

CANBY CITY COUNCIL

Regular Session

September 17, 2003

WORKSHOP – 6:00 PM – Council Chambers – Economic Development

AGENDA – 7:30 PM – Council Chambers

1. **OPENING CEREMONIES:**
 - A. Call to Order, Flag Salute
2. **PRESENTATION:**
 - A. Employee of the Month
3. **PROCLAMATIONS:**
 - A. Disability Employment Awareness Month
 - B. POW/MIA Remembrance Day
4. **CITIZEN INPUT ON NON-AGENDA ITEMS:**
5. **CONSENT AGENDA:**

Minutes – Workshop, August 27, 2003
Minutes – Regular Meeting, September 3, 2003
Accounts Payable - \$538,010.70
Quitclaim Deed for Vacation of Easement on SE 9th Avenue

Pg. 1
6. **COMMUNICATIONS:**
7. **NEW BUSINESS:**
8. **UNFINISHED BUSINESS:**
9. **RESOLUTIONS & ORDINANCES:**
 - A. Res. 843, Natural Hazards Mitigation Plan

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10. **MANAGER'S REPORT:**
 - A. Update on Neighborhood Associations

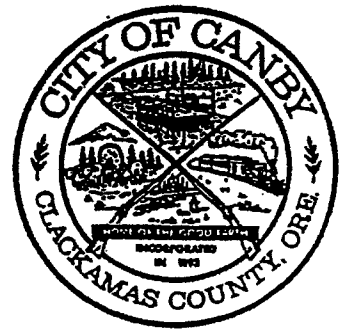
Pg. 52
11. **CITIZEN INPUT:**
12. **COUNCILORS' ISSUES:**
13. **ACTION REVIEW:**
14. **EXECUTIVE SESSION:** ORS 192.660 (1)(h) pending litigation
15. **ADJOURN:**

**The meeting location is accessible to persons with disabilities. A request for an interpreter for the hearing impaired or for other accommodations for persons with disabilities should be made at least 48 hours before the meeting to Kim Scheafer at 503.266.4021 ext. 233.*

1000 NE, 10th Ave,
620 S. 2nd
620 S. 2nd
582 N W Knightsbridge
1864 N. Redwood Canby
128 NE 12th Ave.
29411 S Burland
824 N Holly St
850 N. BIRCH ST -
1864 N. Edmund St Canby
10381 S Mulino Rd Canby
1341 N. Maple St

CITY COUNCIL

SIGN-IN SHEET



Date: 9-17-03

PLEASE PRINT CLEARLY

NAME _____

ADDRESS

Crazy Finden

11628 Makin Ln Canby

James Doherty

BRD

Bob Trappe

1527 NE Lagoon Blvd Corp.

Reggie Baker

CAROL

RYAN OLIVER

1155 N FONDAROSA

Ben Dook-Hale

Champion

CATHERINE DAVIS

2790 N Maple Canyon

Vicki Adamson

CIBRD

Lisa Wiggandt

2522 SE Township

Martha Schrader

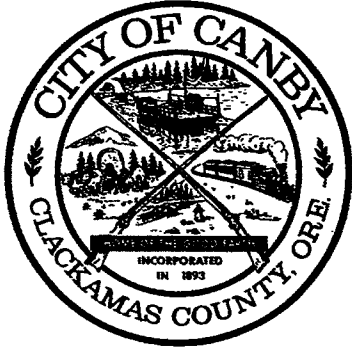
Steve Mayes - Oregonian

John Bell - Herald

John Williams

Greg Jenks

Renate Mengelberg



City Council FYI Update

To: Mayor & City Council
Date: 9 September 2003

Reminder: We have a work shop in the Council Chambers at 6:00 PM to hear a presentation on economic development - partnerships and processes - to be presented by the economic development professionals from Clackamas County. A light meal will be served. The CBRD Board and Chamber Board have been invited to attend the work shop.

City Council Agenda Items for 17 September, 2003 Council Meeting

1. **Presentation of Employee of the Month for August:** I will be making a presentation to Ben Johnston of our Parks Department upon his selection as Employee of the month for August.
2. **Proclamations:** There are two proclamations on the agenda:
 - > Disability Employment Awareness Month
 - > POW/MIA Remembrance Day
3. **Consent Agenda:** In addition to the regular approval of minutes and accounts Payable, the Consent Agenda contains approval of the vacation of an easement on SE 9th Avenue. The staff report on the easement vacation is attached.
4. **Resolution 843 Re: Natural Hazards Mitigation Plan:** Attached is a staff report in support of your approval of Resolution 843 which adopts the Natural Hazards Mitigation Plan for the City. This plan reviews the potential threats to safety from natural hazards and recommends courses of action to address those specific threats. Adoption of this resolution will allow the City to seek federal grant funding for the implementation of the mitigation measures. As outlined in John Williams' staff report, Canby could be the first city in the nation to adopt such a plan and subsequent funding eligibility. Staff recommends you approve Resolution 843.

5. **Manager's Report:** As you are aware, the Council's Goals and Program of Work Document outlines a goal to improve public relations and work with neighbor associations in the community to assist them in forging productive relationships with the City. Even before that specific goal was articulated, Matilda Deas has been working with the two existing neighborhood associations. In addition, she has been in discussions with the Mayor regarding an organized approach to address Goals 8 & 9 of your Program of Work Document which relate to community relations and customer service.

In late July, staff reported on the progress made thus far in addressing the Council Goals and Program of Work Document. You received a number of reports, including a report (attached) prepared by Matilda which focuses directly on her work with the neighborhood associations. Her report outlines an action plan that involves a number of steps that are recommended to maximize the effectiveness of the neighborhood association partnership with the City. For us to move forward, we are seeking your approval of this action plan and associated time line.

Accordingly, we have placed this item on the agenda for a discussion by the Council and to afford Matilda an opportunity to present the recommended action plan and answer any questions you may have about her work with the neighborhood associations.

MISCELLANEOUS ITEMS

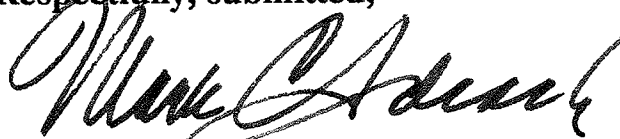
Attached are several items which may be of interest to the City Council.

> Activity reports for the month of August from various departments.

> **City Administrator's Round Table Luncheon:** As you recall, I advised the Council that I would be holding lunch meetings with groups of people representing not only the business community, but also neighborhoods. The first luncheon was held today at Tres Café. Ten people were invited and all confirmed their attendance by RSVP. A total of six people actually made it to the luncheon and, based upon the feedback so far, those who have spoken to me were very pleased with the format and appreciated the opportunity to get together and ask questions or just visit on any city related topic. I've

attached a list of those invited to the first Round Table Luncheon. Invitations for the October Round Table Luncheon will soon be sent out. I have also attached a copy of a "thank you" letter to those folks in attendance.

Respectfully, submitted,

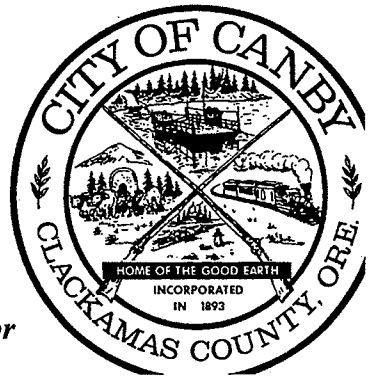
A handwritten signature in black ink, appearing to read "Mark C. Adcock", written in a cursive style.

Mark C. Adcock

Attachments

MEMORANDUM

TO: *Honorable Mayor Thompson and City Council*
FROM: *John R. Williams, Community Development & Planning Director*
THROUGH: *Mark C. Adcock, City Administrator*
DATE: *September 4, 2003*



Issue: Vacation of an easement on SE 9th Avenue.

Synopsis: The City Council approved Ordinance 1112 in January of 2003, which vacated an unneeded hammerhead turnaround. The applicant was not aware of an easement that surrounded that right-of-way and is now requesting that the easement be vacated as well.

Recommendation: Staff recommends that the Council approve the attached quitclaim deed as part of the consent agenda.

Rationale: There are no known issues relative to the vacation proposal. As shown on the attached letter, all utility providers have approved the request since there are no current or planned utility facilities in the area. We will still retain an easement along the street.

Attached: Quitclaim deed; letter from utility providers; map of easement.

Quitclaim deed

Reserved for Deed Records Use

By this instrument the **CITY OF CANBY, a municipal corporation**, 182 North Holly, Canby, Oregon, GRANTOR, releases and quitclaims to **BRUCE W. MARTIN**, GRANTEE, all right, title, and interest in and to the following described real property situated in the County of Clackamas and the State of Oregon, and more particularly described as follows:

See attached Exhibit "A"
(two pages)

The true consideration for this conveyance is other non-monetary consideration.

Dated this _____ day of _____, 2003

GRANTOR:

CITY OF CANBY, A MUNICIPAL CORPORATION

Mayor, City of Canby (print name)

STATE OF OREGON
County of CLACKAMAS

This was acknowledged before me on _____, 2003

By _____, acknowledging
said instrument to be his/her voluntary act and deed.

Notary Public for Oregon

My commission expires:

After recording return to: **Bruce W. Martin, 465 S. Pine Street, Canby, Oregon 97013**

August 25, 2003

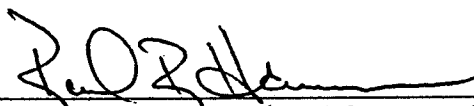
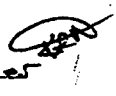
To whom it may concern:

Lot 7 South Redwood Estates has a 12 foot public easement interior to the previous property line on the south side of SE 9th Avenue, City of Canby. The property line for lot 7 was amended by vacating of the property under City of Canby Ordinance No.1112, January 8, 2003. The property transfer by Ordinance was recorded at Clackamas County, but the public easement presently still follows the old property line (which followed a previous emergency vehicle turnaround on the south side of SE 9th Avenue vacated by Ordinance No.1112).

We hereby vacate the 12 foot easement as no longer necessary since a new 12 foot easement was created along the new property line south of SE 9th Avenue established by the property vacation of City of Canby Ordinance No.1112, and, there are no existing facilities within the easement to be vacated.

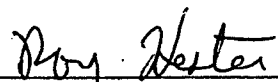
(See copy of attached Ordinance No.1112 and legal description/drawing).

This agreement is transferable to future property owners.

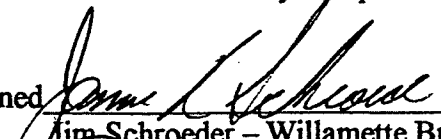
Signed 
Karl Hansen, ~~Operations Manager~~ - Canby Utility Board - Assistant General Manager 

Signed N/A
Pat Thurston - Canby Utility Water Dept.

Signed N/A
Gary Stockwell - Canby Utility Electric Dept.

Signed  25 Aug 03
Roy Hester - Canby Public Works Dept.

Signed  8-25-03
Don Bush - Canby Telephone Association

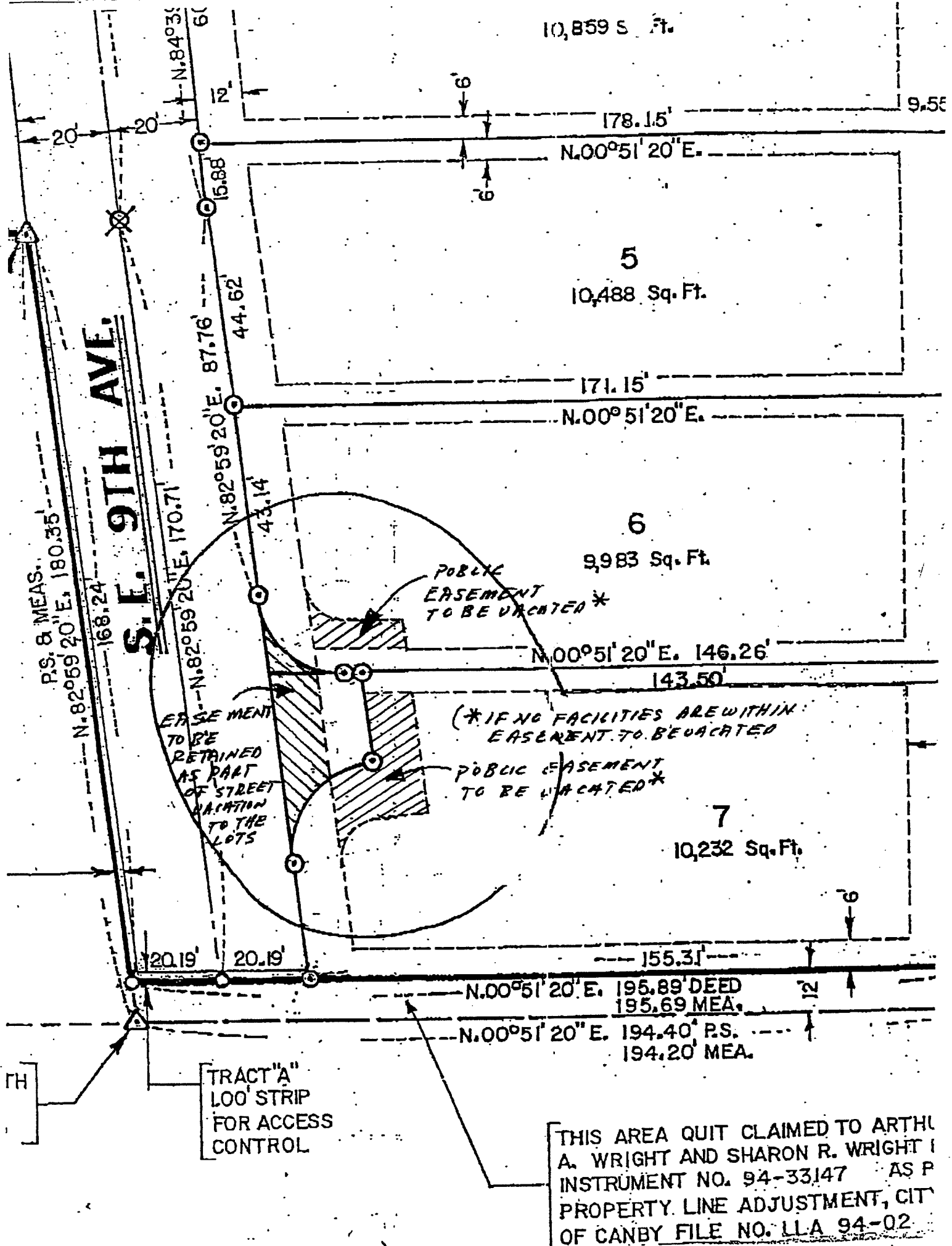
Signed  8/26/03
Jim Schroeder - Willamette Broadband

Signed  8-26-03
Lee Larsen - Northwest Natural Gas Co.

RECEIVED

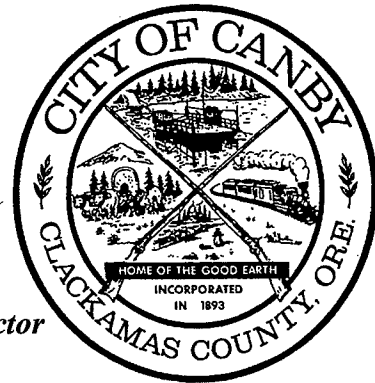
AUG 29 2003

CITY OF CANBY



MEMORANDUM

TO: Honorable Mayor Thompson and City Council
FROM: John R. Williams, Community Development & Planning Director
DATE: September 4, 2003
THROUGH: Mark C. Adcock, City Administrator



Issue: Resolution 843, adopting a Natural Hazards Mitigation plan for the City of Canby.

Synopsis: The proposed plan reviews the potential threats to safety from natural hazards and recommends courses of action to address these threats. Adoption will allow Canby to access federal grant funds for mitigation projects. ***Canby could be the first city in the entire United States to adopt such a plan and gain fund eligibility.***

Recommendation: Staff recommends the Council **adopt Resolution 843.**

Rationale: The plan has been reviewed and tentatively approved by the Federal Emergency Management Agency (FEMA), so it is in compliance with all applicable regulations (see attached letter). The FEMA funds that would become available upon adoption could be used to provide some much-needed projects around town.

Background: Clackamas County was the first county in the nation to have a Mitigation Plan adopted in conformance with Federal regulations (these were authorized by the Disaster Mitigation Act in 2000). Once counties have adopted a plan, a city can file an addendum, adding any required detail or revision as necessary. Canby will be the first city in the County, and therefore in the nation, to have our plan adopted and approved by FEMA.

Credit for this should go to the Canby Fire District, Clackamas County, and the Canby Emergency Management Committee (see description on page 1 of the plan). These groups have been very proactive in creating this plan.

The plan contains a draft project list (p. 32-39) which will be refined and fleshed out by the Emergency Management Committee as time goes on.

Options: 1. Reject the resolution and do not adopt the plan. Staff knows of no reason to follow this option.

Attached: FEMA letter; Resolution 843; Natural Hazards Mitigation Plan (40 p.)



Federal Emergency Management Agency

Region X
130 228th Street, Southwest
Bothell, WA 98021-9796

August 14, 2003

Mark Adcock, City Administrator
City of Canby
PO Box 930
Canby, Oregon 97013

Dear Mr. Adcock:

The Federal Emergency Management Agency (FEMA) has reviewed the Canby Addendum to the Clackamas County Natural Hazard Mitigation Plan using the criteria for multi-jurisdictional plans contained in Title 44 Code of Federal Regulations (CFR) Part 201, as authorized by the Disaster Mitigation Act of 2000. Based on the review, Canby's plan contains the required criteria for FEMA approval *after it is adopted by the local governing body*.

The criteria for FEMA approval of multi-jurisdictional hazard mitigation plans include participation in the planning process, a risk assessment, development of mitigation actions, and adoption by the local governing body. The Canby hazard mitigation plan met the criteria except for the local plan adoption.

Please send documentation of the plan's adoption to the State Hazard Mitigation Officer, Dennis Sigrist, at Oregon Emergency Management (OEM). OEM will forward the documentation to our Regional Office. FEMA will send written notification when your plan is approved. Once approved, your city will be eligible for the Robert T. Stafford Disaster Relief and Emergency Assistance Act's hazard mitigation grant programs for a period of five years.

If you have any questions, please contact Sharon Loper, our Mitigation Plans Manager, at 425.487.4700.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark R. Carey', is written over a circular stamp. The signature is fluid and cursive.

Mark R. Carey, Acting Director
Federal Insurance and Mitigation Division

Enclosure: FEMA Region 10 Review Checklist

cc: Dennis Sigrist, SHMO, OEM, Oregon State Police
Rob Yarbrough, Canby Fire Department
Cindy Kolomechuk, Clackamas County Emergency Management

RESOLUTION NO. 843

A RESOLUTION ADOPTING A NATURAL HAZARDS MITIGATION PLAN.

WHEREAS, the City of Canby has experienced property damage and threats to the welfare and safety of its residents from flooding, landslides, and severe storms over the past several years and is subject to the additional hazards of earthquakes, volcanic activity, fires and hazardous materials; and

WHEREAS, the Canby Fire District in cooperation with Clackamas County and the City's Emergency Operations Center team has prepared a recommended *Natural Hazards Mitigation Plan* to address these issues; and

WHEREAS, the *Natural Hazards Mitigation Plan* has been circulated for review to citizens and representatives of various agencies;

NOW THEREFORE, IT IS HEREBY RESOLVED by the City Council of the City of Canby, as follows:

- (1) The Natural Hazards Mitigation Plan Addendum, attached as Exhibit "A," is hereby adopted as an official plan of the City of Canby.

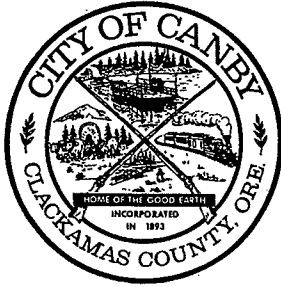
This resolution will take effect on September 17, 2003.

ADOPTED this 17th day of September, 2003 by the Canby City Council.

Melody Thompson
Mayor

ATTEST:

Chaunee Seifried
City Recorder, Pro-Tem



The City Of Canby

Natural Hazards Mitigation Plan Addendum

Prepared for

City of Canby
P.O. Box 930
118 N. Holly Street
Canby, OR 97013

In cooperation with

Clackamas County Emergency Management
2200 Kaen Road
Oregon City, OR 97045

The City of Canby Natural Hazards Mitigation Plan Addendum

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Section 1:

Planning Process

The City of Canby Natural Hazards Mitigation Plan includes resources and information to assist city residents, public and private sector organizations, and others interested in participating in planning for natural hazards. The mitigation plan provides a list of activities that may assist the City of Canby in reducing risk and preventing loss from future natural hazard events. Canby has developed this Plan as an addendum to the Multi-Jurisdictional Clackamas County Natural Hazards Mitigation Plan in an effort to take a more regional approach to planning for natural hazard scenarios.

Who Participated in Developing the Plan?

The City of Canby Natural Hazards Mitigation Plan is the result of a collaborative effort between the City of Canby public agencies, non-profit organizations, the private sector, and regional and state organizations. A project Emergency Management Committee (EMC) guided the process of developing the plan. The EMC was comprised of representatives from:

- Canby Chamber of Commerce
- Canby Community Emergency Response Teams
- Canby Finance Department
- Canby Fire District NO. 62
- Canby Police Department
- Canby Public Works
- Canby School District
- Canby Telephone Company
- Canby Utility Board
- Canby Waste Water Treatment Plant
- Clackamas Amateur Radio Emergency Service
- Clackamas County Emergency Management
- First Student Transportation

Multi-Jurisdictional Planning Effort

The City of Canby is dedicated to taking a regional approach to planning for natural hazards. The City of Canby has representation on the Clackamas County Emergency Management Committee to ensure that the city's interests are represented in the larger scale planning effort. The city will partner with the county in implementation of appropriate action items, and will work with other jurisdictions to reduce losses from future natural hazards.

Planning Process

The Canby EMC had a regular meeting schedule to complete the planning process, and the residents of the City of Canby had an opportunity to participate in the county-wide public workshops designed to gain citizen input. The planning process is described in Appendix B of the Clackamas County Natural Hazards Mitigation Plan.

What is the Plan Mission?

The City of Canby concurs with the mission statement developed during the Clackamas County planning process.

What are the Plan Goals?

The City of Canby concurs with the goals developed during the Clackamas County planning process.

How Will the Plan be Implemented, Monitored, and Evaluated?

The plan maintenance process includes a schedule for implementing, monitoring, evaluating, and reviewing this plan addendum. It is essential to have this process to ensure plan sustainability.

Plan Adoption

The Canby City Council will be responsible for adopting the Multi-Jurisdictional Clackamas County Natural Hazards Mitigation Plan including the City of Canby Addendum. This governing body has the authority to promote sound public policy regarding natural hazards.

Coordinating Body

The City of Canby currently has an Emergency Management Committee (EMC) that deals with preparedness, mitigation, response, and recovery. The EMC meets on the second Tuesday of every month from 12:00pm-2:00pm. The Canby EMC will be responsible for coordinating implementation of plan action items and undertaking the formal review process. The Canby Natural Hazard Mitigation Plan will be on the agenda for every meeting to discuss the implementation of mitigation strategies, evaluate the effectiveness of the plan, and develop new mitigation strategies to reduce losses from natural hazards.

Due to the nature of this project-based committee, technical advisory committees as well as other ad hoc committees may be established to implement appropriate mitigation projects and tasks, and will be held as needed. The attendees of these technical advisory committees will report on their actions to the EMC at the regularly scheduled meetings.

The City Council will assign representatives from appropriate city agencies, including, but not limited to, the current EMC members. In order to make this committee as broad and useful as possible, the EMC will engage other relevant organizations and agencies in hazard mitigation. The recommendations for adding to the Emergency Management Committee include a representative from the business community and a Chamber of Commerce representative.

Convener

A representative from Canby Fire District No. 62 will serve as a **convener** to facilitate the EMC meetings, and will assign tasks such as

updating and presenting the Plan to the members of the committee. Plan implementation and evaluation will be a shared responsibility among all of the Natural Hazard Advisory Committee Members.

Implementation through Existing Programs

The City of Canby addresses statewide planning goals and legislative requirements through its Comprehensive Land Use Plan, Capital Improvement Plans, and Building Codes. The Natural Hazard Mitigation Plan provides a series of recommendations that are closely related to the goals and objectives of these existing planning programs. The City of Canby will have the opportunity to implement recommended mitigation action items through existing programs and procedures.

Economic Analysis of Mitigation Projects

The Federal Emergency Management Agency's approaches to identify the costs and benefits associated with natural hazard mitigation strategies, measures, or projects fall into two general categories: benefit/cost analysis and cost-effectiveness analysis. Conducting benefit/cost analysis for a mitigation activity can assist communities in determining whether a project is worth undertaking now, in order to avoid disaster-related damages and costs later. Cost-effectiveness analysis evaluates how best to spend a given amount of money to achieve a specific goal. Determining the economic feasibility of mitigating natural hazards can provide decision-makers with an understanding of the potential benefits and costs of an activity, as well as a basis upon which to compare alternative projects.

Given federal funding, the EMC will use a FEMA-approved benefit/cost analysis approach to analyze and prioritize mitigation action items. For other projects and funding sources, the EMC may use other approaches to understand the costs and benefits of each action item and develop a prioritized list. For more information regarding economic analysis of mitigation action items, refer to Appendix C of the Clackamas County Natural Hazards Mitigation Plan.

Formal Review Process

The City of Canby Addendum to the Clackamas County Natural Hazards Mitigation Plan will be evaluated on an annual basis to determine the effectiveness of programs, and to reflect changes in land development or programs that may affect mitigation priorities. The convener will be responsible for contacting the EMC members and organizing the annual meeting. Committee members will be responsible for monitoring and evaluating the progress of the mitigation strategies in the Plan.

The committee will review the goals and action items to determine their relevance to changing situations in the city, as well as changes in state or federal policy, and to ensure they are addressing current and

expected conditions. The committee will also review the hazard assessment portion of the Plan to determine if this information should be updated or modified, given any new available data. The coordinating organizations responsible for the various action items will report on the status of their projects, the success of various implementation processes, difficulties encountered, success of coordination efforts, and which strategies should be revised.

The convener will assign the duty of updating the plan to one or more committee members. The designated committee members will have ninety days to make appropriate changes to the Plan before submitting it to the EMC members, and presenting it to the City Council. The EMC will also notify all holders of the plan when changes have been made. Every five years, the convener or designee will submit the updated plan to the State Hazard Mitigation Officer and the Federal Emergency Management Agency for review and approval.

Continued Public Involvement

The City of Canby is dedicated to involving the public directly in review and updates of the Hazard Mitigation Plan. The public will have the opportunity to provide feedback about the Plan through a variety of forums. Copies of the Plan will be catalogued and kept at City Hall, the Planning Department, the Police Department, the Chamber of Commerce, the Public Library and the Fire Station. In addition, the plan and any proposed changes will be posted on the city website. This site will also contain an email address and phone number to which people can direct their comments and concerns.

A public meeting will also be held after each annual evaluation or when deemed necessary by the EMC. The meetings will provide the public a forum for which they can express its concerns, opinions, or ideas about the Plan. The EMC will be responsible for using city resources to publicize the annual public meetings and maintain public involvement through the webpage, and the Canby Herald Newspaper.

What are the Mitigation Strategies Identified by the City of Canby?

The *action items* are a listing of activities in which county agencies and citizens can be engaged to reduce risk. Each action item includes an estimate of the timeline for implementation. *Short-term action items (ST)* are activities that county agencies may implement with existing resources and authorities within one to two years. *Long-term action items (LT)* may require new or additional resources or authorities, and may take between one and five years to implement. The action items are organized within the following matrix, which lists all of the multi-hazard and hazard-specific action items included in the mitigation plan.

Section 2: Community Profile

Geography and the Environment

The City of Canby is located in the Willamette Valley, which is the population center of the State of Oregon. The valley is nestled between the Coast and Cascade Mountain Ranges and is from 20 to 40 miles wide and is 130 miles long extending from Eugene-Springfield in the south to Portland in the north. The Canby area is bordered to the west and south by the Molalla River and to the north by the Willamette River. The confluence of the Molalla River and Willamette River occurs just north of the City.

The City of Canby is located on a relatively flat terrace and, with few exceptions, only gentle changes in the topography of less than 30 feet occur within the City limits and Urban Growth Boundary (between 140 to 170 feet above mean sea level). The southwest portion of the City drops abruptly at the Molalla River to an elevation of approximately 80 feet. This is very evident when approaching the City from the west on Knights Bridge Road or Highway 99 E or from the south across Goods Bridge on Ivy Street. This drop along the Molalla River establishes a natural boundary for the area.

At the northern border of the Urban Growth Boundary, the topography gradually changes. This area slopes to the Willamette River, dropping from an elevation of approximately 130 feet to 100 feet at the City's wastewater treatment facility. To the east of Canby, the topography changes very little until beyond the urban growth boundary, where the ground has undulating gentle hills in the southeastern areas and steep rocky cliffs in the northeastern areas along the Willamette River.

The City of Canby lies in the heart of very productive agricultural lands, and has used drywells to manage of storm water runoff generated from agriculture and development. When dry wells are ineffective, storm water is permitted to drain to surface water drainage ways or is collected and conveyed to the adjacent Molalla and Willamette Rivers.

Major Rivers

Willamette River

The Willamette River is the major waterway in the Willamette Valley draining a total of 11,500 square miles. The Willamette provides significant recreational opportunities, serves as a major transportation link, provides water for agricultural, municipal and industrial uses and provides habitat for significant wildlife populations. The Canby Ferry provides transportation across the Willamette, and is one of three ferries still in operation on the Willamette River.

Molalla River

The floodplains of the Molalla River provide an important habitat for waterfowl, wading birds, deer, small mammals, reptiles and amphibians. Today, logging and recreational uses are the primary activities in the upper reaches of the Molalla River. All of Canby's drinking water originally comes from the Molalla River. The Molalla River watershed area is 344 square miles and is located within Clackamas County, Oregon. Its headwaters start southwest of Mt. Hood and its North Fork tributary begins 0.6 miles southeast of Cougar Lake.

Climate

The climate in the Canby area is temperate. Summers are warm with daily temperatures averaging from 70°F to 75°F with occasional hot days where the temperature exceeds 100°F. Winters are cool with average daily temperatures of about 40°F. Freezing temperatures occur periodically throughout the winter with lows in the teens.

Due to the temperate climate, snowfall is rare, but can occur annually. Accumulations of from 1 to 4 inches of snow have been recorded during December and January. Unofficially, accumulations of as much as 12 inches of snow have been reported in the Canby area for short periods.

Normal rainfall, as recorded at the North Willamette Experimental Station for the period from 1961 through 1990, averages 41 inches per year. The driest months of the year are July and August with normal precipitation of less than 1 inch per month. During these two months, several weeks may pass without precipitation. The balance of the year, frequent rain showers occur with the wettest months being November, December, and January. During these months rainfall normally exceeds 6 inches per month.

Minerals and Soils

The United States Department of Agriculture Soil Conservation Service (SCS) information was used in identifying soil types in Canby. The classifications of each soil type, indicates the effects the soil features will have on the infiltration and drainage of storm water in the Canby area.

The predominate soils are Canderly Sandy Loam consist of deep, somewhat excessively drained soils on terraces to a depth of 60 inches or more. These soils have moderately rapid permeability of from 2.0 to 6.0 inches per hour and have an available water capacity of about 5.5 to 7.0 inches. Runoff from this series is slow and the hazard of water erosion is slight.

Latourell Loam Series are also present here and are deep, well drained soils and have a moderate permeability similar to that of the Canderly soils. Latourell soils have a greater water availability than that of the Canderly series with a range of about 8 to 12 inches. Runoff from this

series is also slow and the hazard of water erosion is again slight. Depth to ground water is generally greater than 60 inches.

Only two small inclusions of Amity Silt Loam are present in the Canby area. These are somewhat poorly drained soils, having a moderately slow permeability of from 0.6 to 2.0 inches per hour in the upper layer declining to from 0.2 to 0.6 inches per hour in the lower. This soil can extend to a depth of 60 inches or more. The Depth to Water Table is from 6 to 18 inches in the winter and spring.

The McBee Silt Clay Loam is only present in one isolated location Northeast of Canby. This is a deep moderately well drained soil having a moderate permeability of from 0.6 to 2.0 inches per hour. Runoff is slow and the hazard from erosion is slight. However, the water table is generally at a depth of from 24 to 36 inches in the winter and early spring, and the soils are located in areas subject to occasional but brief periods of flooding in the winter.

Other Significant Geologic Features

Continued erosion by Willamette Valley river systems, as well as earth-shaping earthquakes and weathering of the area through geologic time has carved the Willamette Valley into the shape it is today. In the Canby area, this has resulted in a terrace overlooking the Willamette and Molalla Rivers. The significant geologic features in the Canby areas are described in the Clackamas County Natural Hazard Mitigation Plan.

Population and Demographics

As shown in Table 2-1, Canby's population grew at a rapid pace between 1970 and 1980, far more rapidly than either the Portland metropolitan area, or the State of Oregon overall. Canby's rapid population growth slowed significantly between 1980 and 1990 (to approximately the same rate metropolitan Portland was experiencing). Canby's growth is now increasing much like it did in the 1970's, with growth rates outpacing the Portland metropolitan area. Canby's population growth continues to be significantly higher than the State of Oregon.

Table 2-2 shows that Canby's population continued to grow rapidly in the 1990's. According to the U.S. Census, Canby's population was 12,790 in 2000. This reflects a 42.4 percent increase in Canby's population between 1990 and 2000. This compares to a 12.7 percent increase for the State of Oregon during the same time.

Table 2-1. Population of Canby, Portland, and Oregon 1970-1999

Year	Canby	Percent Change	Portland Metro	Percent Change	Oregon	Percent Change
1970	3,818		824,926		2,091,533	

1980	7,659	101%	1,242,645	51%	2,633,105	26%
1990	8,983	17%	1,477,895	19%	2,842,321	8%
2000	12,790	42%	1,874,449	27%	3,421,399	20%

Source: Oregon Office of Economic Analysis (www.oes.das.state.or.us/econ.htm)¹; PSU Center for Population Research and Census U.S. Bureau of Census ²

Table 2-2. Canby and Oregon Population Estimates

Year	Canby	Percent Change	Oregon	Percent Change
1990	8,983		2,842,321	
1991	9,370	4.3%	2,930,000	3.1%
1992	9,565	2.1%	2,970,000	1.7%
1993	9,815	2.6%	3,038,000	2.0%
1994	10,405	6.0%	3,082,000	1.4%
1995	10,855	4.3%	3,132,000	1.6%
1996	11,430	5.3%	3,181,000	1.6%
1997	11,725	2.6%	3,217,000	1.1%
1998	12,465	6.3%	3,267,550	1.6%
1999	12,595	1.0%	3,300,800	1.0%
2000	12,790	1.5%	3,421,399	3.7%
1990-2000 Total Population Growth	3,807	42.4%	579,078	20.4%
1990-2000 Average Annual Growth Rate (AAGR)	3.6%		1.95	

Source: Oregon Office of Economic Analysis (www.oes.das.state.or.us/econ.htm)³

Oregon Economic Development Department forecasts that Canby's population will grow at an average rate of 2.8 percent until 2001 in the one-mile radius around the center of town, at 99E and Ivy (an area slightly smaller than current city limits). Within the five to ten mile radius of the town's center, the average annual growth rate until 2001 is projected to be slightly lower, at 2.6 percent. Note that the 2001 population projection is smaller than the 2000 Census count (Table 2-3). The projections shown in Table 2-3 were completed in 1997 and underestimated population growth in Canby.

Table 2-3. Canby Population Estimates and Projections: One, Five, and Ten Mile Radius

Year	1 Mile Radius	5 Mile Radius	10 Mile Radius
1990	8,264	22,968	130,292
1996	9,938	27,205	152,530
2001	11,198	30,300	168,598
AAGR*	2.8%	2.06%	2.4%

Source: Oregon Economic Development and Equifax National Decision Systems
Average Annual Growth Rate⁴

The 2000 Census population for Canby and the City's coordinated population forecast (Table 2-4). Projections show that Canby is expected to grow significantly in the next 20 years, reaching 21,000 by 2020. This is a 64 percent increase from the 2000 population of 12,790, and represents a five percent average annual growth rate between 2000 and 2020.

Table 2-4. Canby 5, 10, and 15 year Population Forecast

Year	Population
2000	12,790
2020	21,000
Change	8,210
Percent Change	64.2%
AAGR	5.1%

Source: PSU Center for Population Research and Census Canby Land Needs Study
(OTAK 1999)⁵

Land and Development

The City of Canby Planning and Building Department enforce building and zoning codes to promote public safety and preserve the quality of life in Canby. Canby is predominately residential, with a variety of other land uses interspersed. Map #2 shows the land use zones for the City.

According to the Canby School District Enrollment Projection Update, Canby will be indirectly affected by decisions made by Metro, the planning authority for the Portland metropolitan region. One of the biggest issues Metro is facing, as part of the planning process for creating its comprehensive plan (the 2040 Plan), is the placement of its Urban Growth Boundary (UGB). Metro is leaning toward zero or minimal expansion of the UGB, in order to encourage greater housing density and preserve existing farmland and open space.

While Canby lies outside of Metro's UGB and is beyond its jurisdiction, the City will nonetheless be affected by Metro's boundary decisions. If little or no adjustment is made to the Portland Metropolitan UGB, land values within the boundary are likely to appreciate more rapidly over time. Canby, with its available land and proximity to the Portland metropolitan area may over time, become even more attractive to developers and prospective homeowners.

Canby has developed a comprehensive plan for its industrial growth. The Canby Industrial Park has been developed with water, electricity, natural gas, sewer, communications and road access. Within the city limits, 154 acres have been designated for light industrial use and 25 acres for heavy industrial use. Within Canby's urban growth boundary, another 240 acres is designated for light industry and 70 acres for

heavy industry. Total figures are 394 acres for light industrial use and 94 for heavy industrial.

Housing and Community Development

Housing ownership patterns in Canby have been changing for the last 15 years. Although single-family housing has dominated housing statistics historically, records show variability in the percentage of permits issued for single-family dwellings with large numbers of permits issued for multiple-family housing in 1989, 1993, and 1997.

Canby experienced an increase in renter-occupied housing between 1990 and 2000. In 1990, nearly 65 percent of households were owner-occupied and 35 percent were renter-occupied; 2000 estimates show a slight decrease of owner-occupied households to about 64 percent. This trend is a result of a number of factors, including the increase in multiple family housing construction in Canby.

Canby's landscape and population is changing rapidly, and its park and recreation system has been attempting to respond to these changes. Canby is quickly leaving its agricultural roots behind and becoming more similar to its metropolitan neighbors to the north in its affluence, ethnic diversity and rate of growth. Some of the major socioeconomic and land use trends affecting the future provision of park and recreation services in Canby are as follows:

- Canby is experiencing population growth at a significantly higher rate than the statewide average. By the year 2020, the City's coordinated population projection indicates Canby will have 21,000 residents, resulting in a 64 percent increase from 2000. This influx of residents will increasingly strain Canby's ability to provide quality parks and recreation facilities.
- Single and multi-family housing is being developed at a rapid pace, especially on the fringes of the urbanized area. Portland's land use policies could increase the demand for additional housing in and around Canby in the future as people seek homes in less dense urban areas.
- The residents least served by park and recreation facilities live in Canby's far northwest, northeast, and south neighborhoods.
- Canby's population is aging, following statewide and nationwide trends. Many sections of Canby's population area are growing, especially those in the 5 to 17, 45 to 54, and 55 to 64 year old age brackets. People between 45 and 64 years old continue to be one of the fastest growing segments of the population. Because there is a correlation between age and mobility limitations, meeting the needs of mobility-limited residents, as they age, will become increasingly important.
- The number of children in Canby is also increasing as the population increases. Birth rates are rising and families are

moving to Canby with young children. There will be an increase in elementary and high school enrollment levels in the near future, which will increase the need for park and recreation facilities and programs for youths.

- Canby is growing more ethnically diverse. The Hispanic population is the largest and fastest growing minority population in Canby. Hispanic children comprise 9.5 percent of Canby School District's enrollment. Because of this growth, understanding and meeting the park and recreation needs of minority residents is becoming increasingly urgent.

Employment and Industry

Canby is an excellent area for local and commercial businesses. The City of Canby is relatively self-sufficient regarding public utilities. Canby Telephone Association provides technologically advanced telecommunications services. Canby operates its own electric and water service (uncommon in Oregon), enabling lower utility rates as compared to other Oregon cities. The business district includes a thriving downtown core as well as flourishing businesses along Highway 99E. A broad spectrum of products, services and specialty stores meet the shopping and business needs within the community.

The Canby area has a multitude of attractions tied to the bountiful nursery industry, which attract thousands of visitors annually. Many festivals and special events are organized by these enterprises. In Clackamas County, 75 percent of the nursery acreage is in the vicinity of Canby.

Transportation and Commuting Patterns

The Union Pacific rail line, which divides Canby by separating the North side from the South, passes through Canby twenty four times a day. In addition, more than eight different commercial truck lines serve the motor freight needs of business and industry in Canby. Intrastate freight rates for truckers are regulated by the Oregon Public Utility Commission, which considers Canby as inside Portland's local cartage zone. This results in lower rates for shipments to and from Portland.

The Portland International Airport meets the national and international transportation needs of Canby area residents and businesses, and is about 45 minutes from Canby. Aurora State Airport is located 5 miles west of Canby. The Mulino Airport lies approximately 8 miles southeast of Canby.

Canby Area Transit (CAT) is a local transit service allowing the community to utilize a shuttle service to scheduled route locations from Canby. This transit service also provides frequent shuttle service to area businesses and neighborhoods.

The Canby Ferry, one of three ferries still in operation on the Willamette River, can transport nine vehicles per trip across the Willamette River to Wilsonville. This Ferry is a unique tourist attraction in Canby.

The City of Canby is accessible from the Interstate 5 corridor and Interstate 205 via State Highway 99E. The transportation system provides direct connections to the surrounding communities of Oregon City, Woodburn and Salem as well as the greater Portland metropolitan area. Commuter traffic volumes are very high: 1999 Average Daily Traffic (ADT) figures indicate 18,400 vehicles on Highway 99E at the eastern Canby city limits and 25,700 vehicles on Highway 99E at western City limits at the Molalla River.

Section 3:

Hazard Assessment

Definition of a Hazard Assessment

Conducting a hazard assessment can provide information on the location of hazards, the value of existing land and property in hazard locations, and an analysis of risk to life, property, and the environment that may result from natural hazard events. Hazard assessments are subject to the availability of hazard-specific data. The three levels of a hazard assessment are as follows:

- 1) ***Hazard Identification*** identifies the geographic extent and intensity of the hazard, and the probability of its occurrence. Maps are frequently used to display hazard identification data. City of Canby identified six major hazards that consistently affect this geographic area. These hazards – floods, landslides, wildfires, earthquakes, severe storms: wind and winter, and volcanoes – were identified through an extensive process that utilized input from the EMC. The geographic extent of each of the hazards has been identified by the City of Canby EMC using the best available data and local knowledge, and is illustrated in Figure 3-1.
- 2) ***Vulnerability Assessment/Inventorying Assets*** combines hazard identification with an inventory of the existing (or planned) property and population exposed to a hazard. A complete listing of the community assets exposed to each hazard is located in Table 3-2. Additionally, a more detailed description of the vulnerability of these assets is located in the specific hazard sections.
- 3) ***Risk Analysis/Estimating Potential Losses*** involves estimating the damage, injuries, and financial losses likely to be sustained in a geographic area over a given period of time. This level of analysis involves using mathematical models. The two measurable components of risk analysis are magnitude of the harm that may result and the likelihood of the harm occurring. Describing vulnerability in terms of dollar losses provides the community and the state with a common framework in which to measure the effects of hazards on assets. Unfortunately, there is insufficient data for conducting a risk analysis for the natural hazards affecting Incorporated Municipality. However, this need is identified in the action plan, and a complete risk assessment will be conducted when the resources are available.

Federal Requirements for a Hazard Assessment

Recent federal regulations for hazard mitigation plans outlined in 44 CFR Part 201.6 (c) (2) includes a requirement for hazard assessment.

This hazard assessment requirement is intended to provide information that will help communities to identify and prioritize mitigation activities that will reduce losses from the identified hazards. The federal criterion for hazard assessments and information on how the City of Canby Natural Hazard Mitigation Plan meets those criteria is outlined in Table 3-2 below.

Table 3-1. Federal Criteria for Hazard Assessment

Section 322 Requirement	How is this addressed?
Identifying Hazards	The City of Canby has submitted a map (Figure 3-1), which is the result of the tabletop exercise conducted by the Canby EMC.
Profiling Hazard Events	The hazard sections of the Clackamas County Natural Hazard Mitigation Plan provide documentation for all of the large-scale hazard events affecting the region. Where data is available, City of Canby has provided local impacts from historical hazard events.
Assessing Vulnerability: Identifying Assets	Table 3-2 documents the community assets that are vulnerable to natural hazards. A more detailed description of the vulnerability of these assets is located in the specific hazard sections.
Assessing Vulnerability: Estimating Potential Losses	Using the best available data, an estimate of potential losses from natural hazards is located in the hazard specific sections.
Assessing Vulnerability: Analyzing Development Trends	The Community Profile section of this plan provides a description of the development trends in City of Canby.

Hazard Assessment Mapping Methodology

The City of Canby EMC identified the hazards to be included in this plan through a series of round table discussions. In order to further identify particular areas prone to each of the six hazards addressed in this plan, the EMC conducted a table top mapping exercise, capitalizing on local knowledge and experience from the committee members.

Due to lack of resources and data, the City of Canby could not develop any digital maps at this time, and acknowledges Figure 3-1 as the best representation for the local hazards. This map has been included in this document, and is the basis for the vulnerability assessment. The following color scheme was used to illustrate the various hazards zones and community assets:

Hazards: Colored Pencil

- Flood: Dark Blue
- Wind/Winter Storm: Light Blue
- Landslide: Brown
- Earthquake: Red
- Wildfire: Orange
- Volcano: No local exposure.

Community Assets: Marker

- Critical Facilities and Infrastructure: Red
- Essential Facilities and Infrastructure: Purple
- Vulnerable Populations: Pink
- Cultural/Historical Assets: Light Blue
- Economic Assets/Population Centers: Yellow

- Environmental Assets: Light Purple
- Hazardous Materials: Orange

Community Assets: Vulnerability Assessment

This section outlines the resources, facilities and infrastructure that, if damaged, could significantly impact public safety, economic conditions, and environmental integrity of City of Canby. The exposure of community assets to natural hazards is provided in Table 3-3, City of Canby Vulnerability Assessment. The community assets were defined as follows:

Critical Facilities: Those facilities and infrastructure necessary for emergency response efforts.

- Fire Station 62 (EOC #1)
- City of Canby Public Works Building (EOC#2)
- Fire Station 65 (EOC #3)
- Telephone Central Station
- Water Treatment Facilities (including reservoirs, intake structures and raw water pump houses)
- City Hall Complex
- Canby Area Transportation and City of Canby Finance Building
- 3 Power Substations
- Canby Utility
- Waste Water Treatment Facilities

Essential Facilities: Those facilities and infrastructure that supplement response efforts.

- Canby High School-Red Cross Shelter
- Trost Middle School-Red Cross Shelter
- Canby Christian-Red Cross Shelter
- Adult Center-Red Cross Shelter
- United Methodist Church-Red Cross Shelter
- Medical Clinics
- Clackamas County Fairgrounds
- First Student Transportation

Critical Infrastructure: Infrastructure that provides services for City of Canby.

- Telephone Lines
- Gas Lines
- Power Lines
- Transportation Networks
- Bridges
- Railroads
- Water Treatment, Storage and Distribution Lines
- Wastewater Collection
- NW Natural Pipeline Data
- Pacific Pride Storage Tanks
- Communication Towers

Vulnerable Populations: Locations serving populations that have special needs or require special consideration.

- Mobile Home Parks
- Riverside Recreational Vehicles
- Canby Senior Center
- Hope Village
- Rackleff House
- Adult Foster Homes
- Countryside Living
- Canby Area Schools

Cultural or Historical Assets: These assets include those facilities that augment or help define community character, and if lost would represent a significant loss for the community.

- Three Rivers Farm
- Macksburg Church
- Fine Arts Center
- Canby Depot Museum
- Barlow House
- Canby Chapel
- Riverside School
- Canby Ferry
- Clackamas County Fairgrounds

Economic Assets/Population Centers: ***Economic Centers*** are those businesses that employ large numbers of people, and provide an economic resource to City of Canby. If damaged, the loss of these economic centers could significantly affect economic stability and prosperity. ***Population Centers*** usually are aligned with economic centers, and will be of particular concern for evacuation/notification during a hazard event.

- Johnson Controls
- Shimadzu
- JV North West
- Fred Meyer
- Safeway
- Thriftway
- SR Smith
- Sprague Controls
- Potter Industries
- Willamette Plastics
- Wilson Construction (transient)
- Post Office
- All multi-family dwelling structures
- Canby Grove
- Redwood Terrace Apartments
- Pat's Acres Race Track
- Pioneer Industrial Park

- First Student Transportation
- Churches
- Canby School District

Environmental Assets: Environmental assets are those parks, green spaces, wetlands, and rivers that provide an aesthetic and functional service for the community.

- Wait Park
- Canby Community Park
- Bottom Lands
- Willow Creek
- Molalla River State Park
- Eco Park

Hazardous Materials: Those sites that store, manufacture, or use potentially hazardous materials.

- BBC Steel
- Wilco
- JB North West
- Beco Welding
- Rail Road
- Johnson Controls Inc.
- SR Smith
- Pacific Pride Fuel Storage Tanks
- Wastewater Treatment Facility
- Water Treatment Facility
- Oregon Bag

Table 3-3. City of Canby Vulnerability Assessment

Hazard	% Land Area	Val. Pop	Critical Facilities	Essential Facilities	Critical Infra	Econ. & Pop Centers	Cultural/Historical Assets	Environ. Assets	Haz. Mat. Sites
Flood	<5%	<1%	<ul style="list-style-type: none"> •Public Works •Raw Water Pump Houses 	<1%	<ul style="list-style-type: none"> •Water Intake Structure and Lines •Bridges (particularly Knight's Bridge and Goods Bridge) •Culverts •Vale Garden Road •Anderson Road •HWY 170 & HWY 99 E 	<ul style="list-style-type: none"> •Willow Creek •Canby Grove •Redwood Terrace Apartments •Pat's Race Track 	<1%	<ul style="list-style-type: none"> •Canby Community Park •Willow Creek •Molalla River State Park •Bottom Lands . Wetlands 	<ul style="list-style-type: none"> •Waste Water Treatment Facility •Rail Road
Landslide	<1%	<1%	<1%	<1%	<ul style="list-style-type: none"> •Main Water Lines on Bluff Area •Electric Power Lines 	<ul style="list-style-type: none"> •Hot Off the Press •Few Residential Properties •Wilson Const. 	<1%	<ul style="list-style-type: none"> •Molalla River State Park •New park •Molalla Forest Park 	100%
Earthquake	100%	100%	100%	100%	100%	100%	<1%	<1%	<1%
Windstorm	<5%	<ul style="list-style-type: none"> •Mobile Home Parks 	<ul style="list-style-type: none"> •Public Works •Sewerage Treatment Facility •3 Power Substations 	100%	<ul style="list-style-type: none"> •Electric Power Lines •Telephone Lines 	<ul style="list-style-type: none"> •99E from South Elm to South Ivy Lane 	<1%	<1%	<1%
Severe Winter Storm	<5%	<1%	<ul style="list-style-type: none"> •Public Works •Sewer Treatment Facility 	100%	<ul style="list-style-type: none"> •Telephone Lines •Electric Power Lines •Water Lines 	<ul style="list-style-type: none"> •99E from South Elm to South Ivy Lane 	<1%	<1%	<1%
Wildfire	<5%	<1%	<ul style="list-style-type: none"> •Public Works •Water Intake Structure •Sewerage Treatment Facility 	<1%	<1%	<1%	<1%	<ul style="list-style-type: none"> •Canby Community Park 	<1%
Volcano (Up to 100% Depending on climatic conditions)	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%

Section 4: Natural Hazards

Flooding

The City of Canby has several large rivers and smaller tributaries that are susceptible to annual flooding events. However, the City of Canby's flooding hazards are less of a concern than many of the other hazards represented in this mitigation plan. In fact, according to Oregon Emergency Management, the City has no repetitive loss properties on file at this time.

Flooding Profile

The probability of flooding events in Canby was determined using scientific data, historical occurrences, and local knowledge. The probability of flooding in Canby is described in Chapter Five.

The historical large-scale flooding events have been described in Section 6 of the County Plan, and are applicable to City of Canby. As such, the events will not be repeated here.

Flooding Hazard Assessment

Hazard Identification

Although the FEMA Flood Insurance Rate Maps (FIRMs) illustrating the 100-year floodplain were not digitally available for the hazard assessment, the Canby Emergency Management Committee (EMC) used the 1996 flood inundation line in the tabletop mapping exercise, which is indicative of the 100-year flooding area for the hazard analysis. Using this inundation line in combination with local knowledge, the map shows approximately five percent or less of the total land area in Canby as being exposed to the flood hazard. Canby has indicated the need for digital floodplain maps in the action plan, which would improve the flooding hazard assessment.

Vulnerability Assessment

The Canby EMC has completed a vulnerability assessment using the table top mapping methodology described in Section 3. For a complete listing of the community assets exposed to the flooding hazard, please refer to table 3-3; for an illustration of the flooding hazard, please refer to figure 3-1.

Approximately five percent of the total land area in Canby is exposed to the flooding hazard, and in some areas, this hazard presents some potential life safety hazards. The multi-family housing structures that may have flooding issues are the Redwood Terrace Apartment Complex,

and Canby Grove. The water treatment facility main river intake structure, the sewerage treatment facility, and the City's public works facility are critical facilities that have had flooding problems, both in regard to infrastructure exposed and interruption of service. Bridges and culverts are also vulnerable to flooding because debris and sediment can choke culverts and undermine bridges, causing surface water drainage problems. Canby relies on bridges for transportation and connection to other main Highways. Canby could potentially be isolated if the bridges were to fail.

Potential flooding events may affect less than one percent of the identified essential facilities, less than one percent of cultural or historical assets, and less than five percent of large economic centers. Environmental assets vulnerable to floods include the bottomlands, Canby Community Park, and Willow Creek. These environmental assets could become choked with debris and sediment deposited during and after flooding events, or they could be adversely effected by hazardous material leaks from the Water and Wastewater treatment facilities or the materials being transported by the railroad.

Risk Analysis

Due to insufficient data, Canby is unable to perform a quantitative risk assessment at this time. The City has addressed this issue in the action items, and will be completing a risk assessment as data and resources become available.

Repetitive Flood Loss

City of Canby works to mitigate problems regarding flood issues when they arise. Throughout history, some areas in the city are more susceptible to flooding issues and have incurred repetitive losses, meaning that they have had greater than two NFIP claims in the past ten years. According the most current data from Oregon Emergency Management, there are no properties in Canby that meet the criteria for repetitive loss at this time.

Existing Flood Mitigation Activities

Incorporated Municipality Codes Pertaining to Flooding

Policy No. 2-H: Canby shall continue to participate in and shall actively support the Federal Flood Insurance Program.

Implementation Measures:

- A) Continue to enforce the provisions of the "H" overlay zone which restricts development in areas of the identified flood hazards.
- B) In reviewing development proposals, prevent the creation of additional building sites in hazardous locations, encourage the clustering of development in the most appropriate locations, and require proof from a registered surveyor or engineer that proposed buildings will have habitable floor elevations at least one foot above the flood levels identified in the engineer's mapping.

Flood Mitigation Projects

Emerald Park is an area designated as open space along the Willamette River. The development of this park has enhanced the wetlands in the area, which will assist in flood water retention. Willow Creek wetlands also assist in reducing flood waters by increasing the infiltration capacity of the soils in this area.

Flood Mitigation Action Items

The flood mitigation action items provide direction on specific activities that organizations and residents in Canby can undertake to reduce risk and prevent loss from flood events. Each action item is followed by ideas for implementation, which can be used by the steering committee and local decision makers in pursuing strategies for implementation.

ST-FL#1: Evaluate & upgrade surface water management infrastructure and identify appropriate mitigation strategies.

Ideas for Implementation

- Develop storm water grate management system to keep grates open and clear of debris.

Coordinating Organization: Public Works

Timeline: Ongoing

Plan Goals Addressed: Protect Life and Property, Emergency Services, Natural Systems, Partnerships and Implementation

County Action Items

Addressed: ST-MH #2; LT-FL #3

LT-FL#1: Identify mitigation strategies to address flooding issues in bottom lands.

Ideas for Implementation:

- Protect source water intake structures (2 pumping stations: Springs Gallery, River Caisson Building).

Coordinating Organization: Canby Utility

Timeline: 3-5 Years

Plan Goals Addressed: Protect Life and Property, Emergency Services, Natural Systems, Partnerships and Implementation

County Action Items

Addressed: ST-MH#5; ST-WS#1, LT-WS#2

LT-FL#2: Conduct study to identify strategies to reduce stream bank erosion along Molalla River for protecting critical infrastructure and residential properties.

Coordinating Organization: Canby Utility and Public Works

Timeline: 3-5 Years

Plan Goals Addressed: Protect Life and Property, Emergency Services,
Natural Systems, Partnerships and
Implementation

County Action Items

Addressed: ST-MH#5; ST-WS#1, LT-WS#2

LT-FL#3: Identify strategies to vulnerability of repetitive flood loss properties, including areas that are outside City limits such as Canby Grove, Alder Creek, Vale Garden Road, and Anderson Road.

Coordinating Organization: Emergency Management Committee

Timeline: 3-5 Years

Plan Goals Addressed: Protect Life and Property, Emergency Services,
Natural Systems, Partnerships and
Implementation

County Action Items

Addressed: ST-MH#5; ST-WS#1, LT-WS#2

Landslide

Landslide Profile

The probability of landslide events in Canby was determined using scientific data, historical occurrences, and local knowledge. The probability of landslides in Canby is described in Chapter Five.

The historical large-scale landslide events have been described in Section 6 of the County Plan, and are applicable to City of Canby. As such, the events will not be repeated here.

Landslide Hazard Assessment

Hazard Identification

Canby does not have many steep or unstable slopes that constitute a major landslide hazard. There is no digital data that identifies potential landslide areas in the Canby area at this time. However, the Canby Emergency Management Committee used local knowledge to determine the location of historically active and potentially unstable slopes, and has identified less than one percent of the land area in Canby as subject to landslides.

Vulnerability Assessment

Although less than one percent of the land area is subject to landslides, there are a few steep slopes that have the potential of failure. The area along the Molalla River between Knights Bridge Road and 99E is susceptible to the landslide hazard. Canby Utility's main river intake, Springs Gallery and pump houses located in this potentially unstable area are critical facilities that could impede emergency response efforts. Additionally, Hot Off The Press (an economic center), and a few residential properties are in this hazard zone.

Risk Analysis

Due to insufficient data, Canby is unable to perform a quantitative risk assessment at this time. The City has addressed this issue in the action items, and will be completing a risk assessment as data and resources become available.

Existing Landslide Mitigation Activities

Landslide mitigation activities listed here include current mitigation programs and activities that are being implemented by Canby agencies or organizations.

Incorporated Municipality Codes Pertaining to Landslides

Policy No. 1-H: Canby shall restrict urbanization in areas of identified steep slopes.

Implementation Measures:

- A) Continue to regulate property divisions to prevent the creation of lots in areas which are inaccessible or unbuildable because of steep slopes.
- B) The Planning Commission may require a certified statement from a registered engineer or engineering geologist prior to construction in areas of steep slopes identified by "H" overlay zoning.

Landslide Mitigation Projects

The City of Canby has identified steep slopes that may be susceptible to the landslide hazard, but no mitigation projects have been completed at this time.

Landslide Mitigation Action Items

The landslide mitigation action items provide direction on specific activities that organizations and residents in Canby can undertake to reduce risk and prevent loss from landslide events. Each action item is followed by ideas for implementation, which can be used by the steering committee and local decision makers in pursuing strategies for implementation.

LT-LS #1: Reduce the vulnerability of property owners in landslide-prone areas.

Ideas for Implementation:

- Conduct a study to identify appropriate mitigation strategies for problem areas including buildings and infrastructure in the bluff area; and
- Develop public information to emphasize economic risk when building on potential or historical landslide areas.

Coordinating Organization: Emergency Management Committee
Timeline: 3-5 Years

Plan Goals Addressed: Protect Life and Property, Public Awareness, Emergency Services, Natural Systems, Partnerships and Implementation

County Action Items Addressed: ST-LS#1; LT-LS#2

Wildfire

Wildfire Profile

The probability of wildfire events in Canby was determined using scientific data, historical occurrences, and local knowledge. The probability of wildfire in Canby is described in Chapter Five.

The historical large-scale wildfire events have been described in Section 6 of the County Plan, and are applicable to City of Canby. As such, the events will not be repeated here.

Wildfire Hazard Assessment

Hazard Identification

There is no wildland/urban interface mapping data available for Canby at this time. However, complete coverage of the wildland/urban interface for the Canby area will be available in the summer of 2003. This data will be incorporated into the Canby plan when available. For the purposes of this plan, the Canby Emergency Management Committee used local knowledge to identify areas that interface with vegetation that is prone to wildfire. The potential wildfire areas are shown in orange.

Vulnerability Assessment

The wildfire hazard is located in the northeast and southwest portions of Canby. To the northeast, the sewerage treatment facility and public works are located near the interface. In the southwest corner, the water treatment facility is also near the interface. One particular area just west of Ivy St. has a high concentration of trees and scrubby vegetation, but there is little exposure to development here.

Risk Analysis

Due to insufficient data, Canby is unable to perform a quantitative risk assessment at this time. The City has addressed this issue in the action items, and will be completing a risk assessment as data and resources become available.

Existing Wildfire Mitigation Activities

The Canby Fire District covers 52 square miles with a population of 32,000. The district is comprised of a suburban mix of residential properties, light industry and agriculture, which includes the entire city limits of Canby. Canby Fire has made public awareness a top priority with fire prevention and education services. Annually, wildfire guides are distributed to the districts urban homeowners to educate them in pre-fire prevention activities by the Fire District personnel and CERT teams.

Incorporated Municipality Codes Pertaining to Wildfires

Canby Municipal Code No. 8.12.060 Weeds and noxious growth.

No owner or person in charge of property may permit weeds or other noxious vegetation to grow upon his property. It shall be the duty of an owner or person in charge of property to cut down or to destroy weeds or other noxious vegetation as often as needed in order to prevent the weeds or noxious vegetation from becoming unsightly or from becoming a fire hazard or from maturing or going to seed.

Local Fire Prevention/Education Programs

The Canby Fire Department offers the following fire prevention/education services for its residents.

- Home fire safety inspections
- Assistance developing home fire escape plans
- Business inspections
- Woodstove installation inspections
- Free smoke detectors
- Fire extinguisher operation classes
- Community Emergency Response Team training
- School, church, and civic groups fire safety education presentations
- Fire cause determinations
- Urban interface training on defensible space
- Proper rural addressing of residences

Wildfire Mitigation Action Items

The wildfire mitigation action items provide direction on specific activities that organizations and residents in Canby can undertake to reduce risk and prevent loss from wildfire events. Each action item is followed by ideas for implementation, which can be used by the steering committee and local decision makers in pursuing strategies for implementation.

LT WF#1: Inventory and map alternative firefighting water sources and encourage the development of additional sources.

Ideas for Implementation:

- Identify Locations for installation of dry hydrant systems;
- Identify irrigation ditches, streams and rivers where access may be provided for fire dept. draft sites;
- Provide funding for development of draft sites for individual property owners;
- Identify areas where a cooperative emergency water supply for fire fighting can be stored, min. 2,500 gallons (above or below ground level);
- Educate property owners in WF area of the need for alternate power for existing wells in case of power failure; and
- Develop universal signage for the location of adequate water supply for fire district.

Coordinating Organization: Canby Fire

Timeline: 3-5 Years

Plan Goals Addressed: Protect Life and Property, Public Awareness,

County Action Items

Addressed: ST-WF#3

Severe Storms: Wind and Winter

Severe Storm Profile

The probability of severe storm events in Canby was determined using scientific data, historical occurrences, and local knowledge. The probability of severe storm in Canby is described in Chapter Five.

The historical large-scale severe storm events have been described in Section 6 of the County Plan, and are applicable to City of Canby. As such, the events will not be repeated here.

Severe Storm Hazard Assessment:

Hazard Identification

The severe wind and winter storm hazard was identified by locating areas where trees and vegetation align with utility and power lines, shown in blue and purple. This method was used because the majority of the severe storm events in Canby result in power outages due to damaged power distribution and/or transmission lines from vegetation failure or weight of ice and snow. Although the area susceptible to the severe storm hazard in Canby is relatively low (less than five percent of the land area), the cumulative effects from these storms can impact the entire city.

Vulnerability Assessment

Severe storms can be life threatening, cause major infrastructure damage, and can be difficult to manage in terms of response and recovery. Winter storms can cover the road networks with snow and ice, impeding transportation to schools and medical facilities. Winter storms and windstorms can topple trees, down power lines, and cause widespread power outages. Canby public works, water treatment facilities, sewerage treatment facilities and Fire Station #62 (EOC) are critical facilities that are located adjacent to vulnerable vegetation and power lines. Canby Utility, Public Works, and Canby Telephone would be strained during a severe storm event as they work to clear roads and repair or replace power distribution and/or transmission lines, and maintain telephone lines for communication. Additionally, the area along 99E from South Elm to South Ivy St. is particularly vulnerable to damaged power lines from vegetation failure.

Risk Analysis

Due to insufficient data, Canby is unable to perform a quantitative risk assessment at this time. The City has addressed this issue in the action items, and will be completing a risk assessment as data and resources become available.

Existing Severe Storm Mitigation Activities

Canby Utility works to identify areas for tree trimming that can cause power line outages, and put life and property at risk.

Severe Storm Mitigation Action Items

The severe winter storm mitigation action items provide direction on specific activities that organizations and residents in Canby undertake to reduce risk and prevent loss from severe storm events. Each action item is followed by ideas for implementation, which can be used by the steering committee and local decision makers in pursuing strategies for implementation.

LT-SS #1: Attain funding to bury power lines subject to frequent failures to reduce power outages from the windstorm and severe winter storm hazard where possible.

Ideas for Implementation:

- Partner with PGE to continue hazardous tree inventory and mitigation programs; and
- Ensure that there are back up underground lines to major businesses & employers.

Coordinating Organization: Canby Utility

Timeline: 3-5 Years

Plan Goals Addressed: Protect Life and Property, Emergency Services, Natural Systems, Partnerships and Implementation

County Action Items

Addressed: ST-MH#5; ST-WS#1, LT-WS#2

Earthquake

Earthquake Profile

The probability of earthquake events in Canby was determined using scientific data, historical occurrences, and local knowledge. The probability of earthquake in Canby is described in Chapter Five.

The historical large-scale earthquake events have been described in Section 6 of the County Plan, and are applicable to City of Canby. As such, the events will not be repeated here.

Earthquake Hazard Assessment

Hazard Identification

There is very little digital data regarding the earthquake hazard for Canby because the city is outside of the METRO urban growth boundary, where many scientific studies have been concentrated. However, DOGAMI is currently completing an earthquake hazard and secondary earthquake hazards mapping project for the entire County, including Canby. Canby will be incorporating this new data when it is available.

For the purposes of locating the earthquake hazard areas in Canby, historic earthquake and geology maps developed by DOGAMI were reviewed. According to IMS-4, the soil type in Canby is primarily unconsolidated sediments, increasing the likelihood of ground shaking amplification and liquefaction.⁶ Additionally, DOGAMI Bulletin 99 study shows a fault running parallel to Molalla Forest Road (shown in red), indicating a potential seismic risk.⁷ The location of this fault line may serve to increase the effect of an earthquake in Canby.

Vulnerability Assessment

Due to the soil type, location of a local fault line, and lack of seismically retrofitted structures, the entire city of Canby is vulnerable to the earthquake hazard. Many vulnerable populations would have to be evacuated and housed following a large earthquake, including all of the mobile home parks, adult care facilities, and schools. Although the liquefaction potential of the soils in this area is relatively low⁸, the majority of the critical and essential facilities and infrastructure would be vulnerable to ground shaking and amplification. Additionally, all of the economic and high population centers would incur considerable damage from a high magnitude earthquake. The primary reason for the high level of vulnerability to this hazard is because the majority of the buildings and infrastructure were built before the new seismic codes standards were adopted. Additionally, an earthquake hazard could cause hazardous material leaks from all of the sites that store or use hazardous materials (for complete listing of identified community assets exposed to the earthquake hazard, please refer to Section 3).

Risk Analysis

The County Plan provides a quantitative analysis of nine potential earthquake scenarios for the county. This analysis includes an estimation of fatalities, direct damage losses number of buildings in complete damage state, and number of people requiring shelter. Canby does not have the resources to conduct a local risk assessment for the earthquake analysis, therefore the data reported in the county plan is the best quantitative assessment for the earthquake hazard in Canby.

Existing Earthquake Mitigation Activities

The City of Canby has adopted the Unified Building Code (UBC), which sets the minimum design and construction standards for new buildings.

The Canby School District has developed seismic preparation procedures and conducts drills in accordance with the Office of Emergency Management guidelines. These drills include familiarization with routes and methods of exiting the building and methods of duck, cover and hold during an earthquake.

Earthquake Mitigation Action Items

The earthquake mitigation action items provide direction on specific activities that organizations and residents in Canby can undertake to reduce risk and prevent loss from earthquake events. Each action item is followed by ideas for implementation, which can be used by the steering committee and local decision makers in pursuing strategies for implementation.

LT EQ#1: Conduct seismic evaluations on identified critical/essential facilities & infrastructure for implementing appropriate structural and non-structural mitigation strategies.

Ideas for Implementation:

- Attain funding to perform evaluations;
- Prioritize seismic upgrades based on criticality of need and population served; and
- Partner with agencies responsible for maintaining the bridges surrounding Canby to upgrade them to meet current seismic code.

Coordinating Organization: Emergency Management Committee

Timeline: 3-5 Years

Plan Goals Addressed: Protect Life and Property, Public Awareness, Emergency Services, Natural Systems, Partnerships and Implementation

County Action Items

Addressed: ST-MH#5; ST-MH#6; LTEQ#1

Volcanic Eruption

Volcano Profile

The probability of volcanic eruptions in Canby was determined using scientific data, historical occurrences, and local knowledge. The probability of volcanic eruptions in Canby is described in Chapter Five.

The historical large-scale volcanic eruptions have been described in Section 6 of the County Plan, and are applicable to City of Canby. As such, the events will not be repeated here.

Volcanic Eruption Hazard Assessment

The hazard assessment in the Clackamas County Natural Hazards Mitigation Plan best describes the volcano hazards for the Canby area. As such, the information will not be repeated here.

Existing Volcanic Eruption Mitigation Activities

The existing volcanic hazard mitigation activities are conducted at the County, regional, state, and federal levels and are described in the Clackamas County natural Hazards Mitigation Plan. As such, the information will not be repeated here.

Volcanic Eruption Mitigation Action Items

Canby will not be undertaking any local volcanic eruption mitigation activities, but will partner with the county in the implementation of identified mitigation strategies.

Multi-Hazard

Multi-Hazard Action Items (MH)

Multi-hazard action items are those activities that pertain to all seven hazards in the mitigation plan: flood, landslide, wildfire, severe winter storm, windstorm, earthquake, and volcanic eruption.

ST -MH#1: Increase the medical resources capable of handling with large-scale medical needs.

Ideas for Implementation:

- Develop community outreach and education programs regarding first aid and CERT teams;
- Continue to train and retrain school staff members in first aid (dept analysis to identify training needs);
- Attain funding for Emergency Medical Technician supplies;
- Coordinate with medical clinics in Canby; and
- Identify facilities that have cold storage capabilities.

Coordinating Organization: Emergency Management Committee
Timeline: Ongoing
Plan Goals Addressed: Protect Life and Property, Public Awareness, Emergency Services, Partnerships and Implementation
County Action Items Addressed: ST-MH#5; ST-MH #2

ST-MH#2: Update and revise the Canby Emergency Operations Plan.

Coordinating Organization: Canby Fire District/ City of Canby
Timeline: 1-2
Plan Goals Addressed: Protect Life and Property, Public Awareness, Emergency Services, Natural Systems, Partnerships and Implementation
County Action Items Addressed: LT MH #1; ST-MH#5; ST-MH #2

ST-MH # 3: Ensure that there are adequate shelter facilities in hazard-free zones to serve Canby residents.

Ideas for Implementation:

- Identify and contact Non-Red Cross potential shelter sites to ensure that they are prepared for disaster scenarios;
- Identify resource needs at shelter sites & attain funding to equip emergency shelter sites; and
- Contact Red Cross Shelter Sites to renew and maintain agreements annually.

Coordinating Organization: Canby Fire District
Timeline: Ongoing
Plan Goals Addressed: Protect Life and Property, Public Awareness, Emergency Services, Partnerships and Implementation
County Action Items Addressed: ST-MH#5; ST-MH #2

ST-MH#4: Improve mass transportation capacity for transporting people during disasters.

Ideas for Implementation:

- Partner with local organizations that have the capacity to transport large numbers of people such as schools, city transit, farmers, adult center, Hope Village, churches, Canby Ford, Tri-Met, and other outside sources.

Coordinating Organization: Emergency Management Committee
Timeline: 1-2
Plan Goals Addressed: Protect Life and Property, Public Awareness, Emergency Services, Partnerships and Implementation
County Action Items Addressed: ST-MH#5

ST-MH#5: Develop, enhance, and implement education programs designed to reduce the losses from natural hazards.

Ideas for Implementation:

- Gather hazard related information and public information materials, and disseminate to public through local publications;
- Identify property owners in hazard zones, and conduct a target mailing to disseminate hazard information; and
- Publicize hazard information as the seasons for the hazards approach.

Coordinating Organization: Emergency Management Committee
Timeline: Ongoing
Plan Goals Addressed: Protect Life and Property, Public Awareness, Emergency Services, Natural Systems, Partnerships and Implementation
County Action Items Addressed: LT-MH#1; LT-MH#2; ST-LS#1; LT-SWS#1; LT-WS#3; LT-EQ#2; LT-WF#3

ST-MH#6: Develop and enhance strategies for debris management for all hazards.

Ideas for Implementation:

- Develop a Debris Management Plan; and
- Partner with neighboring jurisdictions and organizations to manage debris during disasters.

Coordinating Organization: Public Works

Timeline: 1-2 Years

Plan Goals Addressed: Protect Life and Property, Emergency Services, Natural Systems, Partnerships and Implementation

County Action Items

Addressed: ST-SWS #1; ST WS #2; ST-MH#5

ST-MH #7: Improve the hazard assessment in the Canby Natural Hazard Mitigation Plan.

Ideas for Implementation:

- Attain funding to contract with the County to provide digital GIS hazard layers and a vulnerability assessment;
- Continue to update the hazard assessment as the County and/or Canby acquires better data; and
- Contract with the County or other service provider to conduct quantitative risk analysis for the natural hazard in Canby.

Coordinating Organization: Emergency Management Committee

Timeline: Ongoing

Plan Goals Addressed: Protect Life and Property, Public Awareness, Emergency Services, Natural Systems, Partnerships and Implementation

County Action Items ST-MH #2; LT-MH#3; LT-FL #1; ST-LS#1; LT-

Addressed: WF #1; LT-WS#1; ST-EQ#1

ST-MH#8: Improve network of communications during a disaster.

Ideas for Implementation:

- Recruit and provide training for Amateur Radio Operators;
- Address 800 MHz communication deficiencies;
- Update school emergency contact information for parents/children every 3 months;
- Attain funding to purchase a portable base station for the schools;
- Identify local communication resources and/or lack of resources;
- Obtain local disaster radio station to disseminate emergency info.; and
- Purchase interoperable radio communications system.

Coordinating Organization: Emergency Management Committee

Timeline: 1-2 Years

Plan Goals Addressed: Protect Life and Property, Public Awareness,

County Action Items

Addressed: ST-MH#5; ST-MH #2; LT-MH#1; ST-WF#1

ST-MH#9: Integrate the goals and action items from the Canby Natural Hazard Mitigation Plan into existing regulatory documents and programs, where appropriate.

Ideas for Implementation:

- Use the mitigation plan to help the City's Comprehensive Land Use Plan meet State Land Use Planning Goal 7, designed to protect life and property from natural disasters and hazards through planning strategies that restrict development in areas of known hazards;
- Integrate the City's mitigation plan into current capital improvement plans to ensure that development does not encroach on known hazard areas;
- Partner with other organizations and agencies with similar goals to promote building codes that are more disaster resistant at the state level; and
- Incorporate Canby Mitigation Plan into deed restrictions and CC&Rs where appropriate.

Coordinating Organization: Emergency Management Committee

Timeline: Ongoing

Plan Goals Addressed: Protect Life and Property, Public Awareness, Emergency Services, Natural Systems, Partnerships and Implementation

County Action Items

Addressed: ST-MH#1; ST-LS#2; LT-LS#2; LT-WS#4

ST-MH#10: Promote CERT team activity in the area and recruit new members for training.

Ideas for Implementation

- Provide information about the CERT program to Canby residents through local publications;
- Attain funding for resources to train and equip current and potential CERT teams; and
- Encourage Business Emergency Response Teams.

Coordinating Organization: Canby Fire District

Timeline: Ongoing

Plan Goals Addressed: Protect Life and Property, Public Awareness, Emergency Services, Natural Systems, Partnerships and Implementation

County Action Items

Addressed: ST-MH#4; LT-MH#1; LT-MH#2; ST-WF#1

LT-MH#1: Improve and attain resources and equipment essential for responding to and recovering from disasters.

Ideas for Implementation:

- Develop partnerships with local business to share resources and equipment;
- Attain funding to purchase portable generators and transfer systems for all potential shelter sites;
- Attain funding for portable lighting, a dump truck (12 yard), centrifugal water pumps & purification systems, potable water tenders, portable potable water storage (trailers), portable toilets, boats; and
- Develop a resource inventory for emergency response equipment.

Coordinating Organization: Public Works

Timeline: 3-5 Years

Plan Goals Addressed: Protect Life and Property, Emergency Services, Natural Systems, Partnerships and Implementation

County Action Items

Addressed: LT MH #1; ST-MH#5; ST-MH #2

LT-MH # 2: Increase preparedness of key businesses and economic centers to reduce losses, ensure continuity of service, and promote economic prosperity in Canby.

Ideas for Implementation:

- Work with targeted vulnerable economic centers to conduct drills and disseminate information about disaster preparation and response;
- Encourage local businesses to conduct business impact analysis for reduction of upstream and downstream losses;
- Identify strategies for informing local businesses such as chamber newsletter or lunch forums; and
- Identify insurance incentives for businesses that participate in disaster preparedness.

Coordinating Organization: Emergency Management Committee

Timeline: Ongoing

Plan Goals Addressed: Protect Life and Property, Public Awareness, Emergency Services, Partnerships and Implementation

County Action Items

Addressed: ST-MH#4; ST-MH#5

Section 5:

Mitigation Planning Priority System

Action Item Prioritization Methodology

The Canby Emergency Management Committee has prioritized the identified mitigation strategies in order to better allocate resources for plan implementation. The criteria used for prioritizing the action items are the plan goals, hazards addressed, criticality of need, population served, and likelihood of success.

Although this methodology provides a guide for the EMC in terms of implementation, the EMC has the option to implement any of the action items at any time. This option to consider all action items for implementation allows the committee to consider mitigation strategies as new situations arise, such as capitalizing on funding sources that could pertain to an action item that is not the highest priority.

Step 1: Prioritize Plan Goals

The Canby mitigation goals including Protect Life and Property, Public Awareness, Emergency Services, Natural Systems, and Partnerships and Implementation were considered during each phase of the mitigation planning process. As the mitigation action items were developed, the EMC identified which plan goals were addressed by each action item. The EMC ranked the plan goals to determine the priorities for Canby, and each goal was given a score of one point to five points, in ascending order. The points for the plan goals were then totaled for each action item. The prioritized plan goals are as follows:

- 5 Points: Protect Life and Property
- 4 Points: Emergency Services
- 3 Points: Public Awareness
- 2 Points: Partnerships and Implementation
- 1 Point: Natural Systems

Step 2: Prioritize Hazards

The natural hazards addressed by the Canby Natural Hazard Mitigation Plan were prioritized using the FEMA-accepted hazard analysis methodology for Emergency Operations Plans. This methodology considers the history of the hazard, the vulnerability to the hazard, the maximum threat of the hazard (worst case scenario), and the probability of the hazard. Each of these criteria was weighted, and the final score was used for prioritizing the hazards. The following is a full description of the methodology used:

Categories Considered:

HISTORY: The record of occurrences of previous major emergencies or disasters (weight factor = 2).

LOW	0 - 1 event per 100 years
MEDIUM	2 - 3 events per 100 years
HIGH	4 + events per 100 years

VULNERABILITY: The percentage of population and property likely to be affected (weight factor = 5).

LOW	< 1% affected
MEDIUM	1 - 10% affected
HIGH	> 10% affected

MAXIMUM THREAT: The maximum percentage of population and property that could be impacted under a worst case scenario (weight factor = 10).

LOW	< 5% affected
MEDIUM	5 - 25% affected
HIGH	> 25% affected

PROBABILITY: The likelihood of occurrence within a specified period of time (weight factor = 7).

LOW	> 1 chance per 100 years
MEDIUM	> 1 chance per 50 years
HIGH	> 1 chance per 10 years

Severity Ratings:

LOW	= 1 - 3 points
MEDIUM	= 4 - 6 points
HIGH	= 7 - 10 points

Although the methodology used allows Canby to quantify and compare natural hazards, it is flawed in that it compares hazards with high probabilities and relatively low consequences with hazards that have low probabilities and high consequences. The EMC took this into consideration during the prioritization process, and the results are shown in table 5-1. The hazards were given a score of one point to seven points, in increasing order of importance. The Multi-Hazard action items were given the highest score (7), as they address more than one hazard. The points for the hazard scores were then totaled for each action item.

Table 5-1 Natural Hazard Prioritization Score

Hazard	Total Score	Hazard Score
Multi-Hazard	-	7
Earthquake	202	6
Severe Storms, Wind and Winter	190	5
Flood	161	4
Wildfire	159	3
Landslide	146	2
Volcano	100	1

Step 3: Incorporate Criticality of Need, Large Number of Population Served, Likelihood of Success

The final score for each action items was computed by summing the plan goal score and the hazard score. The committee then considered the criticality of need, the number of population served, and the likelihood of success. The EMC was given an opportunity to add five points the action item that has a high criticality of need, four points were given to the action item that has a high probability of success, and three points were given to an action item that serves a large number of the population.

The prioritized action items are as follows:

Table 5-2. Action Item Prioritization Score

<i>Existing Resources</i>		<i>Funding Required</i>	
Short-Term Multi-Hazard #3	34	Short-Term Multi-Hazard #1	49
Short-Term Multi-Hazard #10	19	Long-Term Earthquake #1	49
Short-Term Multi-Hazard #7	15	Short-Term Multi-Hazard #8	35
Short-Term Multi-Hazard #9	15	Long-Term Multi-Hazard #1	24
Short-Term Multi-Hazard #4	13	Long-Term Wildfire #1	21
		Long-Term Severe Storm #1	20
		Short-Term Multi-Hazard #2	19
		Short-Term Flood #1	19
		Long-Term Flood #3	19
		Long-Term Landslide #1	17
		Short-Term Multi-Hazard #5	15
		Long-Term Flood #2	15
		Long-Term Multi-Hazard #2	13
		Short-Term Multi-Hazard #6	12
		Long-Term Flood #1	12

Section 6: Resource Directory

The Canby Resource Directory is a supplement to the Clackamas County Master Resource Directory. It provides contact information for local that are currently involved in hazard mitigation activities. The Emergency Management Committee may look to the organizations in the Resource Directories for partnership opportunities and technical assistance in action item implementation.

The Emergency Management Committee will continue to add contact information for organizations currently engaged in hazard mitigation activities. This section may also be used by various community members interested in hazard mitigation information and projects.

Canby Natural Hazards Mitigation Plan Endnotes

¹ Oregon Office of Economic Analysis (www.oes.das.state.or.us/econ.htm)¹.

² PSU Center for Population Research and Census U.S. Bureau of Census.

³ Oregon Office of Economic Analysis (www.oes.das.state.or.us/econ.htm).

⁴ Oregon Economic Development and Equifax National Decision Systems Average Annual Growth Rate.

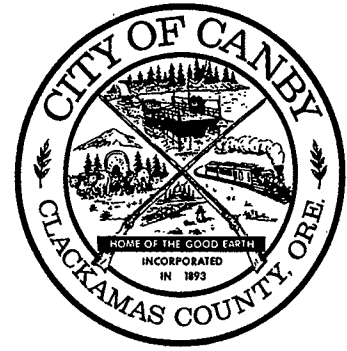
⁵ PSU Center for Population Research and Census Canby Land Needs Study (OTAK, 1999).

⁶ Madin, Ian P. and Zhenming Wang. *Relative Earthquake Hazard Maps Report*. (1999) DOGAMI.

⁷ Schlicker, Herbert G. and Christopher T. Finlayson. *Geology and Geologic Hazards of Northwestern Clackamas County, Oregon*. (1979) DOGAMI Bulletin 99.

⁸ *All Hazard Mitigation Plan Clackamas County, Oregon*. G&E Engineering Systems Report 32.07.01, Revision 0. September 23, 1998.

MEMORANDUM



TO: *Honorable Mayor Thompson and City Council*
FROM: *Matilda Deas AICP Project Planner*
DATE: *July 28, 2003*
THROUGH: *Mark C. Adcock, City Administrator*

Issue: Neighborhood Associations and Community Relations/Customer Service Goals

Synopsis: Staff, in concert with experienced Neighborhood Association Coordinators and other professionals from successful Neighborhood Association programs in Oregon City and Gresham, proposes a series of panel discussions and workshops with existing and newly forming neighborhood association representatives, City Councilors, Planning Commissioners and City Department Heads to address Canby City Council Goals 8 and 9, community relations and customer service, respectively.

Recommendation: Staff recommends that the City Council approve the proposed action steps and timeline outlined in attachment A, and direct Staff to proceed.

Rationale: Goal #1 of Oregon's Statewide Planning Goals is Citizen Involvement. The goal directs planning bodies to develop citizen involvement programs that insure the opportunity for citizens to be involved in all phases of the planning process. Canby's Planning Department strives to realize this goal, and Staff has been working with citizens interested in forming Neighborhood Associations as a vehicle for citizen involvement and enhanced communication between the City and its citizenry.

A large part of Staff's time in this area has been spent identifying successful Neighborhood Association programs, meeting with the respective program coordinators, and developing an action plan based on the fruits of those discussions and the results of Staff research.

This process aligns perfectly with Action Step A of the City Council's Community Relations Goal 8, which directs City Staff to schedule a workshop(s) with Neighborhood Associations to discuss mutual concerns and develop protocols for communication. Staff's proposal includes a joint workshop as part of the action plan (see Attachment A for details).

Staff expects the proposed panel discussions with Canby Neighborhood Associations and interested citizens to provide opportunities for citizens to provide feedback to the City with respect to customer service. Development of a Canby Neighborhood Association Manual is included in the staff proposal. Staff will work with citizens and successful Neighborhood Association Coordinators to

develop a Canby specific Neighborhood Association Manual, which will include strategies for efficient and effective communication between the City and its Neighborhood Associations. Improved communication procedures could in turn enhance the City's ability to provide excellent customer service.

- Options:
1. Modify proposed action steps and timeline.
 2. Reject proposed action steps and timeline.

Attached: Proposed action steps and implementing timeline.

Neighborhood Associations Action Steps and Timeline

STEP ONE: DESIGN AND DEVELOP TWO EDUCATIONAL VIDEOS:

Work with citizens, Neighborhood Associations, Oregon City and City of Gresham Neighborhood Association Coordinators and professionals to develop content and format for video.

Video #1: Panel discussion: All About Neighborhood Associations

- Panel discussion format (prepared questions and answers) filmed at OCTS
 - Panel members include representatives from:
 - Oregon City
 - Gresham
 - Existing Canby Neighborhood Associations
 - Newly forming Associations
 - City of Canby Staff liaison
 - Probable topics of discussion:
 - What works/what doesn't
 - How to be effective partners with City
 - Roles and responsibilities
 - *Estimated date of completion: September 2003*

Video #2: Panel discussion: Citizens and Land Use

- Presentation by Land Use Expert
- Questions and Answers
 - *Estimated Date of completion: November 2003*

Product: Copies of both videos available to public

STEP TWO: DESIGN AND DEVELOP WORKSHOP WITH COUNCIL AND COMMISSION

Work with Councilors and Commissioners and government/elected officials from Oregon City and Gresham to develop questions and format.

- Workshop led by government/elected officials with experience with successful Neighborhood Associations
- Question and answers
- Follow up workshop if necessary

STEP THREE: DESIGN AND DEVELOP WORKSHOP FOR DEPARTMENT HEADS

- Similar format as Council/Commission workshop but geared to department heads.

**First and second workshop dates to be determined, but ideally in February and March*

STEP FOUR: DESIGN AND DEVELOP JOINT WORKSHOP

- Facilitated workshop to share results of individual panel discussion and workshop issues.
- Discussion subjects to be determined from results of previous discussions/workshops
- *Estimated completion date: May 2004*

STEP FIVE: FORM COMMUNITY INVOLVEMENT COMMITTEE COUNCIL (HEADS OF NEIGHBORHOOD ASSOCIATIONS)

- Create Strategic Plan
 - Develop work plan goals and strategy priorities for the year

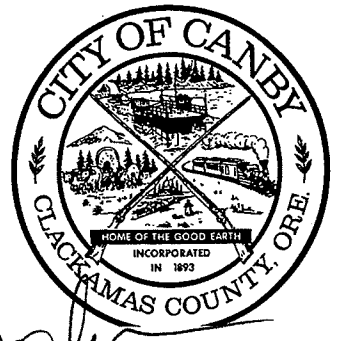
STEP SIX: CREATE CANBY NEIGHBORHOOD ASSOCIATION MANUAL

Collaborate with Gresham and Oregon City as they develop their manuals. Work with Canby Neighborhood Associations, the Canby City Council, Planning Commission, Department Heads and City Staff to develop Canby's own unique Neighborhood Association Manual.

- *Estimated completion date: September 2004*

COMMUNITY DEVELOPMENT

MONTHLY REPORT



TO: *Honorable Mayor Thompson and City Council*
FROM: *John Williams, Community Development & Planning Director*
DATE: *September 9, 2003*
THROUGH: *Mark C. Adcock, City Administrator*
RE: *Community Development project status*

Following is the status of major Community Development projects as of September 9. Please call me or the appropriate staff if you have any questions. The updates on Planning and Building revenues and Planning Commission activities are also attached. Items shown with a * are completed and will be deleted from next month's report; items underlined are new additions.

Street Projects

1. **SCIF grant.*** *No change.* This grant has been closed out. The grant covered \$15,000 of the NW 2nd/Ivy project and \$10,000 for the Wait Park restrooms; a low-interest loan contributed \$25,000 to the NW 2nd/Ivy project.
2. **CDBG grant application.** *No change.* Clackamas County has tentatively agreed to fund our SE 2nd Avenue project in 2006. This project will realign 2nd Avenue through the Canby Telephone Parking lot, vacate a section of the existing 2nd Avenue, and reconstruct the rest of 2nd between Juniper and Locust with sidewalks. *Background:* the Community Development Block Grant program is federal money to fund projects benefiting low-income areas. Funds are available over a three-year period. Our original applications needed to be redone because the County received information that Canby's eligible areas were changing.
3. **Street maintenance funding.** *No change.* The Council discussed street maintenance on August 6th, and staff will be providing more information as requested regarding the County and City work on this issue. *Background:* The Council has directed staff to spend time and money to work on the details of potential street maintenance funding mechanisms. This work will include a detailed inventory of Canby's commercial buildings, and investigation into potential gas tax revenues. Staff will return to the Council with a more detailed project proposal and public involvement process.
4. **99E/Territorial intersection.** *No change.* This intersection is recommended for funding in the 2004-2007 State Transportation Improvement Program. The project would be funded in the Safety category, is estimated at \$2.97 million, and is scheduled for 2006.
5. **Arndt Rd. improvements.** *No change.* The County's approval of this project is being appealed to the Land Use Board of Appeals. Neighbors of the project are concerned about the impacts the project will have on their properties and the river. *Background:* The County has received funding for this long-anticipated project, which will make it much easier for truck traffic to reach I-5 from Canby. The first phase, which will straighten the 90 degree turns on Arndt, is scheduled for construction in 2003. The second phase, which will connect Arndt directly to 99E with a new road along the Molalla River, under the rail trestle, and through Canby Ford, is scheduled for construction in 2005.

6. **Street project prioritization.** *No change.* At a March 26, 2003 workshop, the Council asked staff to set up a discussion of street capital projects, including funding sources and project prioritization. Staff will return with more details when a workshop date is available.
7. **S. Pine/S. Redwood rehabilitation.*** This project has been completed. *Background:* This \$136,543 project ground, stabilized, and repaved the travel lanes from Highway 99E to S. Township Road. The funds used will basically drain our major project discretionary maintenance funds for the 03-04 budget year.
8. **Grant Street/Knight School crossing.** The street department has completed excavation on the school side of the street and will be starting to build that side of the project now. *Background:* The City, School District, and PTA are working together to improve pedestrian safety at this busy crossing. The project includes bumpouts similar to those downtown to slow traffic and narrow the required crossing distance for pedestrians.

Wastewater Treatment Plant

9. **Solids dewatering/effluent filtration upgrades.** Construction work is approaching completion at the Treatment Plant. *Background:* These two projects will complete Phase II improvements at the plant and will cost over \$2 million, including a construction bid of \$1.9 million. The first round of bids went well over our project estimates, resulting in the revised estimates.
10. **Biosolids application program.*** *No change.* The City has notified DEQ that we are discontinuing the use of the Zenthauser property permanently. No further action is expected on this issue.
11. **Sewer rate study.** Darwin Tramel is leading a review of sewer rates, as is done periodically. The study will include billing options, capital projects, and potential stormwater charges. We will update the Council as soon as we have some numbers.

Planning

12. **Annexation priority system.** The City Council and Planning Commission are scheduled to meet in a joint workshop (tentatively scheduled for November 10) to review the annexation priority system and discuss options for change.
13. **Natural Resource inventory and code work.** The Planning Commission has reviewed the proposed wetland and riparian regulations (a requirement of periodic review) in a public hearing on September 8, and has recommended approval to the Council. A public hearing before the City Council is scheduled for October 1.
14. **Public facilities and services element of the Comprehensive Plan.** *No change.* Staff is beginning to draft the appropriate sections of the code and comprehensive plan. Work will enter the public process through a Planning Commission workshop.
15. **Neighborhood Associations.** Matilda will be updating the Council on September 17 on a training/educational session with neighborhood representatives and other topics. *Background:* the Council has officially recognized two new neighborhood associations: Riverside and Northeast Canby. We have also been working with citizens in SE Canby. Staff will continue to work with these groups to provide information and training as needed.
16. **Green Corridor agreement.** *No change.* The Council has tentatively approved ODOT's revised version of this agreement that removes any substantial financial commitment. ODOT has not produced a signed copy for the Mayor's signature, and ODOT staff seem to feel that

Salem is not going to approve this version either. *Background:* In 1998 the Council, the County Commission, Metro, and ODOT tentatively agreed to an agreement dealing with growth issues and Highway 99E development but ODOT later refused to sign, citing budget shortfalls which would prevent them from implementing their portion of the agreement.

17. **Green Corridor County project.** *No change.* Clackamas County has run into a number of roadblocks on this project and has run out of funding. We're not sure what their next steps will be. *Background:* Matilda Deas and Teresa Blackwell are Canby's representatives.
18. **System Development Charges.** Matilda and Beth are working to refine the methodology for the Parks SDC, which is scheduled for Council review on October 1.
19. **Historic Review Board.** The HRB and staff worked together to submit a grant application for various projects relating to historic preservation. *Background:* Canby's CLG designation will give us access to a pool of funding for historic preservation and education projects.
20. **Heritage Tree Inventory.** *No change.* Matilda Deas is leading a project to inventory Canby's historic trees. The project has support from the Canby School District, Oregon Department of Forestry, Oregon State Extension Services, and numerous volunteers around town. The inventory should be completed this month, and Ackerman students will be doing oral histories of the trees this fall. The City Council will be designating volunteer participants at the end.
21. **Community Park project.** *No change.* The phase I work is completed and Matilda is looking for business partners to support the High School's native plant nursery, which will provide plants for future phases. Matilda is preparing a presentation for the Council and Planning Commission on this topic.
22. **Northwoods LUBA appeal.** LUBA has decided that the record is complete, and will be receiving written arguments from each side over the coming weeks. *Background:* The Riverside Neighborhood Association has appealed the City's decision on the Northwoods application to the Land Use Board of Appeals. We expect it will be several months before a hearing is held.
23. **Northwoods "area of special concern" designation.** The Planning Commission reviewed this proposal at a September 8 public hearing and recommended approval to the City Council, which will hear the application on October 15. *Background:* The Planning Commission proposed this amendment, which would require creation of a master plan prior to development of the properties.
24. **NE Canby Master Plan.** Good news here, we received notice from the State's TGM program that our application has been approved and is moving on to the contract negotiation phase! This means that we will be able to hire consultant staff to lead work on the development of a master plan for the area east of 99E and north of SE First Avenue. We requested \$53,000 from the state but will have to wait and see how much they will award. *Background:* This project will create a master plan addressing land use, design, parks/open space provision, and infrastructure issues for the area bounded by Highway 99E, SE 1st Avenue, Haines Road, and NE Territorial.

Cemetery

25. **Mausoleum addition.*** Construction is now complete. I would encourage everyone who hasn't seen the new mausoleum to stop by, it really looks great. *Background:* In September

2001 the Council approved a \$208,000 contract with Dorman to construct a 154-space mausoleum addition in Zion Memorial Cemetery.

Urban Renewal

- 26. Economic Development Plan.** *No change.* Work continues on Canby's Economic Development Plan. This work will include the CBR Board, the Chamber of Commerce, the City Council and Agency, among others, and its development should provide a good forum for discussion of economic development philosophies and strategies. *Background:* the Council directed staff to focus on economic development at its January 2003 goal-setting session.
- 27. S. Sequoia Parkway.** The Council and Agency have approved the Special Public Works Fund loan and construction has begun on Sequoia and Hazeldell. The project is scheduled for completion in October. The Agency will be addressing what to do with the "extra" money created by the low bid price received on this project, which could amount to over \$300,000. *Background:* The Agency has approved an IGA with the Council that addressed the funding for a \$1.95 million loan application for the completion of approximately 2,500 lineal feet.
- 28. Urban Renewal Advisory Committee.** The Urban Renewal Advisory Committee has unanimously recommended that the Sequoia/4th Avenue project be the next priority for funding by the Urban Renewal District. The Committee has also recommended that the Agency move forward with a feasibility study on Hazeldell Way, which would include an analysis of potential utility and ODOT issues as well as a discussion on funding. The Committee has also requested more information on parks and downtown projects.

MEMORANDUM

September 9, 2003

TO: Honorable Mayor Thompson, City Council & City Administrator Adcock
FROM: John R. Williams, Community Development & Planning Director
RE: Planning Commission meetings – August 2003

August 11th

The Planning Commission held one public hearings and:

- **Approved** DR 03-04 on a 3-0 vote with one abstention. This application will allow permanent placement of a moved building at 269 NE 3rd Avenue. The Planning Commission had concerns with the parking area and asked the applicant to return with a revised plan, which was approved.

August 25th

The Commission held one public hearing and:

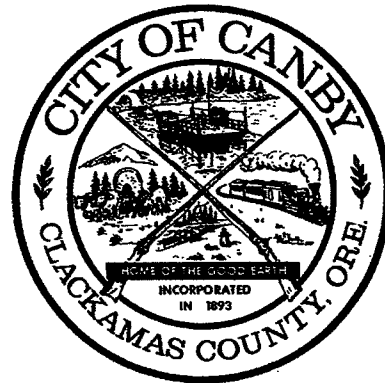
- **Denied** MLP 03-05 on 5-0 with one abstention. This was an application to create two flag lots behind an existing house at 1180 N. Juniper Street. The Planning Commission had concerns regarding access to the property and potential damage to a series of old Douglas Firs located in public right-of-way adjoining this property.

BUILDING PERMIT DATA August - 2003		
PERMIT TYPE	PERMITS ISSUED	VALUATION
BUILDING PERMITS SFR	13	\$2,649,967
MULTIFAMILY	1	\$38,500
MECHANICAL	10	\$
ADDITION/ NON-RES	2	\$22,505
ADDITIONS/RES	2	\$106,176
OTHER	6	\$3,200
<i>MONTH</i>	<i>34</i>	<i>\$2,820,348</i>
<i>YEAR</i>	<i>277</i>	<i>\$22,121,459</i>

FEES AND CHARGES UPDATE		
	<i>MONTH</i>	<i>YEAR</i>
Sewer SDC	\$26,359	\$148,590
Storm SDC	\$1,043	\$7,064
Trans. SDC	\$25,877	\$134,442
Parks SDC	\$37,551	\$250,224
Construction Excise Tax	\$14,106	\$81,794
Advanced Financing	\$1625	\$13,105
Building Dpt. Fees	\$28,089	\$183,093
Planning Dpt. Fees	\$830	\$5,111

INSPECTIONS	
<i>MONTH</i>	<i>248</i>
<i>YEAR</i>	<i>1809</i>

WASTEWATER TREATMENT FACILITY MONTHLY REPORT



To: *Honorable Mayor Thompson, City Council*

From: *Mark Adcock*
Through: *John Williams*
Prepared by: *Darvin Tramel*

Subject: *August 2003 Wastewater Treatment Report*

Date: *September 9, 2003*

Facility Operations & Maintenance & Construction:

Effluent quality for the month of August was exceptional in all categories, with no interruption of services or violations. Operations at the facility are still stressful as we try and complete the Phase II project. The new effluent filter is now on line and we are working out some bugs, but are happy with the results we are seeing. Next month we will start to see the effluent numbers go down as we will be using the new filter system. Also during the month of August we received no complaints from the golf course or adjoining or abutting land owners to our biosolids sites. "Hurrah"

Major maintenance activities for the month of August included replacing diaphragms on the secondary waste pump, sending in a recirculating pump for refurbishing and replacing belts on the odor scrubber blower. Staff also installed a new lime feed line to the primary clarifier and worked on problems with alarm system.

Construction activities for Contractors, Inc. evolved around start up of the new effluent filter, construction of the belt filter press building and site work for roads and landscaping.

<u>New Connections:</u>	14
<u>Total Connections:</u>	5167
<u>Average Flow:</u>	0.9636 mgd
<u>Fecal Coli</u>	9

<u>Monthly Averages:</u>	
<u>Effluent BOD₅:</u>	5 mg/l
<u>Effluent CBOD₅:</u>	4 mg/l
<u>Effluent TSS:</u>	5 mg/l

Biosolids Program:

The City of Canby applied 0.1755 million gallons of liquid biosolids to the Piuser application site.

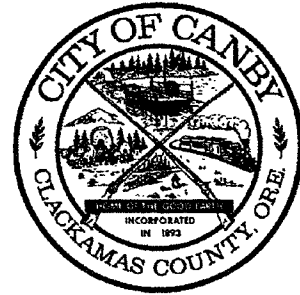
Pretreatment Program:

During the month of August I worked on Storm Water and a three day effluent sampling for metals.

Meetings and Training Attended

I attended meetings for the construction project, Oregon Association of Clean Waters Agency (ACWA), and the Pacific Northwest Pretreatment Conference (PNPC).

CANBY PUBLIC LIBRARY
MONTHLY REPORT
August 2003



TO: Honorable Mayor Thompson
and City Council
FROM: Mark Adcock, City Administrator
Beth Saul, Library Director
PREPARED BY: Marty Moretty, Library Coordinator
DATE: September 1, 2003

Facility:

- *Acquired new fixtures to meet demand of more DVD, CD and video storage.
- *Had staff workday to rearrange shelving units, deep cleaning, and shift materials.
- *Moved microfilm scanner into conference room.
- *All internet stations are now on north wall by adult fiction and wordprocessing computers on north wall by homework center.

Programs:

- *Summer Reading program great success with 375 participants concluding August 8th with grand prizes awarded to five children. Local businesses Postal Annex, Canby Burgerville, and Cutsforth's Thriftway supplied prizes, coupons, and materials.

Personnel:

- *Hanna Hofer was named our Library Employee of the Year 2002-03 and was presented with her nameplate on the plaque .
- *New pages Jill Schulenberg and Stephanie Koler were hired to share in the shelving and courier duties.
- *Office Specialist1 Connie Doyon transferred to the Library to train in the ongoing daily routines and take over specific duties on a part time basis.
- *Children's Storytime Librarian Peggy Wickwire spearheaded the Summer Reading and is preparing for a new State Ready to Read grant.
- *Reviewing/critiquing Spirit Mountain Grant and formulating plans to submit another during this fiscal year.

Volunteers:

- * Contributed 117 hrs. this month by assisting in shelving, sorting, pick lists, cataloging and processing, book mending, shelf shifting, and cleaning.

Circulation Statistics for July 2003:

*	135	New Patrons Added
*	748	Internet Workstation Use
*	20,748	Monthly Circulation
*	1,852	Holds placed
*	3,545	Holds filled

Friends of the Library:

- * Contributed funds and volunteers to the Summer Reading program.
- * Monthly "Friday Surprise" book sale.
- * Donation of \$800 to purchase children's picture books and juvenile fiction.
- * Donation of \$640 to fund the Cultural Pass program for the current year.
- * Sorting through and shelving donations at least twice a week. They also vacuum and clean the book sale room and entry areas.
- * Friends member Frank Remsing helped with building maintenance projects - lock and kickplate installation, mirrored windows for more reflective light in Addison Room, janitorial supply shelving, portable processing supplies cabinet.

To: Honorable Mayor Thompson, City Council

From: Mark Adcock

Through: Beth Saul

Set up by: Jeff Snyder

Subject: Parks Report for August, 2003

Date: September, 8, 2003



C.C.C.C. = Clackamas County Correction Crew.

* = no specific information for this area.

Adult Center

- Mowed and string trimmed.
- Adjusted irrigation time clock.
- Fertilized the turf.
- Ordered a gate for the back patio.

Arneson Garden horticultural park

- Removed the cyclone fencing that was taken down on the East side of the Park. (Sequoia Parkway extension)
- Delivered trash can for contractors.
- Met with McLeod Engineers regarding the parking lot layout off of Sequoia Parkway

Baker Prairie Cemetery

- Mowed and string trimmed.
- Cut up and hauled away debris.

City Hall

- Replaced irrigation time clock for the hanging baskets.

Community Park (River)

- Mowed the turf.
- Trimmed trees and hauled away debris.
- Cleaned out BBQ pits.
- Back pack blew off the pads under the picnic tables.
- Neatened up around the Wetlands Restoration Project area.
- CCCC started to clear the wetlands trail.
- CCCC performed litter patrol.

Eco Park natural area*

Faist V property*

Holly&Territorial welcome sign property

- Met with Bob Trappe regarding drinking fountain installation.
- Met with Pat Thurston regarding water meter installation for the drinking fountain.

Hulbert's Welcome Sign property

- Mowed and string trimmed.

Library*

Locust Street

- Mowed and string trimmed.
- Repaired irrigation heads.
- Unclogged plugged up sewer line.
- Fertilized the turf.

Locust Street Continued

- Raked out playground safety surfacing.
- CCCC performed litter patrol.
- Used backpack blower on the cement areas.

Logging Road Trail and Fish Eddy/Log Boom property

- Repaired drinking fountain by the Fourth St. Bridge.
- Mowed with the woods mower.

Maple Street Park

- Mowed and string trimmed.
- Irrigated sports fields.
- Raked out playground safety surfacing.
- Repaired drinking fountain.
- Marked out the stab joints for the irrigation system, so the volunteer can easily install the sprinkler heads.
- CCCC performed litter patrol.
- Fertilized the sports field turf.

Nineteenth Loop natural area

- Replace another gate post.
- String trimmed and picked up debris.

Skate Park

- Replaced Plexiglas on rules sign.
- CCCC performed litter patrol.

Shop Grounds

- Cleaned equipment.
- Cleaned up warehouse.
- Mowed and string trimmed.
- Irrigated the turf.
- Fertilized the turf.
- Helped Motor Pool tow police car to muffler shop, the car stalled on 4th Ave.

Swim Center

- Mowed and string trimmed.

Thirteenth Avenue future park property

- Mowed and string trimmed the turf and picked up garbage.

Territorial Estates, Future CLC Park

Transit Building

- Adjusted irrigation on hanging flower baskets on 2nd. Ave.

Triangle Park

- Mowed and string trimmed.
- Irrigated the turf.
- Fertilized the turf.

Wait Park.

- Repaired irrigation heads. Repairs due to events held in Park.
- Sprayed weeds.
- Fertilized the turf.
- Raked out safety surfacing.
- Repaired drinking fountain.
- Turned on the electricity for the Cruise In Car Show.
- CCCC performed litter patrol.

Wait Park Continued

- Aerated and over seeded the turf.

Willow Creek Wetlands***Training/Meetings/Miscellaneous**

- Attended City Safety Committee meeting and crew Safety Committee meeting.
- E-mailed CCCC work orders.
- Wrote monthly report.
- Hired Caleb Hawkins for the part time park maintenance worker.
- Met with Building Inspector regarding Wait Park restroom.
- Met with Diane Helgerson and Frank Cutsforth Regarding the Cruise In.
- Met with Jackie McEhinng regarding volunteers watering the sports fields at Maple St. Park. (soccer Volunteer)
- Signed up for the ORPA conference in Ashland.

M E M O R A N D U M

TO: *Honorable Mayor Thompson and City Council*
FROM: *Chaunee Seifried, Finance & Court Services Director*
THROUGH: *Mark Adcock, City Administrator*
DATE: *September 8, 2003*
REGARDING: *Monthly Report Finance and Court Departments*

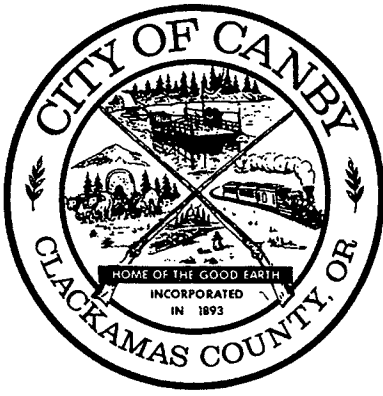
Finance Department
August Monthly Report:
Prepared by Laura Dornbusch, Finance Program Manager

- Chaunee and Laura attended various OMFOA and GFOA seminars
- Sharon attended a BOLI seminar.
- Held a Benefits Fair for all employees.
- Finished Open Enrollment.
- Enacted newly adopted labor contracts for wages and insurance premiums.
- Preparing for fiscal year end and the annual audit.
- Converted the Library Department to Caselle Purchase Orders.
- New employees:
 - Tahanie Branz, Admin
 - Valerie Kraxberger, Admin
 - Les Larios, Collections
 - Nat Di Cenzo, Police
 - Nichol Moore, Police
 - Johann Weber, Pool
 - Dean Mischell, Pool

M E M O

DATE: September 3, 2003
TO: Chaunee Seifried, Fianace and Court Director
FROM: Kathy Mashek, Court Supervisor
RE: Monthly Report for July, 2003

- 16 People attended the August seatbelt class
- 95 helmets were ordered for future distribution
- Court trial on the 2nd Wednesday of the month were held for 19 defendants
- 408 New cases were filed and 462 cases were concluded
- Revenue for the month of August was \$46,046.00.



City of Canby

Police Department

To: Mark Adcock, City Administrator

From: Lt. Greg A. Kroeplin

Re: Monthly Report, August 2003

Date: September 5, 2003

- Officer Greg Larrison attended a week long training class in Bellevue, Washington to meet the training requirements as the departments new school resource officer. He started his assignment at the High School on August 25th.
- Officer Kitzmiller and Officer Feters attended a week long armorer's course on Colt Ar-15/M16 long rifles at Camp Wythecomb.
- Chief Pagano attended a two day conference on missing and exploited children in Alexandria, Virginia. The information he gathered from this conference was very informative and has been shared with everyone in the department through are shift briefing process.
- Sergeant Tro scheduled about half of the officers to attend an emergency vehicle operations course (EVOC). This is a mandatory training course that each officer must attend on an annual basis. The remaining officers will attend the course in September.
- Two sergeants attended a two day training class on the command function of critical incidents. This type of training is very important for first line supervisors.
- The entire department kept extra busy during the week of the annual Clackamas County Fair. Extra personnel were scheduled to provide an enhanced presence of law enforcement officers because of the increase in citizens visiting Canby for this popular event.
- A testing and selection process was completed for the Police Records Clerk position. Sergeant Brian Howarth coordinated most of the responsibility on this process which involved 138 applicants. The entire command staff was involved in the many steps taken to finalize an applicant for the Chief to interview.

Monthly Report

From: Eric Laitinen, Aquatic Program Manager

Date: 09/02/03

Re: August Report

David is finishing up with lining up the maintenance items for this fall's closure. A new flooring surface for the dressing rooms should be done in a couple weeks. It looks like we have some last minute maintenance items that must be added to the fall closure list, but it is all under control as usual.

August was pretty good in both attendance and revenue, in all areas except lessons. I am continuing with an aggressive advertizing blitz to increase lessons registration. Patrons seemed to have enjoyed the longer public swims the last couple of weeks in August along with the one hour public swims we had all summer after our evening water exercise class.

The staff is both preparing for the closure and for the fall schedule. The Swim Center will be closed for maintenance for one week September 7- 14. We are scheduled to re-open on September 15th with our fall schedule. The fall schedule includes public swims, adult swims, lap swims, water exercise, evening swimming lessons and swim team. The fall school lessons will begin just a couple weeks after the pool re-opens.

FROM : ERIC LAITINEN, AQUATIC PROGRAM MANAGER
SUBJECT: MONTHLY REPORT FOR AUGUST 2003
DATE: SEPTEMBER 3, 2003

CANBY SWIM CENTER AUGUST 2003	ADMIT 2002	ADMIT 2003	PASS 2002	PASS 2003	TOTAL 2002	TOTAL 2003	YTD TOTAL O2-O3	YTD TOTAL O3-O4
MORNING LAP	49	29	276	255	325	284	700	645
ADULT RECREATION SWIM	149	79	402	418	551	497	1132	1027
MORNING WATER EXERCISE	149	180	0	0	149	180	323	369
PARENT/ CHILD	178	100	0	0	178	100	409	251
MORNING PUBLIC LESSONS	2760	1692	0	0	2760	1692	5565	3371
SCHOOL LESSONS	0	0	0	0	0	0	0	0
NOON LAP	70	58	153	159	223	217	424	463
FAMILY SWIM	0	0	0	0	0	0	0	0
AFTERNOON PUBLIC	643	678	110	146	753	824	1672	1483
PENGUIN CLUB	171	122	0	0	171	122	908	726
CANBY H.S. SWIM TEAM	0	0	0	0	0	0	0	0
CANBY SWIM CLUB	0	0	169	168	169	168	1059	982
N. MARION H.S. SWIM TEAM	0	0	0	0	0	0	0	0
EVENING LESSONS	940	744	0	0	940	744	2027	2117
EVENING LAP SWIM	63	42	73	46	136	88	286	197
EVENING PUBLIC SWIM	775	696	168	104	943	800	2232	1878
EVENING WATER EXERCISE	218	98	0	0	218	98	419	273
ADULT LESSONS	2	0	0	0	2	0	15	0
GROUPS AND RENTALS	128	259	0	0	128	259	271	408
WATER POLO	8	0	0	0	8	0	74	0
OUTREACH SWIMMING	0	63	0	0	0	63	247	218
TOTAL ATTENDANCE	6,303	4,840	1,351	1,296	7,654	6,136	17763	14408

To: Honorable Mayor Thompson, City Council

From: Mark Adcock

Prepared: Roy Hester

Subject: Public Works Report for August 2003

Date: September 2, 2003

August

Street Department:

- Sprayed herbicide at CAT lot and spot sprayed on NW 2nd weeds growing in the brick.
- Checked on the progress at the Industrial Park, tree removal on-going and excavation on-going.
- Sprayed herbicide for weeds in the Faist Addition area.
- Moved cart from City Hall to the Shops.
- Sprayed herbicide on weeds along curbs.
- Worked on Oil Distributor and fixed broken parts.
- Sprayed herbicide along the curb lines.
- Fixed spray bar on the back of the 1957 Oil Distributor.
- Checked on the progress of Sequoia Parkway project.
- Took down 3 on 3 Basketball banner.
- Put up Swan Island Dahlias banner.
- Slice of Summer concerts were finished and all barricades picked up.
- Set area for Kiddie Parade with barricades. Picked up all barricades after the parade.
- Picked up barricades around the Fairgrounds.
- Drove to Portland for a load of CRS-2 road oil.
- Set out barricades for Car Show for August 23rd.
- Took down Swan Island Dahlias banner.
- Put up Adult Center banner.

Streets:

- Swept streets 8-1-03.
- Cleaned up asphalt mess at Vietnam Memorial lot and on Berg Parkway.
- Excavated sink hole on N Grant by Parsons. Old power pole found, removed and filled with rock.
- Started painting parking lines down town.
- Swept streets 8-8-03.
- Swept streets 8-14-03.
- Put barricades out for "No Parking" on N Ivy, 4th to 9th, for paving project on August 19 & 20.
- Started paving on N Ivy from 4th to 6th Avenues on 8-19-03.
- Finished paving project on N Ivy 4th to 9th on 8-20-03.
- Cleaned up paving machine.
- Swept street 8-22-03.
- Picked up barricades from car show.
- Washed S Pine, SE 3rd and S Redwood after paving and preparing for repainting.
- Painted centerline on new pavement at S Pine, SE 3rd, S Redwood and N Ivy.
- Saw cut pavement on N Grant for bump out at Grant Street School.
- Placed traffic control arrows on S Pine at 99E.

Streets (continued):

- Patched chuck holes with asphalt.
- Finished N Ivy asphalt job 8-27-03.
- Rocked shoulders on N Ivy 5th to 9th after asphalt overlay.
- Sealed all joint edges on N Ivy with oil and sand.

Sidewalks and Curbs:

- Painted curb bumpout at NW 1st and N Ivy, cars were hitting curb when turning.

Signs:

- Cemented in sign post on NW 3rd by skate park.
- Placed "No Parking" signs along NE 4th Avenue per Police requests for the Fair.

Street Lights:

- Repaired (11) street lights.

Street Trees:

- Watered trees on NE 13th Avenue near Faist Addition.
- Watered trees on NW 2nd and trees on SE 13th at Faist Farms.
- Removed illegal signs from trees on NW 2nd and Fir Street.

Special Projects**Sanitary Sewer and Storm Drains**

- Sewer main installation started at Hazeldell Way.
- Removed busted catch basin.
- Installed new catch basin on SW 2nd.
- TV'd sewer main on S Redwood, looking for laterals.
- Washed and located old storm line for reference.

Locates

Thirty-five (35) locates were done during August.

Erosion Control

- Completed (1) erosion control permit.
- Completed (6) erosion sediment control inspections and filled out application forms.
- Completed (1) erosion control permit.
- Inspected (2) erosion permit sites.
- Completed (5) erosion permits.
- Inspected (4) erosion permit sites, (3) approved and (1) denied.
- Inspected (8) erosion permit sites.
- Inspected (1) final erosion permit site.
- Completed (4) erosion permit inspections.
- Completed (3) erosion permits.
- Inspected (1) final erosion site.

Inspections for the month include the following:

- Inspected new drywell at Hope Village.
- Inspected (1) sewer lateral.
- Inspected (3) sewer laterals.
- Inspected (5) sewer laterals.
- Inspected new sewer lateral for SMS Auto Fabrics business.
- Inspected (2) sewer laterals.

- Inspected (1) sewer lateral.

Complaint/Inquiry Request

Eleven (11) complaints were completed during August.

Meetings/Miscellaneous:

- Met with property owner on SE 9th about curb and sidewalk.
- Met with Ed Netter on Valentine Meadow issues.
- Met with Hassin of Currin-McLeod on sewer issues on Sequoia Parkway.
- New employee Les Larios started.
- Introduction to City Policies and work.
- Attended Traffic Safety meeting.
- Attended pre-construction meeting for SMS Auto Fabrics.
- Met with Ron Berg about construction area for new church on SW 3rd.
- Met with Ron Robinson and went over to Grant School on curb changes.
- Answered (8) phone questions from citizens.



CANBY ADULT CENTER AUGUST 2003

AUGUST SERVICE LEVELS		YTD	LAST YEAR
CONGREGATE	60 YEARS (includes congregate, guests)		
1064/month	63 average/day	2,114/year	1120month
UNDER 60	(includes volunteers, guests and staff)		
110/month	6 average/day	208/year	115month
\$1.64 average donation			\$1.65 average
HOME DELIVERED MEALS (Includes T19)			
1434/month	84 average/day	2,877 year	1386/month
UNDER 60 (T19)			
78/month	5 average/day	135/year	83/month
\$ 1.12 average donation			\$1.48 average
O.P.I. meals (Project Independence)			
79/month	5 average/day	140 year	135/month
TOTAL MEALS			
2,765/month	163 average/day	5,474 year	2,839/month

CLIENT SERVICES	MONTH	YEAR TO DATE
70 unduplicated clients		170
Assessments	6	14
Case Monitoring	30	63
Community Outreach	13	17
Info & Referral	115	222

TRANSPORTATION		
14 average rides/day	1061 miles per month	245 rides/month
0 new riders this month		

VOLUNTEER HOURS	
1101 month	52 average/day

OTHER CENTER USE (Those who use the center but did not eat or volunteer)
943 people signed in

FUNDRAISING

\$5,193.00	Gifts, memorials and donations (Includes \$5,000 from Or. Community Foundation)
\$630.00	Rentals
\$1,016.15	Center Projects
\$495.50	Bingo

CENTER INFORMATION

August was quiet, a time for vacations and settling in to a new routine with new employees to train. At present, I have taken over the job of producing the newsletter. I will probably work towards finding someone else to do that task as it requires quite a lot of time.

The gate to the patio has still not been replaced, but the City has placed the order for the work. Also, the window in classroom 2 is a pending job. Apparently, the contractor is busy elsewhere at the present time.

Axton Baker approached me recently regarding a project he wants to do for Eagle Scout status. Axton proposed installing a small water pond and we decided on the patio area. The City has given their approval and we plan to begin just as soon as we locate the sprinkler system.

The added exercise class is going very well and a support group for caregivers is beginning. Mary Gottlieb will be facilitating that meeting.

Eventually, I'd like to see someone else take over Canby Place to free Mary up for more of her job as Client Services. I see her hours needing to expand, possibly up to 35 per week. I think there is the possibility that Susan Potter could take over the day to day running of the Canby Place program with Mary Gottlieb remaining as administrator. I'd like to point out that Canby Place salaries come from the amount clients pay and the reimbursement we get from the County. The Program manages to pay for itself and has been very successful, thanks to the cooperation of the Board, staff and volunteers.