

**A Socio-Economic and Agricultural Profile of East  
Luther Grand Valley Township**

**Ashton Ridge Golf Course Wind Farm Project**

Prepared for:

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A SOCIO-ECONOMIC AND AGRICULTURAL PROFILE OF EAST LUTHER  
GRAND VALLEY TOWNSHIP

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## 1 INTRODUCTION

Grand Valley Wind Farms Inc. is proposing the development of the Ashton Ridge Wind Farm Project (the “Project”). The Project consists of 12 wind turbines located in the vicinity of Ashton Ridge Golf course.

As part of the Ontario Ministry of the Environment’s Environmental Screening Process for electricity projects (i.e., Ontario Regulation 116/01) and the Canadian Environmental Assessment Act (“CEAA”), Environmental Business Consultants (“EBC”) developed a profile of the socio-economic and agricultural conditions in Dufferin County, with specific emphasis on East Luther- Grand Valley Township. The profile provides a broad-level, statistical overview of these conditions, and complements the Agricultural Baseline Report (Technical Appendix C1) prepared by Environmental Business Consultants for the Project.

## 2 METHODOLOGY

The methodology consisted of the review of published census data from Statistics Canada, specifically the Population Census of Canada and Agriculture Census of Canada, which are both conducted every five years. The most recent censuses were conducted in 2001. Where applicable, data from previous censuses have been incorporated to identify relevant trends. Other background materials pertaining to socio-economic and agricultural profiling were also reviewed and incorporated where appropriate. Specific documents that were used in developing the profile include:

- 2001 Profile of Census Divisions and Subdivisions. Catalogue No. 95-220-XPB vol. I. (Statistics Canada).
- 2001 Census of Agriculture. Catalogue No. 95F0304XCB. Farm data: full release (Statistics Canada).
- 1991 and 1996 Censuses of Canada, Agricultural Profile of Ontario (Statistics Canada).
- The Acreage of Soil Capability Classes for Agriculture in Ontario (Hoffman and Noble, 1975).
- A Socio-Economic and Agricultural Profile of Melancthon Township Melancthon Grey Wind Project (Stantec Consulting Ltd, February 2005).

No field visits were undertaken during the profiling exercise. However, when data needs were not satisfied through census data, telephone interviews were conducted with municipal staff to determine services and facilities provided in Dufferin County and East Luther- Grand Valley Township.

### 3 SOCIO-ECONOMIC PROFILE RESULTS

#### 3.1 POPULATION

##### 3.1.1 Population and Population Change

The population of Dufferin County has grown steadily over the past three census periods. In 1991, 39,897 people lived in Dufferin County. By 1996, population grew by 14.4% to 45,657. In 2001, the population of Dufferin County increased by an additional 11.7% to 51,013 people. In both cases, the rate of growth in Dufferin County exceeded the rate of growth of Ontario as a whole (6.6% between 1991 and 1996, and 6.1% between 1996 and 2001).

As shown in Table 3.1, the majority of growth in Dufferin County occurs in the larger urban centres, particularly in the Town of Orangeville. At the time of the most recent census, the population of East Luther- Grand Valley Township was 2,842, an increase of 2.5% from 1996.

Table 3.1 Population

Area	1996 Population	2001 Population	Population Change
Mono	6,552	6,922	5.6%
Orangeville	21,498	25,248	17.4%
Shelburne	3,790	4,122	8.8%
Amaranth	3,450	3,770	9.3%
East Garafraxa	2,084	2,214	6.2%
East Luther-Grand Valley	2,773	2,842	2.5%
Melancthon	2,607	2,796	7.2%
Mulmur	2,903	3,099	6.8%
Dufferin County	45,657	51,013	11.7%
Ontario	10,753,573	11,410,046	6.1%

Source: Statistics Canada, 2001 Profile of Census Divisions and Subdivisions. Catalogue No. 95-220-XPB vol. I

##### 3.1.2 Age and Gender Distribution

Table 3.2 shows the age and gender distribution in the Province of Ontario, Dufferin County and East Luther- Grand Valley Township. Gender distribution varies somewhat between East Luther- Grand Valley Township and the two larger regions as there are more males than females. The population of East Luther - Grand Valley is typically younger than that of the province or the county with the greatest numbers of people falling in age categories 5 – 19 years of age (school age) and 35 – 44 years of age. This pattern is similar within Dufferin County, and is common across rural counties as many high-school graduates leave rural areas in search of employment or pursuit of post-

Comment [SG1]: need to add in statistical analysis

secondary education.

Table 3.2 Age and Gender Distribution

Age Group	Ontario		Dufferin County		East Luther-Grand Valley Township	
	Males	Females	Males	Females	Males	Females
0-4	343,340	327,920	1,865	1,645	115	110
5-9	396,385	376,265	2,215	2,080	120	125
10-14	404,970	383,880	2,225	2,170	145	130
15-19	394,915	374,500	1,955	1,735	125	100
20-24	359,645	358,775	1,385	1,285	75	75
25-29	356,180	373,475	1,345	1,410	65	65
30-34	404,515	424,325	1,825	1,915	105	110
35-39	487,605	502,235	2,445	2,560	165	160
40-44	476,230	493,440	2,290	2,250	155	125
45-49	419,475	439,655	1,855	1,820	85	75
50-54	382,065	394,080	1,670	1,695	95	80
55-59	288,120	296,375	1,305	1,220	70	70
60-64	232,445	247,055	930	905	45	40
65-69	205,785	225,095	785	710	25	30
70 & Over	425,375	615,915	1,405	2,130	70	80
<b>Total</b>	<b>5,577,055</b>	<b>5,832,990</b>	<b>25,500</b>	<b>25,515</b>	<b>1,465</b>	<b>1,380</b>

### 3.1.3 Ethnic Origins

Table 3.3 shows the distribution of the fifteen most frequently reported ethnic groups making up the populations of Ontario, Dufferin County and East Luther - Grand Valley Township, as of the 2001 census. It is important to note that individuals may report more than one ethnic origin. Each region contains a diverse population, although the level of diversity decreases as the areas become more rural in character. The majority of the populations are rooted in European ethnic groups dominated by English, Scottish, Irish, German and French ancestry. Although many residents consider themselves uniquely "Canadian", most of these are descendents of the five main European ethnic groups listed above (Statistics Canada, 2001). Smaller ethnic groups (i.e. Dutch, East Indian, Ukrainian and North American Indian) make up most of the remainder of the ethnic groups in East Luther - Grand Valley Township and Dufferin County. Chinese and Portuguese ethnic groups have less representation in Dufferin County and East Luther - Grand Valley Township than in the province as a whole.

Table 3.3 Ethnic Origin

Ethnic Group	Ontario	Dufferin County	East Luther-Grand Valley Township
	# of people	# of people	# of people
Canadian	3,350,275	21,045	1,220
English	2,711,485	18,455	960
Scottish	1,843,115	12,950	635
Irish	1,761,280	12,185	765
French	1,235,760	4,640	265
German	965,505	4,860	260
Italian	781,350	2,100	130
Chinese	518,555	215	10
Dutch	436,035	3,075	340
East Indian	413,410	315	45
Polish	386,050	1,345	35
Ukrainian	290,920	1,385	55
North American Indian	248,940	1,045	55
Portuguese	248,260	510	10
Jewish	196,260	170	0

Source: Statistics Canada, 2001 Profile of Census Divisions and Subdivisions. Catalogue No. 95-220-XPB vol. I

### 3.1.4 Religious Affiliations

Various forms of Christianity represent the dominant form of religion practiced in Dufferin County and East Luther - Grand Valley Township, with Protestantism forming the largest single group (Table 3.4). A high proportion of the population of Dufferin County and East Luther - Grand Valley Township claim to not have any religious affiliation. Little to no representation of the various non-Christian religions are present in East Luther - Grand Valley Township; within Dufferin County these groups are likely to be located primarily in the large urban centres. It is important to note that religious affiliations are not determined by ethnic origins. The difference in these two categories is demonstrated by the differences in people claiming Jewish heritage versus the number of people affiliated with the Jewish religion.

Table 3.4 Religious Affiliation

<b>Religious Affiliation</b>	<b>Ontario</b>	<b>Dufferin County</b>	<b>East Luther-Grand Valley Township</b>
	Number of people	Number of people	Number of people
Catholic	3,911,760	10,905	435
Protestant	3,935,750	26,150	1,695
Christian Orthodox	264,055	215	10
Christian (*n.i.e.)	301,935	1,545	60
Muslim	352,525	45	0
Jewish	190,800	130	0
Buddhist	128,325	75	0
Hindu	217,555	75	40
Sikh	104,785	95	10
Eastern religions	17,785	55	0
Other religions	18,985	45	0
No religious affiliation	1,841,290	11,030	595
*n.i.e. – not included elsewhere.			

Source: Statistics Canada, 2001 Profile of Census Divisions and Subdivisions. Catalogue No. 95-220-XPB vol. I

### 3.1.5 Education Levels

Table 3.5 shows the highest levels of education attained by residents of Ontario, Dufferin County and East Luther - Grand Valley Township. More than half of the residents in East Luther - Grand Valley have a high school education or less. College and trade certificates represent the most common form of post-secondary education in East Luther - Grand

Valley and Dufferin County, likely due to the emphasis on agriculture, manufacturing and construction as crucial industries in the local economy (for which trades/college certificates may be more applicable) and the outflow of secondary-school graduates to universities located outside of the County. As described previously, many university graduates who were born and raised in Dufferin County likely do not return upon graduation, and search for employment in larger urban areas.

Table 3.5 Education Levels (population 15 years and over)

Highest Level of Education Attained	Ontario		Dufferin County		East Luther-Grand Valley Township	
	# of people	% of total	# of people	% of total	# of people	% of total
Less than Grade 9	737,380	8.1%	1,790	4.7%	115	5.5%
Grades 9-13 without high school graduation	1,945,960	21.5%	9,550	25.0%	640	30.7%
Grades 9-13 with high school graduation certificate	1,303,960	14.4%	6,720	17.6%	400	19.2%
Some post-secondary without degree, certificate or diploma	1,016,020	11.2%	3,910	10.2%	155	7.4%
Trades certificate or diploma	848,115	9.4%	4,415	11.6%	305	14.6%
College certificate or diploma	1,421,075	15.7%	6,940	18.2%	325	15.6%
University certificate below bachelor's degree	188,200	2.1%	580	1.5%	35	1.7%
University with bachelor's degree or higher	1,587,330	17.5%	4,255	11.2%	105	5.0%
<b>Total</b>	<b>9,048,035</b>		<b>38,160</b>		<b>2,085</b>	

Source: Statistics Canada, 2001 Profile of Census Divisions and Subdivisions. Catalogue No. 95-220-XPB vol. I

### 3.1.6 Family Income Distribution

Table 3.6 provides data on the level of household incomes in the Province of Ontario, Dufferin County and East Luther - Grand Valley Township. On average, families in East Luther - Grand Valley Township and Dufferin County have slightly lower incomes than

families in Ontario. The median income (i.e. the dollar value where half of the families earn more and half of the families earn less) is higher in East Luther - Grand Valley Township than Dufferin County but slightly less than the Provincial average. As shown in Table 3.6, there is less disparity between family incomes in East Luther - Grand Valley Township, with smaller percentages of families in the lowest and highest income categories than either the county or the province.

Table 3.6 Family Income Distribution

Family Income Categories	Ontario		Dufferin County		East Luther-Grand Valley Township	
	# of families	% of total	# of families	% of total	# of families	% of total
Under \$10,000	132,370	4.1%	605	4.8%	10	
\$10,000 - \$19,999	169,905	5.3%	980	7.8%	45	
\$20,000 - \$29,999	297,660	9.3%	1,315	10.4%	85	
\$30,000 - \$39,999	319,725	10.0%	1,240	9.8%	65	
\$40,000 - \$49,999	323,630	10.1%	1,255	10.0%	75	
\$50,000 - \$59,999	312,450	9.8%	1,305	10.4%	110	
\$60,000 - \$69,999	303,300	9.5%	1,200	9.5%	105	
\$70,000 - \$79,999	266,020	8.3%	1,215	9.7%	85	
\$80,000 - \$89,999	223,665	7.0%	1,035	8.2%	75	
\$90,000 - \$99,999	182,445	5.7%	630	5.0%	50	
\$100,000 and over	659,820	20.7%	1,820	14.4%	80	
<b>Total families</b>	<b>3,190,990</b>		<b>12,590</b>		<b>790</b>	
<b>Avg. family income</b>	<b>\$73,849</b>		<b>\$61,320</b>		<b>\$62,759</b>	
<b>Median family income</b>	<b>\$61,024</b>		<b>\$56,781</b>		<b>\$60,264</b>	

Source: Statistics Canada, 2001 Profile of Census Divisions and Subdivisions. Catalogue No. 95-220-XPB vol. I

### 3.2 EMPLOYMENT AND EMPLOYMENT CHANGE

The North American Industry Classification System (“NAICS”) was adopted by Statistics Canada in the 2001 census to replace the Standard Industrial Classification (“SIC”) system as the standard system to organize Canadian industries into easily distinguishable

categories or classifications. At the greatest level of aggregation in published census data, these industries are classified into twenty separate categories, which are presented in Table 3.7.

Table 3.7 North American Industry Classification System (1997 NAICS)

<b>Division</b>	<b>SIC Description</b>	<b>Division</b>	<b>SIC Description</b>
11	Agriculture, forestry, fishing and hunting.	53	Real estate and rental and leasing.
21	Mining and oil and gas extraction.	54	Professional, scientific and technical services.
22	Utilities.	55	Management of companies and enterprises.
23	Construction.	56	Administrative and support, waste management and remediation services.
31-33	Manufacturing.	61	Education services.
41	Wholesale trade.	62	Health care and social assistance.
44-45	Retail trade.	71	Arts, entertainment and recreation.
48-49	Transportation and warehousing.	72	Accommodation and food services.
51	Information and cultural industries.	81	Other services (except public administration).
52	Finance and insurance.	91	Public administration.

Source: Statistics Canada, 2001 Profile of Census Divisions and Subdivisions. Catalogue No. 95-220-XPB vol. I

Table 3.8 uses the NAICS to analyze employment of people fifteen years of age and over in Ontario, Dufferin County and East Luther - Grand Valley Township. Manufacturing industries employ the greatest percentage of the labour force in East Luther - Grand Valley, Dufferin and Ontario (16.2%, 19.8% and 21.6%, respectively). Within East Luther - Grand Valley Township, retail trade and construction are also important sectors, each employing more than 10% of the Township's workforce.

Table 3.8 Employment by 1997 NAICS (population 15 years and over)

<b>Industry</b>	<b>Ontario</b>		<b>Dufferin County</b>		<b>East Luther-Grand Valley Township</b>	
	# of jobs	% of labour force	# of jobs	% of labour force	# of jobs	% of labour force
Agriculture, forestry, fishing and	123,675	2.0%	1,015	3.6%	85	5.4%

hunting.						
Mining and oil and gas extraction.	21,110	0.3%	80	0.3%	10	0.6%
Utilities.	46,230	0.8%	185	0.7%	10	0.6%
Construction.	332,250	5.4%	1,950	6.9%	190	12.0%
Manufacturing.	984,330	16.2%	5,610	19.8%	342	21.6%
Wholesale trade.	278,865	4.6%	1,760	6.2%	85	5.4%
Retail trade.	671,865	11.0%	3,240	11.4%	200	12.7%
Transportation and warehousing.	280,150	4.6%	1,825	6.4%	105	6.6%
Information and cultural industries.	171,750	2.8%	615	2.2%	30	1.8%
Finance and insurance.	292,555	4.8%	675	2.4%	45	2.8%
Real estate and rental and leasing.	108,890	1.8%	450	1.6%	15	0.9%
Professional, scientific and technical services.	429,100	7.0%	1,290	4.5%	40	2.5%
Management of companies and enterprises.	7,890	0.1%	10	0.03%	0	0
Administrative and support, waste management and remediation services.	257,020	4.2%	1,190	4.2%	45	2.8%
Education services.	371,200	6.1%	1,600	5.6%	25	1.6%
Health care and social assistance.	531,795	8.7%	2,030	7.2%	140	8.9%
Arts, entertainment and recreation.	121,950	2.0%	540	1.9%	10	0.6%
Accommodation and food services.	380,060	6.2%	1,755	6.2%	75	4.7%
Other Services (except public administration).	273,125	4.4%	1,250	4.4%	75	4.7%
Public administration.	308,955	5.1%	1,075	3.8%	50	3.2%
Non-applicable Industries	94,050	1.5%	215	0.8%	0	0.0
Total labour force	6,086,815		28,360		1,580	

### 3.3 SOCIAL SERVICES IN DUFFERIN COUNTY

#### 3.3.1 Employment Assistance

Dufferin County provides several services for employment assistance. The Ontario Works Program provides individuals in temporary financial need with financial and employment assistance. The County also provides an enhanced program that provides job placements, hiring assistance for employers, job training etc. The Dufferin Employment Centre provides services such as job searching resources, resume building and interview skill workshops. Dufferin County also offers a Youth Services program for assisting young people to develop skills and find employment.

#### 3.3.2 Social Housing Programs

The County of Dufferin maintains a centralized waiting list for subsidized housing, manages and operates County owned properties and funds and administers the non-profit, co-operative, municipal and federal housing programs in the County. Dufferin Housing Services manages 225 senior, integrated and family units. The rent is based on approximately 30% of the gross monthly income with adjustments for utilities. A 16 unit subsidized housing project is located in East Luther-Grand Valley Township. Also, the Rent Supplement Program provides individuals and families with affordable rents in privately owned buildings.

#### 3.3.3 Childcare Services

Dufferin County provides two main resources for childcare. First, the Jean Hamlyn Day Care Centre provides daycare for children from 18 months to 10 years of age. Secondly, the Ontario Early Years Centre offers a range of services for families, including parent education and support, activities and education programs for children and information on community events and services. Core programs are free of charge. The Ontario Early Years Centre has a satellite office in East Luther-Grand Valley Township. The County also provides, to eligible families, financial assistance towards the cost of licensed daycare through the Child Care Subsidy Program. Services for families and children with disabilities are also available.

#### 3.3.4 Services for Seniors

There are a wide variety of services for seniors in Dufferin County. Volunteer-based assistance is coordinated by the County in a variety of areas. Available programs include interior and exterior home maintenance, companionship, meal delivery, transportation and temporary care of home-care patients in order to allow the main caregiver the opportunity

to attend to errands. The County also runs a 160-bed non-profit long-term care facility.

### 3.3.5 Emergency Services

Caledon\Dufferin Victim Services, in partnership with the Ontario Provincial Police (“O.P.P”), offers a 24-hour a day, 7 day a week short-term crisis support, practical assistance, information and a referral program to victims of crime, tragic circumstances and disaster. The O.P.P maintains approximately 26 police officers in the County, excluding the towns of Orangeville and Shelburne, which have their own municipal officers. The main fire station is located in Orangeville, which is volunteer based. It houses three pump trucks, an emergency van, a tanker and a ladder truck. There are seven other, smaller volunteer stations found throughout the County. Dufferin-Caledon Ambulance services are stationed in Orangeville, Shelburne and Grand Valley. They employ 30 full-time and 13 part-time paramedics, who operate eight ambulances.

### 3.3.6 Health Services

Two main hospitals service the County. Orangeville is home to the newly constructed Headwaters Health Care Centre, which has 103 beds and is considered a level ‘C’ community hospital. At Headwaters, there are 87 physicians, including 52 that provide Family Practice and Emergency Medicine, 22 that are specialized local consultants and 40 that are visiting specialized consultants (individual physicians may overlap between these categories). Nursing staff at Headwaters includes 205 Registered Nurses (“RN”) and 84 Registered Practical Nurses. Of the nursing staff, 30 are emergency trained RN’s, 17 work in Critical Care, 28 in the Operating Room and 29 are Lab Technicians (individual nurses may overlap between these categories). Shelburne has the smaller Shelburne District Hospital, which contains 26 beds.

## 3.4 SOCIAL SERVICES IN EAST LUTHER-GRAND VALLEY TOWNSHIP

In comparison to other townships in Ontario, East Luther - Grand Valley is a very small Township, and so community services are limited. The Township does not have a hospital but a doctor is available. Most health services however are provided in the neighboring towns of Orangeville and Shelburne. The police services in the area are provided by the Dufferin O.P.P., which consists of approximately 26 officers. A single fire hall services East Luther - Grand Valley and the neighboring Townships. Community childcare, senior and employment services provided by the County have some satellite offices located in the Township, however most of the services are located in Orangeville and Shelburne.

## 4 AGRICULTURAL PROFILE OF EAST LUTHER - GRAND VALLEY TOWNSHIP

### 4.1 AGRICULTURAL CAPABILITIES OF SOILS

In the Canada Land Inventory (“CLI”) classification system of land capability for

agriculture, mineral soils are grouped into seven classes according to their potential and limitations for agricultural use. Classes 1, 2, and 3 are considered suitable for sustained production of common crops if specified management practices are observed. Soils designated 4 through 6 are increasingly less suited for agriculture. Class 7 soils are generally considered unsuitable for agriculture.

As shown in Table 4.1, Class 1, 2 and 3 soils comprise the majority of soils in both Dufferin County and East Luther - Grand Valley Township. In Dufferin County, Class 1, 2 and 3 soils comprise an area of 240,495 acres, or 65.4% of the County's land base. In East Luther - Grand Valley Township, Class 1, 2 and 3 soils comprise an area of 64,031 acres, or 80.9% of the land base in the Township.

Table 4.1 Distribution of Soils by CLI Capability for Agriculture (in acres)

Soil Class	Dufferin County		East Luther-Grand Valley Township		Comments
	Area	% of total	Area	% of total	
Class 1	124,331	33.8%	34,487	43.6%	Suitable for sustained production of common field crops if specified management practices are followed.
Class 2	81,675	22.2%	28,018	35.4%	
Class 3	34,489	9.4%	1,527	1.9%	
Class 4	13,688	3.7%	2,929	3.7%	Physically marginal for sustained arable use.
Class 5	8,534	2.3%	491	0.6%	Capable of use only for permanent pasture and hay.
Class 6	20,324	5.5%	891	1.1%	Capable of use only for grazing.
Class 7	50,970	13.9%	294	0.4%	Unsuitable for agriculture.
Class 0	33,989	9.2%	10,483	13.2%	Organic soils.
<b>Total</b>	<b>368,000</b>		<b>79,120</b>		<b>Unmapped.</b>

Source: Hoffman and Noble, 1975.

#### 4.2 AREA OF FARMLAND

Table 4.2 shows the distribution of farmland throughout Dufferin County and Ontario from the years 1991 to 2001. It should be noted that apparent increases in the area of farmland between 1991 and 1996 was largely due to Statistics Canada's expansion of the

definition of ‘census farm’ to include Christmas tree operations in the 1996 census. As a result, the area covered by ‘census farms’ increased across the Province even though the areas covered by traditional ‘agricultural operations’ likely decreased. East Luther-Grand Valley Township has the smallest area of farmland in Dufferin County (21,476 acres) and accounts for 8.9% of the total area of farmland in the County. Notwithstanding, the area of farmland throughout most of Dufferin County has continued to decline over time. This trend is consistent with that shown across the Province, and is primarily the result of the conversion of agricultural lands to other types of uses (e.g. residential development and urban expansion).

Table 4.2 Area of Farmland, 1991 – 2001 (in acres)

<b>Township</b>	<b>1991</b>	<b>1996</b>	<b>2001</b>
Mono	20,468	30,051	25,186
Amaranth	45,499	40,820	40,447
East Garafraxa	27,244	34,136	32,093
East Luther-Grand Valley	27,961	23,369	21,576
Melancthon	43,712	48,301	47,284
Mulmur	26,077	45,506	26,576
Dufferin County	190,961	222,183	193,162
Ontario	13,470,653	13,879,565	13,507,357

Source: Census of Canada, Agricultural Profile of Ontario, 1991, 1996 & 2001

#### 4.3 LAND AREA CLASSIFIED BY USE

Table 4.3 shows the area, classified by use, for farmland throughout Dufferin County. Cropland comprised almost 131,000 acres, accounting for 67.8% of farmland in the County. Cropland is also the predominant use of farmland in East Luther - Grand Valley Township, encompassing 17,243 acres, or 79.9% of farmland in the Township.

Other land uses, including Christmas tree farms, take up the second-largest area of farmland at both the County and Township level, followed by areas of tame or seeded pasture and natural land for pasture. Very small areas of farmland are left in summer fallow (i.e. 0.1% in East Luther - Grand Valley Township and 0.4% in Dufferin County).

Table 4.3 Land Area Classified by Use (in acres)

Township	Under Crops	Summer Fallow	Tame or Seeded Pasture	Natural Land for Pasture	Other*	Total
Mono	14,078	53	2,031	4,261	4,763	25,186
Amaranth	28,037	496	3,551	3,481	4,882	40,447
East Garafraxa	25,403	N/A	1,597	1,624	N/A	32,093
East Luther-Grand Valley	17,243	28	1,054	1,010	2,241	21,576
Melancthon	31,315	151	4,404	5,011	6,403	47,284
Mulmur	14,875	N/A	3,026	4,452	N/A	26,576
Dufferin County	130,951	767	15,663	19,839	25,942	193,162

\*Lands classified as Other include all lands used for Christmas tree farms and those agricultural lands not elsewhere classified. The symbol N/A (Not Available) has been inserted in townships where there are too few farms reporting data to ensure confidentiality. As such, N/A does not equal zero, rather it indicates that a positive figure exists for the township and has been used in calculating the total area of the land use.

Source: Census of Canada, Agricultural Profile of Ontario, 2001.

#### 4.4 NUMBER OF FARMS

Statistics Canada defines a census farm as an agricultural operation that produces at least one of the following products intended for sale: crops (e.g. field crops, tree fruit or nuts, berries or grapes, vegetables or seed); livestock (e.g. cattle, pigs, sheep, horses, exotic animals, etc.); poultry (e.g. hens, chickens, turkeys, exotic birds, etc.); animal products (e.g. milk or cream, eggs, wool, fur or meat); or other agricultural products (e.g. greenhouse or nursery products, Christmas trees, mushrooms, sod, honey or maple syrup products). The definition of a census farm was expanded for the 1996 Census of Agriculture to include commercial poultry hatcheries and operations that produced only Christmas trees. This expanded definition resulted in the inclusion of 138 commercial poultry hatcheries and 1,593 operations across Canada that produced only Christmas trees.

Table 4.4 shows the number of farms in the Province of Ontario and Dufferin County for the years 1991, 1996 and 2001. Between 1991 and 1996, the total number of farms in East Luther - Grand Valley Township and Dufferin County showed little change, with slight increases in the number of farms between the two census periods (2.1% and 1.6%, respectively). During this same time period, the number of farms throughout Ontario decreased by 1.6%.

However, between 1996 and 2001, the total number of farms in East Luther - Grand

Valley and Dufferin decreased substantially. During this time period, the number of farms in East Luther - Grand Valley Township decreased by 36%. In Dufferin County, the total number of farms decreased by 13.6%. In both cases, this exceeded the rate experienced across the Province (i.e. 11.5%).

Table 4.4 Number of Farms, 1991 – 2001

Township	1991	1996	2001
Mono	151	218	170
Amaranth	249	219	207
East Garafraxa	137	127	124
East Luther-Grand Valley	144	115	92
Melancthon	191	195	165
Mulmur	151	165	140
Dufferin County	1,023	1,039	898
Ontario	68,633	67,520	59,728

Source: Census of Canada, Agricultural Profile of Ontario, 1991, 1996 & 2001

#### 4.5 FARM SIZES

The average size of Ontario's farms has increased; smaller farms are sold and consolidated, resulting in fewer, but bigger farms. This has been the case throughout most of Ontario for a number of decades and it is a trend that continues today (HCA, 2000). Table 4.5 shows the average farm size throughout Dufferin County as well as Ontario.

Farms in Dufferin County are, on average, smaller than the average Ontario farm. Exceptions to this are farms in East-Luther-Grand Valley, East Garafraxa and Melancthon Townships. East Luther - Grand Valley Township has the third largest average farm size in Dufferin County.

Table 4.5 Average Farm Size, 1991 – 2001 (in acres)

Township	1991	1996	2001
Mono	135.5	137.8	148.2
Amaranth	182.7	186.4	195.4
East Garafraxa	198.9	268.8	258.8
East Luther-Grand Valley	194.2	203.2	234.5
Melancthon	228.9	247.7	286.6
Mulmur	172.7	275.8	189.8
Dufferin County	186.7	213.8	215.1
Ontario	196.3	205.6	226.1

Source: Census of Canada, Agricultural Profile of Ontario, 1991, 1996 & 2001

#### 4.6 FARM TYPES

Each census farm is classified according to the predominant commodity produced. Statistics Canada does this by estimating the potential receipts from the inventories of crops and livestock reported on the census questionnaire. The commodity or group of commodities that accounts for 51% or more of the total potential receipts determines the farm type. For example, a census farm with total potential receipts of 60% from dairy, 20% from hogs and 20% from field crops would be classified as a dairy farm.

Where there is no single major commodity associated with the farm operation (e.g. 45% dairy, 45% hogs and 10% field crops; or 40% grains and oilseeds, 35% hogs and 25% maple syrup), the farm is classified as either a 'livestock combination' or 'other combination' operation. Field crop farms include wheat, grain, oilseed and other field crops. Miscellaneous specialty includes greenhouse flower and plant production, bulbs, shrubs, trees, sod, ornamentals, mushroom houses, honey production, maple syrup production, etc.

As shown in Table 4.6, beef farms are the most common farm type in Dufferin County. Field crop farms are the most common farm type In East Luther - Grand Valley Township, followed by beef and dairy farms.

Table 4.6 Types of Farms by Major Products (>\$2,499 in sales)

Township	Dairy	Beef	Hogs	Poultry & egg	Field crops*	Fruit	Veg.	Misc. spec.	Livestock combo	Other combo
Mono	4	40	0	0	42	0	1	54	2	5
Amaranth	12	65	6	1	45	1	0	42	9	5
East Garafraxa	8	29	3	4	42	1	1	25	4	3
East Luther-Grand Valley	18	22	1	1	29	0	2	10	3	1
Melancthon	5	68	2	1	38	0	2	19	6	5
Mulmur	1	69	0	3	27	2	1	22	3	2
Dufferin County	48	293	12	10	223	4	7	172	27	21

\* Field crops includes wheat, grain, oilseeds and other field crops.

Source: Census of Canada, Agricultural Profile of Ontario, 2001.

#### 4.7 FARM OPERATION ARRANGEMENTS

Table 4.7 describes farm operation arrangements in Dufferin County and Ontario according to four categories. Sole Proprietor farms are one-person farming operations. Partnership includes farms operating with and without written agreements between the partners. Corporation includes family and non-family farms. Other farms include

institution farms, community pastures and other types of farming operations that are not otherwise categorized.

Most of the farms in Dufferin County and East Luther - Grand Valley Township are operated as sole proprietor operations. Sole proprietor is also the most common farm operation arrangement across Ontario. Within the County, only East Garafraxa Township has more farms operated as partnerships than sole proprietor operations. There are no 'other' farm operation arrangements in Dufferin County.

Table 4.7 Farm Operation Arrangements

<b>Township</b>	<b>Sole Proprietor</b>	<b>Partnership</b>	<b>Corporation</b>	<b>Other</b>
Mono	113	43	14	0
Amaranth	140	53	14	0
East Garafraxa	63	69	12	0
East Luther-Grand Valley	56	31	5	0
Melancthon	115	38	12	0
Mulmur	96	34	10	0
Dufferin County	583	248	67	0
Ontario	33,675	18,724	7,275	54

Source: Census of Canada, Agricultural Profile of Ontario, 2001.

#### 4.8 SOIL CONSERVATION PRACTICES

A variety of soil conservation practices are implemented in Dufferin County (Table 4.8). Among these, crop rotation is the most commonly practiced, although it is most often combined with other practices at the individual farm level depending on soil conditions, crop types, the presence of water courses and topography.

Table 4.8 Soil Conservation Practices (# of farms)

<b>Practice</b>	<b>Dufferin County</b>
Crop rotation	524
Permanent grass cover	376
Winter crop cover	68
Contour cultivation	47
Strip cropping	24
Grassed waterways	124
Windbreaks or shelterbelts	127
Green manure crops for plough-down	101
Mechanical or hand-weeding of crops	85

Source: Census of Canada, Agricultural Profile of Ontario, 2001.

## 5 AGRICULTURAL ECONOMICS

### 5.1 FARM GATE SALES

Table 5.1 presents total farm gate sales, average sales per farm and average sales per acre of farmland in the township, county and provincial level from the most recent agricultural census (2000). Farm gate sales in Dufferin County totaled in excess of \$78.4 million, and accounted for 0.9% of the total provincial farm gate sales. Within Dufferin County, East Luther - Grand Valley Township had one of the least farm gate sales in 2000, and accounted for 11% of the farm gate sales in Dufferin County. Farms in East Luther - Grand Valley Township also had one of the highest average farm gate sales per farm and per acre of farmland, although both of these figures were lower than the provincial averages.

Table 5.1 Farm Gate Sales

<b>Township</b>	<b>Total farm gate sales</b>	<b>Sales per farm</b>	<b>Sales per acre</b>
Mono	\$8,651,055	\$50,889	\$343
Amaranth	\$16,130,095	\$77,923	\$399
East Garafraxa	\$15,908,727	\$128,296	\$496
East Luther-Grand Valley	\$8,654,030	\$94,066	\$401
Melancthon	\$23,555,632	\$142,760	\$498
Mulmur	\$5,524,079	\$39,458	\$208
Dufferin County	\$78,423,348	\$87,331	\$406
Ontario	\$9,115,454,790	\$152,616	\$675

Source: Census of Canada, Agricultural Profile of Ontario, 2001.

### 5.2 OPERATING EXPENDITURES

Table 5.2 shows total operating expenditures at the township, county and provincial level. Operating expenditures in Dufferin County totaled in excess of \$74.5 million. Farms in East Luther - Grand Valley Township had one of the lowest average operating expenditures per farm and per acre within the County. Average expenditures per farm and average expenditures per acre in East Luther - Grand Valley Township were below the provincial averages.

Table 5.2 Operating Expenditures

Township	Total expenditures	Expenditures per farm	Expenditures per acre
Mono	\$9,634,319	\$56,672	\$383
Amaranth	\$15,260,366	\$73,722	\$377
East Garafraxa	\$14,383,028	\$115,992	\$448
East Luther-Grand Valley	\$7,612,962	\$82,750	\$353
Melancthon	\$22,000,924	\$133,339	\$465
Mulmur	\$5,662,154	\$40,444	\$213
Dufferin County	\$74,553,753	\$83,022	\$386
Ontario	\$7,829,246,574	\$131,082	\$580

Source: Census of Canada, Agricultural Profile of Ontario, 2001.

### 5.3 NET REVENUE

Table 5.3 provides data on total net revenue, net revenue per farm and per acre at the Township, county and provincial level. Net revenue was calculated by subtracting total expenditures from gross farm gate sales. In 2000, net revenue in Dufferin County totaled \$3.87 million, or about \$4,300 per farm. Farms in Mono and Mulmur townships, on average, experienced negative net revenue. The data show that net revenue per farm, and per acre of farmland, throughout the Townships with positive net revenue was substantially lower than the provincial averages. East Garafraxa and East Luther-Grand Valley had the highest average net revenues per farm, and per acre of farmland, although these were only slightly more than half of the respective provincial averages.

Table 5.3 Net Revenue

Township	Total net revenue	Net revenue per farm	Net revenue per acre
Mono	- \$983,264	- \$5,783	- \$40
Amaranth	\$869,729	\$4,201	\$22
East Garafraxa	\$1,525,699	\$12,304	\$48
East Luther-Grand Valley	\$1,041,068	\$11,316	\$48
Melancthon	\$1,554,438	\$9,421	\$33
Mulmur	- \$138,075	- \$986	- \$5
Dufferin County	\$3,869,595	\$4,305	\$20
Ontario	\$1,286,208,216	\$21,534	\$95

Source: Census of Canada, Agricultural Profile of Ontario, 2001.

## 5.4 CAPITAL INVESTMENT

Investment in farm capital is a critical component to the economic viability of Ontario's farms. As farms become larger and on-farm labour forces decrease, the agriculture industry has become more capital intensive. Table 5.4 shows capital investment at the Township, County and Provincial levels.

Despite negative net revenues, or revenues that are lower than Provincial averages, capital investment per farm and per acre of farmland in Dufferin County approximates that of the Provincial averages. This is an indication of the vulnerability of farms in Dufferin County, particularly in the Townships that experienced negative or very low net revenues; on average these farms are investing more but receiving less for their efforts.

Within the County, East Garafraxa Township has the highest average capital investment per farm. Mono has the highest average capital investment per acre. In both cases, these averages exceed provincial averages. Farms in East Luther - Grand Valley Township have an average capital investment of just over \$810,000, or an average investment of \$3,457 per acre of farmland.

Table 5.4 Capital Investment

Township	Total capital investment	Capital investment per farm	Capital investment per acre
Mono	\$120,577,923	\$709,282	\$4,787
Amaranth	\$150,699,412	\$728,016	\$3,726
East Garafraxa	\$122,455,170	\$987,542	\$3,816
East Luther-Grand Valley	\$74,592,415	\$810,787	\$3,457
Melancthon	\$130,520,055	\$791,031	\$2,760
Mulmur	\$96,814,070	\$691,529	\$3,643
Dufferin County	\$695,659,045	\$774,676	\$3,601
Ontario	\$50,529,783,505	\$845,998	\$3,741

Source: Census of Canada, Agricultural Profile of Ontario, 2001.

## 6 SUMMARY

East Luther - Grand Valley Township is experiencing population growth lower than other rural areas in Dufferin County. This rate of growth is lower than that experienced throughout Dufferin County as a whole (i.e. due to higher growth rates in the urban centres of Orangeville and Shelburne), and is lower than the growth rate experienced at the Provincial level.

Residents of East Luther - Grand Valley Township are primarily of European descent. Christianity is the predominant religion. In terms of real numbers the largest age groups in East Luther - Grand Valley Township are between 10-14 and 35-44 years of age. Many people appear to leave the Township, and likely Dufferin County, upon completion of high school to pursue employment or post-secondary education and do not return. As a result, the majority of residents in the Township have a secondary school education or less.

Manufacturing is the largest industry in East Luther - Grand Valley Township, employing about 21.9% of the workforce. Jobs in agriculture employ about 5% of the Township's workforce. Family incomes in East Luther - Grand Valley Township and Dufferin County are slightly less than the provincial average, although they are more evenly distributed. Social services in East Luther - Grand Valley Township are also limited, and are mostly shared with other municipalities in the County.

East Luther - Grand Valley Township demonstrates very good agricultural potential as more than 80% of the land base is CLI Class 1, 2 or 3 soils. East Luther - Grand Valley also contains the smallest area of farmland in Dufferin County. Most of East Luther - Grand Valley Township's farmland is under crops, although the Township contains a diversity of farm types; field crop and beef farms are the dominant farm types.

The number of farms in East Luther - Grand Valley Township is declining; this is consistent with long-term historic trends. These farms are, however, getting larger. Most of the farms in East Luther - Grand Valley Township are operated as sole proprietor operations, and implement crop rotation and permanent grass cover as their primary soil conservation practices. On average, capital investment per farm in the Township is just over \$810,000.

Agriculture appears to be an economically-viable industry in East Luther - Grand Valley Township, although net revenues are lower than the provincial average. East Luther - Grand Valley Township is one of the weakest agricultural townships in Dufferin County, with farm gate sales (\$8.7 million), sales per farm (\$94,066) and sales per acre (\$401). On average, net revenue per farm in East Luther - Grand Valley Township was just over \$11,300 as of the most recent census. Although this amount is lower than the provincial average, it is higher than the average net revenue at the County level and in some adjacent Townships where negative net revenue was recorded over the same time period.

## 7 REFERENCES

### 7.1 BIBLIOGRAPHY

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- Hoffman, D.W. and H.F. Noble. 1975. Acreage of Soil Capability Classes for Agriculture in Ontario. Ontario Ministry of Agriculture and Food, Rural Development Branch and Department of Regional Economic Expansion. Canada. 71 pages.
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### 7.2 INTERNET SOURCES

- County of Dufferin [On-line]. 2004. Accessed: August 18, 2005. Available at: <http://www.dufferincounty.on.ca>
- Township of East Luther Grand Valley. [On-line]. 2005. Accessed: August 18, 2005. Available at: <http://www.eastluthergrandvalley.ca>

### 7.3 TELEPHONE INTERVIEWS

- Dan Beck, Director of Social Services. . Dufferin County. 519-941-2775. Interview on August 23, 2005
- Jane Wilson, CAO of East Luther Grand Valley Township. 519-928-5652. Interview on August 23, 2005
- Contacted Barry Silver at Ontario Native Affairs Secretariat on August 18, 2005 and August 19, 2005. Left message and asked him to call me back to discuss aboriginal involvement. No aboriginal groups are located in Dufferin County.