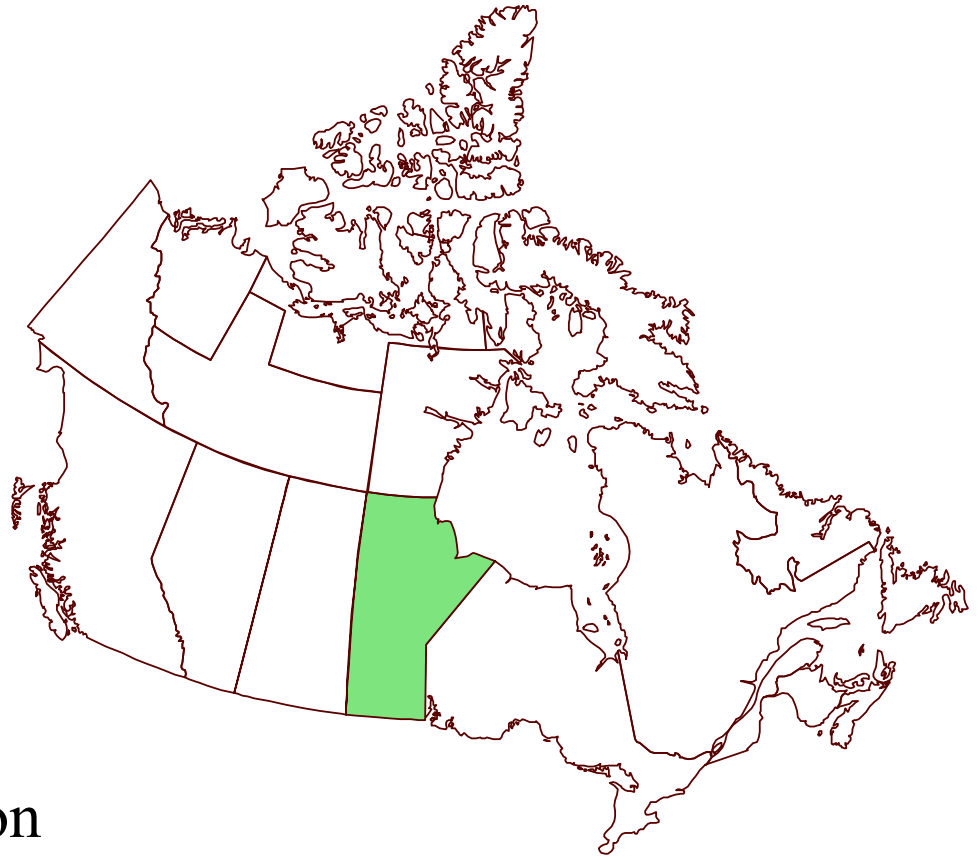


E-Waste in Manitoba



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November 15, 2003

Electronics Recycling in Manitoba

- Electronics Products Stewardship of Manitoba
 - Partnership of NGO, Government and Industry
 - Organize a one-time collection event
 - Analyze and process material
 - Report on findings
 - Report available on-line [@
http://www.mb.reducingwaste.ca/templates/hazardous.html](http://www.mb.reducingwaste.ca/templates/hazardous.html)

<http://www.mb.reducingwaste.ca/templates/hazardous.html>

Electronics Recycling in Manitoba

- \$130,000 in funding
 - Sustainable Development Innovations Fund,
 - Manitoba Hydro,
 - Thomas Sill Foundation and
 - Government of Canada Action Plan 2000

Electronics Recycling in Manitoba

- \$106,000 in donated support from
 - Beyond Excellence
 - Bison Transport
 - Buhler Corporation
 - CanWest Global
 - CBC Radio
 - CJOB Radio
 - CompuSmart
- Hewlett Packard Canada
- Manitoba Hydro
- Powerland Computers
- Prairie Computers
- Syrotech Industries
- Empowered Communications
- Thomas Sill Foundation
- Versatech Industries

<http://www.mb.reducingwaste.ca/templates/hazardous.html>

Electronics Recycling in Manitoba

- Event based collection
 - 5 Winnipeg, 1 Rural site
 - Saturday and Sunday October 19 & 20, 2002
 - Staffed by volunteers
 - (506 volunteer hours)
 - Some print promotion and radio
 - PSA on CanWest Global
 - Planned for 30 to 50 tonnes being left

<http://www.mb.reducingwaste.ca/templates/hazardous.html>

Huge response by public

- Collected 92.5 tonnes, twice expectations
- Ran into predictable problems with event based recycling
 - Traffic control
 - Citizens in a hurry leaving stuff
 - Inventory system was a burden
 - Van loads of monitors from commercial source
 - Ran out of trailer space by 4:00 Saturday

<http://www.mb.reducingwaste.ca/templates/hazardous.html>

Partnerships work

- Winnipeg is a Great community
- Arrange for 8 more trailers overnight
- Secured additional warehouse space by Wednesday



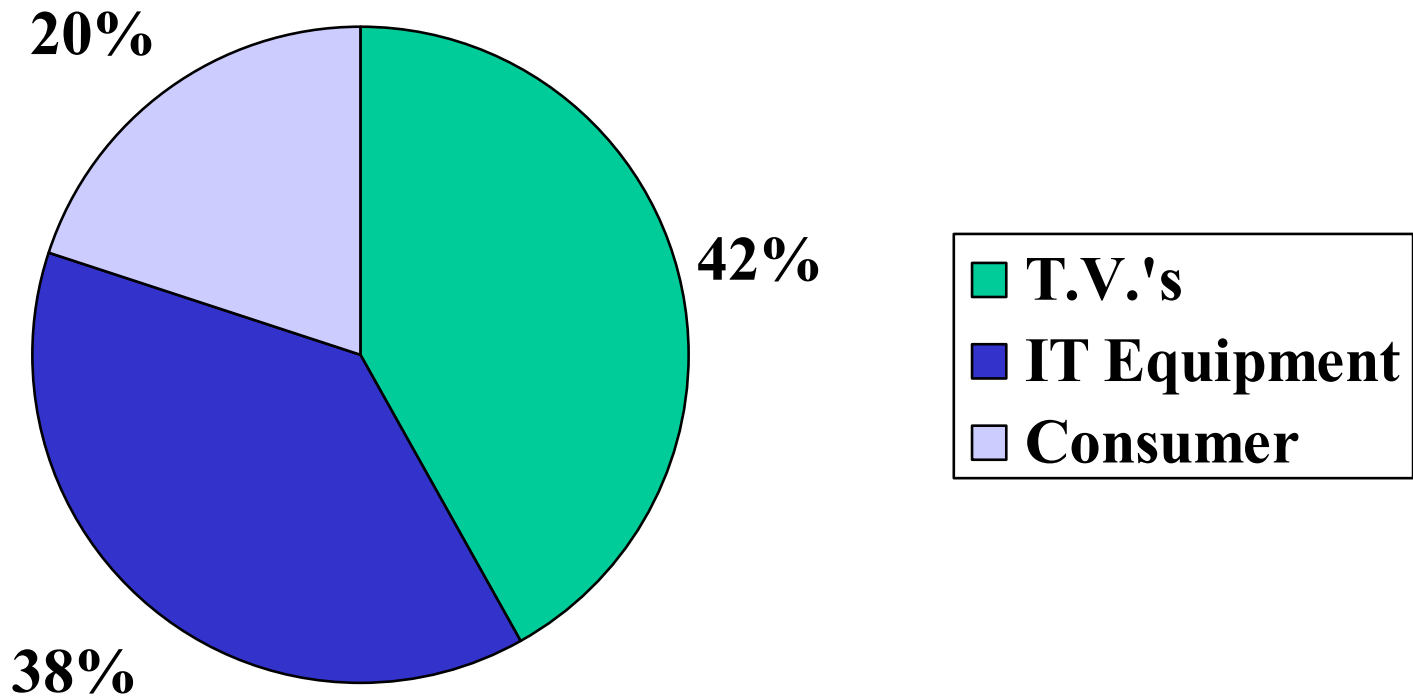
Depot Lessons Learned

- 36 inch console T.V.'s are hard to lift into the back of a trailer
- You can only organize materials if you have the time
- Volunteers like hot chocolate and doughnuts on cold days
- The public wants this stuff managed right

Reuse examined

- Product in both warehouses was screened for viable equipment
- Only 154 of 5,535 items was eventually sold
- Revenue of \$1,862.50
- Citizens were getting rid of equipment that did not work

E-waste in Manitoba (weight)



Consumer Electronics

- 1,577 Televisions
- 1,440 Computers and peripherals
- 747 Computer monitors
- 1,711 Consumer electronics
 - V.C.R's, speakers, tape decks, turntables, cell phones, clock radios, telephone equipment

Electronics disposal

- Equipment in one warehouse was disassembled and sorted
- Shipped to several different companies
- 17% was landfilled
 - Mostly wood from TV Cabinets, other trash
- Realized cost containment hinges on minimizing handling, packaging, transport and storage costs

Electronics disposal

- The product in the other warehouse was palletized and shipped to Maxus in Alberta
- The labour for breaking product down made that option more costly than shipping it all.
 - Lack of experience may be a factor
- Average cost of e-waste was \$448 per tonne in this pilot program

EPSOM Impacts

- Recycled 93.5 tonnes of electronics
- Picture tubes contained 1,439 kgs lead
- Once circuitry included:
 - 5,861 kg lead
 - 8 kg cadmium
 - 2 kg mercury