Through articles and activities designed for the senior secondary level, students examine the food production system in British Columbia and the world and explore creative, sustainable alternatives for food production. A description of raising food in the first world with the critical issues of energy use and environmental degradation precedes a description of raising food in developing nations. An article explains how agricultural experts work with traditional farmers in some areas to understand soil conservation methods of the farmers and to improve traditional methods. Five activities encourage students to look at issues that surround food production and the environment. Lists of 11 audio-visual resources and 19 organizations provide further information about food and environment issues. (CK)
To the teacher

The global food system is one of paradox. Western farmers increase their efficiency per acre, but at a cost in energy and resources which cannot be sustained. Farmers in the south, crippled by increasing pressures on the land (including the pressure to produce for export to the west) increasingly plunder their land and forests. The result? In the north, enormous food surpluses and eroded land. In the south, hungry people and eroded land. This issue of Teachergram examines the ins and outs of today's food production system in B.C. and the world, and challenges students to think of creative, sustainable alternatives.

"Looking to the year 2000 and beyond, the global food system must be managed to secure 3 to 4 percent annual increases in production, which must be sustainable economically, socially and ecologically. If this proves possible over the next 25, 50, 100 years, humankind should be able to support itself indefinitely, given the anticipated slowing of population growth. But can the global food system be so managed?" (Food 2000)

Right now, the world grows enough food to feed itself. This doesn't mean that everyone gets fed; every year, 13 to 18 million people die from hunger and hunger-related diseases, and over 500 million people are chronically hungry. This is a problem, not of food availability, but of food distribution, and the inability of poor people to buy food.

But more and more, people are beginning to look at not just what we're producing, but how we're producing it. Increasingly, our present system of food production is being looked at in terms of sustainability. We're producing food, all right, but what are we doing to the earth? At what cost are present systems of food production being maintained? How long can we continue to maintain them? Tough questions about sustainable development are raised every time we open our mouths to take a bite. On October 16—World Food Day—people around the world are being asked to think about how the food choices they make, both as individuals and as nations, affect the kind of environment we will have in the year 2000.

RAISING FOOD IN THE FIRST WORLD

The Factory Farm

Remember Old Macdonald? With his extensive assortment of animals, Old Macdonald epitomizes the picture many of us have of farms. He was a mixed farmer, growing both feed for his animals and grains for human consumption. His main methods of maintaining soil fertility were the use...
of natural fertilizers — manure from his animals, mulch from his crops — and the rotation of crops to replenish soil nutrients.

Up until World War II, he would have done fine. Now, however, if Old Macdonald is still around he has either:

1. sold his animals, enlarged his land holdings, and adopted a mechanized form of farming which relies heavily on large inputs of chemical fertilizers, pesticides, and petroleum to run his machinery;
2. moved to the “factory production” of one type of animal — poultry, pigs, beef — which are raised in crowded conditions, requiring high inputs of energy, antibiotics and hormones to keep them healthy in such conditions and growing fast. The manure from Old Macdonald’s animal farm, far from being a benefit to aid in growing his crops, has now become a waste problem, often flushed into nearby rivers and lakes;
3. sold out and moved to the city.

Whether he’s raising grains or animals, New Macdonald’s high-input style of farming is creating a long list of new environmental problems.

**Environmental degradation**

- **Hitting the dust**

While Old Macdonald’s old-fashioned method of crop rotation took more labour than new highly mechanized, chemical-input methods, it kept the topsoil down and restored nutrients to the soil. From 1960 to 1980 in Canada, the ratio of nutrients contained in agricultural crops to the nutrients contained in the fertilizer applied to the land declined from 3.55 to 1.04. In other words, in 1960 if you spread one unit of nutrient — nitrogen, phosphorous, or potassium — on your land, you got 3.55 units of nutrient back in the crop, because nutrients were provided naturally by the soil, enriched by decades of crop rotation and natural fertilizers. In 1980, you would only get 1.04 units of crop nutrient, or just about what you put in. In B.C., the figure is .98; when we put in a unit of fertilizer nutrient, we’re getting less than a unit of crop nutrient. The soil has lost much of its nutrient content. In 1986, the Science Council of Canada announced that:

“soil degradation is an ongoing, insidious problem that occurs in all parts of the country at a cost of over $3.0 million per day . . .”

Not only does it contain little natural nutrient, the soil is no longer able to hold nutrients well, and much of the fertilizer applied to it is running off. Where to? Read on.

- **Infiltrating the water**

World fertilizer consumption per capita climbed from 5 kg in 1950 to 25 kg in 1983. Do all these goodies go into the veggies we eat? The answer is no. For instance, only 10% of nitrogen added to land actually ends up in the crop. The rest goes elsewhere — often into nearby water sources. Ever wonder why some of your favourite swimming spots are sprouting luxuriant new crops of weed? The answer may be _eutrophication_, the stimulation of aquatic plants by run-off of nitrogen and phosphates from fertilizers. In Canada, more than two-thirds of the algae-promoting phosphorus entering Lake Erie from Ontario can be attributed to runoff and erosion from agricultural land.

Sales of chemicals to control pests and disease have risen 32-fold in 35 years. In the U.S., synthetic fertilizers and pesticides are responsible for over half of all water pollution.

- **“Improving” pests**

Tinkering with the finely-tuned balance of nature can sometimes lead to surprising results. Often, killing off a group of predators means a population explosion further down the line. Sometimes target pests respond to pesticides by developing pesticide resistance; the number of pesticide resistant species worldwide jumped from 25 in 1974 to 432 in 1980.

“Spraying powerful poisons that kill all exposed insects is no more “management” of pests than killing everyone in New York City would be managing urban crime.”

(David Suzuki, Globe & Mail, April 9/88)
swelling the cities: paving the land

Farming has switched from a low-cost production in Old Macdonald's time to a high-cost business. Before World War II, US farmers spent about half their income on capital investments; now they spend over 80%. The average Canadian farmer carries debts of $100,000 and one in ten farmers faces bankruptcy. This, plus the reduction in labour required in farming, means that fewer people live in the country, and more are moving to the cities.

The massive migration to the cities produces new environmental problems of its own: air pollution, waste disposal problems and the paving-over of prime farmland for roads and houses. Only 5% of Canada's area is capable of crop production, and only one half of 1% is top-notch agricultural land with no serious limitations to production. Yet between 1966 and 1986, 1,750 square km of prime agricultural land was put under pavement.

What's wrong with beef? Lots, according to a growing number of environmentalists.

- Chopping the Rainforest: In Latin America, the beef export market, fuelled by the North American hamburger demand, has lead to clearance of enormous areas of rainforest, rainforest which is essential to reduce global warming, and to provide a home for the millions of species of plant and animal life which we may yet need to improve our crops and medicines. From 1961 to 1978, Central America's forests declined by 40%.

- Hogging the Water: In North American factory farms, cattle use enormous amounts of water. Over half the total amount of water consumed in the U.S. goes to irrigate land growing feed and fodder for livestock. To produce a single pound of meat takes an average of 2,500 gallons of water — as much as a typical family uses for all its combined household purposes in a month.

- Creating Waste: Cows are great producers of waste — waste that was once used for fertilizer but now, in crowded feedlots, has become a problem. One cow produces as much waste as 16 humans. In the U.S., animal wastes account for more than 10 times as much water pollution as the total amount attributable to the entire human population.

- Gobbling Grain: Cattle are inefficient converters of protein; of the protein fed to them, over 90% is lost. The U.S. livestock population consumes enough grain and soybeans to feed over 5 times the entire human population of the country.

Cattle producers, however, are fighting back against the increasingly bad image of their product. "We are all very aware of the messages about cows put out by the environmental groups and the health groups," states Alisa Harrison of the National Cattlemen's Association. "They are using a very serious issue — the world's environment — to promote their hidden agenda, which is vegetarianism."

(Globe & Mail, Sept 4/89)

RAISING FOOD IN THE THIRD WORLD

While Old Macdonald, as we know him, has almost disappeared in the western world, the small family farmer — who is often a woman — is the backbone of agriculture in the developing world, where 68% of people still live in rural areas. But the task of the small farmer is becoming progressively more difficult.

Many of the world's farmers have traditionally practiced shifting cultivation — growing crops in an area for a few years, then moving to another patch and leaving the land to lie fallow, covered by wild grasses and plants which restore its nutrients. It's a method which has worked well for centuries, but now, under pressures of increased population and use of land for export crops, farmers are reducing the fallow time, and land is becoming exhausted and eroded. When this happens, the farmer is forced to move on, usually to fragile, marginal land which erodes even more quickly. Often, farmers displace...
cattle-herding nomadic people who take their herds to even more fragile land. The pressure on the land is increased by:

- **inequality of land distribution**
  In Latin America 7% of the landowners control 93% of the arable land. Large sections of prime farmland are under-cultivated or leased to multinational companies to produce export crops, while the subsistence farmers are forced to overcultivate tiny patches of land.

- **Half of Central America's agricultural land produces food for export. In several of its countries the poorest half of the population eat only half their daily protein requirement.**

- **Africa will provide for only half its food needs by 2020. Five million African children died from malnutrition in 1984 and another five million were handicapped for life. But Africa is a net exporter of beans, barley, peanuts, fresh vegetables, cattle, coffee, and cocoa.**

*(Global Issues Reading Kit on Food, VIDEA)*

- **national debt**
  Governments increasingly emphasize export crops at the expense of food crops, in order to earn foreign exchange for interest payments.

- **declining terms of trade**
  Prices of manufactured goods from the First World go up, while prices of raw commodities from the Third World go down. In 1960 an 18-ton truck could be exchanged for 6 tonnes of jute; by 1982, the price had gone up to 26 tonnes of jute. This means that more and more land must be planted for export in order to maintain the same standard of living.

**exporting disaster**

First world aid to the Third World has generally consisted of exporting western agricultural ideas to areas whose fragile soils, harsh climates, and lack of government regulation turn them into ecological time bombs. The Green Revolution, built upon the goal of increased production, involved poor Third World farmers in the same high-input debt problems as many First World farmers. The richer ones prospered, while the poorer farmers lost their land and moved to the burgeoning cities. Subsidized by governments and agencies such as the World Bank, pesticides have come to play a major part in Third World agriculture, although the regulations which exist in the west — protective clothing requirements, pollution safeguards, education standards, training regulations — generally don't exist. Many chemicals which are banned or severely restricted in the industrialized nations are still shipped overseas. In 1976, 30% of total pesticide exports consisted of these hazardous materials. The result? Pollution and death. Methods. There are also many technical problems. FAO and UNESCO estimates show that as much as half of all existing irrigation schemes of the world are under the influence of salinization (too many mineral salts, due to poor drainage or naturally saline ground-water), and waterlogging, the result of ill-designed and poorly implemented systems. Each year, 1 million square km. of irrigated land are abandoned.

**“Natural” Disasters**

In the early 1980s, the Swedish Red Cross began to wonder why each year it was receiving more and more appeals for relief due to natural disasters in the Third World. It collected some figures:

- **drought**
  1960s: drought strikes 18.5 million people each year
  1970s: drought strikes 24.4 million people each year
  1980s: drought strikes 30 million people in Africa and 100 million people in India alone

**WHY?**

Do you think drought is caused entirely by annual rainfall, or could it have something to do with water absorption? What happens to the water absorption when land is stripped of its vegetation? How is the water supply affected?

- **floods**
  1960s: 5.2 million affected/year
  1970s: 15.4 million people affected/year
  1980s: The trend continues, with floods in Bangladesh, Southeast Asia, the Andean nations of Latin America, and the Sudan in Africa.

**WHY?**

In what ways are floods caused by the same factors as droughts?

Some people call these disasters Acts of God. What do you think?

*(Information from Lloyd Timberlake, Only One Earth, 1987)*
**BUT .... CRISIS CAN BE ANOTHER WORD FOR OPPORTUNITY:**

Some hopeful signs:

- **A meeting of “expert” and farmer:** Agricultural experts are now beginning to work with traditional farmers in order to understand the methods which have conserved the soil for thousands of years, and to help improve traditional methods. This meeting of minds has produced encouraging results:

  - **Agroforestry** - the planting of fast-growing food and fodder-producing trees among crops, can reduce erosion, improve soil fertility, and provide wood and food for the farmer.

  - **Institutes such as the International Institute of Tropical Agriculture, in Nigeria, and the International Crops Research Institute for the Semi-Arid Tropics in Niger are working on improved-yield seeds for food crops, seeds that do well with little added input.

  - **Aid agencies** are increasingly following the lead of organizations such as OXFAM, which helped Burkina Faso farmers improve their terracing by developing a surveying tool out of a length of transparent hosepipe. Tools, inputs and methods must be easy to use, fit well with traditional methods, environmentally sustainable, and CHEAP.

  - **Irrigation projects** are slowly turning from massive, big-dam operations, to small-tank/reservoir schemes which involve the local people in planning, design, construction and direction.

  - **IPM (Integrated Pest Management)** is a hopeful alternative to pesticides for both First and Third World farmers. Natural insect enemies, or plants with insecticidal or repellent properties can help fight pests.

  - **Urban Agriculture** can improve the diets of city people, and reduce the need for transportation of food and for solid waste disposal, since some wastes can be used for composting. Hong Kong and Singapore, two of the world’s most crowded cities, have urban agriculture programs. Hong Kong produces almost 50% of its fresh vegetable consumption and 75% of its poultry consumption, while Singapore produces 100% of its pork consumption, 80% of its chickens, 30% of its fish and 27% of its fresh vegetables.

  - **IPM** (Integrated Pest Management) is a hopeful alternative to pesticides for both First and Third World farmers. Natural insect enemies, or plants with insecticidal or repellent properties can help fight pests.

There is still much work to be done, however, in both the technical and political areas of agricultural reform. Let’s hope that by 1990 we’ll be well on the way to sustainable agricultural development!

*What are some of the steps which you think should be taken to ensure environmentally sustainable food production*

- in the First World?
- in the Third World?

(Think about both the technical and the human/political aspects of the question.)

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**Seeds: a Growing Concern**

**Question:** What is the world’s largest seed company?  **Answer:** Shell Oil

The small, independent seed producer is, along with Old McDonald, a relic of the past. Multinational chemical and pharmaceutical companies, like Occidental Petroleum and Ceiba-Geigy, are buying up the world’s seed companies.

**Why do you think these large companies, which also produce pesticides and fertilizers, are interested in breeding and selling seeds? What particular types of seeds might they concentrate on producing?**

Bill C-15, or Plant Breeders’ Rights (PBR), is one of the hottest issues now facing the Canadian government. It would allow the seed companies to patent new seeds for 18 years. This patenting right, they claim, will stimulate research in developing new varieties. Environmental and development groups express a number of fears about Bill C-15:

- Most of the genetic materials for these seeds came from the Third World in the first place. What will the Third World people get from this legislation? What will they pay?
- Who should have control over the genetic material of seeds: private corporations, or public research institutions?

*What effects can you think of that Plant Breeders’ Rights might have on food production in Canada? in the Third World?*
1. Notable Quotes
All of the following quotes express an opinion on what is wrong with the current food production system. In small groups, go over the quotes, and choose the two you agree with most, and the two you disagree with most. Be prepared to defend your choice.

a) "The real danger to sustainable food security comes from the greed of the rich and the spread of careless technology."
   (Food 2000)

b) "Anything so complicated as a planet, inhabited by more than a million and a half species of plants and animals, all of them living together in a more or less balanced equilibrium in which they continuously use and re-use the same molecules of the soil and air, cannot be improved by aimless and uninformed tinkering. All changes in a complex system involve risk and should be undertaken only after careful study."
   (E.F. Schumacher, Small is Beautiful)

c) "... isn't one basic reason for low production levels in the poor countries that so much land is in farms too small to be efficient? Aren't most small farmers just too backward and tradition-bound to respond to development programs?"
   (question posed in Food First)

d) "In many developing countries, soaring population levels in the poor countries that so much land is in farms too small to be efficient? Aren't most small farmers just too backward and tradition-bound to respond to development programs?"
   (Lester Brown, World Watch)

e) "The world is experiencing a resurgence of deadly diseases spread by insects because pesticides like DDT have been prematurely outlawed."
   (Ronald Reagan, 1980)

f) "Clearly, something is seriously wrong down on the farm. In effect, western agriculture turns fossil and other forms of fuel into food, and in doing so has ceased to be a renewable, sustainable form of resource management."
   (John Dick, Ministry of Environment and Parks, Province of B.C., 1988)

g) "If a country wishes to pay attention to the economic costs (and benefits) of agricultural production—and all countries do—it must deal with the environmental costs."
   (Food 2000)

h) Rich countries and international agencies with the "aid" programmes and "development solutions" contribute to making an already calamitous situation even worse.
   (Susan George, Food for Beginners)

2. What Can We Do?
It's hard to consider an issue like world food production and environment without feeling helpless and discouraged. But small groups of concerned individuals can be a major force in changing the world. In small groups, brainstorm ideas for changing the system of world food production. Think about these things:

- **What can Canada do?** (policy towards farmers, farmland, aid policy towards developing countries)
- **What can B.C. do?** (farmland, sustainable development, education)
- **What can my community do?** (encouraging gardens, encouragement of local production, packaging laws, returnables/re-cyclables)
- **What can I do?** (personal food choices, support of sustainable farming practices locally and in developing countries)

When you're considering these factors, don't forget **packaging** of food. (Each year, every man, woman and child in the U.S. discards enough plastic to fill the average-size living room to the ceiling; Canadians are probably not far behind.) **Food processing** is an important factor; when food is highly processed, often the energy cost is high and the nutritional value is low. **Transportation** is another important issue. For every two dollars spent to grow food, we spend one dollar to move it around.

3. The Commodity Trap
The illustration below tells something about why developing countries, whose economies are organized around the growing of raw commodities, must devote more and more of their land to export crops, just to stay even.

You are the Minister of Trade of a small African country, dependent for its foreign exchange on cocoa and cotton, both of which have gone consistently downhill in value relative to western manufactured goods. Because of this imbalance in trade, your country has fallen into serious debt, borrowing money in the hope that the prices of cocoa and cotton would go up—something which never happened. Now you must pay enormous debt interest charges. (Last year, developing countries paid $50 billion more to the developed countries than they received in aid.) You are about to address the United Nations Conference on the subject of environmental sustainability. Write your speech, entitled

"Environmental Enemy #1 - First World - Third World Trade Relationships"
4. Environmental Cash Register

In small groups, pick a favourite food (a hamburger, a chocolate chip cookie), and list its ingredients, or components. What is the environmental cost of this food? Take on the role of "environmental detective", and list all the things you would need to know in order to assess its environmental impact. For each ingredient, you might want to consider:

- where it comes from (if it comes from somewhere else, what has been displaced to grow it: rainforest? small farmers?)
- what energy would have been used to produce, process and transport it
- what relationship there is between the food value and the amount of energy and land used to produce it
- what technical questions you would like answered about its production (e.g. chemicals used to grow it)
- what economic/political questions you would like answered about its production (e.g. land ownership, prices paid to First World and Third World producers for their commodities, nutritional level of the citizens of the country which produced it)
- how the packaging affects the environment

In your group, divide up the research, and find out as much as you can about each of these issues. Put all your information together in a display, featuring a picture, model, or actual sample of your food item, and information about all of its possible environmental costs.

5. Perspectives on Land Use

When a decision is made about land use (whether to build a shopping-centre on prime farmland, whether to cut down an area of rainforest, whether to cultivate grassland), many people are often involved. These people may view the question of land use from different time perspectives.

- "If only I have a good harvest this year!"
- "Let's just get elected for another term, and then we'll worry about saving the world!"
- "If I don't get this order filled by my deadline, I'll lose all hope of further business."
- "It took the world billions of years to produce these species; tread carefully!"

Which of these quotes was probably uttered by a politician? an industrialist? a conservationist? a peasant farmer? What different time frame is included in each perspective?

Part of our difficulty in deciding upon a firm policy regarding ecologically sound land use may be because of the clash of these different time-frames. Either individually or in small groups, think of a contentious land use issue in your area (e.g. logging, fisheries/pulp mills, use of farmland for industrial purposes or building of a dam, mining in parks, etc.)

Think of what different interest-groups are actors in this land use decision. Decide what time-frame each interest-group has. Think about which groups in this decision-making process have the most power, and which groups have the most to lose. (Are these the same in this case, or different?)

a) write an essay, outlining the issue, the groups involved, their time-frames and their power. See if you can come up with solutions, ways in which the different groups might reach a compromise, or come to realize that their interests coincide.

or

b) in small groups, take on the roles of representatives of the different interest groups. Try to enact the discussion which these representatives might have. Stop the discussion after 10 minutes, and see if you can come up with solutions, as described in a). You might want to go on from here and choose part of your discussion and findings to present to your class.

Two good National Film Board films on this topic are Wonderland and This Borrowed Land (see page 8).

Note: The B.C. Context:

These figures show the total rural land and prime agricultural land converted into urban use during four periods in B.C.

<table>
<thead>
<tr>
<th>Period</th>
<th>Total Rural Land (ha)</th>
<th>Prime Agricultural Land (ha)</th>
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</thead>
<tbody>
<tr>
<td>1966-71</td>
<td>7,515</td>
<td>1,154</td>
</tr>
<tr>
<td>1971-76</td>
<td>7,665</td>
<td>1,690</td>
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<tr>
<td>1976-81</td>
<td>23,372</td>
<td>5,272</td>
</tr>
<tr>
<td>1981-86</td>
<td>6,778</td>
<td>1,244</td>
</tr>
</tbody>
</table>

(See Environment Canada, Urbanization of Rural Land in Canada, 1981-86)

Information Sources: An excellent source of information about food and environment is Food 2000, by the World Commission on Environment and Development. (Zed Books Ltd., 1987) Further detailed information on Canada's soil situation may be obtained by contacting the Science Council of Canada for their free booklet Soll Degradation in Canada (100 Metcalfe St., Ottawa, Ont., K1P 5M1, (613) 995-6954). Other sources used in this Teachergram are too numerous to list, but detailed footnoting may be obtained from VIDEA (address on page 8).
The Business of Hunger (PEMC 200984, 28 min. video, $15) Shows the relationship between multinational corporations acquiring land to grow export crops and small farmers losing their land and swelling the cities.

Farmers Helping Farmers (NFB 113C 0187 102, VHS, and 16 mm., film, 28 min.) Presents the issue of sustainable and appropriate aid, as a small group of P.E.I. farmers fund small, self-help projects for African farmers.

The Fragile Mountain (NFB 106C 0182 123, 55 min.) Problems of population pressure, cultivation of marginal land, deforestation, and flood damage in Nepal.

Hungry for Profit (65 min. video) Current view of agribusiness in Asia Africa and Latin America (Can be shown in sections). Rental $20 from IDERA (address below).

Man-Made Famine (52 min. video) Excellent video showing root causes of famine and the role of women farmers in Africa. Rental $20 from IDERA (address below).

A Question of Food (15 min. slide-tape, filmstrip-tape, or video, plus teachers’ guide and resource readings) A 1986 resource for Canadian secondary students giving overview of food problems and possible solutions. May be purchased for $20 (filmstrip), $30 (video), $75 (slide-tape) from the World Food Day Association of Canada, 255 Argyle Ave., Ottawa, Ontario K2P 1138. (Telephone: (613)233-9002).

Roots of Hunger, Roots of Change (NFB 106C 0187 141, 28 min.) The root causes of rural poverty and environmental degradation in Senegal are examined, with export cropping high on the list.

Seeds Against the Desert (20 min. video) On current agroforestry in Togo. A CUSO cooperator works with farmers on integrating trees with agriculture. Available for postage cost from CUSO (see address below).

This Borrowed Land (NFB 106C 0184 064, 29 min.) Farmers in the Peace River country—all of them women—discuss the problems of Canadian farmers, and their feelings about the proposed Site-C Dam which, if built, would flood 10,000 acres of prime farmland. Interesting questions of land-use are raised.


Wonderland (NFB 0182 051, 27 min., 16 mm. film) Agricultural land use, urban gardening, and use of pesticides and chemical fertilizers, all set in the Fraser Valley. This film is highly recommended for B.C. students, as it discusses land use and environmental questions in the B.C. context.

The following B.C. organizations all offer additional resources — print, audio-visual, speakers — on food and environment issues.

Kootenay Centre For a Sustainable Future Box 727 Nelson, B.C. V1L 5R4 354-4035

Mennoitite Central Committee P.O. Box 2038 Clearbrook, B.C. V2T 3T8 850-6639 / 533-0035

Northwest Development Education Box 207 Terrace, B.C. V8G 4A6 635-2436

OXFAM Canada 2524 Cypress Street Vancouver, B.C. V6J 3N2 736-7678

OXFAM Canada - Vancouver Island Outreach Project 205 - 620 View Street Victoria, B.C. V8W 1J6 381-5226

Tools for Peace 1672 East 10th Avenue Vancouver, B.C. V5N 1X5 879-7216


United Nations Association (Vancouver) 217 - 620 View Street Victoria, B.C. V8W 1J6 383-4635

Victoria Y International 880 Courtenay Street, Victoria, B.C. V8W 1C4 386-7511

VIDEA 407 - 620 View Street Victoria, B.C. V8W 1J6 385-2333

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