

# **Society To Prevent Dutch Elm Disease 2009/2010 Annual Report**



## **STOPDED Chair Message - Milton Davies**

While it is very difficult to thank all of the individuals that have made contributions to keep Alberta Dutch Elm Disease (DED) free, on behalf of the Society To Prevent Dutch Elm Disease (STOPDED) board and its membership, I would like to thank the following partners for their annual financial support. It is my desire that STOPDED continue to be part of the solution in keeping Alberta free of DED and other exotic tree pests. I would like to specifically thank Alberta Agriculture and Rural Development, Sustainable Resource Development, Tourism, Parks and Recreation, and Municipal Affairs for their annual funding and kind support. I would also like to thank all the Agricultural Fieldman, Assistant Agricultural Fieldman, Canadian Food Inspection Agency, Canadian Forest Services, Canadian Border Services, Environment Canada, elm bark beetle trap collaborators, those that help us out with the firewood bin collection and disposal and the contractors that administrate and operate the Provincial Dutch Elm Disease Prevention Program.

As the STOPDED Chair, I believe very strongly in the importance of maintaining our existing partnerships and developing new ones. Without all this support from government and all of STOPDED's other partners, the level of vigilance we maintain would be impossible. The experience in the Provinces and other areas that are fighting DED has proven that a prevention management program is essential.

*Until there is a cure for DED, prevention remains our most effective form of control.*

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## 1. Background

- Dutch elm disease or DED is an invasive fungus known as *Ophiostoma ulmi* or *Ophiostoma nova ulmi* that can affect any elm (*Ulmus* spp.) tree. Once infected the elm tree will die.
- The exotic insect vectors for DED are:
  - i. Smaller European Beetles (SEEBB) (*Scolytus multistriatus*, Marsh)
  - ii. Native elm bark beetle (NEBB) (*Hylurgopinus rufipes*, Eichh)
  - iii. Banded elm bark beetle (BEBB) (*Scolytus schevyrewi*)
- Human vector - domestic firewood movement
- The elm has been the preferred tree to plant, not only for its stately beauty, but also for the tree's impressive list of useful properties such as:
  - growing fast on a wide variety of soils
  - easily transplantable
  - long lived (300+ years)
  - more disease resistant (with the exception of DED) than other varieties of trees grown in Alberta
  - tolerance to drought
  - high salt tolerance in urban boulevard plantings
  - one of the few species that can thrive in the extreme climactic conditions that are present in Alberta
- Since the introduction of the disease from Europe in 1930, it has destroyed millions of American elm (*Ulmus americana*) trees across North America.
- 1975 – DED found in Winnipeg, Manitoba.
- 1976 - Alberta plant pathologists and entomologists formed a DED Action Committee. Dr. Ieuan Evans, plant pathologist with Alberta Agriculture at that time, cited the threat of a possible outbreak of this disease in Alberta as the reason for Alberta Agriculture's amendment to the Alberta Agricultural Pests Act to include both the pathogen and its beetle vectors.
- 1998, an isolated case of DED was found in Wainwright by STOPDED. This tree was promptly removed and properly disposed of.
- 1999 - An elm inventory completed in 529 municipalities in 1999 determined that a total 220,000 elms valued at \$792 million grow in Alberta's urban areas. This inventory also indicated that 10-50% of the trees planted in municipalities are elm trees.
- Through distribution to Alberta farmers for a shelterbelt program, one-half million elms, of both American elm and Siberian elm (*Ulmus pumila*), were distributed before 1976.
- 1981 – DED found in Regina, Saskatchewan.
- 1993 - The Society To Prevent Dutch Elm Disease (STOPDED) was formed.
- 1976 to 2004, Alberta Agriculture administrated the Provincial DED Prevention Program.
- Since 2005- STOPDED receives a Government of Alberta funding grant to operate the Provincial DED Prevention Program. Alberta Agriculture and Rural Development, Sustainable Resource Development, Tourism, Parks and Recreation, and Municipal Affairs are the four government agencies that contribute to this grant.
- The SEEBB found annually since 1994 in Calgary and 1996 in Edmonton.
- SEEBB are now found throughout the province.
- 2006 - BEBB found for the first time in Medicine Hat.
- As a result of vectors being found in Alberta, trapping locations and elm surveillance has been increased.

## 2. Current DED Situation

- Both of the DED vectors and the DED pathogens are declared pests under the Provincial Agricultural Pest Act, administered by AARD. The Canadian Food Inspection agency administers the Plant Protection Act (Canada) which regulates the movement of the disease from infested to disease-free areas and between provinces.
- An “Alberta DED Response Plan” is in place.
- Alberta has a provincial elm pruning ban from April 1st to September 30th in place.
- DED Public Awareness Week is recognized annually province wide from June 24th to June 30th.
- DED is well established in the southern parts of Manitoba (MB) and south eastern parts of Saskatchewan (SK). It now extends throughout the entire natural range of elms in MB.
- SK also reports high numbers of DED along the Fort Qu’Appelle River all the way to Buffalo Pound Park just north of Moose Jaw.
- SK government 2009/2010 Prevention and Management Program budget is \$500,000.00. This does not include the money spent on DED prevention programs in the larger cities.
- Municipalities in areas fighting the disease have “Prevention/Controls Programs” in place. With an effective DED management program in place, the City of Winnipeg’s elm losses averaged approx. 1.2%-2% annually or 2,900 trees per year since 1975.
- Winnipeg is spending C\$2.5 million a year on sanitation and pruning. Having lost 60,000 trees in the last 34 years, the city’s elm population is still 160,000.
- 2009 - 3400 DED infected elm trees are marked for removal within the Winnipeg.
- DED is also found in Missoula, Billings, Great Falls and Sidney.
- SEEBB are found in high numbers in British Columbia (BC), but no DED has been found to date.
- Alberta is one of the last geographic areas in North America still DED free.

## 3. STOPDED Mandate and Goals

Members include federal, provincial and municipal representatives, nurserymen, landscapers, commercial and municipal arborists, research scientists and other interested Albertans. STOPDED members across the province take an active role in the prevention of DED. 2009 membership total - 49 individual and 52 corporate (corporate has 4 votes) and 108 associate.

- **Mandate:** To foster and promote the survival of the American elm (*Ulmus americana*) in Alberta and the desire to protect Alberta’s landscape trees threatened by pests with emphasis on invasive alien species.
- **Goals:**
  1. To protect Alberta’s landscape trees at risk of pests
  2. To work in partnership with communities and government to protect Alberta’s landscape trees
  3. Advocate for the restriction of movement of firewood into and within Alberta
  4. Facilitate, for the public and for government agencies, the early detection of and rapid response to exotic pests of landscape trees

5. Increase the awareness in industry, in the general public, and in government of the value of our landscape trees, the value of our urban forests and of the possible threats to them
6. Secure an annual source of income to operate the province wide invasive landscape tree pest prevention programs
7. Assist and fund research on landscape pests.

#### 4. STOPDED Organization Accomplishments

A new board was elected at the April 2009 Annual General meeting. (See **appendix IV**) The following list is a number of organization accomplishments made since April 15<sup>th</sup>:

- Established a **new STOPDED Hotline** 1-877-837-ELMS. This is being included on all public awareness material.
- In May, the STOPDED Board adopted and instituted a “**Travel Policy**” and created an “**Expense Form**”. This will improve decision making and provide the paper trail for enhanced accountability.
- In June, STOPDED engaged the SVS Group Accountants to **review both STOPDED’s books and examine its accounting practices**. This review is now completed.
- To this end, STOPDED has applied to the Federal Government for GST status as a non-profit organization. The Society is now entitled to their first GST refund from the Federal Government of \$3,500. This is for the past fiscal year.
- A **bylaw review** has been done and the first DRAFT has been completed for Committee Review. The last bylaws were registered in 1993.
- **STOPDED’s minutes** have taken on a new look, making the issue of decision making and responsibilities obvious and transparent.
- **Director Manuals** have been assembled to include board position responsibilities, contact information, business plan etc. This manual will serve as a guide to help board members to understand their role in the provision of good governance.
- STOPDED Board passed a motion granting an associate membership category to include all Alberta Agriculture Fieldmen and their Assistants. This membership in association recognizes the ongoing working relationship that is necessary to strengthen the working relationship with “on-site” detection of DED.
- **Research Committee established new terms of reference**, mandate, composition and membership. This STOPDED Board approved document outlines terms of office, frequency of meetings, reporting structure and specific functions. Two key functions include:
  1. make recommendations to the STOPDED Board of Directors regarding the merit and suitability research funding requests and project funding requests made to the Society.
  2. provide oversight to research and science-related projects undertaken by the Society to ensure quality and that the Society’s interests are maintained.
- **Updated the STOPDED Research Funding Guidelines** that outlines eligibility, the application process, and specific requirements of those who are qualified to receive funding.
- **Established STOPDED Work Plan Proposal** – Now that the Society is directly delivering research projects such as the Invasive Alien Species Partnership Program Project (IASPP) the plan establishes the accountability for clearly identifying objectives, desired outcomes and performance measures(measures of success) for each phase of the

anticipated project. It also establishes clear expectations of the direction and focus and accountability for the project.

- **Sign a Memorandum of Understanding (MOU) with Olds College.** This relationship is expected to enhance both STOPDED and Olds College.

## 5. Integrated DED Prevention Program Components

In order to be successful a prevention program must have all the following components included. If one or more of the practices is reduced or eliminated, the overall program will significantly decrease in effectiveness.

- **Monitoring for DED vectors (SEEBB, NEBB and BEBB)**
  - Provides vital information for DED detection.
  - Monitoring for the three exotic insect vectors is carried out each year throughout the province to determine if the beetles are present.
  - Pheromone baited sticky traps are used to monitor for the DED vectors.
  - It is important to monitor for these three beetle species since they can carry spores of the DED fungus. As they move from breeding sites, such as DED-infected trees or firewood, to feed on healthy elm trees, DED can be spread.
  - If one of these species are found in an area, surveillance of the disease and beetle monitoring locations are increased in that area.
  - Number of traps placed in each municipality depends on location of the municipality, number of elms and if any insect vectors have been trapped in previous years. Approximately one trap is placed for every 500 trees. Traps are placed in some municipalities with less than 500 trees because of their location to borders etc.
  - Beetle populations must be monitored using pheromone traps. Locations to be monitored are municipalities, recreational/campgrounds, Travel Alberta Information Centres, Alberta-Montana border crossings, and nurseries that sell elms.
- **Surveillance of elm trees** for DED symptoms is done in locations where vectors have been found.
- **Sampling** of suspicious elm trees are cultured in a lab.
- **Public awareness** on the disease identification and prevention is essential since DED detection is dependent on the public.
- **Train the trainer** is done to insure enforcement officers such as the Agricultural Fieldman and Custom Officials are informed.
- **Provincial elm inventory** supplies the basic information necessary for an effective prevention program and identifies areas where intensive surveillance is necessary.
- **Provincial and inter-provincial network** is an important component to maintain a liaison with all program partners and cooperators.
- **Response plan and guidelines** need to be in place and updated as required.
- **Elm firewood collection and disposal** is essential to insure DED vector infested elm firewood is not stored or transported within or into Alberta.
- **Research** is supported to find resistant varieties of elm trees, and new control techniques until there is a cure for DED.

## 6. Provincial DED Prevention Program Accomplishments

### ➤ **Monitoring for DED vectors (SEEBB, NEBB and BEBB)**

Municipality location, number of elms and previous year trapping determines the number of traps placed in each municipality. Monitoring season runs from April 1<sup>st</sup> to September 30<sup>st</sup>.

- A total of 1708 traps and lures are purchased and scanned by STOPDED and the larger cities to monitor for the DED vectors in the following number of municipalities, nurseries, parks and ports of entry. (See **appendix II**)
  - 117 Municipalities(cities, towns, villages, hamlets),
  - 31 - Nurseries
  - 30 - Parks (Provincial and Municipal)
  - 5 - US/Canada Port of Entry
- STOPDED distributed 252 traps to 51 municipalities, 5 ports of entry, 30 provincial parks. These traps are changed twice per season and scanned by Western Pest Management Company Ltd. To date, 137 of these traps have been scanned for the presence of the DED vectors.(See **Table 1**)
- The City of Edmonton, Calgary, Red Deer, Medicine Hat and Lethbridge, manage a total of 1058 traps to monitor 203 sites within their city limits. Traps are purchased by each city, changed monthly and scanned by city staff. (See **Table 2**)
- The City of Edmonton, Calgary, Red Deer and Lethbridge are also responsible for distribution and scanning of traps in their buffer zone municipalities. By doing this, it increases the municipalities in the province monitored by 66. Traps for buffer zones are supplied by STOPDED and changed twice per season.

### 2009 Trapping results

**Table 1**

Target Species	Location	Trap Set May to July	Trap Set July to Sept	Total
SEEBB <i>Scolytus multistriatus</i>	Coutts	0	1	1
BEBB <i>Scolytus schevyrewi</i>	Irvine	1	1	2
BEBB <i>Scolytus schevyrewi</i>	Coutts	0	2	2
BEBB <i>Scolytus schevyrewi</i>	Wildhorse	0	1	1
NEBB <i>Hylurgopinus rufipes</i>				0
<b>TOTAL EBB TARGETS</b>		1	5	6

**Table 2**

Target Species	Location	Trap April	Trap May	Trap June	Trap July	Trap Aug	Trap Sept	Trap Oct	Total
SEEBB <i>Scolytus multistriatus</i>	Edmonton			1		1			2
SEEBB <i>Scolytus schevyrewi</i>	Calgary			3		1	2		6
SEEBB <i>Scolytus multistriatus</i>	Fort Sask.				1				1
SEEBB <i>Scolytus multistriatus</i>	Lethbridge			2	4		3		9
SEEBB <i>Scolytus multistriatus</i>	Medicine Hat							2	2
BEBB <i>Scolytus schevyrewi</i>	Medicine Hat			1			8	6	15
NEBB <i>Hylurgopinus rufipes</i>									0
<b>TOTAL EBB TARGETS</b>				10	4	1	13	8	<b>35</b>

Total EBB Targets captured in 2009 traps provincial wide – 41

➤ **Surveillance and DED suspect sampling**

Arrangements were made to have samples taken from all suspect DED elm trees samples by STOPDED. These were sent to Dr. J.P. Tewari, Professor Emeritus with U of A for diagnosis. A total of 4 samples were cultured. All tested negative for DED. This service is paid by STOPDED.

➤ **Public awareness**

STOPDED undertakes many initiatives to promote DED prevention among Alberta citizens and to visitors to Alberta. (See appendix III)

➤ **Elm firewood collection and disposal**

- As part of the STOPDED's invasive alien tree pests prevention, the Society maintains firewood collection bins at all US/AB ports of entry and at all Travel Alberta Information Centres. All firewood is confiscated at the US/AB ports whereas the bins at the information centres are volunteer bins. All bins were emptied and firewood disposed of by volunteers.
- Travellers are requested through highway signage, ad placed in the Alberta Campground Guide, posters and brochures to leave their firewood in the bins in order to reduce the risk of importing insect vectors or disease.

➤ **Research**

- Using casino funds, STOPDED funded "**The fate of elm diseases during composting**" project conducted by the Edmonton Waste Management Centre of Excellence (not for profit corporation).
- STOPDED conducted project – "**Monitoring Invasive Alien wood-Boring Insects in Alberta**". This project is funded by the Invasive Alien Species Partnership Program (IASPP) administered by Environment Canada and is a component of Canada's Invasive Alien Species Strategy. This is the second year that STOPDED has received \$45,000. The project has been managed in entirety by Western Pest Management Company, under contract to STOPDED.
- Besides monitoring for invasive alien wood boring insects with cooperating municipalities, the project has established a collection of native wood boring insects.

## 7. STOPDED Goals for the Future

- Continue to secure funding from Government agencies to operate a Provincial DED and other invasive tree pests prevention program.
- Form more partnerships so program prevention program components and projects can be done more efficiently.
- Order posters which have been designed this past year by Leslie Greentree. This new design is focused on firewood control and will be used in Provincial and Municipal campgrounds, provincial ports of entry and Travel information centres.
- Design a new program brochure.
- Hold workshops.
- Work with AAFD web site representative to update and spruce up the STOPDED website which is kept under Ropin the Web.
- Post both STOPDED minutes and its policies on the AARD website.

- Include the “Last Stand” education and broadcast version on website.
- Once GST status has been officially granted, STOPDED will request historical applications for at least the two previous fiscal years, thereby the possibility of receiving additional GST rebates for these years.
- Hire a bookkeeper to implement the SVS Group Accountants recommendation. STOPDED is moving to a “Project Based Accounting System” to allocate expenditures, based on project needs using a standard accounting program
- STOPDED is planning another Casino in April. Funds raised will be used for research and additional public awareness such as municipal DED signs, educational workshops and ads.
- The society has entered in a **MOU with Olds College** to ensure the long term storage and curation of the Invasive Alien Species Partnership Program (IASPP) collection. This collection will be used as a learning tool for horticulture students and a resource for STOPDED’s continued work in the monitoring of invasive alien species. Dr. Ken Fry, Olds College, Entomologist Instructor has made a commitment to provide 25 hours per year of expert scientific entomological support to assist with curation of material.
- Update and rewrite DED Response Plan
- Work with AARD Pest Surveillance Branch to include DED prevention/control measures in the Alberta Agricultural Pests Act Regulations.



## Appendix II

The following list indicates the number of trap sites in each location and the responsible party.

**LEGEND:**

CGY - Calgary	LB - Lethbridge
EDM - Edmonton	MH - Medicine Hat
SC - Strathcona County	RV - Rocky View MD#44
StC - Sturgeon County	
STOPPED	

<b>Municipality</b>	<b>#Sites</b>	<b>Responsible</b>			
AcadiaValley, M.D. of	1	STOPPED	Irvine, Village of	1	MH
Airdrie, City of	2	CGY	Kathryn, Hamlet of	1	RV/CGY
Ardrossan, Hamlet of	1	SC/EDM	Keoma, Hamlet of	1	RV/CGY
Balzac, Hamlet of	1	CGY	Killam, Town of	2	STOPPED
Barnwell, Village of	1	LB	Lacombe, Town of	3	RD
Barrhead, Town of	1	STOPPED	Langdon, Hamlet of	1	RV/CGY
Barons, Village of	1	LB	Leduc, City of	3	EDM
Beaumont, Town of	1	EDM	Legal, Town of	1	SA/EDM
Beiseker, Village of	1	RV/CGY	Lethbridge, City of	33	LB
Bentley, Village of	1	RD	Leth Correctional Centre	1	LB
Bon Accord, Town of	1	EDM	Leth Research Centre	1	LB
Bonnyville, Town of	1	STOPPED	Leth. Wilson Siding	1	LB
Bowden, Town of	1	RD	Lloydminster, City of	7	STOPPED
Bow Island, Town of	1	MH	Magrath, Town of	1	LB
Brooks, Town of	7	STOPPED	Medicine Hat, City of	36	MH
Bruderheim , Town of	1	SC/EDM	Milk River, Town of	2	STOPPED
Calgary, City of	67	CGY	Mirror, Village of	1	RD
Calmar	1	EDM	Monarch, Hamlet of	1	LB
Camrose, City of	3	STOPPED	Morinville, Town of	1	EDM
Camrose, County of			Nanton, Town of	1	STOPPED
Round Hill, Hamlet of	1	STOPPED	Nobleford, Village of	1	LB
New Norway, Hamlet of	1	STOPPED	Okotoks, Town of	2	CGY
Cardston, Town of	1	STOPPED	Olds, Town of	1	STOPPED
Castor, Town of	1	STOPPED	One Four, Hamlet of	1	MH
Cereal, Village of	1	STOPPED	Oyen, Town of	2	STOPPED
Chauvin, Village of	1	STOPPED	Picture Butte, Town of	1	LB
Chestermer, Town of	1	CGY	Pincher Creek, Town of	1	STOPPED
Claresholm, Town of	2	STOPPED	Ponoka, Town of	2	RD
Coaldale, Town of	2	LB	Provost, Town of	2	STOPPED
Coalhurst, Town of	2	LB	Raymond, Town of	3	LB
Conrich, Hamlet of	1	CGY	Redcliff, Town of	1	MH
Consort, Town of	3	STOPPED	Red Deer, City of	19	RD
Coronation, Town of	2	STOPPED	Redwater, Town of	2	EDM
Coutts, Village of	2	STOPPED	Rimbey, Town of	1	RD
Dalroy, Hamlet of	1	RV/CGY	Sherwood Park	2	SC/EDM
Daysland, Town of	1	STOPPED	Springbank, Hamlet of	1	RV/CGY
Delburne, Village of	1	RD	Springbrook, Hamlet of	1	RD
Devon, Town of	2	EDM	Spruce Grove, City of	2	EDM
Diamond Valley	1	LB	St. Albert, City of	12	SA/EDM
Drayton Valley, Town of	1	STOPPED	Stettler, Town of	2	STOPPED
Drumheller, Town of	3	STOPPED	Stirling, Village of	1	LB
East Coulee, Hamlet of	1	STOPPED	Stony Plain, Town of	3	EDM
Nacmine, Hamlet of	1	STOPPED	Strathcona County	8	EDM
Rosedale, Hamlet of	1	STOPPED	St. Paul, Town of	2	STOPPED
Eckville, Town of	1	RD	Strathmore, Town of	2	CGY
Edgerton, Village of	1	STOPPED	Suffield, Hamlet of	1	MH
Edmonton, City of	48	EDM	Sylvan Lake, Town of	1	RD
CDCN	1	STOPPED	Taber, Town of	5	LB
Elnora, Village of	1	RD	Three Hills, Town of	1	STOPPED
Empress, Village of	2	STOPPED	Trochu, Town of	1	STOPPED
Enchant, Village of	1	STOPPED	Vauxhall, Town of	2	STOPPED
Forestburg, Village of	5	STOPPED	Vegreville, Town of	2	STOPPED
Fort Macleod, Town of	1	LB	Vermilion, Town of	1	STOPPED
Fort Saskatchewan, City of	6	EDM	Veteran, Village of	1	STOPPED
Gibbons, Town of	1	EDM	Viking, Town of	1	STOPPED
Grande Prairie, City of	3	STOPPED	Vulcan, Town of	1	STOPPED
Grassy Lake, Hamlet of	1	MH	Wainwright, Town of	4	STOPPED
Hanna, Town of	2	STOPPED	Walsh Travel Info. Centre	1	MH
High Prairie, Town of	2	STOPPED	Warner, Town of	2	STOPPED
High River, Town of	2	STOPPED	Wetaskiwin, City of	3	STOPPED
Innisfail, Town of	1	RD	Youngstown, Village of	1	STOPPED

<b>Nurseries</b>	<b>#Sites</b>	<b>Responsible</b>
Alberta Tree Movers	1	CGY
Arrowhead Nurseries	1	EDM
Bluegrass Nurseries	1	CGY
Blue Grass Sod Farms	1	RD
Cheyenne Tree Nursery	1	EDM
Coaldale Nurseries Ltd	1	LB
Economy Landscaping	1	StC/EDM
Foothills Landscaping	1	CGY
Golden Acre Garden Centre	1	MH
Golden Acre Garden Sentres NE and Greengate	2	CGY
Green Haven Tree Farm	1	LB
Greenland Nursery	1	EDM
Heritage Nurseries	1	StC/ED
Heritage Tree Nurseries	1	CGY
Lacombe Tree Farms	1	RD
Millcreek Nursery	1	EDM

Old Man Creek	1	EDM
Parkland Nurseries	1	RD
Pireira and Monez Landscaping	1	StC/EDM
Poplar Ridge Tree Farm	1	RD
Salisbury Greenhouses	1	SC/EDM
Simon Bos Nurseries Ltd.	1	LB
Spruce Lanes	1	CGY
Sunnyside Greenhouses Ltd.	1	CGY
Sunshine Tree Nursery	1	StC/EDM
Sunstar Nurseries	1	EDM
Tom's Tree Farm	1	EDM
Vollmin Tree Movers	1	CGY
West Edmonton Treeland	1	EDM
William Holt Nurseries	1	CGY
Windmill Garden Centre	1	MH

<b>Parks</b>	<b>#Sites</b>	<b>Responsible</b>
Aspen Beach PP	3	STOPPED
Big Knife PP	1	STOPPED
Buffalo Lake PP	1	STOPPED
Dillberry PP	1	STOPPED
Dinosaur PP	1	STOPPED
Dixon-Stevenson Rest Stop	1	RV/CGY
Elkwater Cabin Area	1	STOPPED
Gooseberry Lake PP	1	STOPPED
Half Moon Lake Resort	1	SC/EDM
Island Buffalo Jump PP	1	STOPPED
Jarvais Bay PP	1	RD
Kinbrook PP	1	STOPPED
Lac Ste. Anne County Meyerthorpe Campground	1	STOPPED
Little Bow PP	1	STOPPED
Little Fish PP	1	STOPPED
Midland PP	1	STOPPED
Pine Lake PP	1	RD
Parkland PP	1	RD
Reesor Lake PP	1	STOPPED
Rochan Sands PP	1	STOPPED
Sherwood Forest Campground	1	SC/EDM
St. Mary Reservoir	1	STOPPED
Strathcona Science PP	1	SC/EDM
Taber PP	1	LB
Tillbrook PP	1	STOPPED
The Narrows PP	1	STOPPED
Tolman Bridge PRA	1	STOPPED
Vermillion PP	1	STOPPED

<b>Port of Entry</b>	<b>#Sites</b>	<b>Responsible</b>
Chief Mountain	1	STOPPED
Carway	1	STOPPED
Coutts	1	STOPPED
Del Bonita	1	STOPPED
Wild Horse	1	STOPPED

### Appendix III

- “STOPDED NEWS” **summer 2009** newsletter emailed to all STOPDED members, Ag Fieldman and to all Alberta municipalities.
- **Paid Advertisements focused on Elm Firewood and Pruning**
  - **2009 LANTX**. Industry resource guide with a target distribution of 1000 in AB, BC, and SK.
  - **Alberta Gardener** spring and summer issue. 5000 gardener subscribers.
  - **Official 2009 Alberta Campground Guide** a primary reference for vacationing travelers. 250,000 copies are distributed locally, nationally and internationally. Estimated 750,000 campers and families utilizing the Guide.
  - **Alberta Native News** May, June, July, August and September issues. This magazine is distributed to 14,000 families in all the First Nations, Metis Settlements and Friendship Centres.
  - **Alberta Outdoorsmen** June, July and August issues. 10,000 copies are distributed through sporting goods stores, major chains, newsstands across Alberta and to subscribers.
  - **Edmontonschild** August issue. Distribution is 200,000 in Edmonton and surrounding communities.
  - **Family Focus** June/July 2009, August/Sept 2009 and Summer Travel Guide issues. Distribution is over 40,000 copies to every public school in the province and McDonald restaurants. The intention is to have the magazine go home to the parents.
  - **Calgary Horticultural Society, Calgary Gardening** June-July and Aug-Sept newsletters.
  - **Calgary Jubilations Dinner Theatre Playbill** April 17- June 21, 2009 and **Edmonton Jubilations Dinner Theatre Playbill** June 12-August 16. 2009. Target audience is middle to high income. Playbill is also mailed out to major hotels, tourism and information offices and airports throughout each city. Circulation is 100,000
  - **Prairie Landscape Magazine** June/July and Aug/Sept.
  - **Prairie Landscape Magazine** Resource Guide in AB, BC, SK and MB. Distribution of 2000
  - **The Prairie Arborist** 2009 July an ISA Prairie Chapter newsletter for professional arborists, suppliers of arboriculture equipment, suppliers of arboricultural services, municipal arborists, parks administrators, arborist educators and trainers. 300 subscribers
  - **The Gardener for the Prairies** fall issue.
  - **Western Amateur Sports Paper** fall edition. Distributed in Edmonton, Calgary, Red Deer, Grande Prairie, Lehtbridge, Medicine Hat, Lloydminster, Banff and Jasper at Safeways, McDonalds Restaurants, Sports Pubs, Local arenas and Rec&Fitness Facilities. Circulation 20,000.
  - **Tree Service Canada** 2009 summer and fall edition. Target audience Alberta tree service professionals. 10,000 subscribers
  - **Western Canadian Game Warden** summer and fall 2009 issues. Distributed throughout all western provinces and in the USA. Circulation 6000
  - **Western Parent Calgary** June/July 2009. Target audience of parents, professionals, businesses, and organizations who service Calgary families. Distributed 450
  - **Westworld Alberta** June 2009, issue. Distribution is 523,094

- **Westworld British Columbia** May 2009. Distribution is 531,000
- **Westworld Saskatchewan** May 2009. Distribution is 115,389.
- **Magazine and News Articles**
  - **Family Focus**” June/July 2009, August/Sept 2009 and Summer Travel Guide issues.
  - **The Prairie Arborist** 2009 July.
  - **Western Amateur Sports Paper**” Fall edition.
  - **Agri-News articles**
    - March 30 – Alberta Elm Pruning Ban
    - May 18 – Insect and Disease Conference in Saskatoon
    - June 22 - Dutch Elm Disease Awareness Week
    - June 22 - Dutch Elm Disease Prevention – What can you do.
    - Aug 10 - Dutch Elm Disease – A Threat to Alberta Elm Trees
- **STOPDED E-Bulletin’s**

As part of the ongoing efforts to keep members informed on DED and other related pest issues and information E-Bulletin’s are regularly sent out.
- **Dutch Elm Disease Awareness Week**
  - Kick off in Medicine Hat with a tree planting ceremony. A Brandon elm was planted. In attendance were the STOPDED board, arborists, Agriculture Fieldman, and delegates from Medicine Hat City Hall. Local media were also there.
  - Article placed in Agri-News
- **Tradeshows**
  - ISA Prairie Chapter Tree Climbing Championship
  - Alberta Recreation and Parks Association (ARPA)
  - **Green Industry Trade Show & Conference**
- **STOPDED Hotline – 1-877-837-ELMS (3567)**
  - 156 calls with concerns and questions ranging from information on the DED Response Plan, Agricultural Pests Act, Plant Protection Act of Canada, storm damage, pruning ban, proper disposal, proper tree care and DED symptoms.
- **STOPDED Website**
  - AARD Ropin the Web **DED website** updated when needed by AAFD.
- **STOPDED Information Material**
  - Decals, note pads, and business cards were handed out at tradeshows.
  - STOPDED display updated with a new firewood information panel.
  - **Accredited Community and Regional Visitors Information Centres and Travel Alberta Visitor Information Centres** were contacted and sent brochures, posters and DVD. These Centres are located in Brooks, Brazeau, Camrose, Devon, Cochrane, Cold Lake, Fort McMurray, Grande Cache, Lac La Biche, Leduc, Millet, and Pincher Creek, Rocky Mountain House, Slave Lake, Falher, Stettler, High River, Vulcan, Westlock, Whitecourt. Canmore, Crowsnest Pass, Grande Prairie, Field, Hinton, Lloyminster, Milk River, Oyen, Walsh, and West Glacier. All were contacted several times through the summer to check their brochure supply.
- **Signage**
  - Forty 4’x 4’ aluminum DED municipal signs which include the STOPDED hotline have been sent to St. Albert, Red Deer, Lethbridge Grande Prairie, Edmonton, Calgary, Medicine Hat, Camrose and Olds.

## Appendix IV

### STOPDED Board

<b>Chair:</b>	Milton Davies Arbor-Pro Tree Consulting Ltd.-Consultant Edmonton, AB
<b>Vice Chair</b>	Dr. Ieuan Rhys Evans Agri Trends-Consultant Spruce Grove, AB
<b>Secretary</b>	Jacqueline Dawn Powell Red Deer Regional Hospital-Certified Arborist &Utility Specialist Red Deer, AB
<b>Treasurer</b>	Kevin Veenstra City of St Albert Parks-Tree/Pest Foreman St Albert, AB
<b>Director North</b>	Michael Jenkins City of Edmonton-Biological Technician Edmonton, AB
<b>Director Central</b>	Elaine Johnson City of Red Deer-Urban Forester Red Deer, AB
<b>Director South</b>	Cody Anderson Arborcare Tree Services Ltd.-Superintendent of Operations High River, AB

### Contractors

Janet Feddes-Calpas - Plantuition Inc.  
STOPDED Executive Director

Jim Jones-Western Pest Management Company Ltd.  
Entomologist

**This report was written by Janet Feddes-Calpas and reviewed by Milton Davies**