

# RURAL LANDS STUDY

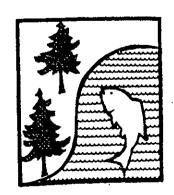


PART ONE : STUDY REPORTS



**APRIL** 1982

GRAYS HARBOR COUNTY



THE GRAYS HARBOR
REGIONAL PLANNING COMMISSION

# EASTERN GRAYS HARBOR COUNTY RURAL LANDS STUDY

### PART ONE: STUDY REPORTS

#### **APRIL 1982**

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#### INTRODUCTION

The "Rural Lands" Study was initiated by the Grays Harbor County Commissioners to address problems of rural development in East Grays Harbor County and as a companion study to the Agricultural Committee Recommendations. The construction of twin power plants at Satsop had increased development demands on rural Grays Harbor County. These demands resulted in land use conflicts, requests for increased density, and the realization that components of the County's land use guidance system are out of date and uncoordinated with the plans of other jurisdictions in East Grays Harbor County. As recommended by the Agricultural Study Committee's report adopted in May 1981, 20,000 acres formerly zoned for agricultural uses were not included in the two new agricultural zones. The agricultural potential of these lands was low and their potential uses needed to be evaluated.

The "Rural Lands" Study focused on three key problems: how should the County respond to the increased demand for small acreage parcels (generally one or two acres in size), what uses should County encourage on the 20,000 acres the Agricultural Study Committee recommended be deleted from the Agricultural Zones, and what policies are needed to update and coordinate the County's land use guidance system.

In brief the study recommends that two new one acre zones be adopted and applied to various areas in east Grays Harbor County. That the land deleted from the agricultural zones be rezoned for various densities and uses depending on land capability. That new policies be adopted which will aid the County in deciding the appropriate locations for various land uses, protect the resources of the rural lands, and coordinate the County's land use plans with the plans of other jurisdictions. The full text of the policies and zones the Rural Lands Study proposes for adoption are found in the Rural Lands Study Part Two: Recommendations.

This volume contains the background reports presented to the County Planning Commission and the general public which are the basis for the development of the recommended policies and zones. It is hoped that these reports together with the Rural Lands Environment Impact Statement will provide the information necessary for informed evaluation of the Rural Lands Recommendations.

The "Rural Lands" include that portion of Grays Harbor County

generally east of the Wynoochee River less those areas designated for agricultural uses by the Agricultural Element of the Grays Harbor County Comprehensive Plan, the incorportated cities with their urban service areas, and the remote commercial forest lands. The approximate extent of the Rural Lands is shown on Map 11 on page 53 of this document.

# REPORT #1 PRESENT PLANNING and ZONING

#### RURAL LANDS STUDY

#### REPORT #1: PRESENT PLANNING AND ZONING

#### Introduction

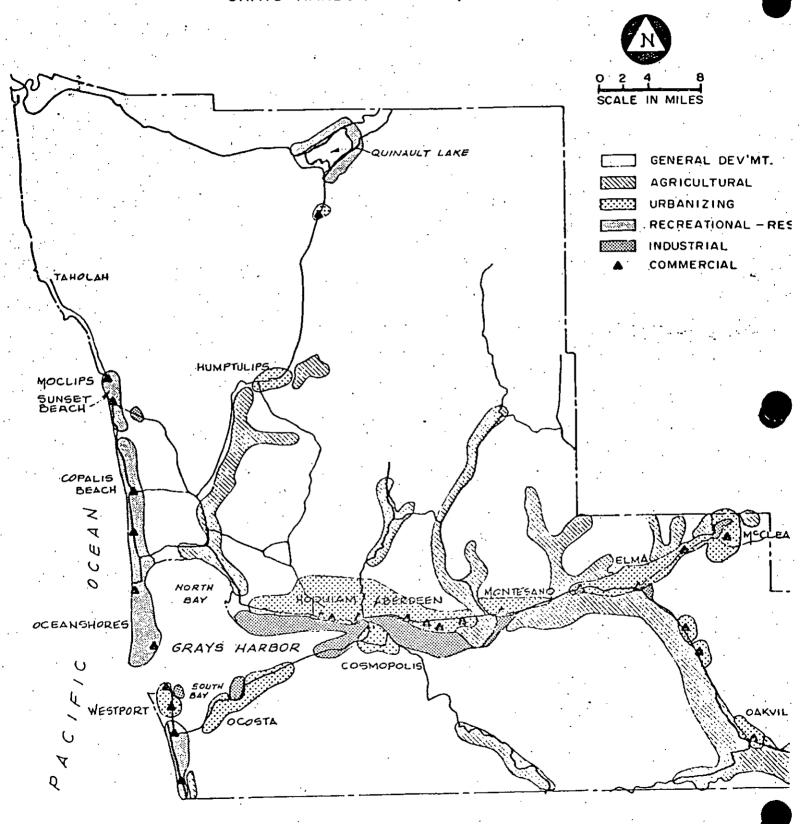
The resolution which established the Rural Lands Study directed the County Planning Commission to "determine if current planning is appropriate" in rural lands. As a first step in that determination, this report examines the various plans which affect the rural lands of eastern Grays Harbor County. In addition, present zoning—zoning being the most important method of putting plans into effect—is discussed.

#### Present County Comprehensive Plan

The following map outlines the present Comprehensive Land-use Plan for Grays Harbor County. There are six designated land-use types therein: (1) General Development, (2) Agricultural, (3) Urbanizing, (4) Recreational-Residential, (5) Industrial, and (6) Commercial. By far the most extensive designation is the "General Development" area, covering primarily that area away from urban areas, coastlines, and major river valleys. The "Recreational-Residential" designation covers almost completely the Pacific coast from Moclips to Grayland with the exception of the City of Westport and an area near Iron Springs. In addition, it surrounds Lake Quinault. The main "Industrial" areas are in Hougiam and Aberdeen along the Inner Harbor and Chehalis River; smaller areas are found in Westport, Markham, Aloha, Montesano, Elma, and McCleary. The "Urbanizing" designation includes the Urban Area--from Grays Harbor City to Central Park and down to Cosmopolis -- not designated "Industrial" as well as the Montesano and Elma areas above the Chehalis River valley. This designation continues up the Wildcat Creek valley to McCleary and takes in the cities of Westport and Oakville; the smaller settlements of Humptulips, Neilton, Porter, and Malone; and the area from Bay City to Ocosta. "Agricultural" areas fill up many of the river valleys--Chehalis, Satsop, Humptulips, North, Wynooche, and Wishkah--not designated "Industrial" or "Urbanizing" as well as some smaller areas (eg, downtown Aberdeen) and smaller commercial sites (eg, Brady and Porter).

Four main problems face this present plan. First, it lacks description of the various land-use areas without which these areas cannot be fully defined. There is a common-sensical notion of the character of each but, without a

# COMPREHENSIVE LAND USE PLAN GRAYS HARBOR COUNTY, WASH.



description, this notion varies from person to person. Perhaps the vaguest area is the "Urbanizing" designation. What does it mean for an area to "urbanize"? What uses characterize "urbanizing"? At what density?

Second, the present plan lacks the goals and policies needed to guide the use of the map and the future development of the county. These goals and policies would both define the character of the various land-use designations—allowed uses, purpose, density of development, etc.—and guide the implementation and coordination of the elements of the plan.

Third, the present plan needs to be reviewed in light of the changes which have occured in the county since its adoption. Plans are not meant to stand forever; they should be reviewed periodically to insure that they adequately and appropriately address any changes in the area which may have occured. And it is precisely such changes which have occasioned this review.

Finally—and this follows from the preceding problems—the plan doesn't provide a place for rural development or distinguish it from other designations, particularly "Urbanizing". It the years following the adoption of the plan, the existence of this rural development as distinct from "urban" and even "suburban" has become clearer and clearer. The present plan does not provide the County with either a policy direction or a land-use designation specifically addressing this land-use type.

### Present County Zoning Ordinance

Zoning—the establishment of various districts within each of which specific controls are identified which regulate the use of buildings and land; the density of population, the height, bulk, and location of buildings, and the density of development—must be based on the comprehensive plan. This is not only good planning practice, it is a statutory requirement. RCW 36.70.020 (g) states that the comprehensive plan "shall serve as a policy guide for the subsequent public and private development and official controls." In keeping with this requirement, the purpose statement for the present zoning ordinance characterizes it as the "means for carrying out the general purposes... of the Comprehensive Plan...."

There are two main problems in the relationship between the County's comprehensive plan & zoning ordinance. First, the deficiencies of the plan are passed onto the zoning ordinance. For example, the plan has six designated land-use types and the zoning ordinace has twelve primary zoning districts. This doubling of zones is not necessarily inconsistent with a plan, but on the

other hand, there is nothing in the plan-no policy or goal--which supports this increase in districts. Further, the current zoning provisions contain regulations on use, desnsity, lot coverage, and other traditional concerns of zoning. However, the plan provides no direction on these matters.

Second, there have been inconsistencies in the implementation of the plan. For example, the plan designates both Porter and Malone "urbanizing" with "commercial" nodes. Both, however, were zoned "general development" by the original zoning map. In the absence of any polcies to the contrary, this zoning seems to contradict the plan. Furthermore, there have been rezones granted since which also seem to contradict the plan. Neither zoning nor rezoning of land which does not conform to a comprehensive land-use plan map is necessarily unsupported by a plan. However, where there are no policies within the plan which allow for a variance from the plan map, such variance should not be presumed to be in conformance with the plan.

The specifics of the zoning ordinance are not within the scope of this report and will be discussed later in the rural lands study. One major implication of the preceding comments should be noted, namely: since zoning must be based on a comprehensive plan, changes and expansions of the present plan will lead to revisions of the present zoning ordinance.

#### East County Planning Area Plans

Just as the County has responded to changes and growth pressures in eastern Grays Harbor by establishing the Agricultural Lands Committee and the Rural Lands Study, the Cities of Montesano, Elma, McCleary, and Oakville have adopted comprehensive plans for their jurisdictions. These plans are important to this present study not merely because they were begun in a similar spirit. The primary reason for discussion of them in this report is that they covered not only the cities but adjacent unincorporated areas; in fact, the Montesano Area Plan, adopted by the County as its comprehensive plan for the area from Melbourne to Brady, was based on the City of Montesano's plan for the surrounding unincorporated area.

The cities were concerned with the impacts of growth and development in the areas adjoining their corporate limits. And this concern was two-fold. First, the cities wanted to insure the efficient and economical provision of public facilities to both the present incorporated areas and future urban areas and, second, they wanted to encourage compatible land-use within and between city and adjacent lands. These two preceding objectives lead to a third: to encourage cooperation

between the cities and the County in planning and zoning. Each city's planned solution to these concerns was different.

Montesano's approach was highlighted by the establishment of an Urban Services Area. Within this area, the City plans to extend its water and sewer system accompanied by the annexation of served lands. This Urban Services Area, based on the City's Water and Sewer System Plans, covers the present city and the area east to Roup Road between the old Olympic Highway and the hills to north. This plan calls for a moderate level of growth in population.

The plan also calls for the commercial core to remain in downtown Montesano. Higher density residential uses would be directed adjacent this commercial core and eastward along the main transportation coridors of the Monte-Brady Road (Beacon Avenue) and the Olympic Highway. Lower density—but urban-residential uses should be directed north of these other uses. Rural residential uses would go to the area east of Roup Road to Brady out of the river valleys while the latter would be reserved for agricultural uses.

Oakville has a very different approach to public facilities. Their plan encourages only a slow growth rate in the area with no public sewage system and little expansion in the quality and capacity of the present water and street systems expected. Consequently, the City sees its rural character continuing with agricultural use of the river valleys and forestry use of the hills as the predominant land use pattern in the unincorporated Oakville area. Only small areas of rural residential uses are seen. The slow growth assumption and "passive" approach to public facilities comes from the realization that the City, because of its small tax base, cannot finance the level of services needed for urbantype development.

McCleary, on the other hand, takes a more "active" (though controlled) approach to public facilities and sees a moderate level of growth in its planning area. Although McCleary, like Montesano, establishes urban service expansion areas-primarily two small areas just to the north and south of the city and west along the Olympic Highway to Rayville-these areas will only be served when the service needs within the present city limits are met. Additionally, the Plan encourages development in the city first before urban growth expands into unincorporated areas. The over-riding concern is with the not overburdening of the City's public facilities.

The primary land-use designation is "Forest/Open Space" with some "rural residential" along Elma-Hicklin Road and south along Sand Creek and Mox-Chehalis

Creek Roads. Commercial uses dependent on Highway 8 traffic may be located at access points to that highway.

The Elma plan foresees the largest growth rate of these four plans which it describes as "moderately high". This plan, like McCleary's, discourages the over-burdening of public facilities and prefers supplying new service within present city boundaries over adjoining areas and adjoining areas over further removed lands. Like Montesano, the plan calls for annexation concurrent with receiving public facilities. However, unlike either McCleary or Montesano, the Elma plan does not clearly delineate an urban service area. It suggest that the "Agriculture/Rural Development" designation—which covers a large area to the west and many smaller areas to the north and east—"possibly" may be within such an area. However, that designation also allows only that residential development which does not conflict with agricultural operations. These two provisions of the "Agriculture/Rural Development" designation may be in conflict. Additionally, the Plan calls for the conservation of Class II and III farmlands for agriculture; some of these farmlands are also within the "Agriculture/Rural Development" designation.

As with the other plans, the majority of the river valley is designated "Agriculture" and the surrounding hills are "Forest". The previously discussed "Agriculture/Rural Development" designation covers much land to the west of the city limits between the freeway and the northern hillsides with other uses interspersed in the area, particularly along the old highway. Smaller areas of rural or urban development are found to the northeast and southeast of the city.

All of these area-wide plans have either implicit or explicit objectives for increased cooperation between the County and each of the east county Cities. In fact, just the inclusion of unincorporated areas into their plans is an indication of those objectives. The cities' goal in this is not necessarily to get the County to adopt the Cities' plan without questioning their provisions. The main goal is to establish compatible planning and zoning within the total area, both incorporated and unincorporated, and to begin a communication process between the Cities and the County on land-use decisions.

REPORT #2
GEOLOGY, GROUND-WATER, and FLOODPLAINS

#### RURAL LANDS STUDY

REPORT #2: GEOLOGY, GROUND-WATER, AND FLOODPLAINS

#### I. INTRODUCTION

This report is the first of two which explore some aspects of the natural environment important to the Rural Lands study. The geologic character and history, the occurrence of ground-water resources, the location of floodplains and the implications of these natural characteristics on rural development are covered within the first report. The next report will detail information based upon the Soil Conservation Service surveys, namely, the soil-based limitations for septic tank systems, suitability for building foundations, slope, and prime agricultural lands.

#### II. GEOLOGY

In the study of the environment of eastern Grays Harbor County, this report begins with the formation of the land or its geological history. This information provides both a general background and the introduction to the discussion of ground-water occurrence in the study area.

#### TERTIARY PERIOD

At the beginning of the Eocene epoch, some 58 million years ago, most of western Washington was under water, the shoreline of the Pacific Ocean being where the Cascade Mountains are today. During the 22 million years of this epoch, some of the greatest volcanic activity in the world occurred here. In some places (e.g., near Lake Cushman) the lava deposits may be ten miles in depth; the total volume of volcanic material extruded along the Coast Range of Washington and Oregon may equal the outpouring of 5,000 Mount Rainiers. Examples of this formation can be seen along Highway 8 east of McCleary.

After this massive volcanic activity, the area began to fill in with eroded materials from this volcanism and the eastern highlands to form a low, swampy coastal plain. These eastern highlands, later to become the Cascade Mountains, were the site of active volcanism. The abundant plant material of the plain accumulated and was buried, later to become coal by

compaction. The nearest deposits are in the Chehalis-Centralia area. During the Oligocene epoch (11 million years long), this plain became further stabilized and overlain with fine-grained volcanic sediment. However, during the 20 to 23 million years of the Miocene and Pliocene epochs, massive folding of the earth occurred. It was during these epochs that the Olympics and Cascade Mountains and the Coast Range were formed. The Chehalis River, which had established its general path before this period, remained as one of the few rivers to cross the Coast Range. Midway through the Miocene epoch, new volcanic activity, primarily centered in eastern Washington but also covering the Willamette Valley to Neahkanie Mountain on the Oregon Coast and the Willapa Hills, formed a new geologic deposit. This formation, known as Columbia River Basalt, is in the hills of the southestern portion of the study area, forming the two largest peaks there—Minot Peak and Blue Mountain—and much of the Black Hills.

#### QUATERNARY PERIOD

The beginning of the present, or Quaternary, geologic period was marked by the Ice Ages (also known as the Pleistocene Epoch). During the Ice Ages, which began 2-3 million years ago, the climate changed dramatically, from sub-tropical to sub-arctic, and continental ice sheets covered much of the surface of the earth. Locally, one of lobes of the North American ice sheets came from Puget Sound as far as McCleary, although the impacts of glaciation, as shall be seen, were farther reaching. Additionally, Olympic Mountain glaciers expanded to the adjacent lowlands as far as Grisdale and Taholah; Lake Quinault, for example, is glacially-formed.

These glaciations advanced and retreated more than once with each glaciation having different effects on the present landforms. Throughout most of the study area, the primary effect was glacio-fluival or the deposit of materials from streams whose sources were these glaciers. At times, these streams were quite large. Several times the Puget Sound lobe blocked the usual drainage of the Sound (the Straits of San Juan de Fuca) and forced the waters of the resultant fresh-water lake over the Black Hills and to the Pacific Ocean via the Chehalis River. During these times, The Chehalis was, at its peak several times the size of the present day Columbia River. The major channels carrying this water were the Satsop,

Cloquallum, Mox Chehalis, and Black River valleys. The Olympics-derived streams also carried greater water volumes than at present.

These glacier-fed streams carried and deposited enormous amounts of sand and gravel into the river channels of the study area. The character of these deposits differed by their source. Derived from Olympia Mountain rocks, the Wynoochee River deposits are chiefly composed of coarse basaltic sands and gravels with minor quantities of sandstone and shale pebbles. In the other drainage areas (except North River), the sediments from the Puget Sound lobe are composed not only from rocks from the southeastern part of the Olympics, but include granitic pebbles and rocks derived from the North Cascades and the mountains of British Columbia.

Primarily, these Ice Age deposits take the form of flat terraces along and above the present floodplains of the area's river. For example, in the area between Montesano and Brady, three of these terrace deposits are found: Low Fraser, High Fraser, and Middle Salmon Springs. Those familiar with that area will note that the edges of each terrace are usually quite distinct. Almost all settlement in eastern Grays Harbor County is found on these terraces for several reasons, the most important being generally flat building sites, located above floodplains, with relatively abundant ground-water. This is true not only for the four cities but also for Malone, Porter, Whites, Cedarville, Brady, Satsop, Central Park, South Elma, and other scattered development. Only Melbourne breaks the pattern. Often these deposits make good farmland, especially for dairying, and agriculture may compete with urban uses for them. The proposed new Agriculture zoning includes many of these deposits in it.

The other major type of Ice Age deposit is the "till and undifferent-iated drift". (Till is also known as hardpan and occurs where the land has been overrun by glacial ice and is usually pebbly clay. Drift is glacial material "dropped" by the retreating ice.) The three deposits are the Salmon Springs, Mobray, and Grisdale. The first comes from the Puget lobe and covers the hills around McCleary and the hills along the Middle Satsop north of its confluence with the East Satsop; it contains much bedrock. The others were formed by Olympic Mountain glaciers coming down the Wynoochee River Valley. The Mobray tills begins 17 miles from the mouth of the Wynoochee and the Grisdale till 23 miles.

Additionally, the lake bottom deposits of Weatherwax Lake, formed by the glacial damming of the West Fork of the Satsop River, are found north of the Cougar-Smith Road.

#### RECENT DEPOSITS

When the ice Ages came to an end some 14,000 years ago, the Chehalis and other rivers generally assumed their present courses and levels. The materials laid down by these streams at both normal and flood stages since that time are given the name Quaternary alluvium. The outlines of that deposit follows very closely the boundaries of estimated present floodplains.

The North River area is different from the rest of the study area in that it has not been influenced by Ice Age processes. Generally (and only general information is available), only Quaternary alluvium is found in the North River and Vesta Creek valleys. These materials are derived from the erosion of the surrounding hills, which are composed primarily of the balsatic sands and gravels of the Tertiary period. These are none of the terraces formed by higher river volumes during the Ice Ages as in the rest of the study area.

#### III. GROUND-WATER OCCURRENCE\*

Ground-water occurs where surface water and precipitation percolates into the ground and is stored in the porous earth. Not all types of geologic deposits are as permeable as others and subsequently they vary as sources of ground-water. Ground-water supplies in the study area are obtained principally from stream and terrace deposits. Almost all wells penetrating these deposits are located in the lowlands. The bedrock, exposed in the uplands and consisting of consolidated sedimentary rocks and volcanic rocks of Tertiary age, produce little water.

\*Information for this section comes from two documents: Water Supply Bulletin No. 30-Preliminary Investigation of the Geology and Ground-Water Resources of the Lower Chehalis River Valley and Adjacent Areas' by Paul A. Eddy, Washington Department of Conservation, Olympia, Washington, 1966; and Water Resources of Southwest Washington/Southwest Washington River Basins Study, Washington State Department of Ecology, June, 1972.

#### TERTIARY DEPOSITS

Consolidated bedrock of Tertiary age consist chiefly of sandstone, shale, and mudstone with smaller areas of volcanic flows and breccias. Owing to their dense and extremely impermeable character, the volcanic rocks are not important as aquifers and no wells in the report area are known to develop adequate supplies of ground-water from these rocks. Very few wells have been drilled into the other, sedimentary rocks of Tertiary age. Only one well penetrating these deposits has apparently obtained water from them. The well, about 5 miles north of Satsop, is 159 feet deep and yields only 30 gallons per minute (gpm). Development of any large water supplies is doubtful and the availability of domestic-scale supplies is often very low since the water occurs largely in fracture zones that are very limited in extent or is "connate" (i.e., it was deposited or "born" with the Tertiary deposit).

#### ICE AGE TERRACE DEPOSITS

These Ice Age glaciofluvial deposits are found along the edges of all rivers in the study area except North River. They are highly permeable but usally occur above the regional water table. However, where these terrace deposits occur in considerable thickness and do extend beneath the level of the regional water table, moderate supplies (40-100 gpm) of ground-water may be obtained. This supply level is generally sufficient for domestic use.

#### RECENT DEPOSITS

The primary areas for the recent deposits are the major stream valleys. This unit has a thickness ranging from a few feet to as much as 200 feet in the Chehalis River Valley. These unconsolidated materials consist of silt, sand, and clay in the upper portions with sand and gravel in the basal portion.

Generally, sand and gravel alluvium in the Chehalis River Valley yield larger quantities of ground-water than does the alluvium of the tributary valleys. Within the former valley, wells tap two distict aquifers. The upper, which generally extends to a depth of 100 feet, supplies adequate water though it reportedly is high in iron content and may require treatment before human consumption. The lower aquifer, generally below

100 feet, supplies large quantities of water of excellent quanity. Yields range from 200 to 3,000 gpm.

Ground-water is obtained primarily from one aquifer within the valleys tributary to the Chehalis. The aquifer occurs in the shallow reworked gravels in alluvium. Yields are not as great as from the Chehalis aquifer but in places quantities up to 200 gpm have been reported.

Once again, the North River valley is somewhat different. Porosity and permeability of the alluvium deposit there are not excessively high and yields to the wells in the area are generally low. Low-density rural development there probably could be supported with local ground-water supplies. However, much of the area is within the agricultural designation of the Agricultural Study Committee and much of the remaining area within the rural lands study in North River is out of the river valley and on the Teritary uplands where ground-water potential is very low.

#### IV. FLOODPLAINS

Floodplains are an inseparable part of any river basin for, when river flows exceed the volume of the main river channel, the floodplain carries that excess. Great volumes of water can course across land that only days or hours before was safe and dry. And this is the great danger of floodplains: during the majority of the year, they seem to be attractive development sites—flat, picturesque, and stable. People build their homes and businesses there only to lose them (and perhaps their lives) in the following winter floods. Of all the natural hazards, flooding is the most costly to both the citizens living in the floodplains and to the general taxpayer who foots the bill for relief action and the reconstruction of public facilities; flood losses today total nearly \$3 billion annually. For this reason, the location and extent of flood plains is an important consideration in this rural lands study.

When discussing floodplains, the usual term used is the 100-year floodplain. This refers to the area of ground covered by the flood that has a one percent (1%) chance of occurring in any particular year or once in any one-hundred year period. This flood, although based on facts such as historical flooding, average rainfall, and volume of river channels, is theoretical and refers to probability of occurrence; it could happen two or three years in succession. It is these areas with which this report is concerened. All rivers and streams have floodplains, and, generally, the bigger the stream, the larger the floodplain. Not surprisingly then, the largest floodplain in the study area is associated with the Chehalis River, averaging between one and one-and-a-half miles wide. However, significant floodplain area is found in all major stream valleys in the study area. On the whole, these areas correspond to the Quaternary alluvium formation discussed in the section on geology.

The greatest part of local floodplains are not within the rural lands study. Most of them have been designated agriculture by the Agricultural Study Committee and are thus not under the direct scrutiny of this study. This is particularly ture of the floodplains of the main rivers of the area—the Chehalis, Wynoochee, Satsop, and Mox Chehalis—and Black, Porter, and Garrard Creeks. However, many of the smaller floodplains are within designated rural lands. For example, upper Black Creek, Delezene Creek, Cloquallum Creek, upper Mox Chehalis, Rock Creek, William Creek, and parts of the North River valley.

Because of the dangers of development within floodplains and the cost to taxpayers of flood relief, the Federal government is instituting a program of National Flood Insurance. The essence of this program is that, within designated 100-year floodplains, floodplain zoning (with use regulation and building standards consistent with the goals and requirements of the Nation Flood Insurance Program) is required before flood insurance can be granted to new developments and before any Federal grants on federally-insured loans can be given for any developments within these floodplains. The County has adopted a Flood Plain Zone which contains these provisions.

# REPORT #3 SOIL SUITABILITIES, STORMWATER RUNOFF, and RIVERBANK EROISON

#### RURAL LANDS STUDY

REPORT #3: SOIL SUITABLITIES, STORMWATER RUNOFF, AND RIVERBANK EROSION

#### I. INTRODUCTION

This is the second of two reports which explore some aspects of the natural environment important for this rural lands study. The first, Report #2, considered geology, groundwater resources, and floodplains. This report will discuss information based upon the Soil Conservation Service's soil surveys: septic tank suitability, slope, and prime farmlands. In addition to these soil based characteristics, this report will discuss stormwater runoff and riverbank erosion.

Soils are the result of environmental processes—climate, floods, erosion, vegetation—working on the geological "parent" material. Thus they reflect both the nature of these processes and the composition of the parent material. As was shown in Report #2, the latter provides the most basic differentiations of soil characteristics within the study area. The three general geological formations—Tertiary bedrocks, Ice Age glaciafluvial deposits, and recent (Quaternary) alluvium—are associated with groups of many varied soil types but with certain general similarities running through them. This report will first discuss three soil—related qualities: septic tank suitability, slope, and prime farmlands.

This report will utilize the soil survey information developed by the Soil Conservation Service. In reviewing these soil classifications, several important points must be noted. First the classifications are general and should never be used as a subsitute for on-site inspection. Within a general area designated as poor quality for a particular concern may be sites of good quality and, conversely, within an area designated as having better qualities may be sites of poor quality. In spite of this qualification, soil surveys are useful to indicate general capability and "probabilities." As such, they can be used for planning since they will be indicators of the level of development a general area can readily support. Second, these classifications categorize soils by their degree of limitations for various purposes. These limitations are not, as sometimes thought, absolute barriers for these purposes but only indicators of what will be required to overcome these limitations or the degree of problems that might be encountered. Soils with severe limitations require more effort or expense to use for a purpose than soils with moderate limitations. Third, soils and the science of evaluating them is incomplete and soil surveys are continually updated. Consequently, soil maps are subject to revision from time to time.

#### II. SEPTIC TANK SUITABILITY

One important characteristic of soils for this study is each soil type's capacity to support a functioning septic tank waste disposal system. Since zoning is concerned with protecting the public health, directing higher density residential development to areas where septic tanks would work best and pose the least threat to health is a proper concern for any planning study. It is also useful for a planning commission, through planning, to direct developers and citizens to areas where development costs or problems may be expected to be lower. Lands with a poor suitability for septic systems usually require larger average lots and/or a system specially designed to overcome the soil's poor suitability for septic tanks. Both of these measures increase development costs (or if ignored can create health problems).

The Soil Conservation Service (SCS) rates each soil type in terms of its limitations for septic tank filter fields—slight, moderate, and severe. In rating the soils, SCS assumes the lot will be less than one acre in size. Principally, three soil characteristics determine this rating: permeability (the more permeable the better unless the soils are so permeable unpurified waste will filter into surface or groundwater), wetness (a high water table may lead to surface and groundwater contamination), and depth to bedrock (greater depth gives more volume of earth in which waste purification can occur).

The greatest part of the study area is rated severe and those

areas rated moderate or slight are found primarily on the glaciafluvial and recent alluvium deposits found in the river valleys as noted in the second report. The surrounding hills, with very few exceptions, are poor sites for septic tanks. Within the rural lands of this study (those not in forest, agricultural, or urban service areas), there are only a few pockets of "slight or moderate" soil types. These pockets are found along the Cloquallum (scattered sites), around the edges of South Union, on the upper reaches of the Mox Chehalis, north and northeast of McCleary, near Garden City, at the northern end of the West Satsop Road, directly south of Oakville, scattered in South Elma, and near the Fuller-Keyes Road. Again, the vast majority of rural land is rated severe.

#### III. SLOPE

Slopes limit land use by increasing the costs of development and, often, increasing maintenance costs. Building on slopes requires more site preparation and more extensive foundations. Public facility costs are usually increased. Roads are the primary public facility in rural areas and high slopes significantly increase the cost of both road construction and road maintenance.

The Rural Lands Study is concerned with slope because of the additional costs and hazards associated with development on slopes and the difficulty for areas with higher slopes to support higher densities.

In classifying soil types, the Soil Conservation Service considers slope to be a major determining factor. Each soil type has a characteristic slope on which it is found. From the Soil Conservation Service's soils information, staff has developed a slope map of the study area. Three classifications of percentage of slope are commonly used: 0-4 percent slopes, 5-14 percent slopes, and 15 or more percent slopes. Slopes of 0-4 percent are quite flat, and unless other problems are present, are easy to build on. Slopes of 5-14 percent can cause moderate increases in development costs. Slopes of greater than 15 percent can be quite expensive to build on. A slope of 15 percent has a rise of 1 foot for each 6.6 feet of horizontal travel, a fairly steep slope.

As was noted in the Geology Report, most level areas within the Rural Lands Study area are found on Quaternay terrances and alluvium. Areas of level and moderately sloping land are also found on the Pleistocene deposits. The steeper slopes are located on the slopes of the hills formed by the eroded teriary bedrock.

Major expanses of level land are found east of Montesano; west and east of Elma; in South Union; along Cloquallum Creek; west, south, and north of McCleary; along the Mox-Chehalis; along Delezene and Cedar Creeks.

Moderate slopes are found on the hills north of Elma; east of Cloquallum Creek; in South Elma; between South Union and the Mox-Chehalis; and scattered among the steep slopes north of Oakville. The steep slopes are located in the hills surrounding the river valleys.

#### IV. PRIME FARMLANDS

The first two soil qualities discussed in this report delineate limitations, prime farmland delineates potentials—the potential of land to be successfully farmed. Prime farmlands is a classification developed by the Soil Conservation Service to determine the best available farmlands. Prime farmland is defined as:

...land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops, and is also available for these (the land could be cropland, pastureland, rangeland, forest land, or other land, but not urban built-up land or water.)\*

In determining which soils are prime farmland the Soil Conservation Service uses a wide variety of technical criteria including potential yield, drainage, if the land is flooded during the growing season, length of growing season, the soils physical and chemical makeup.

Prime farmlands are important to the Rural Lands Study because they identify areas particularly suited to a specific use--farming. In developing recommendations to the County Planning Commission and County Commissioners the Agricultural Study Committee included those prime

<sup>\*</sup>Secretary of Agriculture Bergland's Memorandum No. 1827, Revised, Appendix "Definitions."

farmlands in or near existing farm areas within the agricultural zones. The Study Committee also recommends those prime farmlands currently in forestry use be protected from conversion to intensive residential, commercial, or industrial uses because of their future agricultural value.

In the study area those prime farmlands not included in the agricultural zones and in forestry use are located along the Black Creek area, the Upper West Fork of the Satsop River, along parts of the Middle Fork of the Satsop, Workman Creek, Delezene Creek, Rock Creek, Williams Creek, Cedar Creek, and scattered areas along the Mox-Chehalis River.

#### V. STORMWATER RUNOFF

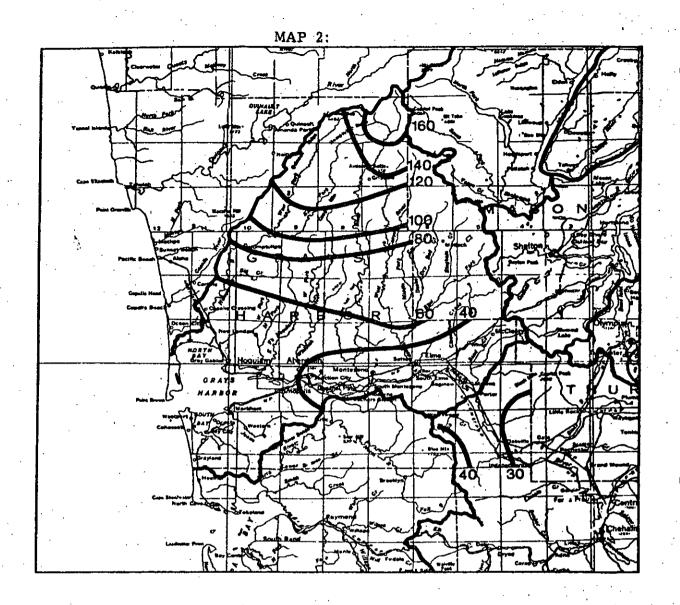
The high annual rainfall in Grays Harbor County results in a high level of stormwater runoff. The average annual stormwater runoff generated by the rain is shown on Map 2. In developed areas a higher percentage of rainwater is discharged as stormwater runoff, than for a comparable undeveloped area. Roofs, roads, and other impermeable surfaces do not absorb water as does natural vegetation. Stormwater runoff from developed areas is also more rapid. Forest litter and ground covers, such as grass and shurbs, slow the movement of stormwater. Roads and other impermeable surfaces tend to speed up water flow.

Stormwater runoff is of concern in this Rural Lands Study for several reasons. Stormwater runoff can flood and erode neighboring properties, causing extensive damage. Stormwater runoff also becomes contaminated as it flows over building surfaces and roads. Contaminated stormwater is a significant source of water pollution.

Increased development will result in increased stormwater runoff unless appropriate controls are developed. In reviewing the planning and zoning of rural lands, the potential of those lands to generate and accommodate stormwater runoff should also be considered and measures may need to be taken to help reduce the potential runoff.

#### VI. RIVERBANK EROSION

A study conducted for the Grays Harbor Regional Planning Commission in 1974 estimated nearly 44 acres of land are lost from riverbank



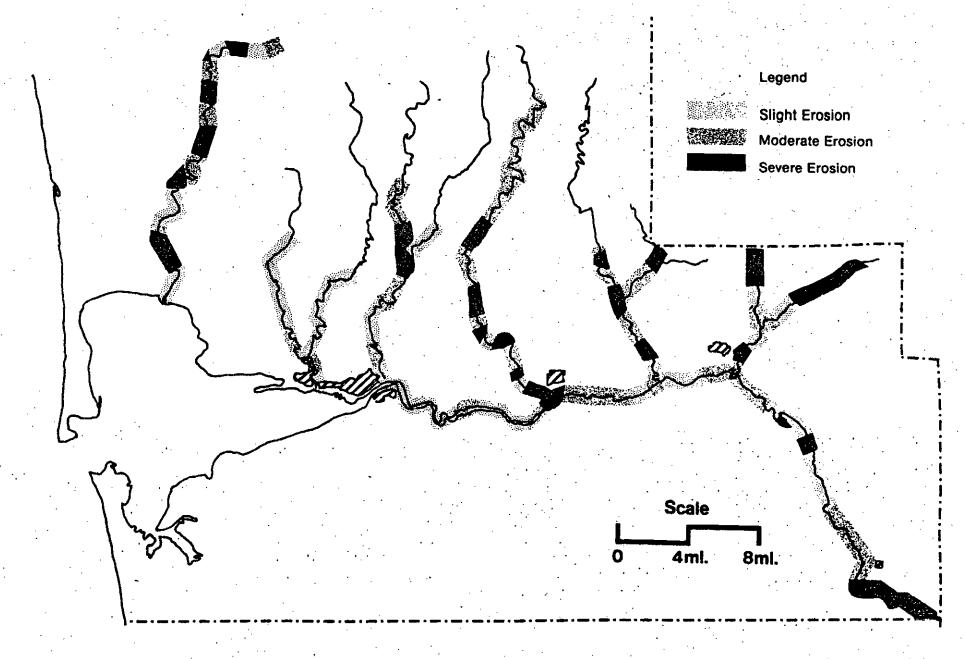
# INCHES MEAN ANNUAL RUNOFF

erosion each year in Grays Harbor County. Riverbank erosion results from rapid rises in river levels after periods of heavy rains. These floods erode land and undermine roads and bridges. The 1974 Grays Harbor Erosion Management Study estimated annual erosion caused damage to land and strutures at \$140,000. This figure includes both the private costs of lost land and buildings and the public costs from damaged bridges, roads, and other public facilities.

The Grays Harbor Erosion Management Study inventoried riverbank etosion along the Chehalis, Wynoochee, Satsop, Wishkah, Hoquiam, and Humptulips Rivers and Cloquallum and Wildcat Creeks. The erosion sites were classified as having slight erosion, moderate erosion or severe erosion, based on the degree of erosion (severe erosion of 4 to 8 feet per year, moderate erosion of 2 to 5 feet per year, and slight erosion of less than 1 foot per year), economic considerations (such as threats to valuable land or structures), environmental considerations and social considerations (such as loss of public facilities, utilities, roads, and bridges).

The map of "Generalized River Erosion Priority Areas" displays the results of this classification. Of special note is the moderate erosion along the Satsop River and the severe erosion along the Upper Wildcat and Cloquallum Creeks.

The <u>Erosion Management Study</u> recommendations include the development of standards to protect against modifications to the river channel and banks which may increase erosion, controls designed to limit construction in the floodways thereby reducing erosion damage, and to plan for uses adjacent to actively eroding riverbanks which will minimize erosion and potential damage.



MAP 3: Generalized River Erosion Priority Areas

REPORT #4:
EXISTING LAND USE and LAND USE TRENDS

### RURALS LANDS STUDY

# REPORT #4: EXISTING LAND USE AND LAND USE TRENDS

#### I. Introduction

The three preceding rural lands reports have discussed where existing plans encourage land uses to occur, where natural hazards limit land uses, and where natural suitabilities encourage land uses. This report will consider the actual land use patterns and the trends affecting those patterns.

### II. Existing Land Use

The dominate land use within East Grays Harbor County is forestry. Forest lands occupy the slopes and hills adjacent to the river valleys. Although many of these forest areas are classified as "remote commercial forest lands" and excluded from the rural lands study area, many of the hills and slopes, along with some benches and river bottoms, within the study area are in forestry use.

The fertile river bottoms in the study area are primarily used for farming. The Chehalis River Valley from Montesano east and south past Oakville to the Thurston County line is heavily farmed. Farming activity is also located in the Wynoochee, Satsop, Mox-Chehalis, and North River Valleys. In addition to the valley floors, farming also occurs on the adjacent benches, hills, and terraces.

Residential land uses are primarily located in the cities, towns, rural development centers, and along the roads between Montesano and McCleary. The highest concentrations of housing and population are found in Montesano, Elma, McCleary, and Oakville. Residential uses are also centered around the rural settlements of Brady, Satsop, South Elma, Porter, Malone, and White Star. In recent years residential uses have tended to fan out into the more rural areas along the roads.

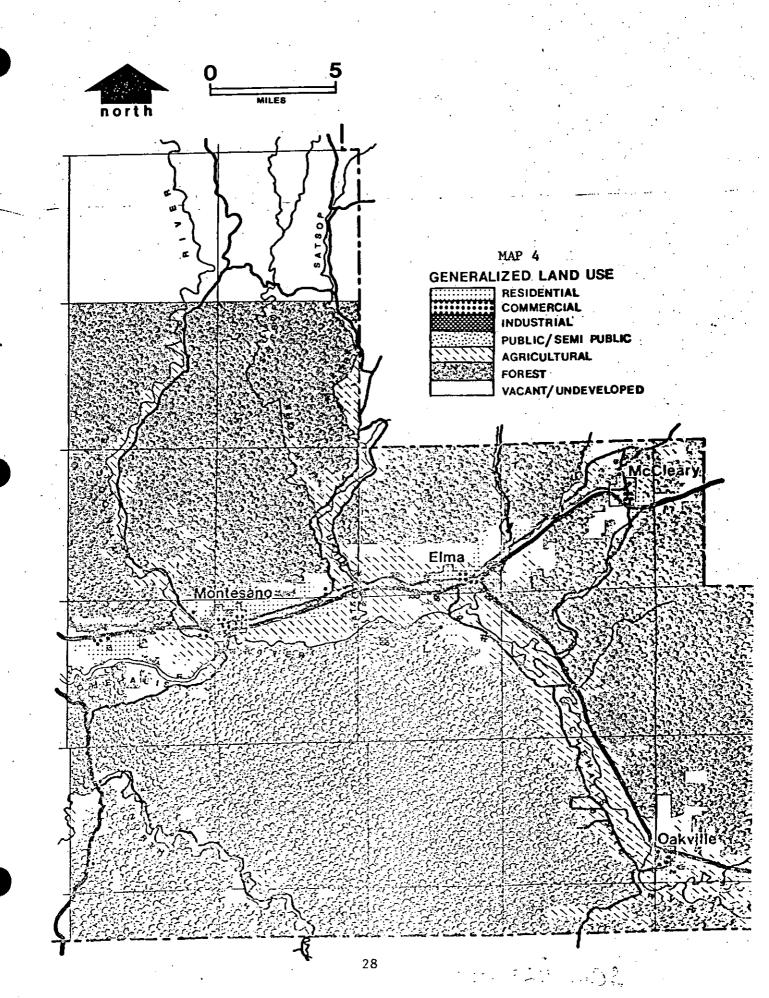
Commercial land uses are primarily located in the cities and towns and too a lesser degree the rural settlements. Commercial uses are also locating south and west of Montesano, west of Elma along Schouweiler Road, and west of McCleary.

Like commercial uses, industrial uses tend to locate in or near cities and towns. In addition to those industrial uses located in the incorporated areas, industrial uses are found south-east of Elma and at White Star (often called

Whites). In addition, shingle and shake mills are found throughout the study area.

Map 4 displays the generalized land use pattern for East Grays Harbor. County. The map is based on the annual land use surveys conducted by the staff of the Grays Harbor Regional Planning Commission.

# EASTERN GRAYS HARBOR COUNTY



#### III. Land Use Changes

The land use patterns in eastern Grays Harbor are not static, but have been changing over the years. Land use changes and development activities follow a logical sequence of events through obtaining proper zoning for an anticipated use, partitioning land for sale and obtaining a building permit. Of course, not all of these particular steps are required for every development or for any particular development or land use. This section will discuss the regulatory and land use changes that have occurred in east Grays Harbor County.

### 1. Zoning Activity

### 1.1 Zone Changes (Rezones)

Between 1973 and 1981 nearly 70 percent of all zone changes approved for unincorporated Grays Harbor County were granted for properties located in east Grays Harbor County. (For the purpose of this report Central Park is not included in east Grays Harbor County). Figure I compares the total rezones granted with the rezones granted for lands located in east Grays Harbor County for the 1973-1981 period. As the graph shows, most of the approved rezones were located in east Grays Harbor County.

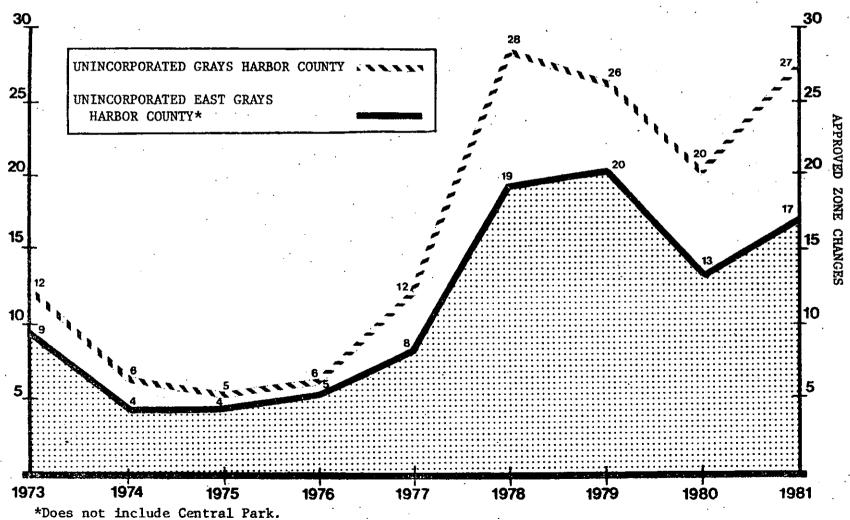
The level of approved rezones declined between 1973 and 1975, then rose dramatically peaking in 1978 for the entire County and in 1979 for east Grays Harbor County. Rezones declined significantly in 1980 and then increased in 1981.

A concentration of zone changes can indicate not only an increased level of development, but the need to review the plans and zoning for the area to assure adequate land is available for various uses and that adequate protection is being provided.

Map 5 displays the location of the approved zone changes in unincorporated Grays Harbor County for the years 1975 and 1976, 1977 and 1978, 1979 and 1980, and 1981. The rezones have been concentrated around Elma, Satsop and McClea

Figure 2 analyzes the approved rezones in unincorporated east Grays Harbor County for the years 1973 to 1979 inclusive. The greatest impact of the rezoning activity has been to remove land from the agricultural district. Over 65 percent of the rezones were from the agricultural district to more intense zones. Rezones from residential to other zones ran a distant second. During the same period 26 percent of the rezones were from residential to other zones.

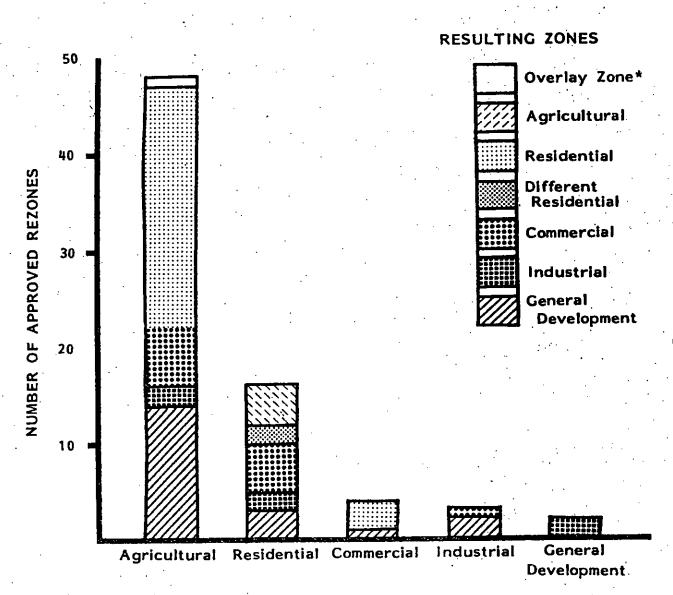
# FIGURE 1 APPROVED ZONE CHANGES (REZONES) TOTAL UNINCORPORATED GRAYS HARBOR COUNTY COMPARED WITH UNINCORPORATED EAST GRAYS HARBOR COUNTY 1973-1981



\*Does not include Central Park.

SOURCE: Monitoring Tables GH-T.9.48, 10/80 and GH-T.9.7, 4/82 (U).

# FIGURE 2 APPROVED ZONING CHANGES 1973-1979 UNINCORPORATED EAST GRAYS HARBOR COUNTY

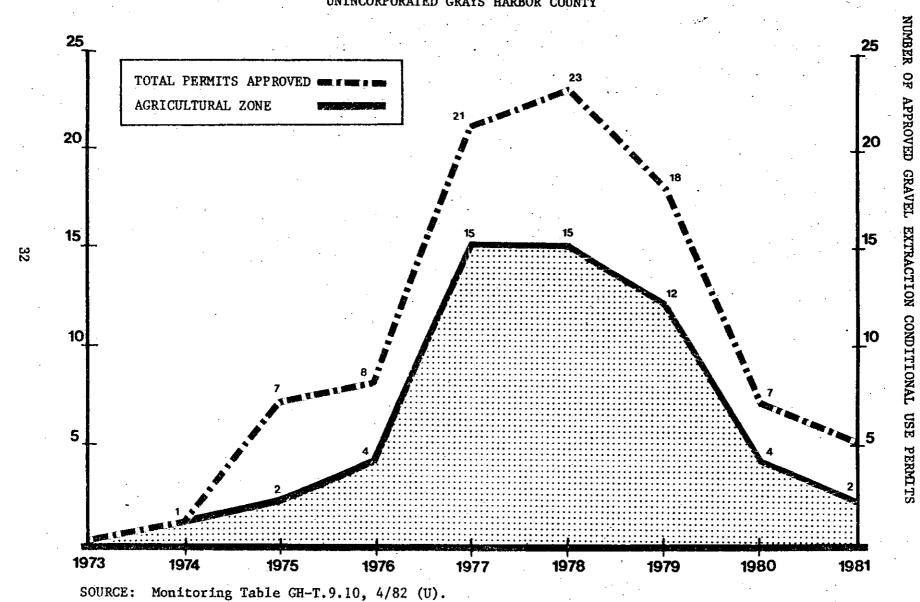


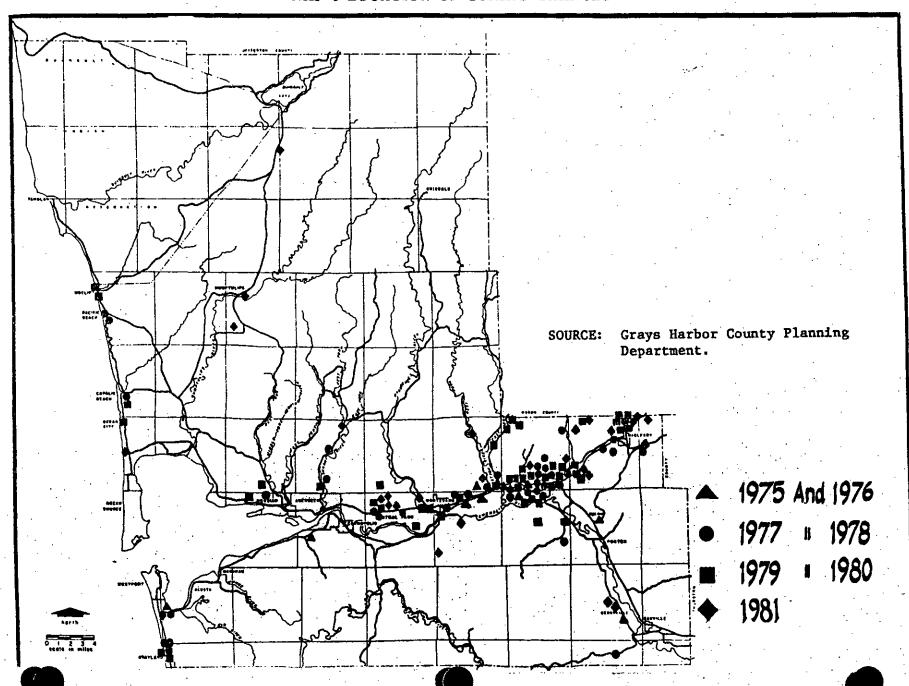
### ORIGINAL ZONING

\*This is a special overlay zone permitting the Elma Airport.

SOURCE: Monitoring Project Table GH-T. 32. 9. 37, 4/80.

FIGURE 3
CONDITIONAL LAND USE PERMITS APPROVED FOR GRAVEL EXTRACTION
TOTAL PERMITS COMPARED WITH PERMITS APPROVED
FOR LAND ZONED AGRICULTURAL
1973-1981
UNINCORPORATED GRAYS HARBOR COUNTY





### 1.2 Conditional Land Use Permits

Like rezones, the majority of conditional land use permits approved between 1973 and 1981 were in east Grays Harbor County.

As Table 1 illustrates, most of the conditional land use permits approved in east Grays Harbor County have been for gravel extractions and mobile home parks. Gravel extraction alone accounted for 64.2 percent of the conditional land use permits approved between 1973 and 1981. Map 6 shows the distribution of the gravel extraction conditional land use permits. Gravel extraction permits are concentrated in the Wynoochee River Valley, around Elma, and east of McCleary. As Figure 3 shows, most of the permits for gravel extraction have been granting for lands zoned agricultural, increasing the conversion of agricultural land to other uses.

TABLE 1
APPROVED CONDITIONAL LAND USE PERMITS
UNINCORPORATED EAST GRAYS HARBOR COUNTY
1973-1981

•	Gravel Extraction	Recreational Parks	Vehicle Other	Total
1973	-	1	<b>~</b> ,	1
1974	1	2	· <u>-</u>	3
1975	5	2	3	10
1976	7	4	· _	11
1977	18	1	3	22
1978	17	3	3	23
1979	13	1	4	10
1980	4	2	4	10
1981	3	1	4	<b>8</b> _ :
Total	68	17	21	106
Percent of Total	64.2	16.0	19.8	100%

Mobile Home/

SOURCE: Monitoring Project Tables: GH-T.9.8, 4/82 (A) and GH-T.9.49, 10/80.

#### 1.3 Variances

Variances are the only category of land use permit in which east county does not lead the rest of the county. Table 2 compares the variances approved in east Grays Harbor County with the variances issued for other areas of the county by year.

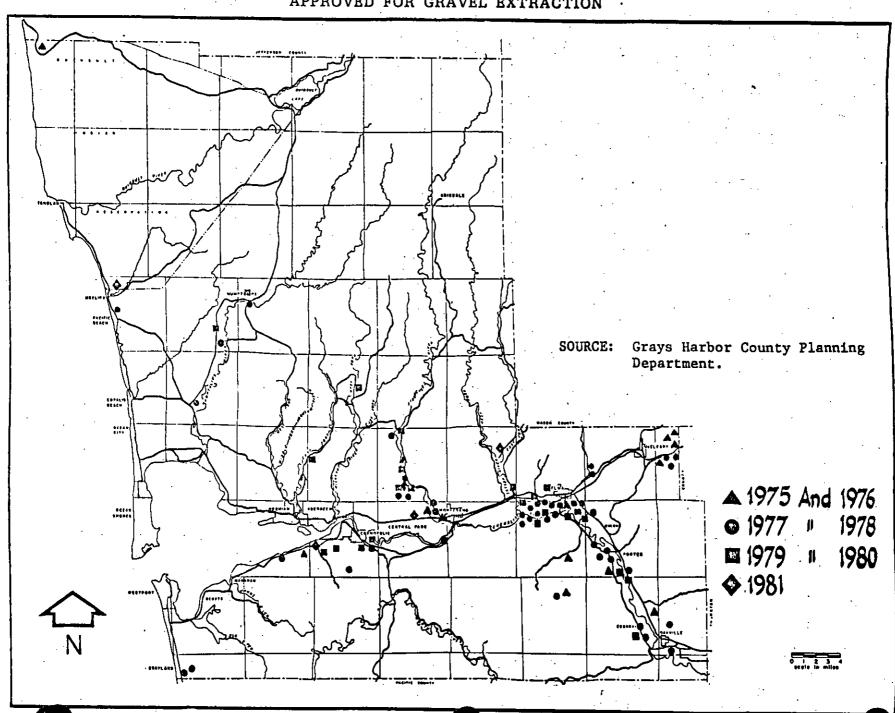


TABLE 2
APPROVED VARIANCES
UNINCORPORATED GRAYS HARBOR COUNTY

		East County	Other Areas	County Total
1973	•	1	6	7
1974		1	2	3
1975		10	5	15
1978		4	9	13
1977		3	12	15
1978		13	<b>13</b>	2.7
1979		8	19	. 27
1980		10	21	31
1981		13	23	36
Total		63	111	174

SOURCE: Monitoring Project Tables: GH-T.32.9.41, 4/80 and GH-T.9.11, 4/82 (A).

2. Land Division Activity

There are two mechanisms by which land can be partioned for sale or development: subdivision and short plating. Subdivision is the division of a parcel into five or more lots. Short plating is the division of land into four or fewer lots. This section will discuss the recent trends in subdivision and short plating.

In Grays Harbor County divisions of land with a minimum lot size for each resultant lot of five or more acres are excempt from the subdivision and short plating procedures. Divisions of this type have increased in recent years, especially in the General Development Zone. Data on the exempt divisions is not readily available. One indication of these divisions is the size of parcels in an area. Many lots in an area close to five acres in size indicates that exempt subdivisions of land have taken place. Study of the size of existing parcels can also increase our understanding of ownership patterns and the appropriateness of minimum lot size provisions in the zoning ordinance. This section will also briefly discuss the findings of the "parcelization" map.

### 2.1 Subdivision Activity

For various reasons that are not completely understood subdivison activity has been low in Grays Harbor, both in the number of subdivisions and the average number of lots created. Table 3 displays the number of subdivisions and lots recorded between 1973 and 1981. Map 7 shows the location of the subdivisions recorded since 1975.

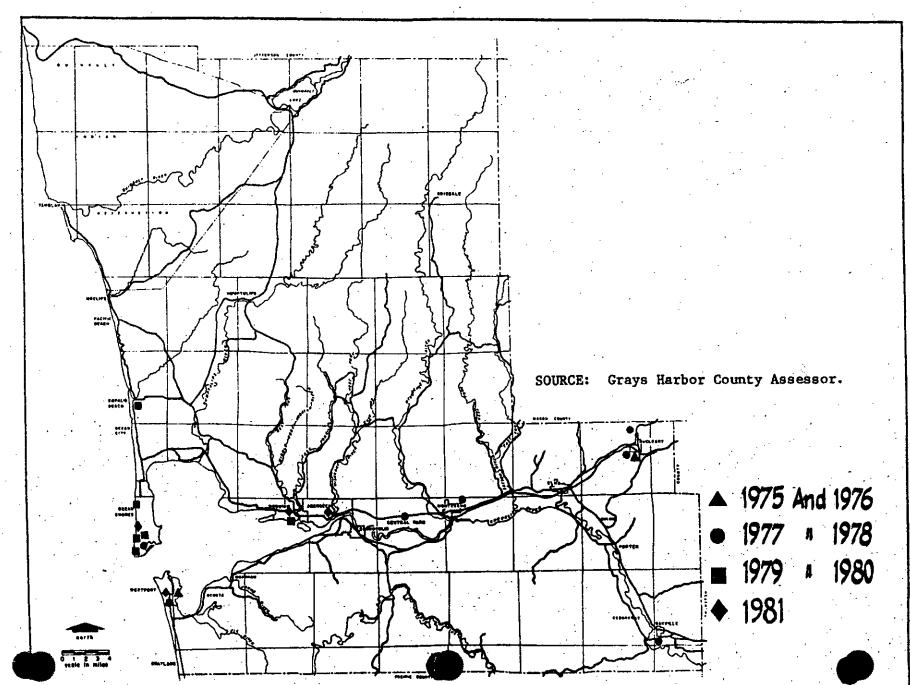


TABLE 3

## RECORDED SUBDIVISIONS (EXCLUDING CONDOMINIUMS) GRAYS HARBOR COUNTY\*

	East Co Number of Subdivisions	Number of	Remainder of Number of Subdivisions	Number of	County Number of Subdivisions	Number of
1973	0	0	. 3	52	3	52
1974	0	0	0	0	0	0
1975	1	10	0	0	1	10
1976	0	0	1	13	1	13
1977	0	0	0	0	0	0
1978	4	5 <b>3</b>	2	23	6	76
1979	0	0	<b>5</b> .	56	5	56
1980	. 1	<b>31</b>	. 1	18	2	49
1981	0	0	1	40	1	40
Total	6	94	13	202	19	296

<sup>\*</sup>Includes all cities and towns.

SOURCE: Monitoring Project Table: GH-T.32.9.35, 4/80 and GH-T.9.1, 4/82 (A)

Prior to 1977, most subdivisions had occurred in the beach areas of the county. In 1978 four of the six subdivisions were platted in east county. In 1979 the pattern was reestablished with no subdivisions recorded in east county, one recorded in Hoquiam and four recorded in the beach areas. In 1980 and 1981, all subdivisions was approved in east county and two others recorded in the beaches. Several subdivisions are currently pendeing in Grays Harbor County.

### 2.2 Short Platting Activity

As Table 4 shows the number of short plats has increased rapidly since 1975. The east county area has had both the largest number of short plats and the greatest rate of increase in the county. Map 8 illustrates this trend. Short platting is centered along the lower Wynoochee River Valley, east of Montesano, around Elma and McCleary. Since the requirements and standards for short plats are lower than for subdivisions, the reliance by potential developers on short platting rather than subdivisions indicates lower quality lots are generally being created.

### 2.3 Parcel Size

Most parcels within the Rural Lands Study Area are large, with a average minimum lot size of well over ten acres. Ownerships of quarter-quarter sections are relatively common. Concentrations of smaller parcels, of five or less acres, are found east and north of Montesano, west and east of Elma, and west of McCleary.

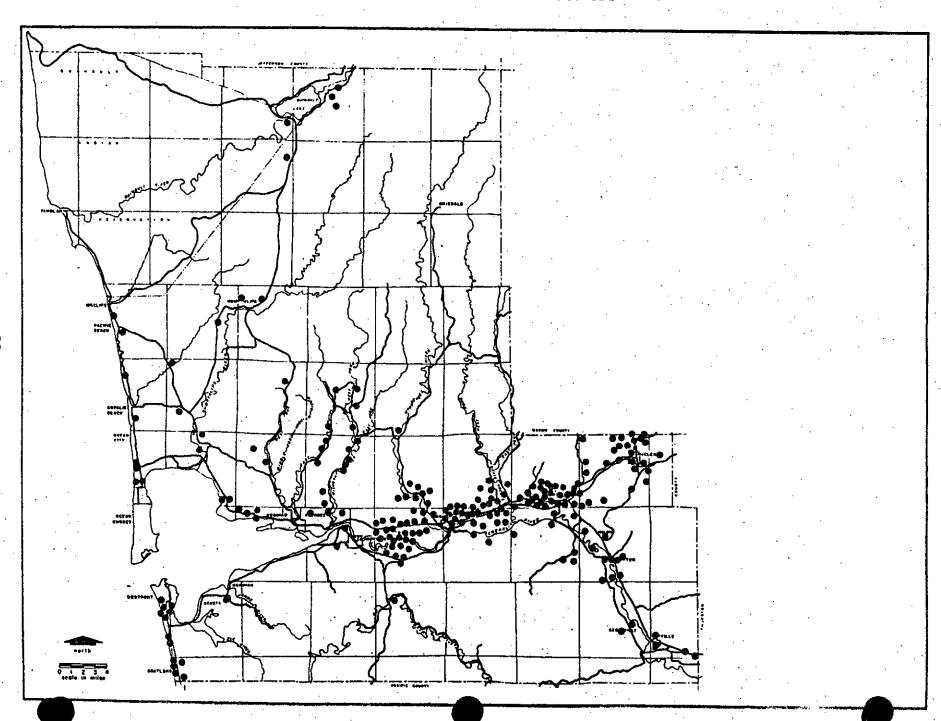


TABLE 4
RECORDED SHORT PLATS
GRAYS HARBOR COUNTY\*

	East Co Number of M Short Plats	•	Remainder of Number of N Short Plats		County Number of Short Plats	
1975	5	12	7	23	12	35
1976	9	20	4	12	13	32
1977	13	33	14	40	27	73
1978	21	61	15	33	36	94
1979	27	82	11	30	38	112
1980	25	72	14	38	39	110
1981	27	75	27	76	54	151
Total	127	355	92	252	219	607

<sup>\*</sup>Includes all cities and towns.

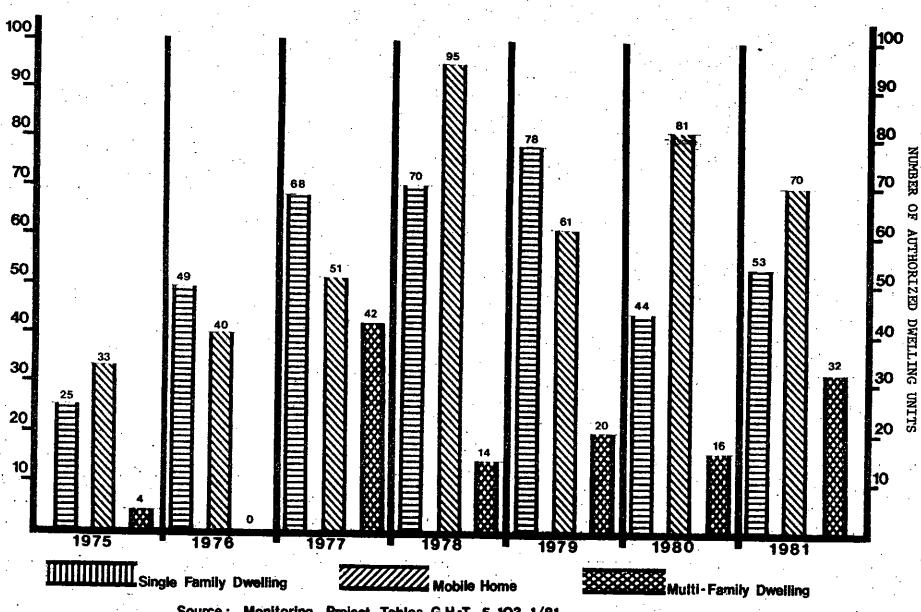
SOURCE: Monitoring Project Tables: GH-T.32.9.36, 4/80 and GH-T.9.4, 4/82 (A).

### 3. Building Permit Activity

After the proper zoning has been secured and the land partioned, a building permit is the next step in the development process. In east Grays Harbor County the number of residential building permits rose dramatically between 1975 and 1977, declining in 1978 through 1980. During the 1975-1981 period, 65.4 percent of the residential building permits issued in east county were fof the unincorporated areas. More building permits have been issued for unincorporated east county than the incorporated areas each year since 1975. The greatest growth occurred in the unincorporated areas around Elma and Montesano. Table 5 compares the building permits issued for the various parts of Grays Harbor County.

Single family dwellings and mobile homes make up the bulk of the building permits issued in unincorporated east Grays Harbor County. Between 1975 and 1981, inclusive, 387 permits were issued for single family dwellings and 431 permits were issued for mobile homes. During the same period permits were issued for 128 units of multi-family housing. Graph 4 shows the number of permits issued for each structure by year in unincorporated east county. Single family building permits led mobile home building permits for three years and mobile home permits led single-family permits for four. Note that a third of the permits for multi-family units during the seven year period were issued in one year-1977.

FIGURE 4
AUTHORIZED DWELLING UNITS BY TYPE
UNINCORPORATED EAST GRAYS HARBOR COUNTY



Source: Monitoring Project Tables G H-T. 5.103,1/81 G H-T. 5.1.4/82 [A]

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TABLE 5 AUTHORIZED NEW DWELLING UNITS **GRAYS HARBOR COUNTY** 1975-1981

•		4000	4.000		1070	1000	1054	1975- 1981
	<u> 1975</u>	<u>1976</u>	1977	1978		1980	1981	Total
Montesano City	17	8	48	32	18	5	32	160
Montesano Unincorporated Area	14	33	67	43	39	50	-50	296
Elma City	12	26	71	14	47	8	59	237
Elma Unincorporated Area	-24	27	58	74	59.	41	52	335
McCleary City	16	9	17	20	5	8	0	75
McCleary Unincorporated Area	5	7	9	24	37	16	19	117
Oakville City	N/A	4	2.	. 8	- 7	6	2	29
Oakville Unincorporated Area	13*	13	19	25	18	21	15	124
Satsop	6	9	8	13	6	13	19	74
Incorporated East County Total	45	47	138	74	·77	27	93	501
Unincorporated East County Total	62*	89	161	179	1.59	141	155	946
Total East County	107	136	299	253	236	168	248	1,447
Urban Area**	221	220	318	320	154	108	111	1,452
Beach and Other Areas	100	153	256	335	351	230	171	1,596
TOTAL COUNTY	428	509	873	908	741	508	530	4,495

<sup>\*</sup>Includes Building Permits for the City of Oakville for 1975.
\*\*Includes Central Park.

SOURCE: Monitoring Project Table: GH-T.32.5.81, 4/80 and GH-T.5.1, 4/82 (A)

### 4. Actual Land Use Changes

Zoning and land division actions do not automatically lead to an actual change in use. Consequently, such actions are only an indication of where land use change might occur in the future, and other information is needed to access the actual change that is occurring in the area.

In 1977 all land uses were inventoried in areas where settlement patterns were focused in east county. These original inventory areas are identified on Map 9. This inventory was then updated in 1978, 1979, 1980, and 1981. Thus, all changes can be identified by comparing these inventories. The expanded areas, also shown on Map 9 were inventoried for the first time in 1980 and noted all changes from base information taken from 1977 aerial photographs.

Table 6 tabulates the acres of land use change identified in this process from 1977 to 1981. Within the inventoried area, a total of 1,203 acres changed use. Table 7 tabulates the number of land use changes that have occurred, a total of 1,230. The most significant new use is residential, comprising 43% of the total acres changed and 83% of the total number of changes. The most frequent type of new residential use is classified as low density. In all inventoried areas, a total of 966 changes, comprising 468 acres, created new low density residential uses. Of the total area inventoried, 202 acres changed to low density residential use which had been forest lands, 148 had been vacant (i.e. not in an identifiable use) and 116 acres had been in agricultural uses.

New industrial uses constituted 31% of the total changes in acres. Out of the total 370 acres which changed to industrial use, 330 acres or 89% of the total are now used for gravel pits. The land now used for gravel pits was originally in forest (172 acres), agricultural uses (154 acres), and vacant (14 acres). With the exception of public/semi-public uses (11%), and agricultural uses (8%), all other new uses (commercial, vacant, and forest) amounted to 6% or less of the total new use of acreage. The west laydown area for the Satsop Power Project accounted for 100 acres of the 128 total acres changed to public/semi-public use. Almost all new uses occur on land previously classified as forest, agricultural, or vacant land. The amount of forest land lost to development was 576 acres, accounting for almost half of the total. Development occurred on 352 acres of former agricultural land (29%) and on 220 acres previously classified as vacant (18%).

Tables 8 and 9 give the general distribution of all land use change by acres and units in the inventoried areas. Map 10 graphically compares

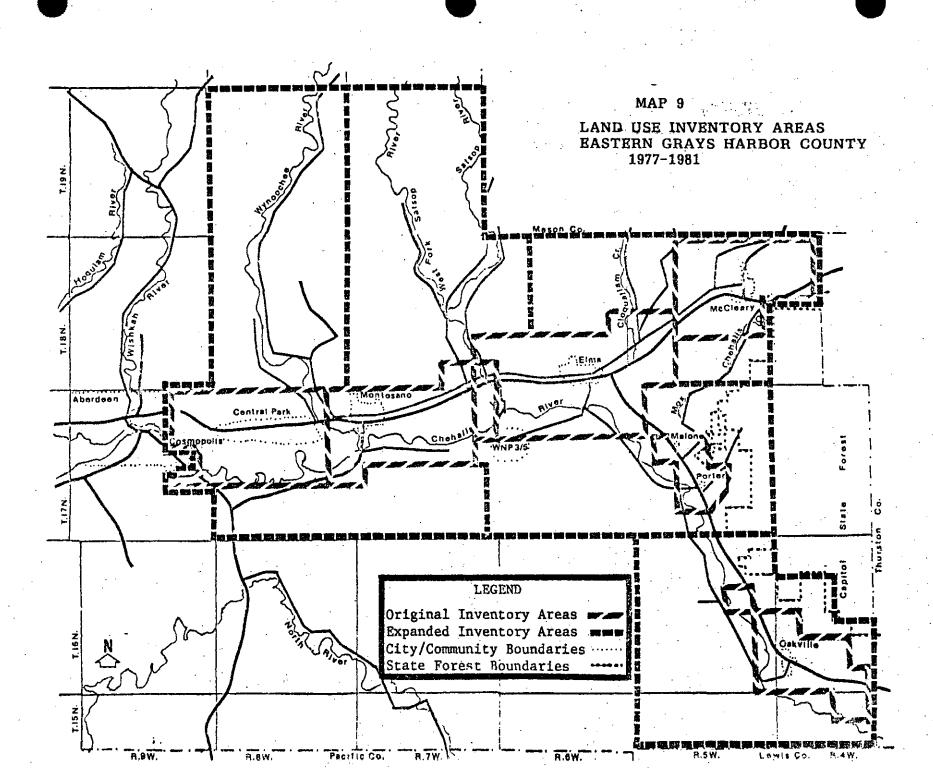


TABLE 6

TOTAL ACRES OF LAND USE CHANCES-ORIGINAL AND EXPANDED INVENTORY AREAS
EASTERN GRAYS HARBOR COUNTY
1977-1981

		·	Original t	Jee and Acres	of Change				
New Use	Residential	Agricultural	Industrial	Commercial	Public/ Semi-Public	Vocant		Total Change	% of Total Change
Residential Low Density	.56	128.25 (116.25)	.70 ( .70)	1.67	.23 (.23)	172.24 (147.85)	207.9 (201.65)	511.55 (468.35)	
Moderate High Agricultural	(.56)	(12,00)				(21.12) (3.27) 4.30	(6.25) 94.00	(39.93) (3.27) 98.30	• • •
Industrial Total Gravel	3.76	177.32 (153.52)		٠		16.80 (13.80)	172,40 (162,60)	370.28 (329.92)	30.8
Commercial Public/ Semi-Public	6.2 10.70	2.00		.61	.50	11.97	1.50	22.17	1.8
Vacant Forest	28.64	38.15 1.00		1.71	.16	2.50	. 10100-	71.16	5.9 0.1
TOTAL	50.36	351,72	.70	3,99	.89	219.89	575.80 1	,203.35	100.0%
Percent	4.27	29.22	0.1%	0.32	0.1%	18.3%	47.8%	100%	

Percentages might not total 100% due to rounding.

Represents the west laydown area for the Satsop Construction Project; one change of 2 acres for intensification of use is excluded.

TABLE 7

TOTAL NUMBER OF LAND USE CHANGES-ORIGINAL AND EXPANDED INVENTORY AREAS EASTERN GRAYS HARBOR COUNTY

1977-1981

•	Original Use and Number of Changes									
New Usa	Residential	Agricultural	Industrial	Commercial.	Public/ Semi-Public	Vacant	Porest	Total Change	% of Total Change	
Residential	4	213	2	. 6	1	444	351	1,021	83.0	
Low Density	· (1)	(207)	(2)	(6)	(1)	(400)	(349)	(966)	(78.5)	
Moderate	(3)	(6)			• •	(39)	(2)	(50)	(4.1)	
lligh						(5)	• •	(5)	(0.4)	
Agricultural		•			•	1	2	3	0,2	
Industrial Total	3	9				· 5	12	- 29	2.4	
Gravel		(4)				(1)	(6)	(11)	(0.9)	
Commercial ·	24	4	•	· 4	1	25	3	61	5.0	
Public/	•						•		,	
Semi-Public	•	6	*	4		7	. 2	19	1.5	
Vacont	B6 .	2	•	5	1			94	7.6	
Forest	. 1	. 2				•		3	0.2	
TOTAL	118	236	2	19	3	482	370	1,230	100.0%	
Percent	9.6%	19.2%	0.2%	1.5%	0.2%	39.2%	30.1%	100%		

Percentages might not total 100% due to rounding. One change of two acres for intensification of use is excluded.

TABLE 8

# ACRES OF LAND USE CHANGE (EXCLUDING GRAVEL PITS) ORIGINAL AND EXPANDED INVENTORY AREAS EASTERN GRAYS HARBOR COUNTY 1977-1981

	Or:	iginal Use and	l Acres	of Char	ige	- · · · · · · · · · · · · · · · · · · ·
•	<u></u>			In		
•	In	In	In	Other		
Original Inventory	Incorporated	Agricultural	Forest	Rural		
Areas	Areas	Areas	Areas	Areas	Total	Percent
Central Park		1.00	6.80	29.15	36.95	4.3
Montesano and Area	12.28	44.15	19.60		135.51	15.7
Elma and Area	36.21	57.10	180.40	50.16	323.87	37.5
McCleary and Area	12.87	16.70	17.50	19.10	66.17	7.7
Porter/Malone Area		3.00	4.00	2.40	9.40	1.1
Oakville and Area	13.89	30.50	107.50	14.30	166.19	19.2
	75.25	152.45		174.59	738.09	85.4
Subtotal	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Expanded Inventory						•
Areas						
South of Central Park		·				
and Montesano					1 00	0.1
Planning Areas		·	1.00		1.00	
Wynoochee Valley		7.50	16.00		29.50	3.4 3.9
Satsop Valley		12.00	16.00	6.00	34.00	3.9
North of Elma				1 00	11 FO	1.3
Planning Area			10.50	1.00	11.50	1.3
South of McCleary		•		.50	.50	*
Planning Area		<del></del> .	the star	.50		•
Vicinity of Elma	•					
and Malone/Porter			10.00	<b>E</b> 0	18.50	2.1
Planning Areas		6.00	12.00	.50	10.30	2.1
Vicinity of Oakville			15 00	5.50	31.50	3.6
Planning Area		11.00	15.00		126.50	
Subtotal		36.50	70.50	74.30	120.50	٠٠٠٠
	35.05	188.95	ፈስ6 30	194.09	864.59	100.0
Grand Total	75.25	100.33	400.30	*74.07	20	
Power and	8.7%	21.9%	47.0%	22.4%	100.0%	
Percent	0.16	21.7%	.,			

\*Less than .1% Percentages might not total 100% due to rounding.

TABLE 9

## NUMBER OF LAND USE CHANGES (EXCLUDING GRAVEL PITS) ORIGINAL AND EXPANDED INVENTORY AREAS EASTERN GRAYS HARBOR COUNTY 1977-1981

Original Use and Number of Changes

<u> </u>	amar ose and	Mumper of Ci	ranges		• ′ .	
	In	In	In	Other		
Original Inventory		Agricultural				
Areas	Areas	Areas		Areas	Total	Percent
Central Park	<del></del>	5	20	87	112	9.2
Montesano and Area	57	22	- 34	135	248	20.5
Elma and Area	92	42	115	67	316	26.1
McCleary and Area	44	25	32	36	137	11.3
Porter/Malone Area	·	6	5	8	19	1.6
Oakville and Area	44	53	22	19	138	11.4
Subtotal	237	153	228	352	970	80.0
Expanded Inventory			•			,
Areas					• • • •	•
South of Central Park	•					· .
and Montesano		,				
Planning Areas		<del></del> .	2	·	2	0.2
Wynoochee Valley	· <del></del>	- 15	18	13	461	3.8
Satsop Valley		24	34	12	70	5.8
North of Elma						
Planning Area		<b></b> .	21	2	23	1.9
South of McCleary						
Planning Area		. 12		. 1	1	*
Vicinity of Elma					• • • •	
and Malone/Porter						
Planning Areas		12	24	1	• 37	3.0
Vicinity of Oakville	•				•	
Planning Area	. <del></del>	22	30	11	. 63	5.2
Subtotal	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	73	129	40	242	20.0
Grand Total	237	226	357	392	1,212	100.0
Percent	19.6%	18.6%	29.5%	32.3%	100.0%	

\*Less than .1% Percentages might not total 100% due to rounding.

the changes in each of the inventoried areas. Since this table excludes gravel pits, it consists primarily of residential uses, and mostly of a low density character. As in virtually every other factor of change, the Elma area has the most acres changed (38% of the total) and also the most in number (26% of the total). Oakville has been the site of significant activity in land use change comprising 19% of the change in acreage (the second highest behind Elma) and 11% of the total number of changes. The Montesano area is third in the number of acres changes (16% of the total), but has the second highest number of changes (21% of the total). The expanded inventory areas had only 15% of the total acreage that changed use and 20% of all land use changes. In the expanded inventory area, the most activity appears to be in the Satsop and Wynoochee Valleys and in the vicinity of the Oakville planning area.

Table 8 also illustrates that only 9% of the total acres changed are in incorporated areas, while 47% are in unincorporated forest areas, and 22% are in unincorporated agricultural areas. Most of the agricultural land losses occurred in the Elma area (57 acres), the Montesano area (44 acres), and the Oakville area (31 acres). Of the incorporated areas, the City of Elma changed the most followed, surprisingly, by Oakville. The fact that 91% of the acres changed (again, excluding gravel pits) and 80% of the number of changes has occurred in the unincorporated areas may be one of the observations which has long-term implications.

This change can be described appropriately as urban sprawl in areas with minimal, if any, public services and facilities. If this sprawl continues, additional public expenditures may be needed to support these new developments. A growing body of literature at the national, state, and local levels are suggesting that continued urban sprawl creates considerable long-term costs to local governments and that more orderly patterns of growth may significantly reduce these costs.

The intensiveness of land use changes varies significantly between areas. In Central Park the land area involved in each change is very small, about one third of an acre, while in the Elma and Oakville areas each change averaged more than one acre.

In addition to such costs, sprawl into agricultural areas interferes with the retention of these areas in agriculture. Not only do residences themselves displace agriculture, residential uses also conflict with adjacent farming activities. Families often object to farming practices such as fertilizing and spraying, and children and pets may interfere with farm

activities. This, coupled with increased land values induced by new development, frequently leads to further conversion of agricultural land and the breakup of economic farm units.

### 5. Population and Housing Change

A second indicator of land use change is the housing and population data available for the 1970 and 1980 U.S. Censuses. While comparable data for subareas within east Grays Harbor County are not currently available, total figures for east Grays Harbor County are presented in tables 10 and 11.

TABLE 10
CHANGE IN POPULATION 1970-1980
EAST GRAYS HARBOR COUNTY\*

	1970	1980	Numbe	
Incorporated East Grays Harbor County	6,799	7.,923	1,124	16.5
Unincorporated East Grays Harbor County*	7,453	9,734	2,281	30.6
	14,252	17,657	3,405	23.9

\*Does not include Central Park

SOURCE: U.S. Department of Commerce: 1970 and 1980 Censuses of Population.

### TABLE 11 CHANGE IN HOUSING UNITS 1970-1980

EAST GRAYS HARBOH C	1970	1980	Change Number %	
Incorporated East Grays Harbor County	2,416	3,199	784	32.5
Unincorporated East Grays Harbor County	2,351	3,367	1,016	43.2
Total East Grays Harbor County	4,766	6,566	1,800	37.8
*Does not include Central Park	·	• •		

SOURCE: U.S. Department of Commerce: 1970 and 1980 Censuses of Housing.

Between 1970 and 1980 Eastern Grays Harbor County grew substantiality
faster than the County as a whole. Within East Grays Harbor County the

unincorporated area grew faster than the Cities. Note that housing units grew faster than population, illustrating the decrease in the average household size (the average number of people living in each housing unit) that occurred between 1970 and 1980.

## REPORT #5: PUBLIC FACILITIES and SERVICES

#### RURAL LANDS STUDY

### REPORT #5: PUBLIC FACILITIES AND SERVICES

#### I. Introduction

Previous rural lands reports have explored the following topics:

- #1. Present Planning and Zoning-how existing plans, policies and ordinances affect the location of land uses in eastern Grays Harbor County;
- #2. Geology, Ground-Water and Floodplains-how these natural features limit or accomodate land uses;
- #3. Soil Suitabilities, Stormwater Runoff, and Riverbank Erosion-again, how certain natural features or processes limit or accommodate land uses; and
- #4. Existing Land Use and Land Use Trends-the implications of present land use patterns and observed land use trends in eastern Grays Harbor County.

This fifth report in the Rural Lands Study series will examine existing and planned public facilities and services serving the study area. The primary focus will be on the ability of existing and planned facilities and services to accommodate population growth in those areas classified as "rural lands." (See Map 11).

Three types of public facilities and services are of particular importance in east county rural areas; roads, schools, and fire protection.

#### II. Roads

Roads are perhaps the most basic public facility found in rural areas. In the eastern portion of Grays Harbor County the availability and condition of roads are significant constraints on rural residential development.

Table 11 summarizes research undertaken by the Grays Harbor County Department of Public Works regarding the condition and capacity of selected roads in the Rural Lands Study area. Map 12 shows the location of these roads.

An examination of Table 11 reveals that only one of the roads selected for study (the southern portion of the South Bank Road) is presently operating below its design capacity. Most of the remaining roads selected are presently

## EASTERN GRAYS HARBOR COUNTY

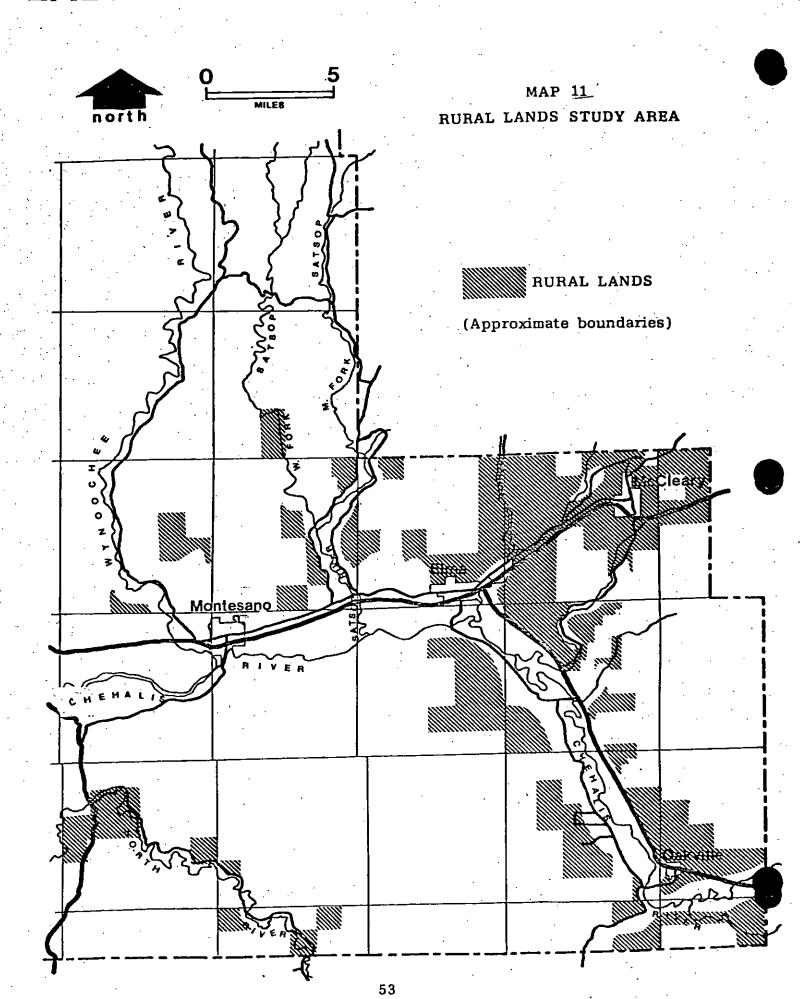


TABLE 11

DESIGN ATTRIBUTES AND AVERAGE DAILY TRIPS (ADT) FOR SELECTED COUNTY ROADS - 1980.

Page 1 of 3

	•		FOR SELE	CIED CO	ONTX	ROADS - I	.000.		Page 1 of 3
Road Name	Road #	Bridges	R.R. Xings	Surface <sup>1</sup>	ADT (1980)	Required <sup>2</sup> Width	Actual <sup>3</sup> Width	Existing <sup>4</sup> Design ADT	Required <sup>5</sup> Roadway Improvements
Bush Creek Road	7797	None	None	E-F-E	367	4-20-4	2-10-2	Substandard	Widen, realign, shoulders, resurface, intersection.
Cloquallum Road	7815	2 Bridges Widen/Replace	Upgrade Xing <sup>7</sup>	E-F-E	1290	8-24-8	2-18-2	Substandard	Widen, straighten, surface, intersection w/9740.
Delezenne Road	6579	3 Bridges <sub>7</sub> Replace 2	Upgrade Xing <sup>7</sup>	E-F-E E	237	4-20-4	2-16-2 12	Substandard	Widen, realign, shoulders, resurface, intersection, 7
Elma-Hicklin Road	7974	New Bridges 2 wooden	2 Xings Upg <b>rad</b> e Xings <sup>7</sup>	E-F-E E	<sup>-</sup> 589	6-22-6	1-20-1 10	<400, in- adequate shoulders	Widen, realign, shoulders, resurface.
Elma-McCleary Road	9740	5 Bridges O.K.	None	E-J-È	4115	8-24-8	4-20-4	<b>&lt;</b> 400	Marginally adequate surfacing, shoulders.
Heise Road	89151	1 Bridge 7	None	E-F-E	101	4-20-4	.2-16-2	Substandard	Widen, shoulders, resurfacing.
Hicklin Road	7700	None	Upgrade Xing	E-F-E	208	4-20-4	2-18-2	Substandard	Wye Conn @ 9740, widen.
Mox Chehalis Road	8629	Bridges O.K.	None	E-F-E	885	8-24-8	2-20-2	<400, in- adequate shoulders	Shoulders, realign- ment, surface.
Mox Chehalis East	8629	None	None	E-F-E	488	6-22-6	2-16-2	Substandard	Widen, shoulders, realign, surface.
Porter Creek Road	9654	2 Bridges <sub>7</sub> Replace 1	Upgrade Xing	E-F-E	1164	8-24-8	4-20-4	<400	Widen, shoulders, surfacing.

TABLE 11 DESIGN ATTRIBUTES AND AVERAGE DAILY TRIPS (ADT) FOR SELECTED COUNTY ROADS - 1980 CONTINUED.

Page 2 of 3 Existing<sup>4</sup> Required<sup>2</sup> Required<sup>5</sup> Actual<sup>3</sup> ADT Road Name Road # Bridges R.R. Xings Surface (1980) Width Width Design ADT | Roadway Improvements Powers Creek New Bridges E Road 7833 None 56 4-20-4 20 Substandard Widen, shoulders. 2 one-lane surface, intersection. Sand Creek Road 87042 None None E 4-20-4 16 Substandard Widen, shoulders, 104 8721 E-F-R surfacing.7 2-10-2 South Bank 1 Bridge Road (No.) 96412 None E-I-E 3390 8-24-8 4-22-4 <750. in-Realign, shoulders. O.K. adequate surfacing. South Bank shoulders Road (So.) 96412 1 Bridge E-I-E 534 None 6-22-6 4-22-4 <750 or Realign, shoulders. <12006 · O.K. surfacing. South Union Road 88982 1 Bridge E-F-E 4-20-4 Substandard Widen, shoulders, None 173 1-18-1 Replace surfacing. Stamper Road 76732 1 Bridge None E-F-E 234 4-20-4 2-16-2 Substandard Surface, intersection, Replace 7 widen, realign, shoulders. West Satson 9725 1 Bridge E-F-E 975 8-24-8 <400 Road 3-20-3 None Widen, shoulders. realign, surface. 7323 E-F-E O.K. 165 4-20-4 2-12-2 Substandard Widen, shoulders. realign, surface.

Continued to next page

### TABLE 11 DESIGN ATTRIBUTES AND AVERAGE DAILY TRIPS (ADT) FOR SELECTED COUNTY ROADS - 1980 CONTINUED.

Page 3 of 3

SOURCE: Grays Harbor County Department of Public Works.

Letters indicate shoulder-surface-shoulder composition as follows: I = asphalt; E = gravel; F = bituminous surface treatment; J = concrete.

Accepted roadway design standards suggest that road carrying the volume of traffic shown in the Average Daily Trips (ADT) column should have a roadway width configuration as shown (shoulder-surface-shoulder). Standards regarding horizontal and verticle orientation are of equal importance, but are not included in this table.

Numbers indicate the existing shoulder-surface-shoulder width for any particular road section at its narrowest point.

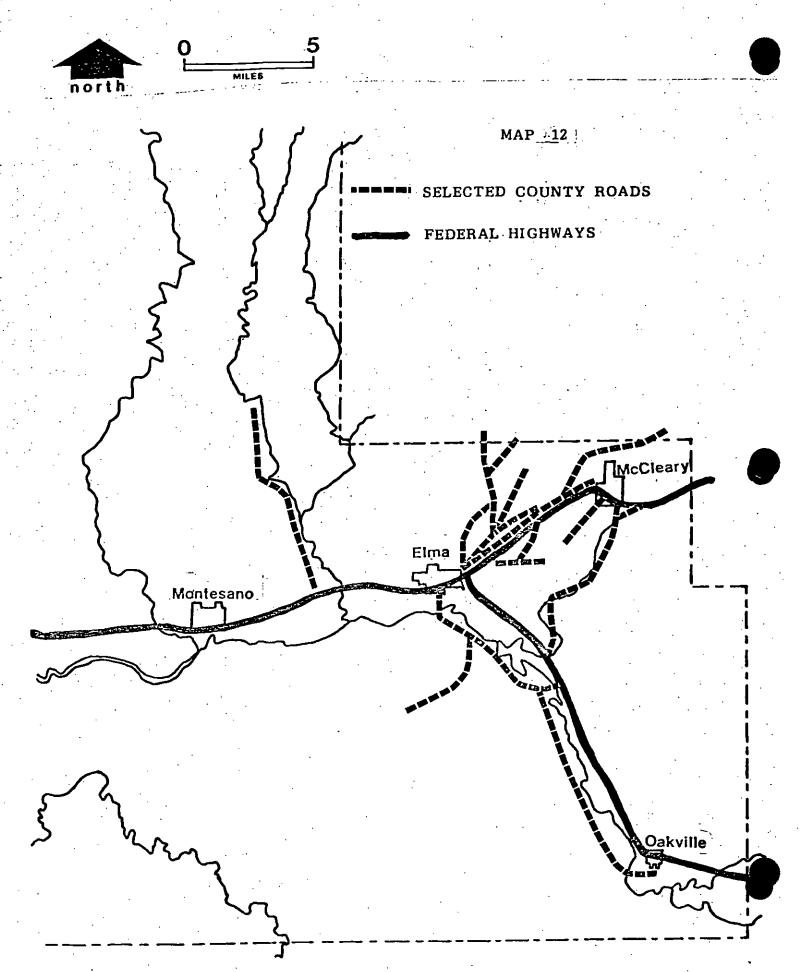
Numbers indicate the approximate maximum design capacity for any particular road. The term "substandard" indicates that the road is presently exceeding its design capacity.

The types of improvements indicated would be necessary to bring a given roadway up to the design standard appropriate to its existing traffic load (ADT).

 $\theta_{\mathrm{Less}}$  than 750 ADT, or less than 1200 ADT with inadequate shoulders.

7 Some improvements to be made under the Grays Harbor County Six-Year Transportation Improvement Program (1980-1985).

### EASTERN GRAYS MAKBUK LUUNI T



operating at levels substantially above their design capacities. Additional residential development along these roads or in areas served by these roads will worsen an already undesirable situation, unless necessary road improvements are made.

Several improvement projects for roads within the study area have been budgeted under the Grays Harbor County Six-Year Transportation Improvement Program (see Table 11 note 7). Most of these improvements are necessary to overcome serious safety hazards, and traffic carrying capacity will generally not be increased.

### III. Public Schools

Portions of eastern Grays Harbor County are served by eight separate school districts. For the purposes of this report, we are particularly interested in five of them, namely:

Elma District No. 67/68;
McCleary District No. 65;
Montesano District No. 66;
Oakville District No. 400; and
Satsop District No. 104. 1

The boundaries of these school districts and the location of schools within them are shown on Map 13.

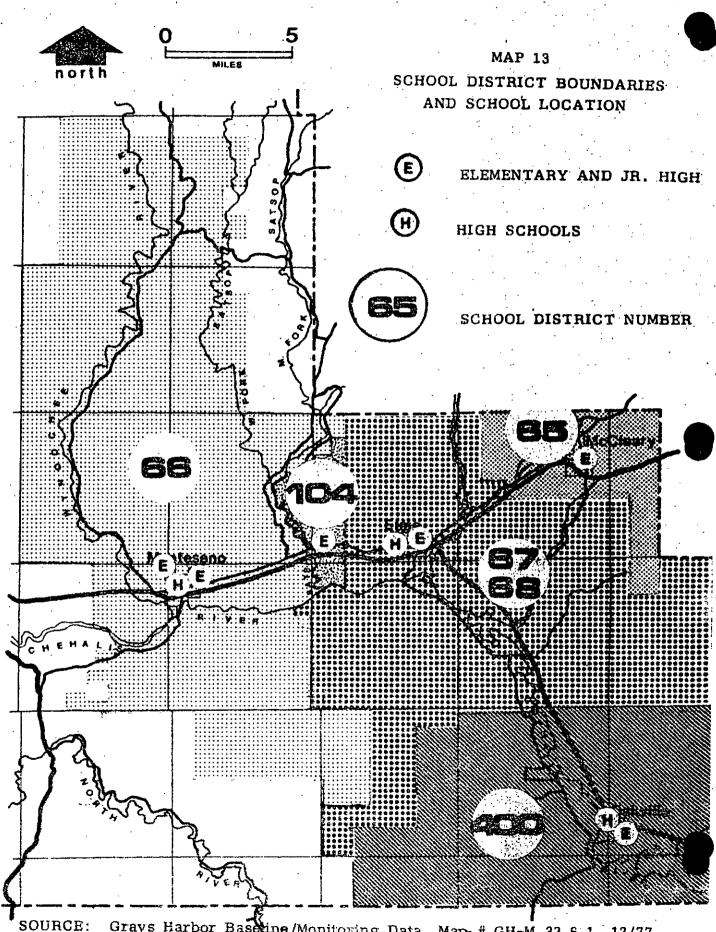
Enrollment School district enrollment figures for October 1975 through October 1979 are given by Table 12. Projections for the years 1980 to 1982 are also included. Figure 5 indicates percentage changes in enrollment for the 1975 to 1979 period, using October 1975 enrollment figures as a base.

As the Table and Figure indicate, the Elma School District has experienced steady growth in enrollment over the past five years. Between October 1975 and October 1979, enrollment has increased by 7.6 percent (61.7 F.T.E. students). McCleary School District has experienced a more dramatic increase of 27.4 percent (82 F.T.E. students) over the same period. It is interesting

Portions of eastern Grays Harbor County are also served by Aberdeen District No. 5, Mary M. Knight District No. 79, Wishkah Valley District No. 117, Cosmopolis District No. 99, and Brooklyn District No. 300. These areas are of minor interest to the Rural Lands Study.

Full-Time Equivalent (F.T.E.).

### EASTERN GRAYS HARBOR COUNTY



: Grays Harbor Baseine/Monitoring Data, Map. # GH-M.32.6.1, 12/77, Grays Harbor Regional Planning Commission.

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TABLE 12 SCHOOL DISTRICT ENROLLMENT - OCTOBER 1975
THROUGH OCTOBER 1982

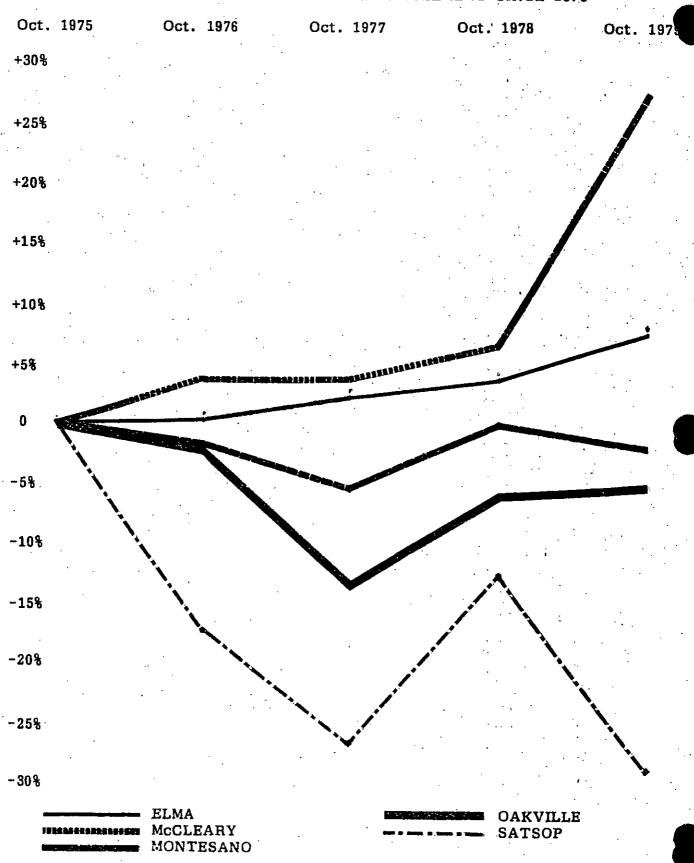
·	ACTUAL					PROJECTED <sup>1</sup>			
	Oct. 1, 1975	Oct. 1, 1976		Oct.1, 1978	Oct. 1, 1979	Oct. 1, 1980	Oct. 1, 1981	Oct. 1, 1982	
ELMA									
K-6	684.5	688.5	700.0	740.5	777.0	823.0	890.0	955.0	
7-12	919.0	917.0	937.5	922.4	947.6	867.0	871.0	887.0	
Total	1,603.5	1,605.5	1,637.5	1,662.9	1,724.6	1,690.0	1,761.0	1,842.0	
McCLEARY		·	•						
K-8	299.5	311.0	311.0	319.0	381.5	338.0	346.0	360.0	
Total	299.5	311.0	311.0	319.0	381.5	338.0	346.0	360.0	
MONTESANO		·	:						
K-6	754.0	719.0	698.0	738.0	740.0	700.0	710.0	722.0	
7-12	723.0	729.0	697.0	735.0	702.0	650.0	662.0	670.0	
Total	1,477.0	1,448.0	1,395.0	1,473.0	1,442.0	1,350.0	1,372.0	1,392.0	
OAKVILLE	] -, -, -, -,	_,		·	1		. •		
K-8	169.5	146.0	155.5	176.5	179.5	184.0	213.0	239.0	
9-12	195.0	179.0	160.0	165.0	165.0	142.0	120.0	119.0	
Total	364.5	325.0	315.5	341.5	344.5	326.0	333.0	358.0	
SATSOP	33710	2010	3300						
1-6	86.0	71.0	63.0	75.0	61.0	72.0	78.0	83.0	
Total	86.0	71.0	63.0	75.0	61.0	72.0	78.0	83.0	

SOURCE: "Actual" figures derived from Grays Harbor Baseline/Monitoring Data, Table # GH-T.32.6.100, 1/80; GH-T.32.6.101, 1/80; GH-T.32.6.103, 1/80; GH-T.32.6.104, 1/80; and GH-T.32.6.102, 1/80, Grays Harbor Regional Planning Commission. "Projected" figures derived from Grays Harbor Baseline/Monitoring Data, Table # GH-T.32.6.37, 6/78, Grays Harbor Regional Planning Commission.

<sup>&</sup>lt;sup>1</sup>Projections are based on 5 year cohort survival and were calculated prior to June 1978. These projections do not reflect the impacts of the Satsop Nuclear Project.

GRAPH 5

### PERCENTAGE CHANGES IN SCHOOL ENROLLMENT SINCE 1975



SOURCE: Derived from Table 12

to note that most of this large enrollment increase between 1978 and 1979 was due to a single large scale residential development. This illustrates the kind of impact that land use decisions have on public education systems.

Enrollment in the Montesano School District has fluctuated near but slightly below the 1975 level for the past five years. For the entire period, enrollment is down by 2.4% (35 F.T.E. students). Oakville School District enrollment has fluctuated more radically, reaching its lowest point during the 1977-78 school year but increasing since then. October 1979 enrollment is 5.5% (20 F.T.E. students) below that of October 1975. The largest (percentage) decline in enrollment has been experienced by the Satsop School District. October 1979 enrollment was 29.1 percent (25 F.T.E. students) lower than October 1975 enrollment.

Care must be taken in interpreting the enrollment projections included in Table 12. These figures are probably low as the influence of the Satsop Nuclear Project was not considered in their computation. Table 13 is an attempt to shed some light on the school enrollment impacts of the Nuclear Project. Please note that actual construction-related enrollment increases are lagging behind the projections (which were prepared in 1976). Much of this discrepancy is likely due to delays in the Satsop Project.

Certified Staff One indication of the level of service available in a given school district is the relationship between the number of students enrolled and the number of certified staff employed. Table 14 gives the number of certified staff per 1000 students for each school district in eastern Grays Harbor County. Also shown is a figure which indicates how each district's staff/student ratio compares with the statewide average.

The Table indicates that, with the exception of the Oakville School District, eastern Grays Harbor County school districts lag behind the statewide average for number of staff per student. In the case of Elma, the disparity is very minor, as that District's staff/student ratio is 97 percent of the statewide average ratio. More serious is the case of the Satsop School District, which

<sup>&</sup>lt;sup>3</sup>An Index of State to Local Ratios of 1.00 indicates that the local staff/ student ratio is equal to the statewide average ratio. An Index of .90 means the local ratio is 10 percent lower (fewer staff per student) than the statewide average, and an Index of 1.10 means the local ratio is 10 percent greater (more staff per student) than the statewide average.

	May 1977	May 1978	May 1979	May 1980	May 1981	May 1982	May 1983	May 1984
ELMA								
Estimated	4.0	120.2	154.4	164.5	195.1	104.0	78.1	6.7
Actual		37.0	94.0				ŀ	•
McCLEARY		· .			_		-	
Estimated	1.3	40.1	51.5	54.8	62.0	34.7	26.0	2.2
Actual		6.0	29.0					
MONTESANO		j	÷		_			
Estimated	1.8	53.4	68.6	73.1	82.7	46.2	34.7	3.0
Actual		2.0	29.0				ì	
OAKVILLE								
Estimated	0.4	13.4	17.2	18.3	20.7	11.6	8.7	0.7
Actual	Ì	3.0	7.0					
SATSOP							45.4	
Estimated	0.9	26.7	34.3	36.6	41.4	23.1	17.4	1.5
Actual	l	1.0	2.0		<u>L</u>	l		

SOURCE: Estimates derived from Tables 1 and 2, "Agreement for Voluntary Capital Construction Impact Payments between WPPSS and various School Districts," 1978. Actual figures from Grays Harbor Baseline/Monitoring Data, Table # GH-T.32.15.88, 10/79, Grays Harbor Regional Planning Commission.

<sup>&</sup>lt;sup>1</sup>Due to problems with the survey this figure is considered inaccurate.

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TABLE 14 CERTIFIED STAFF/STUDENT RATIOS

	1974-75	1975~76	· 1976-77	1977-78	1978-79	1979-80
ELMA	·	·				
Certified Staff/1000 Students	47.32	49.15	49.04	50.69	52.53	52.78
Index of State to Local Ratios	.88	. 92	. 92	.92	97	.91
McCLEARY						
Certified Staff/1000 Students	41.93	45.58	43.94	46.62	44.64	45.61
Index of State to Local Ratios	.78	,85	. 82	. 85	.82	. 79
MONTESANO	·	}				
Certified Staff/1000 Students	41.16	43.49	44.85	49.46	46.50	48.33
Index of State to Local Ratios	.76	.82	.84	. 90	. 86	.84
OAKVILLE						
Certified Staff/1000 Students	60.11	43.49	61.58	66.56	61.49	66.77
Index of State to Local Ratios	1.11	82	1.15	1.21	1.14	1.16
SATSOP		}	, .			
Certified Staff/1000 Students	41.10	34.88	42.25	47.42	40.00	40.98
Index of State to Local Ratios	.76	.65	.79	.87	.74	.71

SOURCE: Grays Harbor Baseline/Monitoring Data, Vol. 2, Table No. GH-T.32.6.30, 3/78; GH-T.32.6.63, 12/78; GH-T.32.6.87, 6/79, and GH-T.32.6.137, 7/80, Grays Harbor Regional Planning Commission.

has a ratio only 74 percent of the statewide average. The Oakville School District is in the enviable position of having a staff/student ratio which is 114 percent of the statewide average ratio.

With the exception of the Satsop School District, east Grays Harbor County districts have improved their staff per student situations since 1974-75, both in real numbers and relative to other schools in the state. The Satsop staff/ student ratio and the district's standing in this regard relative to other schools in the state have declined slightly.

Physical Facilities An important indicator of the ability of school facilities to adequately serve existing and future enrollment is the amount of facility square footage available per student. The State of Washington uses the following space per student standards in making its school district funding allocations:

Kindergarten 45 sq. ft. per student
Grades 1 through 6 90 sq. ft. per student
Grades 7 through 12 130 sq. ft. per student.

Table 15 gives square footage per student figures for the five east County school districts. The figures cover the past four years, and are broken into primary and secondary school categories.

A general feeling for the level of crowding or reserve capacity existing in east County schools can be gained by comparing the figures in Table 15 with the State standards listed above. However, caution must be exercised in making such comparisons, especially when dealing with smaller schools. First, the provision of such facilities as gymnasiums and auditoriums in schools with small enrollments inflate the square footage per student figures more than such facilities inflate the figures for schools with large enrollments.

Second, from the data given, one cannot determine the actual number of students by which a district is overcrowded or, conversely, the number of additional students which could be accommodated. It should be noted that

It should be noted that rather wide fluctuations in ratios, percentages, and other "processed" data can be caused by small changes in absolute numerical values where the "population" of a given data category is small. In the case of a school district the size of Satsop, the resignation of a single teacher can have a significant effect on the staff/student ratio.

<sup>&</sup>lt;sup>5</sup>WAC 180-30-010. Additional footage may be granted to high schools with fewer than 400 students.

TABLE 15 SQUARE FOOTAGE AVAILABLE PER STUDENT

	May 1977	May 1978	May 1979	May 1980	Enrollment (F.T.E) May 1980
ELMA					
1-6 7-12	69.05 152.12	74.82 155.78	73.15 158.14	67.16 157.56	800.0 897.2
McGLEARY 1-8	112.21	102.90	89.51	89.241	377.0
MONTESANO K-6 7-12	75.91, 182.11	75.07 185.62	70.55 177.98	73.63 188.04	733.0 667.3
OAKVILLE K-8 9-12	110.57 286.73	107.25 273.04	100.30 275.44	102.29 <sup>1</sup> 282.88	227.0 111.0
SATSOP 1-6	79.22	79.22	111.03	136.51	61.0

SOURCE: Grays Harbor Baseline/Monitoring Data, Tables # GH-T.32.6.32.6, 6/78; GH-T.32.6.68, 12/78; GH-T.32.6.115, 4/80, Grays Harbor Regional Planning Commission. May 1980 figures computed by GHRPC staff.

<sup>&</sup>lt;sup>1</sup>The inclusion of grades 7 and 8 with primary grades makes it difficult to apply State standards referred to in text. Based upon proportion of enrollment by grade, a standard of approximately 100 square feet per student would seem appropriate.

Oakville High School, with 282.88 square feet available to each of its 111 students, may be less able to accomodate an additional 50 students than would Montesano High School, with 188.04 square feet available to each of its 667 students.

Finally, small school districts lack the flexibility to adjust facility use in response to changes in the number and age composition of their students. Thus, a high square feet per student figure may simply indicate that some available space is presently impractical to use due to the composition of the school population.

These factors tend to result in a greater space per student need in small districts relative to large districts.

With these caveats in mind, a few generalizations can be made regarding the ability of existing facilities to accommodate enrollment increases. It is clear that elementary schools in Elma, Montesano and (to a somewhat lesser extent) McCleary are experiencing significant overcrowding. Oakville's elementary school appears to be operating at or near capacity, while Satsop's school may have some reserve capacity; however, this situation could change rapidly due to these district's small total enrollments. The three east County high schools appear to be in a better position to accommodate enrollment increases than do the elementary schools.

Most of the east County school districts are presently examining their options regarding school facility expansion. Two districts are presently undertaking expansion projects, as follows:

McCleary An elementary school expansion project presently under construction will add one regular classroom and a resource room to existing facilities by the beginning of the 1980-81 school year.

Montesano A four classroom building presently under construction at Beacon Elementary School is scheduled for completion by the beginning of the 1980-81 school year.

#### IV. Fire Protection

Fire protection in east Grays Harbor County is provided by five Fire Districts, namely:

Fire District No. 1 (Oakville);

Fire District No. 2 (Montesano):

Fire District No. 5 (Elma);

Fire District No. 12 (McCleary); and

Fire District No. 15 (Arctic).

The boundaries of these districts and the location of fire stations within them are shown on Map 14.

Map 15 indicates relative levels of fire protection service for the study area, based on a rating system used by the Washington Surveying and Rating Bureau for insurance purposes. The map shows three categories of protection level. Classification 8a represents the highest level of protection existing in east Grays Harbor County (outside of areas served by fire hydrants). Classification 9 represents a (relatively) moderate level of fire protection. Classification 10 indicates "that the fire protection facilities [are] not considered adequate for recognition."

Table 5.6 illustrates the effect of these Classifications on annual fire insurance premiums for a hypothetical \$50,000 home with standard coverage.

TABLE 16. FIRE INSURANCE PREMIUMS FOR HYPOTHETICAL \$50,000 HOME

CLASSIFICATION	ANNUAL PREMIUM		
81	\$113.00		
8a	146.00		
9	214.00		
10	288.00		

SOURCE: Mr. Johnston, Washington Surveying and Rating Bureau.

1 Classification 8 exists only in those areas served by fire hydrants.

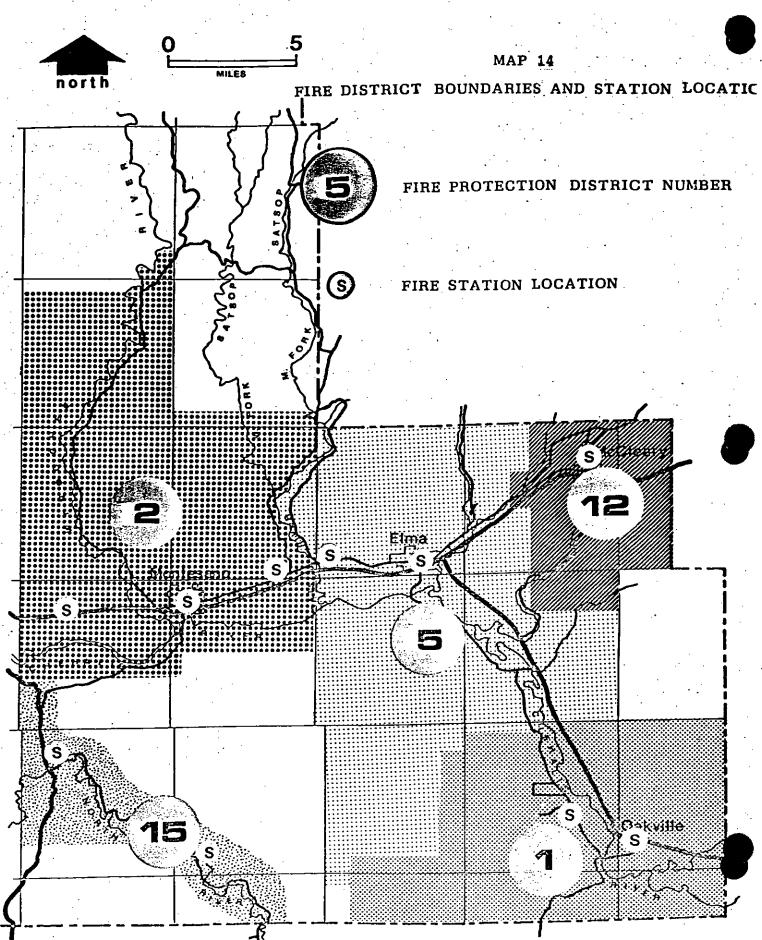
Most of the areas designated as "rural lands" lie within Classification 8a or Classification 9 areas. The most significant exceptions are those areas lying in the Satsop River Valley north of the confluence of the east and west forks; those areas in the Delezenne Creek vicinity; those areas along Black Creek; and approximately ten square miles lying mostly north of White Star (sometimes

<sup>&</sup>lt;sup>6</sup>Please note that the areas shown on Map 15 are very general. Actual determination of Classification for any individual residence is based upon distance from a recognized fire station on roads adequate to carry firefighting equipment. See <u>Public Protection Classification Manual</u>, <u>Washington</u>, <u>Washington</u> Surveying and Rating Bureau, Seattle, 1980.

Public Protection Classification Manual, Washington, Washington Surveying and Rating Bureau, Seattle, 1980. Pg. 1.

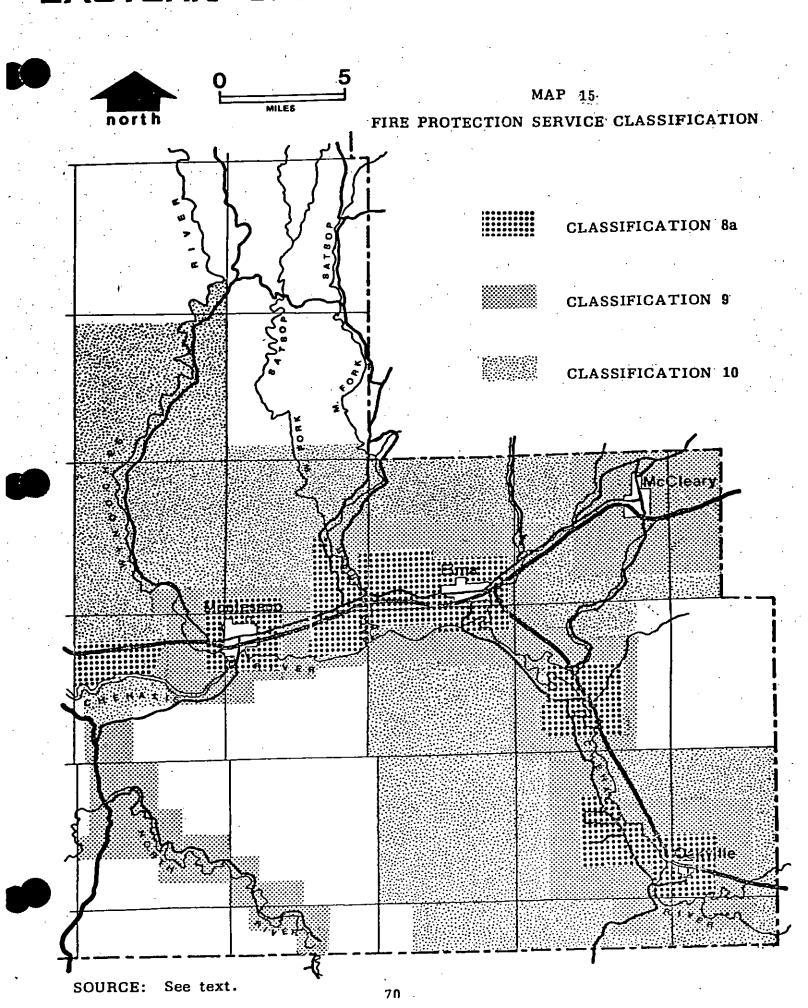
<sup>8</sup> Assumptions regarding type of coverage held constant for all classifications.

## EASTERN GRAYS HARBOR COUNTY



SOURCE: Grays Harbor Baseline/Monitoring Data, Map # GH-M.32.11.2, 6/79,

# EASTERN GRAYS HARBOR COUNTY



called "Whites"). Compounding fire protection problems in the areas mentioned above is the fact that most of the roads serving them are dead ends with no alternate access. A bridge or roadway washout or other obstruction on these roads would temporarily cut the areas off to any fire protection service.

REPORT #6: SELECTED RURAL LANDS ISSUES

#### RURAL LANDS STUDY

REPORT #6: SELECTED RURAL LANDS ISSUES

#### I Introduction

The purpose of this sixth report of the Rural Lands Study is to explore some of the important policy issues concerning land development in the areas designated as "Rural Lands." The intent is to trigger a discussion which will result in general agreement on the issues to be decided in this planning process.

The issues discussed below are grouped into three categories: existing land use regulations; appropriate location of land uses; and the densities of land uses appropriate to rural areas.

#### II. Existing Land Use Regulations

The areas designated as "Rural Lands" have been defined as "the lands within eastern Grays Harbor County less (a) those areas designated by the Agricultural Study Committee; (b) incorporated cities; (c) remote commercial forest lands; and (d) the Montesano Planning Area." Under the existing zoning ordinance, the most appropriate zoning district designations for the "rural lands" are probably the "General Development" district or one of the "Residential" districts. 1

The "General Development" or "G" district is intended to allow for a wide variety of land uses. Agriculture; timber growing, harvesting and processing; and certain commercial uses are accommodated with minimal control. The "G" district does, however, impose a minimum lot size of five acres for residential uses.

The "Residential" districts, on the other hand, are intended to allow suburban density residential development primarily in those areas where moderate levels of public services and facilities are available. Minimum lots sizes of

Most of the areas being called "rural lands" are presently zoned as either "Agricultural" or "General Development," with a smaller portion being "General Residential." The Agricultural Study Committee has recommended that the "Agricultural" designation be removed from areas being considered in the Rural Lands Study. The ultimate designation and density of these areas is yet to be determined.

15,000 and 10,000 square feet make these districts' suitability for more remote rural areas questionable.

Thus, while most types of rural land uses are readily accommodated under the existing zoning ordinance, the creation of residential parcels smaller than five acres is discouraged except where moderate levels of public services and facilities are available (i.e. near the cities and towns).

ISSUE #1: SHOULD THE COUNTY TAKE ACTION TO REDUCE BARRIERS TO

THE CREATION OF RURAL RESIDENTIAL PARCELS SMALLER THAN
FIVE ACRES?

If it is decided that action should be taken to reduce the barriers to creating smaller residential parcels in rural areas, consideration should be given to the impacts such action may have on the public health and welfare, on non-residential rural land uses, and on the ability of local government to provide necessary public services at a reasonable cost. The remainder of this Report will address issues related to minimizing such impacts.

#### III. Appropriate Locations for Rural Residential Land Uses

If it is decided that the barriers to creating rural residential parcels in the one to five acre range should be reduced, the next step is to determine where such parcels should be located.

At least two factors concerning the location of rural residential land uses are beyond the scope of the Rural Lands Study. First, the National Flood Insurance Program, the Washington State Flood Control Zone Law and the Shorelines Management Act impose certain standards for the regulation of land uses in flood prone areas. These standards limit the level of residential development possible in the one-percent (100 year) floodplain. Second, the Grays Harbor Agricultural Study Committee has recommended that "areas of agricultural land should be planned, designated, and zoned for agriculture" and that agricultural operations should be protected "from the adverse impacts associated with non-agricultural development." Thus, the location of rural residential land uses

Report of the Grays Harbor Agricultural Study Committee to the Grays Harbor County Planning Commission and Board of Commissioners, April, 1980 p. 25.

is, or likely will be, constrained by the location of flood prone areas and agricultural areas.

Several additional factors may affect the appropriate location of rural residential land uses. Previous reports of the Rural Lands Study (Reports #2, 3, and 5) have provided background information on these matters. It remains for the Planning Commission to determine what effect, if any, factors relating to natural hazards, development suitability and public facilities and services should have on the location of rural residential property.

Local government's interest in directing development away from areas of natural hazard is derived from its role as protector of the public health and welfare. The rationale is that local government has at its disposal information and resources (not readily available to the public) for the identification of hazards.

ISSUE #2: WHAT ROLE SHOULD THE LOCATION OF NATURAL HAZARDS

(FLOODPLAINS, STEEP SLOPES, UNSTABLE SOILS, RIVERBANK

EROSION) PLAY IN DETERMINING APPROPRIATE LOCATIONS FOR

RURAL RESIDENTIAL DEVELOPMENT?

Local government's interest in directing development towards areas where adequate water exists and where waste disposal systems can be accommodated (areas with high "development suitability") is also derived from its role as protector of the public health and welfare. In the case of septic systems or other waste disposal methods, a person acting in his/her best self interest may create a health hazard for others.

ISSUE #3: WHAT ROLE SHOULD DEVELOPMENT SUITABILITY (GROUNDWATER AVAILABILITY, SEPTIC SYSTEM SUITABILITY) PLAY IN DETER-MINING APPROPRIATE LOCATIONS FOR RURAL RESIDENTIAL DEVELOPMENT?

Local government's interest in guiding development into locations and patterns which make the provision of public services and facilities easier is primarily a matter of economics. Widely scattered development or new development in areas where existing service levels are low or non-existant often results in significant cost increases for road construction and maintenance, educational services (transportation of students), and fire and police protection.

ISSUE #4: WHAT ROLE SHOULD THE CONDITION AND AVAILABILITY OF
PUBLIC FACILITIES AND SERVICES PLAY IN DETERMINING
APPROPRIATE LOCATIONS FOR RURAL RESIDENTIAL DEVELOPMENT?

#### IV. Appropriate Residential Densities

Once it is decided "where" rural residential development should occur, it is important to consider at what densities development should occur in different places.

At present, some areas adjacent to agricultural areas are zoned for suburban density residential development (lot sizes as small as 10,000 square feet).

Problems associated with allowing residential development next to agricultural
uses have been identified by the Agricultural Study Committee. Yet, the
existing zoning ordinance provides only one reasonable alternative to this
situation (for residential uses): the "General Development" (five acre) district.

It may be desireable to provide for residential uses at densities somewhere
between these extremes (10,000 square feet and 5 acres) to act as a "buffer"
or transition zone between agricultural land and suburban density residential
areas.

ISSUE #5: SHOULD RURAL RESIDENTIAL DEVELOPMENT AT DENSITIES IN
THE ONE TO FIVE ACRE RANGE BE ENCOURAGED TO SEPARATE
AGRICULTURAL USES FROM SUBURBAN DENSITY RESIDENTIAL
USES?

Other residential density issues parallel issues discussed earlier under the topic of "appropriate locations for rural residential land uses" (Section III, above). For example, soils in a certain area may be suitable for handling septic systems at a rate of one system (i.e. one dwelling unit) per every four acres, but may not be capable of handling one system for every two acres. An existing road may be capable of carrying the additional traffic from ten new dwelling units in its tributary area, but twenty new units might make substantial reconstruction necessary. Thus, information regarding natural hazards, development suitability and public facilities and services may be useful in designating residential densities for rural areas.

ISSUE #6: WHAT ROLE SHOULD THE FOLLOWING FACTORS PLAY IN DETER-MINING APPROPRIATE DENSITIES FOR RURAL RESIDENTIAL DEVELOPMENT?

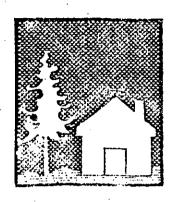
- a) NATURAL HAZARDS (FLOODPLAINS, STEEP SLOPES, UNSTABLE SOILS, RIVERBANK EROSION);
- b) DEVELOPMENT SUITABILITY (GROUNDWATER AVAILABILITY, SEPTIC SYSTEM SUITABILITY);
- c) PUBLIC FACILITIES AND SERVICES (ROADS, SCHOOLS, FIRE PROTECTION).

A final density issue worthy of consideration is the concept of rural residential "clusters." Under the cluster concept, a number of areas, limited in size and well suited to rural residential development, would be designated for development at densities significantly higher than the surrounding areas. The result would be a number of "pockets" of rural residential development for which the provision of public services would likely be lower (overall) than if development were widely dispersed. The impact of such development on other land uses might be lower than that of dispersed development, as well.

ISSUE #7: SHOULD THE COUNTY ENCOURAGE RURAL RESIDENTIAL DEVELOP-MENT TO OCCUR IN "CLUSTERS" AS OPPOSED TO BEING WIDELY DISPERSED?

#### V. Implementation

Once the policy issues discussed above are decided, the means of implementing the overall rural lands policy must be selected. One possible tool of implementation is the Comprehensive Zoning Ordinance. Existing zoning classifications may be altered or new classifications may be added.



# RURAL LANDS STUDY

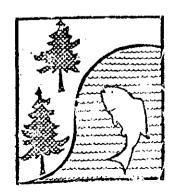


PART TWO:
RECOMMENDATIONS



JULY 1982

GRAYS HARBOR COUNTY



THE GRAYS HARBOR
REGIONAL PLANNING COMMISSION

# EASTERN GRAYS HARBOR COUNTY RURAL LANDS STUDY

PART TWO: RECOMMENDATIONS

JULY 1982

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GRAYS HARBOR COUNTY
THE GRAYS HARBOR REGIONAL PLANNING COMMISSION

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# EASTERN GRAYS HARBOR COUNTY RURAL LANDS STUDY RECOMMENDATIONS INTRODUCTION AND SUMMARY

#### INTRODUCTION

The "Rural Lands" Study was initiated by the Grays Harbor County Commissioners to address problems of rural development in East Grays Harbor County and as a companion study to the Agricultural Committee Recommendations. The Satsop power project increased development demands on rural Grays Harbor County. These demands resulted in land use conflicts, requests for increased density, and the realization that components of the county's land use guidance system are out of date and uncoordinated with the plans of other jurisdictions in East Grays Harbor County. As recommended by the Agricultural Study Committee's report adopted in May 1981 over 29,000 acres formerly zoned for agricultural uses were not included in the two new agricultural zones. The agricultural potential of these lands was low and their potential uses needed to be evaluated. The study included two parts. The first part was a review of the background reports on Eastern Grays Harbor County. The background reports considered the areas physical suitabilities, development

The study included two parts. The first part was a review of the background reports on Eastern Grays Harbor County. The background reports considered the areas physical suitabilities, development trends, the available public facilities, together with other characteristics of the area. The reports are contained in the Rural Lands Study Part One: Study Reports which is available from the Grays Harbor County Planning Department.

The second part was the development of recommendations to address the problems identified in the study report. The Rural Lands Study focused on three key problems: how should the county respond to the increased demand for small acreage parcels (generally one to two acres in size), what uses should the county encourage on the over 29,000 acres the Agricultural Study Committee recommended be deleted from the County Agricultural Zones, and what policies are needed to update and coordinate the county's land use guidance system.

In brief the study recommends that two new comprehensive plan elements be added to the County Comprehensive Plan. If adopted the Rural Lands Element and implementing zoning provisions will provide for two new one acre zoning districts to be applied to various areas in East Grays Harbor County and the lands deleted from the Agricultural zones will be rezoned for various densities and uses depending on land capability. The element also includes policies to aid the county in deciding the appropriate locations for commercial and industrial uses and to protect the resources of the rural lands. The second comprehensive plan element the Rural Lands Study recommends to be adopted is the Community Plan Coordination Element. This element will coordinate the various elements of the County Comprehensive Plan and the comprehensive plans of the jurisdictions to provide for an integrated land use pattern, to lessen potential disagreements between jurisdictions, and increased predicability for developers. The Community Plan Coordination Element also provides for the review of developments which have a major impact on both the county and other jurisdictions.

If adopted, the Rural Lands Element and Community Plan Coordination Element would become a compontents of the County Comprehensive Plan. The comprehensive plan is a official document adopted by the county as a policy guide to decisions about the future development of the county. It is intended to coordinate county programs and regulations to achieve the general objectives set forth in the plan. One of the key purposes of a comprehensive plan is guide zoning decisions and the Rural Lands Element's goals, objectives, and policies are intended to guide the manner in which the rural areas of Eastern Grays Harbor County are zoned. Several amendments to the county zoning ordinance were developed based on the Rural Lands Policies. These proposed amendments would direct development in Eastern Grays Harbor County The study recommends the zoning amendments be added the County Zoning Ordinance. The full text of the two proposed plan elements and zoning districts together with the proposed land use plan map and zoning maps are included in this report and are summarized below.

#### COMPREHENSIVE PLAN CONCEPT

The overall concept guiding the original Comprehensive Plan adopted by Grays Harbor County together with the Agricultural Element adopted

in 1981, and the proposed plan elements included in the Rural lands Recommendations is to (a) encourage relatively intense residential. commercial, and industrial activities near cities, towns, and rural communities, where they can be economically served by public and private facilities and services; (b) to encourage residential and recreational development in those areas of the county uniquely suited for these activities; (c) to provide opportunities for rural development in areas capable of supporting these uses; (d) to protect the natural resources upon which the county's economy is based; and (e) to promote the continued industrial, residential, commercial, and recreational development of the county in appropriate areas. While the specific provisions of the comprehensive plan and zoning ordinance designed to implement this concept have changed over the years as conditions have changed, the concept has remained a common thread through the county's planning efforts. The recommendations of the Rural Lands study are the latest refinement in the implementation of the plan concept.

#### SUMMARY

#### Rural Lands Element

The study recommends that the "Rural Lands Element" be added to the Grays Harbor County Comprehensive Plan. The Rural Lands Element would be applied to the unincorporated areas of Eastern Grays Harbor County. For the purposes of this study, Eastern Grays Harbor County is that portion of the county east of Central Park. Central Park in not included within the Rural Lands study area.

#### Rural Lands Goals

The goals describe the end state the proposed element is intended to achieve the purposes of the study. The proposed Rural Lands Element Goals are:

- To provide opportunities for rural development at appropriate intensities while protecting the natural resources and character of the rural lands.
- 2. To develop a land use pattern which minimizes development, service, and maintenance costs for residents, property owners, builders, and public agencies.

The element goals are further defined in the proposed objectives which are found on pages 2 and 3.

Rural Lands Policies

The proposed Rural Lands policies outline and describe general directions for action, both legislative and administrative to implement the goals and objectives of the element. The proposed policies describe the following:

- The overall character of the rural lands is described in policy 1 on page 3. In general, the rural lands will consist of residential, forestry and agricultural uses.
- Three zoning districts are recommended in policy 2 together with criteria specifying where the zones should be located and the types of uses to be permitted within each district. See pages 3-7.
- Criteria for the location of various commercial uses within the rural lands areas, based on their market areas, are included in policies 4 and 5 on pages 7 and 8.
- Policy 6, on page 8, provides for resource based industrial uses within appropriate rural lands areas.
- Policy 7, on page 9, contains criteria for permitting industrial zones within the rural lands.
- Policy 8, on page 9, provides that water and sewer services should be provided only to these lands within urban service areas designated by the comprehensive plan.
- The provision of parks and recreation areas within developed areas is encouraged by policy 9 on page 9.
- The clustering of residences is encouraged by policy 10.

  Policy 10, on page 9, requires that the overall density provided by the zone should be maintained when dwellings are clustered.
- Policy 11, on page 9, provides that new developments should not increase peak stormwater runoff above naturally occurring levels.
- Policy 12, on page 10, includes criteria for the location of recreational developments within the rural lands.
- Policy 13, on page 10, encourages increases in density over time by providing for resubdivision of large lots as water and sewer services become available.
- Policies 14 and 15, on page 10, encourage the protection of the habitat of rare on endangered species and exceptional historical or archeological sites.

#### Rural Lands Plan Map

The land use designations described in Rural Lands Policy 2 are mapped on the Generalized Rural Lands Policy Map on page 11. The criteria in Policy 2 together with this map guide the application of the zoning districts designed to implement the Rural Lands policies. In the case of conflicts between the policies and the plan map, the policies control.

#### Proposed Residential Area

The Generalized Rural Lands Policy Map also includes the proposed Residential Area. The Residential Area is designed to guide the county's existing R-1 and R-2 zones. The proposed area would not change the text of the existing R-1 and R-2 zoning districts. This area would be applied to lands where water and sewer facilities would be available. The area is on pages 13 and 14.

#### Proposed Rural Lands Zoning

The Rural Lands Policies would be implemented by two new zoning districts the Rural Residential (RR) District and the General Development (GD-1) District. Both of the new districts would have a minimum lot size of one acre. In addition the policies recommend the existing General Development District be modified. The zoning districts are summarized on Table 1. The text of the districts is on pages 16-25.

The three districts were mapped within Eastern Grays Harbor County based on the criteria in Policy 2. The Generalized Rural Lands zoning map on page 26 displays the proposed rezones. Zoning maps with a scale of 1" = 800' and 1" = 2 miles are available for review at the offices of the Grays Harbor County Planning Department in the County Courthouse at Montesano. Within the urban service areas of the various cities and towns the zoning was also guided by the community comprehensive plan policies and the proposed residential area discussed above.

In addition to the two new Rural Lands zones, new zoning definitions of "density" and "clustering" are proposed to provide for more consistent interpretation of the new zones. These definitions would be added to the existing zoning ordinance definitions and apply to the entire zoning ordinance. The definitions are found on page 27.

#### Community Plan Coordination Element

The Rural Land Study also recommends that the "Community Plan Coordination Element" be added to the Grays Harbor County Comprehensive Plan. The proposed Element is on pages 29 through 31.

The Rural Lands Element, as well as other planning elements of the county, would be coordinated with the comprehensive plans of other jurisdictions by the proposed Community Plan Coordination Element.

This element adopts the comprehensive plans of five cities by reference (the plans of Elma, Montesano, Oakville, the Town of McCleary, and Cosmopolis.) The Coordination Element designates the areas identified to be served by urban services in the city and town plans as urban service areas and as such these areas would be the focus of more intensive development in the unincorporated areas of the County. The coordination element also describes the procedure for reviewing development proposals near incorporated areas to insure coordination with affected cities and towns.

#### Comprehensive Plan Definitions

The final proposal contained in the Rural Lands Study is a set of definitions to be used in interpreting the Grays Harbor County Comprehensive Plan. The definitions are intended to clarify the meaning of the plan goals, objectives, and policies. The definitions are found on pages 33 through 35.

PROPOSED
RURAL LANDS ELEMENT

# GRAYS HARBOR COUNTY COMPREHENSIVE PLAN RURAL LANDS ELEMENT

#### GOALS

- 1. To provide opportunities for rural development at appropriate intensities while protecting the natural resources and character of the rural lands.
- 2. To develop a land use pattern which minimizes development, service, and maintenance costs for residents, property owners, builders, and public agencies.

#### OBJECTIVES

- To avoid the development of areas with natural hazards and significant natural resource values while providing for the appropriate use of areas suitable for rural residential development.
- 2. To encourage a land use pattern commensurate with the availability and quality of public facilities.
- 3. To maximize the choice of rural residential environments by developing a variety of rural residential densities and combinations of rural activities each consistent with the varying environmental values, the natural resources, and the varying supply and cost of public facilities and services in the rural lands.
- 4. To strengthen and encourage existing rural development centers.
- To protect and maintain the high quality of the air, water, and groundwater resources of the rural lands.
- 6. To encourage forestry, agricultural, and other natural resource activities within the rural lands while minimizing land use conflicts.
- 7. To protect rural residential areas from incompatible and inappropriate development.
- 8. To assist in meeting the employment needs of the County by providing for the development of resource dependent industrial uses in a manner consistent with the character and environment of the rural lands.
- 9. To reduce the energy required for transportation by focusing higher density development near urban areas, providing the opportunity for compact rural development, and encouraging the clustering of rural housing.
- 10. To reduce the energy required for space heating and encourage the

- use of solar heating systems by encouraging the clustering of housing and encouraging solar access through site review.
- 11. To ensure that County, Regional, City, and Town development plans, programs, and policies are well coordinated and integrated.
- 12. To ensure the various elements of the County Comprehensive Plan are consistent and integrated.
- 13. To ensure County policies, programs, and ordinances, especially zoning and captial improvement programs, will be coordinated with and support the goals, objectives, and policies of this plan.

#### POLICIES

- 1. The overall character of the rural lands should consist of rural residential uses of appropriate low densities, forestry, and agricultural uses.
- 2. In order to provide a choice of residential environments consistent with natural resource values and at a minimum of public costs the County shall provide through its ordinances three types of rural residential areas.

#### 2.1 The Rural Residential Area

Purpose: The purpose of the Rural Residential designation is to provide areas for small acreage rural residential development where compatible with the area's natural resources, natural limitations, public facilities, and public services.

Description: These areas would be primarily composed of rural residential uses with a maximum density of not more than one (1) unit per acre.

The permitted density may vary depending on the suitability of the site for development. During the platting process a determination shall be made as to whether conditions are present which limit the site's development potential. These conditions include:

- (a) Areas within the one hundred year flood plain.
- (b) Areas subject to riverbank erosion.
- (c) Areas of very steep slopes.
- (d) Areas of low suitability for on site waste disposal systems.
- (e) Areas of high groundwater tables or ponding.
- (f) Other conditions or hazards which limit development.

If any of these conditions are present, measures may be required as necessary to overcome the limitiations including, but not limited to; special site designs, the clustering of structures, special construction requirements, engineered drainage and/or waste disposal

systems, and reductions in the maximum permitted density. While the primary character of these areas will be rural residential, a mix of compatible forestry and agricultural uses will be permitted and encouraged.

Appropriate Uses: Uses within the Rural Residential designation may include:

- (a) Residential uses including single-family dwellings, mobile homes, and mobile home parks at a density of not more than(1) dwelling unit per acre.
- (b) Public and Semi-Public uses which support the residential nature of an area including parks, schools, day care centers, and churches. These uses should be carefully sited to minimize potential impacts on other uses.
- (c) Forestry and agricultural uses compatible with residential uses.
- (d) Customary and compatible accessory uses.

Commercial and industrial uses shall be prohibited in this designation.

Criteria for Designation: Areas suitable for this designation shall meet the following criteria:

- (a) The areas shall have an adequate supply of ground water given the one acre density or access to a community water system.
- (b) The areas shall be located to minimize the travel distances of residents, school buses, and emergency equipment over substandard roads.
- (c) The areas shall be located to minimize their impact on those fire and school systems least able to accommodate growth.
- (d) In addition, designated urbanizing areas may be designated
  Rural Residential until they are served by adequate public
  facilities, including streets, water, and sewer systems.

Areas to be avoided by this designation:

- (a) Areas which would require major public expenditures to adequately accommodate the permitted growth.
- (b) Areas substantially or wholly within the one hundred year flood plain.
- (c) Areas subject to major riverbank erosion.
- (d) Extensive areas of soils with a poor suitability for on site waste disposal systems.
- (e) Areas where septic systems may contaminate groundwater resources.

- (f) Areas of high natural resource values.
  - (g) Areas adjacent to planned agricultural areas unless it can be shown this designation will provide adequate buffering for agricultural activities.

#### 2.2 The Rural Development Area

Purpose: The purpose of the Rural Development designation is to encourage and strengthen rural development centers by providing for a variety of compatible uses on small acreages where consistent with the area's natural resources, natural limitations, public facilities, and public services.

Description: These areas would be composed of a variety of uses including rural residences, compatible commercial uses, compatible industrial uses, forestry, and agricultural uses. Residential uses shall not exceed a density of more than one (1) unit per acre.

Appropriate Uses: Uses within the Rural Residential designation may include:

- (a) Residential uses including single-family dwellings, mobile homes, and mobile home parks at a density of not more than(1) dwelling unit per acre.
- (b) Commercial uses, including commercial uses customarily accessory to rural residential uses and commercial uses designed to serve surrounding local markets.
- (c) Industrial uses dependent upon the natural resources of the rural lands provided they are compatible with other uses.
- (d) Forestry and agricultural uses compatible with residential uses.
- (e) Public and semi-public uses.
- (f) Customary and compatible accessory uses.

Other commercial and industrial uses shall be prohibited in this designation.

Criteria for Designation: Areas suitable for this designation shall meet the following criteria:

- (a) The areas shall have an adequate supply of ground water given.

  the one acre density or access to a community water system.
- (b) The areas shall be suitable for long term use of septic systems

- given the one acre density or have the potential to be served by a community waste water system.
- (c) The areas shall be located to minimize the travel distances of residents, school buses, and emergency equipment over substandard roads.
- (d) The areas shall be located to minimize their impact on those fire and school systems least able to accommodate growth.
- (e) The areas shall be compatible with the variety of uses included within the designation.
- (f) The areas shall be part of or related to rural development centers.

  Areas to be avoided by this designation:
  - (a) Areas within the one hundred year flood plain.
  - (b) Areas subject to riverbank erosion.
  - (c) Areas of very steep slopes.
  - (d) Areas adjacent to planned agricutural areas unless it can be shown this designation will not adversely impact and will adequately buffer agricultural activities.
  - (e) Areas which would require major public expenditures to adequately accommodate the permitted growth.

#### 2.3 The General Development Area

Purpose: The purpose of the General Development designation is to accommodate rural development in a manner which protects natural resources, reduces the potential effects of natural hazards, and reduces the need for new public facilities and lowers public costs.

Description: The character of these areas will be rural, with a mix of compatible rural residential, forestry, agricultural, and natural resource dependent activities with restricted commercial and resource based industrial activities. Residential uses shall not exceed a density of more than one (1) unit per five (5) acres.

Appropriate Uses: Uses within the General Development designation may include:

- (a) Residential uses including single-family dwellings and mobile homes at a density of not more than one (1) dwelling unit per five (5) acres.
- (b) Commercial uses customarily accessory to rural residential uses and rural commercial uses serving local markets.

- (c) Industrial uses dependent upon the natural resources of the rural lands provided they are sited in areas where they are compatible with other uses.
- (d) Forestry, agricultural, and aquacultural uses adequately buffered to protect any nearby residences.
- (e) Public and semi-public uses.
- (f) Customary and compatible accessory uses.
- (g) Resource related recreational uses.

Other commercial and industrial uses shall be prohibited in this designation.

Criteria for Designation: Areas suitable for this designation shall include the following:

- (a) Areas with a low level of those public facilities and services which facilitate residential development.
- (b) Areas subject to natural hazards including high slopes and major flood plains or areas with a low suitability for development such as low quantities of ground water or limitations for the use of onsite septic systems.
- (c) Areas adjacent to planned agricultural areas.

Areas to be avoided by this designation:

- (a) Areas with an average parcel size of less than five (5) acres.
- (b) Areas suitable for more intense uses.

The following policies are designed to guide the location of public facilities, commercial, and industrial uses within the rural lands. These policies would be applied in conjunction with the designations contained in Policy 2. Not all of these policies would apply to all of the designations; for example, the industrial policies would not apply to the Rural Residential Area because they are inconsistent with the description of the area.

- 3. Commercial uses customarily accessory to a rural residential use may be permitted in the rural lands to the extent they are compatible with the rural residential character of the area and are not disruptive to adjacent residents.
- 4. Commercial uses designed to serve the surrounding local markets or residents of the rural area; such as grocery stores, gas stations, hardware stores, restaurants, banks, feed and seed stores; may be permitted provided all of the following criteria are met:

- (a) The site is free of natural hazards which would adversely impact the intended use.
- (b) The site has adequate public facilities and services; including waste disposal, water supply, and fire protection for the proposed use.
- (c) The site is located within the vicinity of existing intersections along major circulation routes. Major circulation routes are defined as designated arterials, primary state highways and freeways.
- (d) For commercial uses to be located within rural development centers, the site and immediate vicinity shall be suitable for additional commercial development without adversely impacting public facilities, public services, or adjacent activities, and without encouraging or contributing to strip commercial development.
- (e) The use is compatible with uses in the vicinity of the site.
- 5. Commercial uses designed to serve regional or broader markets; such as department stores, discount stores, shopping centers, hotels, and car sales; may be permitted within designated commercial areas.

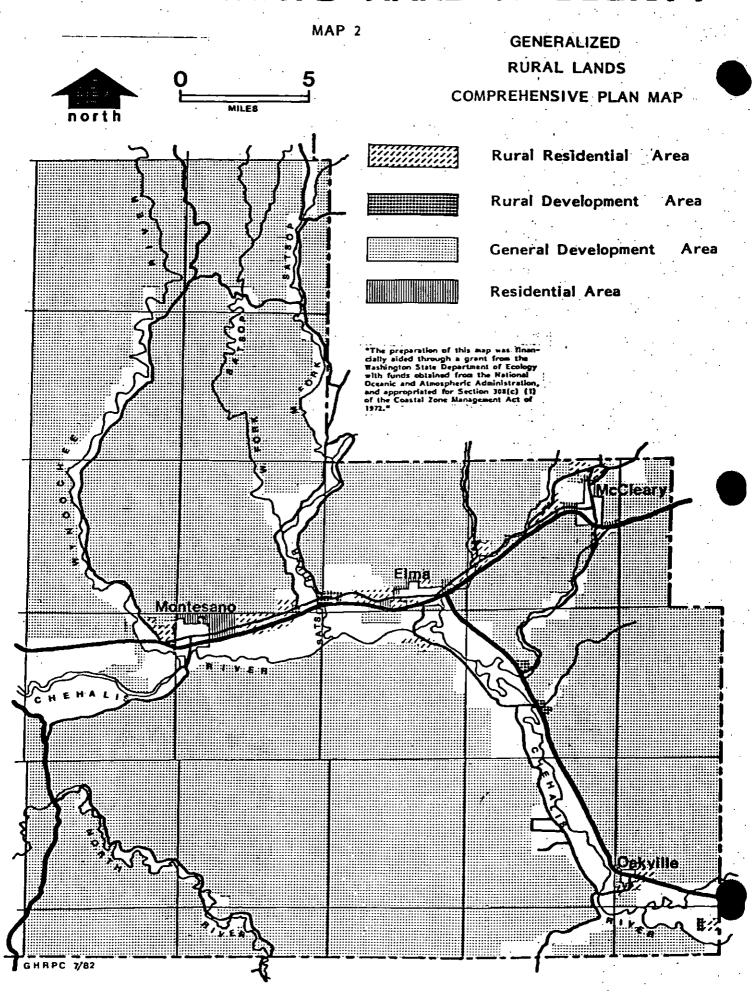
  Areas may be designated commercial provided all of the following criteria are met:
  - (a) The site is free of natural hazards which would adversely impact the intended use.
  - (b) The site had adequate facilities and services, including waste disposal, water supply, and fire protection.
  - (c) The site is directly accessable to primary state highways at an existing intersection and development of the site will not encourage or contribute to strip commercial development.
  - (d) The use is compatible with uses in the vicinity of the site.
- 6. Industrial uses which are dependent upon the natural resources of the rural lands; such as canneries, shake, shingle, and lumber mills; may be permitted if review shows all of the following criteria are met:
  - (a) The site is free of natural hazards which would adversely impact the intended use.
  - (b) This site has adequate public facilities and services, including vehicular access, waste disposal, water supply, and fire protection.

- (c) The use will not adversely impact adjacent rural uses.
- (d) The use will not encourage or promote development inconsistent with the goals, objectives, and policies for the rural lands.
- 7. Other industrial uses may be permitted within the rural lands in designated industrial areas. Areas may be designated industrial provided all of the following criteria are met:
  - 7. Other industrial uses may be permitted within the rural lands in designated industrial areas. Areas may be designated industrial provided all of the following criteria are met:
  - (a) The site is free of natural hazards which would adversely impact intended use.
  - (b) There is on-site capacity to provide needed services not provided by the public.
  - (c) The site is located along primary transportation corridors, which include state highways, and rail lines.
  - (d) The use in compatible with uses in the vicinity of the site. (pg. 9)
    - (d) The use is compatible with uses in the vicinity of the site.
- 8. Sewer and water services should be provided only to designated urban service areas. Urban service areas should be planned in an orderly manner and limited to those urbanizing areas which are needed to accommodate residential growth. The extension of services beyond urban areas into designated rural land areas shall be done in a planned and coordinated manner.
- 9. Parks and recreational areas to serve both neighborhood and regional needs should be provided within the rural lands as development occurs. Within already developed areas the county should encourage the provision of parks and recreational areas.
- 10. The clustering of residential structures shall be encouraged within the various rural lands designations to minimize the potential impacts of development, to encourage an appropriate use of difficult building sites, and to lower development costs. The overall density of the designation shall be maintained within the residential cluster.
- 11. New developments shall not increase peak surface water runoff levels above those levels generated by the site with its natural ground cover. Natural drainages shall be retained wherever possible. Natural and/or man-made drainages shall carry any unretained surface water to receiving waters which can adequately contain and convey the runoff. The surface water runoff shall be treated to the level necessary to maintain the required quality

of the receiving waters.

- 12. Recreational uses which utilize the unique resources of the rural lands and related support activities may be permitted provided the following criteria are met:
  - (a) The site is free of natural hazards which would adversely impact the proposed use.
  - (b) The site has or will be supplied with adequate facilities and services, including waste disposal, water supply, and fire protection.
  - (c) The site is served by roads adequate for the anticipated traffic loads.
  - (d) The use will require the unique resources and qualities of the rural lands.
  - (e) The use is compatible with uses in the area.
- 13. Lands within designated Urban Service Areas or planned for urban use shall be platted to encourage eventual resubdivision to appropriate urban densities when urban services become available. Prior to platting, the land shall be analyzed to determine its ultimate density. In this determination the zoning provisions of the appropriate city or town shall be considered. The land shall then be platted in a manner which will encourage resubdivision to the ultimate density. Building should be encouraged on sites which will occupy a lot at the final density.
- 14. The habitats of threatened or endangered species and locally significant natural areas should be protected from the adverse impacts of development and conversion to incompatible land uses. The critical habitats of threatened or endangered species and natural areas with exceptional scientific or biological value should be retained in their natural state. Locally significant natural areas are characterized by one of the following criteria:
  - (a) The area is a remnant of a natural community that was previously widespread within the County.
  - (b) The area in a natural state performs a unique function which is important to either continued wildlife production or human communities.
- 15. Sites of exceptional historical or archeological value should be protected from conversion to uses incompatible with the scientific study and long term protection of the site.

### EASTERN GRAYS HARBOR COUNTY



PROPOSED

POLICY TO GUIDE THE

R-1 AND R-2 ZONES

# PROPOSED POLICY TO GUIDE THE R-1 AND R-2 ZONES

#### The Residential (R) Area

Purpose: The purpose of the Residential designation is to provide for low and moderate density residential communities adjacent to developed areas where adequate facilities and services are available or can be economically provided. This policy is intended to guide the location of the Restricted Residential and General Residential zoning districts.

Description: These areas would be primarily composed of residential and accessory uses with a density generally averaging between two (2) and ten (10) units per acre.

Appropriate Uses: Although uses within the Residential areas will vary by district, they may generally include:

- (a) Residential uses including single-family dwellings, mobile homes and where permitted by the zoning district duplexes, mobile home parks, and multiple family dwellings.
- (b) Public and semi-public uses which support the development of residential communities including parks, golf courses, schools, day care centers, churches, and public utilities. As provided in the applicable zoning district, these uses should be reviewed prior to development to minimize the potential impacts on other uses.
- (c) Customary and compatible accessory uses and home occupations.

  Commercial and industrial uses shall be prohibited in the area.

  Criteria for Designation: Areas suitable for this designation include either:
  - (a) The designated urban service areas of a city, town, water or sewer district. Or;
  - (b) Areas which have all of the following characteristics:
    - (i) The area is adjacent to either the corporate limits of a city or town or the built-up portions of a developed area. Areas designated Residential shall not be more than a half mile from the corporated limits or built-up area. (See the definition of developed area.)
    - (ii) An adequate public water system shall be available to

- serve the area or expansion of a public water system into the area must be planned.
- (iii) An adequate sewer system shall be available to service the area or the area shall be suitable for the long term use of on-site septic systems at the permitted density.
- (iv) The area should be located to minimize the impact of new residences on those fire and school systems least able to accommodate growth.

#### Areas to be avoided by this designation:

- (a) Areas within the one hundred year flood plain.
- (b) Areas subject to riverbank erosion.
- (c) Areas where the available public facilities and services are not adequate to serve the development.
- (d) Areas adjacent to planned agricultural lands.
- (e) Areas of high resource value.

# PROPOSED RURAL LANDS ZONING DISTRICTS AND

GENERALIZED RURAL LANDS ZONING MAP

#### PROPOSED

#### RURAL RESIDENTIAL DISTRICT

Section 1: RURAL RESIDENTIAL DISTRICT - RR PURPOSE. The Rural Residential District is a zone classification permitting rural residential uses in areas suited for such development at densities consistent with the level of available public facilities, public services, and land capability. Provisions are included to protect the rural residential uses from objectionable influences.

Section 2: PERMITTED USES. The following uses or activities are permitted:

- Single-family dwellings and accessory buildings and uses.
- 2. The growing and harvesting of forest products.
- 3. The growing and harvesting of agricultural products and animal husbandry.
- 4. Utility facilities and structures necessary to serve the immediate area.
- 5. Parking, repairing, maintaining one heavy truck as an accessory to a residence where the person operating the truck resides on the property where the truck is to be parked.

Section 3: CONDITIONAL USES. The following uses or activities may be approved by the Board of Adjustment provided the Board finds that the provisions and requirements of the Zoning Ordinance are fulfilled.

- 1. Schools.
- 2. Churches.
- 3. Utility facilities and substations except as provided in Section 2(4).
- 4. Mobile home parks.
- 5. Kennels.
- 6. Veterinary clinics.
- 7. Riding stables.
- 8. Cemeteries and mausoleums, crematories, and mortuaries within cemetaries, provided that no mortuary or crematorium is within 100 feet of a street bordering the cemetery, or where no street borders the cemetery, within 200 feet of a residential lot.

### Proposed Rural Residential District page 2

- 9. Public and private recreational facilities, including country clubs, golf courses, swimming clubs, and tennis clubs, but not including such intensive commercial recreational uses as golf driving ranges (unless within a golf course), race track, amusement park, or gun club.
- 10. Roadside stands for the sale of agricultural products the majority of which are locally grown.
  - 11. Government structures, including fire stations, libraries, and museums; but not including storage or repair yards, warehouses, or similar uses.
  - 12. County Fair Grounds, along with accessory uses deemed appropriate by the Board of Adjustment.
  - 13. The clustering of dwelling units including the reduction of side yard setbacks, and common wall construction practices provided the Board finds all of the following criteria are met:
    - a. The overall density of one (1) unit per acre is maintained within the development and permanently guaranteed by legally binding and enforceable provisions.
    - b. The physical characteristics of the land will permit adequate water supplies and sewage disposal without adversely effecting neighboring water supplies and sewage disposal systems.

### Section 4: BUILDING SITE.

- 1. Minimum lot size: one (1) acre.
- Density: one (1) dwelling unit per acre.
- 3. Minimum Yard Requirements:
  - a. Front Yard: twenty-five (25) feet if the lot fronts on an access road or thirty-five (35) feet if the lot fronts on a major collector, minor collector, urban collector, state or federal highway.
  - b. Side Yard: twenty (20) feet if an interior lot or thirty-five (35) feet if the corner lot is on a minor collector, major collector, state or federal highway.
  - c. Rear Yard: twenty-five (25) feet.
- 4. Minimum lot width: seventy (70) feet.
  - 5. Maximum lot coverage: thirty-three percent (33%) of the total lot area.

<u>Section 5</u>: ACCESS. Every principal building shall have access to a public road, street, or highway.

<u>Section 6</u>: OFF-STREET PARKING. Off-street parking shall be provided as required in Article XI.

Section 7: PROHIBITED USES AND STRUCTURES. All uses and structures which are not specifically permitted by right or by conditional use permit shall be prohibited in the Rural Residential District.

#### **PROPOSED**

#### GENERAL DEVELOPMENT 1 DISTRICT

Section 1: GENERAL DEVELOPMENT 1 DISTRICT -GD-1 PURPOSE. The General Development 1 District is a zone classification designed to encourage, strengthen, and revitalize rural development centers as identified in the Comprehensive Plan. The district permits a wide variety of uses with provisions intended to ensure the compatibility of uses within the rural centers and their continued attractiveness for development.

<u>Section 2</u>: PERMITTED USES. The following uses or activities are permitted:

- 1. Single family dwellings and accessory buildings and uses.
- Public and semi-public uses including schools, parks, churches, and cemeteries.
- 3. Agricultured, silvicultural uses, the growing and harvesting of forest products and associated uses of a rural nature.
- 4. Commercial uses which serve the surrounding local markets as evidenced by a gross floor area of less than 5,000 square feet, such as retail stores and shops, offices, service stations, personal service offices, eating and drinking establishments, and feed and seed stores when each of the following criteria are met:
  - a. The site is adjacent to an existing commercial use.
  - b. The site fronts on a minor collector, major collector, state or federal highway.
  - c. Any light, glare, and signs shall be directed away from neighboring residential areas.
- 5. Parking, repairing, and maintaining one heavy truck as an accessory use to a residence where the person operating the truck resides on the property where the truck is to be parked.

<u>Section 3:</u> CONDITIONAL USES. The following uses or activities may be approved by the Board of Adjustment provided the Board finds that all of the following criteria which apply to the proposed use are fulfilled.

- 1. Mobile home parks.
- 2. Recreational vehicle parks and campgrounds.

- 3. Multi-family dwellings; provided adequate waste disposal methods and water supplies can be provided.
- 4. Public and private recreational facilities, including country clubs, golf courses, swimming clubs, riding stables, and tennis clubs, but not including such intensive commercial recreation uses as a golf driving range (unless within a golf course), race track, amusement park, or gun club.
- 5. Commercial uses which serve the surrounding local markets as evidenced by a gross floor area of less than 5,000 square feet provided that all of the following criteria are met:
  - a. The site and area meet the locational criteria in the Rural Lands Element of the County Comprehensive Plan and other applicable provisions of the plan.
  - b. The characteristics of the proposed use and its location will not introduce an incompatible or hazardous condition to the immediate area.
  - c. The location of the proposed use is such as to warrant the future zoning of a commercial district or is the logical extension of an existing commercial district or area.
- 6. Forest product processing plans appurtenant to a residential use provided all of the following criteria are met:
  - a. The property is currently occupied by a residence.
  - b. The use is owned by the resident occupant of the property.
- 7. Agricultural and forest products processing plants and associated uses (except those permitted in 6 above), and the storage, repair and maintenance of more than one truck provided all of the following criteria are met:
  - a. The site has a minimum size of five (5) acres.
  - b. The use will not generate any noxious fumes or odors.
  - c. An adequate stormwater drainage system will be developed.
  - d. The site fronts on and has direct access to a major collector, state, or federal highway.
  - e. Access to the site is designed to minimize truck traffic through residential areas.
  - f. All outdoor storage areas adjacent to residential or commercial uses shall be set back at least fifty (50) feet from the property line(s) abutting a residential or commercial use and a six (6)

foot sight obscuring fence or open six (6) foot fence screened with sight obscuring living evergreen plants six (6) feet in height shall be constructed, planted, and maintained for the duration of the use on said set back line(s).

- g. All of the negative impacts determined through SEPA review of the proposal have been mitigated.
- h. The characteristics of the proposed use and its location will not introduce an incompatible or hazardous condition to the immediate area.
- 8. The clustering of dwelling units including the reduction of side yard setbacks, and common wall construction practices provided all of the following criteria are met:
  - a. The overall density of one (1) unit per acre is maintained within the development and permanently guaranteed by legally binding and enforceable provisions.
  - b. The physical characteristics of the land will permit adequate water supplies and sewage disposal without adversely effecting neighboring water supplies and sewage disposal systems.

#### Section 4: BUILDING SITE.

- 1. Minimum lot size: one (1) acre.
- 2. Density: one (1) dwelling unit per acre.
- 3. Minimum Yard Requirements:
  - a. Residential Uses:
    - (i) Front Yard: twenty-five (25) feet if the lot fronts on an access road or thirty-five (35) feet if the lot fronts on a major collector, minor collector, urban collector, state or federal highway.
    - (ii) Side Yard: twenty (20) feet if an interior lot or thirty-five (35) feet if the corner lot is on a minor collector, major collector, state, or federal highway.
    - (iii) Rear Yard: Twenty-five (25) feet.
  - b. Commercial and Industrial Uses:
    - (i) Front Yard: the setback shall equal the height of each building(s) or thirty-five (35) feet whichever is greater.

- (ii) Side and Rear Yards: the setback shall equal the height of each building or twenty-five (25) feet whichever is greater. Any side or rear lot lines adjacent to residential uses or lots of less than one (1) acre shall be landscaped and maintained with living evergreens at least four (4) feet in height, provided that the sight distances required in subsections 10.40 (4) of this ordinance are maintained. This requirement shall be exempt from subsections 10.04 (2) and (3).
- 4. Minimum lot width: seventy (70) feet.
- 5'. Maximum lot coverage: thirty-three percent (33%) of the total lot area.

<u>Section 5</u>: ACCESS. Every principal building shall have access to a public road, street, or highway.

Section 6. OFF-STREET PARKING. Off-street parking shall be provided as required in Article XI.

<u>Section 7.</u> PROHIBITED USES AND STRUCTURES. All uses and structures which are not specifically permitted by right or by conditional use permit shall be prohibited in the General Development 1 District.

#### **PROPOSED**

#### GENERAL DEVELOPMENT 5 DISTRICT

Section 1: GENERAL DEVELOPMENT DISTRICT - GD-5 PURPOSE. The General Development 5 District is a zone classification permitting a wide range of uses appropriate for rural areas at densities consistent with the level of available public facilities, public services, and the physical characteristics of the areas included within the District. The District includes provisions to encourage compatibility between neighboring land uses.

Section 2: PERMITTED USES. The following uses or activities are permitted:

- 1. Agricultural uses and associated uses or a rural nature including road-side stands for the sale of agricultural products the majority of which are locally grown.
- 2. Single family dwellings and accessory buildings and uses.
- Public and semi-public uses, including schools, parks, churches, museums, and cemeteries.
- 4. The growing and harvesting of forest products, silvicultural uses, and associated uses of a rural nature.
- 5. Dams, electric power plants, flowage areas, transmission lines and stations together with necessary accessory buildings.
- 6. Game and fish rearing and management.
- 7. Riding academies.
- Watersheds.
- 9. Parking, repairing, maintaining one heavy truck as an accessory use to a residence where the person operating the truck resides on the property where the truck is to be parked.

Section 3: CONDITIONAL USES. The following uses and activities may be approved by the Board of Adjustment provided the Board finds that all of the following criteria which apply to proposed use are fulfilled.

- 1. Recreational vehicle parks and campgrounds.
- 2. Sanitary fill sites.
- 3. Automobile wrecking.
- 4. Commercial uses which serve the surrounding local markets as evidenced by a gross floor area of less than 5,000 square feet may be permitted provided that all of the following criteria are met.

- a. The site is served by public facilities and services adequate for the proposed use, including waste disposal, water supply, and fire protection; or the applicant can adequately provide the needed services.
- b. The site is located within the vicinity of an existing intersection along major circulation routes. Major circulation routes are defined as designated arterials, primary state highways, and freeways.
- c. Permitting the commercial use at the proposed location will not encourage additional commercial development.
- d. The characteristics of the proposed use and its locations will not introduce an incompatible or hazardous condition on the immediate area.
- 5. Agricultural and forest products processing plants, and associated uses and structures, trucking terminals, truck storage, repairs, and maintenance provided all of the following criteria are satisfied:
  - a. The proposed use is compatible with the character of area in which it is to locate and any existing or planned land uses within the area.
  - b. Access to the site is designed to minimize truck traffic through residential areas and the traffic generated by the use will not adversely impact residential areas.
  - c. The characteristics of the proposed use and its location will not introduce an incompatible or hazardous condition to the immediate area.
- 6. Motor vehicle sports and recreation facilities including race tracks, race courses, and motorcross tracks.
- 7. The clustering of dwelling units including the reduction of side yard setbacks, and common wall construction practices provided all of the following criteria are met:
  - a. The overall density of one unit per five (5) acres is maintained within the development and permanently guaranteed by legally binding and enforceable provisions.
  - b. The physical characteristics of the land will permit adequate water supplies and sewage disposal without adversely effecting neighboring water supplies and sewage disposal systems.

#### Section 4: BUILDING SITE.

- 1. Minimum lot size: five (5) acres.
- 2. Density: one dwelling unit per five (5) acres.
- 3. Minimum Yard Requirements:
  - a. Residential:
    - (i) Front Yard: twenty-five (25) feet if the lot fronts on a access road or thirty-five (35) feet if the lot fronts on a major collector, minor collector, urban collector, state or federal highway.
    - (ii) Side Yard: twenty (20) feet if an interior lot or adjacent to an access road. Thirty-five (35) feet if the corner lot is on a minor collector, major collector, state or federal highway.
    - (iii) Rear Yard: twenty-five (25) feet.
  - b. Commercial and Industrial uses:
    - (i) Front Yard: The setback shall equal the height of the building(s) or thirty-five (35) feet whichever is greater.
    - (ii) Side and Rear Yards: The setback shall equal the height of each building or twenty-five (25) feet whichever is greater.
- 4. Minimum lot width: one hundred (100) feet.
- 5. Maximum lot coverage: thirty-three percent (33%) of the total lot area.

<u>Section 5</u>: ACCESS. Every principal building shall be located on a lot, parcel or tract of land which:

- a. Has frontage on or direct access to a road, street, or highway dedicated to public use; or,
- b. Has frontage on and direct access to a private road or easement.

Section 6: OFF-STREET PARKING. Off-street parking shall be provided as required in Article XI.

<u>Section 7: PROHIBITED USES AND STRUCTURES.</u> All uses and structures which are not specifically permitted by right or by conditional use permit shall be prohibited in the General Development 5 District.

# PROPOSED ZONING DEFINITIONS OF CLUSTERING AND DENSITY

Section 2.21.1: CLUSTERING. A development design technique that concentrates buildings in specific areas on the site to allow the remaining land to be used for recreation, common open space, and protection of natural features. This is accomplished through the reduction of area, height, and bulk requirements while maintaining the density within the development required by the zoning district. Clustering, unless authorized by a planned unit development, shall only be allowed within zoning districts in which it is specifically authorized as a permitted or conditional use.

The term clustering does not apply to the construction more than one permitted building on one lot where the area, height, bulk, and other district requirements are fully met and the lot and building remain in a single ownership.

Section 2.26.1: DENSITY. The number of dwelling units per acre including all land within the boundaries of the designated site.

# PROPOSED COMMUNITY PLAN COORDINATION ELEMENT

# GRAYS HARBOR COUNTY COMPREHENSIVE PLAN COMMUNITY PLAN COORDINATION ELEMENT

#### GOAL

To ensure the continued development of a balanced land use pattern with adequate areas for housing, commerce, industry, agriculture, forestry, recreation, and other uses through the development of a coordinated land use plan.

#### **OBJECTIVES**

- 1. To encourage the development of urban land uses within areas designated to be served by urban facilities and services.
- 2. To promote appropriate land uses within suitable areas.
- 3. To ensure the coordination of the region's land use pattern by considering the plans and concerns of cities, towns, and other affected agencies during the development and administration of county plans and implementing ordinances.
- 4. To encourage cities, towns, and other agencies to consider county plans and concerns during the development and administration of their plans and implementing ordinances thereby ensuring the continuity of land uses throughout the region.
- To ensure that county, regional, city, and town development plans, programs, and policies are well coordinated and integrated.
- 6. To ensure that jointly adopted plans, programs, and policies are incorporated into land use, public facilities, and public services decisions.
- 7. To coordinate amendments and updates to jointly adopted plans with all affected jurisdictions.
- 8. To encourage the joint review of development proposals which because of size, location, or public services needs affect more than one jurisdiction.

#### POLICIES

1. The following Comprehensive Plans have been adopted by their respective jurisdictions, reviewed by the County, and found to be consistent with the Grays Harbor County Comprehensive Plan and to incorporate County concerns. These Comprehensive Plans are hereby adopted by reference as elements of the Grays Harbor County Comprehensive Plan to guide decisionmaking within the areas to which they apply.

The City of Montesano Comprehensive Plan.

The City of Elma Comprehensive Plan.

The City of Oakville Comprehensive Plan.

The Town of McCleary Comprehensive Plan.

The City of Cosmopolis Comprehensive Plan.

- 2. Residential and commercial growth should be encouraged in areas designated for urban services including water, sewer, and other public services.
- 3. The County shall encourage the joint adoption of other plans, plan amendments, and plan updates, which include or affect areas of unincorporated Grays Harbor County. The following procedure will be used to consider joint adoption.
  - (a) During plan development county policymakers, staff, and affected county residents should be involved in the planning process. The proposed plan should be coordinated with the county comprehensive plan.
  - (b) After adoption by the sponsoring jurisdiction, the plan should be submitted to the county for review by county staff and the planning commission. After review for consistency with adopted county plans and the inclusion of county concerns, the planning commission should either adopt or reject the plan and transmit the plan to the County Commissioners. When the planning commission wishes to amend a plan before adoption, major amendments should be coordinated with the sponsoring jurisdiction.
  - (c) The County Commissioners should review the plan proposed for joint adoption and the action of the planning commission for consistency with adopted county plans and the inclusion of county concerns. The Commissioners should then either adopt, reject, or amend the plan. Major amendments should be coordinated with the sponsoring jurisdiction.

Plans adopted through the joint adoption process should be incorporated by reference into the County Comprehensive Plan through amendment of policy 1 of the Community Plan Coordination Element.

- 4. The jointly adopted plans should guide county decisions on rezones, conditional uses, site plans, subdivisions, the provision and extension of public facilities and services, appropriate densities, land use plan revisions, and other land use matters within the areas to which they apply.
- 5. In evaluating development proposals the county should be guided by any jointly adopted land use plans which apply. Where the jointly adopted plans do not provide adequate guidance, or the potential for disagreements of interpretation exists and either the size, location, or public services needs of the proposal affect jurisdictions other than the county, the development proposal should be jointly reviewed by the county and affected jurisdictions. Joint review should be undertaken simultaneously to ensure the concerns of all parties are included in the deliberations, to prevent delay of the proposal, and to increase the level of certainty for the proponent if the proposal is approved.
- 6. To ensure coordination between jurisdictions, the county shall inform affected jurisdictions, special districts, and state agencies of development proposals which may impact their development plans, facilities, or other areas of special concern to the jurisdiction or agency. The notification will be carried out through the coordination provisions of the State Environmental Policy Act. To ensure that the affected jurisdictions are informed of the development proposals, the county shall distribute the SEPA checklist and any Environmental Impact Statements prepared for the proposal to the jurisdiction or agency.

- 7. The purpose of joint review is to assist the county decisionmakers in evaluating the impact of land use proposals on affected jurisdictions. While the county will solicit recommendations from affected jurisdictions, the recommendations can only be advisory since the county bears the legal responsibility for its decisions. The recommendations of affected jurisdictions may include: (a) how the proposal will affect the jurisdiction and the region, (b) recommendations to improve the proposal, (c) whether the jurisdiction will approve any request(s) by the applicant for access and/or any public services together with any conditions of approval, and (d) to recommend the county approve or deny the proposal.
- 8. Development proposals where the applicant will request water, sewer, and/or other public services from a city, town or special district shall be sent to proposed service provider for review and comment. The development proposal shall not be approved by the county unless the provider has agreed in writing to provide the service(s). Any conditions required by the service provider should also condition approval of the proposal by the county.
- 9. The County should encourage community comprehensive plans to designate urban services areas. Urban services areas are those lands that cities, towns, and special districts intend to incorporate into their communities and provide with urban services, such as water and sewer.
- 10. Within jointly planned areas, development proposals which require water, sewer, and/or other urban facilities and services shall only be permitted within designated urban services areas.
- 11. The expansion of urban services areas to permit new developments and the associated extension of water and/or sewer services should be coordinated with comprehensive plans, public facility plans, and affected jurisdictions. Expanded urban services areas should be directed away from agricultural lands and other areas of high resource value.
- 12. Additional community water and sewer systems operated by new service providers should be discouraged within urban services areas.
- 13. Special district plans should be coordinated and consistent with the County Comprehensive Plan and the adopted plans of cities, towns, and other special districts. When reviewing or approving special district plans, the county should evaluate the plans for consistency with adopted comprehensive and public facilities plans.

# PROPOSED COMPREHENSIVE PLAN DEFINITIONS

# GRAYS HARBOR COMPREHENSIVE PLAN COMPREHENSIVE PLAN DEFINITIONS

In the context of the Grays Harbor County Comprehensive Plan certain words take on more specific and more definite meanings then in general useage. These are defined to clarify the meaning of the comprehensive plan. Unless the context clearly indicates a different meaning the following words and terms shall be defined as follows.

CLUSTERING: A development design technique that concentrates buildings in specific areas on the site to allow the remaining land to be used for recreation, common open space, and protection of natural features. This is accomplished through the reduction of area, height, and bulk requirements while maintaining the density within the development required by the zoning district.

COMPREHENSIVE PLAN: The policies and proposals approved and recommended by the planning agency or initiated by the board and approved by motion by the board (a) as a beginning step in planning for the physical development of the county; (b) as the means for coordinating county programs and services; (c) as a source of reference to aid in developing, correlating, and coordinating official regulations and controls; and (d) as a means for promoting the general welfare. Such plan shall consist of the required elements and may also include the optional elements set forth in state law which shall serve as a policy guide for the subsequent public and private development and official controls so as to present all proposed developments in a balanced and orderly relationship to existing physical features and governmental functions.

DENSITY: The number of dwelling units per acre including all land within the boundaries of the designated site.

DEVELOPED AREA: An area of compact, continuous development containing residences, businesses, and other land uses served by a water system(s), a road system and other public facilities. The built-up portion of the developed area is

the area of contiguous development.

ELEMENT: One of the various categories of subjects, each of which constitutes a component part of the comprehensive plan

#### GOALS, OBJECTIVES, POLICIES:

- (a) Goals: are the general statement of the desired long-term future state towards which the plan aims.
- (b) Objectives: are the statement of the desired short-term and measurable aims of the plan; these aims reinforce and lead to the goals.
- (c) Policies: are directions for specific actions and guides for specific decisions, both legislative and administrative, so that these actions and decisions reinforce the plan's goals and objectives.

JOINT REVIEW: A procedure through which the county and other affected governmental jurisdictions concurrently review a development proposal to ensure that the concerns and recommendations of all effected jurisdictions are available to the county decisionmakers.

JOINTLY ADOPTED PLANS: A comprehensive plan adopted by both the county and one or more cities, towns or special districts to guide decisionmakers within the areas to which they apply. A jointly adopted plan is an element of the Grays Harbor County Comprehensive Plan.

JOINTLY PLANNED AREA: The portion of the County included within the planning area of a jointly adopted plan.

#### MAY, SHOULD, SHALL:

- (a) May: indicates that some action might be undertaken if the official body, after viewing the evidence, decides it is useful or desirable and in keeping with the plan. It does not, however, confer any obligation to undertake or permit the action.
- (b) Should: indicates that a particular action will be done unless the official body finds a compelling reason against it.
- (c) Shall: indicates a mandate; i.e. the particular action must be done.

ROAD: That property which provides vehicular circulation or other means access to abutting properties and which may also include provisions for public utilities, pedestrian walkways, bridges, pathways for bikes or horses, open space, cut and fill slopes, and drainage.

(a) Local Access Road: A road used primarily for access to abutting properties.

- (b) Major Collector Arterial: A road intended to move through traffic to and from major attractions such as residential neighborhoods, shopping districts, industrial areas, and similar traffic generators; and/or as a route for traffic between communities or large areas.
- (c) Minor Collector Arterial: A thoroughfare which primarily carries traffic from local roads to major collector arterials. Minor collector arterials are established by the Board of County Commissioners per R.C.W. 36.06.070 and reported to the Secretary of the State Department of Transportation.

RURAL DEVELOPMENT CENTER: A small rural community which may include business and industries. Examples include Malone, Satsop, Brady, and White Star.

SPECIAL DISTRICTS: A limited purpose local government agency created under Washingtion State law. Examples include water, sewer, and drainage districts.

URBAN SERVICES AREA: Those lands that cities, towns, and special districts intend to incorporate into their communities or service areas and provide with urban services, such as water or sewer. Urban services areas are designated in a jurisdictions comprehensive plan or the county comprehensive plan.



#### APPENDIXES



#### APPENDIX A

### RURAL LANDS RECOMMENDATIONS

(November 1982 Revision)

### ACREAGE IN EACHWZONING DISTRICT

#### EASTERN GRAYS HARBOR COUNTY

DISTRICT	SYMBOL	ACREAGE	MINIMUM LOT SIZE
General Development 5*	GD-5	387,929	5 acres
General Development 1*	GD-1	594	1 acre
Rural Residential*	RR ,	4,873	l acre
General Residential	R-2	1,468	10,000 sq. ft.
Tourist Commercial	C-1	11	<u>-</u>
General Commercial	C-2	66	· -
Industrial Park	1-1	98	<del>.</del> .
Industrial	I-2	209	-
Manufacturing	M	<u>396</u>	· - ·
TOTAL		395,644	

#### NOTES:

\*Proposed zoning district.

The recommendations propose deleting the Agricultural (the 1969 Agricultural) zoning district and modifying the existing General Development zoning district.

The other zoning district texts will not be changed.

#### APPENDIX B

#### EXISTING ZONING

# ACREAGE IN EACH ZONING DISTRICT EASTERN GRAYS HARBOR COUNTY

DISTRICT	SYMBOL	ACREAGE	MINIMUM LOT SIZE
Agricultural (1969 Agricultural District)	<b>A</b>	31,006	10 Acres
General Development	G	358,359	5 Acres
Restricted Residential	R-1	18	15,000 sq. ft.
General Residential	R-2	5,623	10,000 sq. ft.
Resort Residential	R-3	22	7,200 sq. ft.
Tourist Commercial	C-1	31	<del>-</del> ' ·
General Commercial	C-2	66	-
Industrial Park	1-1	98	· -
Industrial	1-2	128	, <del>-</del>
Manufacturing	М	293	<b>-</b>
TOTAL		395,644	

#### APPENDIX C

### RESOLUTION 79/102

WHEREAS, development of rural land within Grays Harbor County is of primary importance to the future of the county, and

WHEREAS, decisions related to development of rural lands are being made without benefit of overall policies and rural development.

5 day of October 1979.

#### NOW THEREFORE, BE IT RESOLVED;

Approved this

- --That the Planning Commission is hereby requested to study the location and physical characteristics of rural land to dertermine if current planning is appropriate and serves the needs of the County and its residents. And further to make recommendations to the Board of County Commissioners related thereto.
- --To request that the Grays Harbor Regional Planning Commission assist the County Planning Department in providing staff and informational services to the committee.

2111/11/11	
ATTEST: Williams Voyle County Augitor	hairman
	Commissioner
	Mumans Commissioner
	Conumissioner



# RURAL LANDS STUDY



FINAL ENVIRONMENTAL

IMPACT STATEMENT (FEIS)



NOVEMBER 1982

GRAYS HARBOR COUNTY



THE GRAYS HARBOR
REGIONAL PLANNING COMMISSION

#### SUMMARY

OF THE

#### COMMENTS RECEIVED

ON THE

#### DRAFT ENVIRONMENTAL IMPACT STATEMENT

#### FOR THE

#### RURAL LANDS RECOMMENDATIONS

A number of substantial comments from several persons and agencies have been received on the Draft Environmental Impact Statement for the Rural Lands Recommendations. The following is a summary of these comments. The comments and the responses to these comments by the authors of the EIS are found on the next several pages.

## Summary of Comments from the Public Hearing and Public Meeting

The following comments on the Rural Lands Recommendations were received at a public hearing held on October 4, 1982 and a work session held November 1, 1982.

- Adequate groundwater resources must be available in areas proposed for a density of one unit per acre. Is the groundwater available?
- Development at a density of one unit per acre has the potential to contaminate groundwater resources in certain areas where a one acre density is proposed by the recommendations.
- Cloquallam Creek is an important fishery, recreational, and open space resource for the residents of eastern Grays Harbor County. The rural character of the lands bordering the creek should be maintained to protect these resources. The one acre plan designation along parts of the creek will not maintain this character.
- The Rural Lands Recommendations will change the existing low density rural character of some parts of east Grays Harbor County.
- To much land is proposed within the two new one acre zones; this large amount of land in one acre zones is not needed and could result in a shortage of five acre parcels.
- More land should be included in the one acre zones.
- One parcel currently zoned Restricted Residential (R-2) and proposed to be zoned at a density of one unit per acre is suitable for the R-2 zone and should remain R-2.
- The Rural Lands Recommendations will cause a significant increase in the population of east Grays Harbor County.
- All property owners in eastern Grays Harbor County should be notified of the Rural Lands Study.
- The Rural Lands Study is a good idea and should be adopted with some adjustments.

#### Summary of Written Comments

- The Grays Harbor Conservation District Board of Supervisors commented that the Rural Lands Recommendations are in conformance with Conservation District goals, but noted that the county should adopt measures to discourage poor development practices, for example requiring the prompt seeding of cuts, to minimize the erosion and siltation that would result from the development permitted by the recommendations.
- The Washington State Department of Transportation (WSDOT) commented that State Route 12 through Central Park was not as hazardous as stated in the section on Existing Traffic Hazards on page 59. The Department also commented that entrances to and exits from State Route 12 east of Montesano have accident rates below the statewide averages for all similar facilities.
- The Washington State Department of Game commented that overall the DEIS appeared adequate and the plan worthy of support. They support several of the potential mitigating measures and suggested that 100 foot buffer strips be left adjacent to streams, swamps, and other types of wetlands as an additional means of lessening the impacts of development. The Department also requested additional information on certain parts of the recommendations.

#### COMMENTS RECEIVED

#### ON THE

### DRAFT ENVIRONMENTAL IMPACT STATEMENT

#### FOR THE

#### RURAL LANDS RECOMMENDATIONS

#### AND

#### RESPONSES

This section will provide the responses to the comments on the Draft Environmental Impact Statement for the Rural Lands Recommendations beginning with the oral comments and then the written comments. To enable cross referencing, the comments on each letter are numbered. The numbers are found on the letters left hand margins. The first comment on the first letter is comment 1.1 and so on.

### Comments from the Public Hearing and Public Meeting

Comment: Adequate groundwater resources must be available in areas proposed for a density of one unit per acre. Is the groundwater available?

Response: Policies 2.1 and 2.2 require that the areas in which the two new one acre zones are located "have an adequate supply of groundwater given the one acre density or access to a community water system" With the minor changes to the mapped planning designations and zones made by staff, the available information indicates that adequate supplies of groundwater are available to the areas now proposed for inclusion within the one acre minimum lot size rezones. Maps 2A and 2B show the modified one acre plan designations and zones.

On the Rural Lands Element Comprehensive Plan Map (Map 2A), the Rural Residential and Rural Development Areas are the two one acre plan designations. On the Generalized Rural Lands Zoning Map (Map 2B), the Rural Residential (RR) and General Development-1 (GD-1) Districts are the two one acre minimum lot size zoning districts. Appendix A displays the acreage new proposed for inclusion in the various zoning districts. It is anticipated these acres may change somewhat as more information becomes available to staff.

<u>Comment:</u> Development at a density of one unit per acre has the potential to contaminate groundwater resources in certain areas where a one acre density is proposed by the recommendations.

Response: Policies 2.1 and 2.2 require that the areas included in the two new one acre zones avoid "(e)xtensive areas of soils with a poor suitability for onsite waste disposal systems and areas where septic systems may contaminate groundwater resources." The available data and consultations with the County Health Department show the recommendations direct residential development into those areas most suitable for septic systems. These provisions will lessen the risk of groundwater pollution.

Comment: Cloquallam Creek is an important fishery, recreational, and open space resource for the residents of eastern Grays Harbor County. The rural character of the lands bordering the creek should be maintained to protect these resources. The one acre plan designation along parts of the creek will not maintain this character.

Response: By checking the areas zoned for one acre residential use and their conformance to the Rural Lands Policies and adjusting the boundaries of those areas which did not meet the criteria, the one acre zoning has pulled back from much of Cloquallam Creek. Adequate review of land divisions, the potential mitigating measures included in the Draft EIS and, perhaps, those proposed by the Department of Game should be sufficient to protect Cloquallam Creek.

Comment: The Rural Lands Recommendations will change the existing low density rural character of some parts of east Grays Harbor County.

Response: The Draft EIS noted this would occur. The change would, however, be less pronounced than that resulting from current trends.

Comment: To much land is proposed within the two new one acre zones; this large amount of land in one acre zones is not needed and could result in a shortage of five acre parcels.

Response: Current population projections show the future population of east Grays Harbor County will not require the 5,467 acres classified within one acre minimum lot size zoning districts by the Rural Lands Recommendations. Whether this is "to much" is a policy determination. Given the large number of five acre lots created in the last five years and the large amount of acreage proposed for the General Development 5 zone, a shortage of five acre lots is unlikely.

Comment: More land should be included in the proposed one acre zones.

Response: At present all lands which staff and the Planning Commission know to meet the criteria in the Rural Lands policies are included within the one acre zones.

 $\underline{\text{Comment}}$ : One parcel currently zoned Restricted Residential (R-2) and proposed to be zoned at a density of one unit per acre is suitable for the R-2 zone and should remain R-2.

Response: If the property can be shown to meet the proposed policy to guide the R-1 and R-2 zones, it should be included within the R-2 zone.

Comment: The Rural Lands Recommendations will cause a significant increase in the population of east Grays Harbor County.

Response: As the Draft EIS noted in section 6.A.1.2 Population, the Rural Lands Recommendations are not expected to influence overall population growth in east Grays Harbor County, it will tend to influence the distribution of the population.

Comment: All property owners in eastern Grays Harbor County should be notified of the Rural Lands Study.

Response: The Rural Lands Study has received extensive publicity. Notification of individual property owners is not required in a legislative rezone. A listing of persons and organizations interested in the Rural Lands Study is kept. All persons on that list are notified of all hearings and sent all published materials including the Draft and Final EIS - free. All materials are available free to any person or organization.

Comment: The Rural Lands Study is a good idea and should be adopted with some adjustments.

Response: Noted.

Comment: Map 12 on page 62 of the Draft EIS on the Rural Lands Recommendations does not include the Porter Fire Station.

Response: Please substitute the attached revision of Map 12 for Map 12 on page 62 of the Draft Environmental Impact Statement. Please note that the fire protection service classifications on Map 13 included the Porter Fire Station in the development of the classifications.

#### Written Comments

A. Comments of the Grays Harbor Conservation District Board of Supervisors.

The Board of Supervisors is a group of county residents elected at the Conservation Districts annual meeting to represent property owners in Grays Harbor County concerned with promoting the wise use and conservation of natural resources.

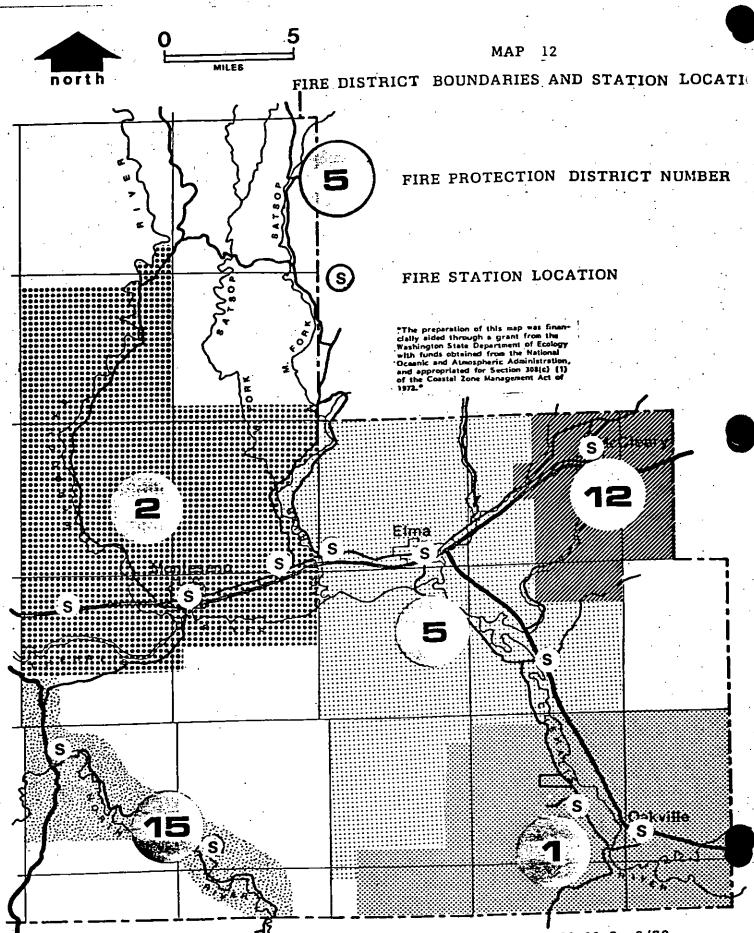
Comment 1.1: The Study proposals are in conformance with Conservation District goals to limit urban sprawl and development to existing urban areas of the county on soils best suited to urban land use.

Response: Noted.

Comment 1.2: Page 24, paragraph 1.3 - The Board questioned why the last measure may not be feasible at the present time? After much discussion it was moved and seconded that we recommend that the county should adopt a requirement to insure good development practices, such as properly designed roads that are promptly seeded to assure that exposed areas have minimum erosion and siltation control.

Response: The second set of potential mitigation measures referred to in the first paragraph of section 6.A.1.3 includes requirements that cleared areas be seeded within a reasonable period of time, that grading and clearing plans be reviewed to assure excessive erosion will not result, and reasonable steps be taken to minimize erosion and siltation during construction. The county currently does not have any controls on these activities outside of those areas subject to Washington State Shorelines

## EASTERN GRAYS HARBOR COUNTY



SOURCE: Grays Harbor Baseline/Monitoring Data; Map # GH-M. 32.11.2, 6/79,

Management Act juridiction or the provisions the county flood plain hazard zone. Staff had, perhaps erroneously, concluded that such provisions could not be applied to other areas of the county given the present political climate. If a broad based group such as the Grays Harbor Conservation District Board of Supervisors support these types of measures, then perhaps they can be successfully adopted and implemented.

B. Comments of the Washington State Department of Transportation.

Comment 2.1: The Washington State Department of Transportation (WSDOT) commented that State Route 12 through Central Park was not as hazardous as stated in the section on Existing Traffic Hazards on page 59. The Department also commented that entrances to and exits from State Route 12 east of Montesano have accident rates below the statewide averages for all similar facilities.

Response: Please substitute the following section for section 6.B.3.1 Existing Tramsportation and Circulation - Traffic Hazards.

#### Traffic Hazards

There are currently several significant traffic hazards in eastern Grays Harbor County. These hazards are summarized below.

Two areas on State Route 12 have been identified as hazardous on the basis of fatal accidents, rather than total accidents. These areas are in the vicinity of Bryrwood Drive (Central Park Area) which has a state wide priority rating of 76 and a county road intersection at mile post 22.30 (1 mile south of the SR-8/SR-12 Interchange) which has a rating of 80. Both of these areas are at grade intersections between a county road and State Route 12. While neither area is ranked sufficiently high to warrant immediate correction, the Bryrwood Drive section is included in a highway widening and channelization project which has been tentatively scheduled for advertising in the summer of 1983. At the present time, due to a lack of funds, the project has been reclassified as a programmed project with no definite construction date. The Department has no plans at the present time for corrective measures at the mile post 22.30 location.

Many of the railroad crossings where county roads meet railroad lines are quite hazardous. The hazardous crossings do not have traffic control barriers and several have limited sight distances. These hazards have contributed to a significant number of automobile-train accidents.

A number of hazards are presented by the substandard county roads serving east Grays Harbor County. A number of these roads are narrow, or have tight corners, or have poor alignment, or have poor sight distances or a combination of these problems. Some of the private roads serving exempt five acre developments are also quite hazardous. The hazardous roads tend to be narrow, to have steep grades, to be poorly aligned, and to have inadequate sight distances. As these exempt developments are built out the resulting increases in traffic will increase traffic hazards on these roads.

In general, Grays Harbor County does not have adequate design and construction standards for streets and intersections within short and long subdivisions and exempt divisions. A recent analysis of traffic safety measures in Grays Harbor County by the National Safety Council documented that the current county subdivision ordinance lacks a number of provisions necessary to ensure that streets and intersections in short and long subdivisions are safe. The National Safety Council recommended that the subdivision ordinance be expanded to include these necessary standards. Until the county subdivision ordinance is updated to include these design and construction standards, the potential exists that poorly designed, unsafe streets will be allowed within new developments.

C. Comments of the Washington State Department of Game

Comment 3.1: Overall description of potential impacts appears to be adequate. We agree that adverse effects on fish, wildlife, and habitat would inevitably occur from development. However, it is also clear that successfully channeling development into suitable areas would allow fewer impacts in the long run. Planning documents such as this can provide valuable guidance for accommodating future growth. Such efforts are worthy of support.

Response: Noted.

Comment 3.2: It would be helpful if goals, objectives, and policies were specifically enumerated in the DEIS. What other policies have direct bearing on impacts and mitigation?

Response: The Rural Lands Policies in Appendix B have a direct bearing on potential impacts and mitigation. Policies 2.1, 2.2, and 2.3 set out the criteria for designating the Rural Residential Area (a one acre minimum lot size designation) the Rural Development Area (a one acre minimum lot size designation) and the General Development Area (a five acre minimum lot size designation) respectively. As such, the policy mitigates the impact of the development accomodated by the two one acre minimum designations by directing them towards those areas most suitable for development (including areas with adequate water resources, soil suitability, and public services) and away from those areas not suitable for that level of development (including flood plains, areas of riverbank erosion, areas with unsuitable soils, and areas of high resource values.)

Policy 8 designates areas where water and sewer services are planned to be provided, lessening the potential for urban sprawl and uncoordinated extensions of public services.

Policy 9 calls for the development of parks and recreation areas where needed to lessen the potential impacts of development on recreational areas.

Policy 10 encourages the clustering of residential structures; the use of residential clustering can reduce development impacts on sensitive areas.

<sup>6</sup>National Safety Council. <u>Highway Safety Program Analysis for Grays</u>
Harbor County, Washington. (Olympia: Washington Traffic Safety Commission, 1980) p. 3-6.

Policy II establishes a county policy on stormwater runoff to lessen the impacts of new development on downstream properties, streams, wetlands, and other bodies of water. Increases in peak surface water runoff are prohibited. The retention of natural drainages is required. And, where necessary, the treatment of stormwater runoff is required.

Policy 14 calls for the protection of the habitats of threatened or endangered species and locally significant natural areas.

Policy 15 calls for the protection of sites of exceptional historical or archeological value.

Comment 3.3: Additionally, the DEIS would benefit from more specific references to other planning and legal documents used by Grays Harbor County. As an exemple, a summary of policies contained in your Flood Plain Ordinance would provide perspective for understanding the allowable scope of rural flood plain development.

Response: Noted.

Comment 3.4: Page 32, Anticipated Impacts on Surface Water Movement The stated policy will also help reduce impacts on fish and wildlife. We support amendment of the county subdivision ordinance to reflect the policy.

Response: Noted.

Comment 3.5: Page 33, paragraph 3. Use of natural drainage features and retention/protection of wetlands could aid control of storm water runoff.

Response: The Rural Lands Policies (see policy 11 in Appendix B) call for the use of natural drainage channels to reduce storm water runoff.

Comment 3.6: Page 33, Anticipated Impact on Flooding. Here it would be help-ful to summarize restrictions contained in the county Flood Plain Ordinance.

Response: Please add the following paragraph after the last paragraph in section 6.A.3.2 Anticipated Impact of the Proposal on Water Resources - Anticipated Impact on Flooding on page 33 of the Draft EIS.

Grays Harbor County has an adopted flood plain hazard overlay zoning district which meets the requirements of both the Federal Emergency Management Agency (FEMA) and the Washington State Flood Control Zone Program administered by the Washington State Department of Ecology. In general, the district contains the following requirements for development within a designated flood hazard area:

- Any structure must be elevated above the 100 year flood height.
- A permit is required for all types of development including fills.
- Adequate drainage must be provided.
- Uses or conditions which may be hazardous during a flood are prohibited.

Comment 3.7: Page 34, paragraph 3. We agree that drainage provisions should be added to county platting ordinances.

Response: Noted.

Comment 3.8: On page 35, paragraph 1, line 1 of the Draft EIS please replace the term "Secession" with "Succession."

Comment 3.9: Page 35, section 4.3. To achieve the stated policy, we strongly recommend measures to protect wetlands and riparian areas. Vegetated buffer strips of at least 100 feet would help ensure the integrity of these sensitive and important habitats.

Response: This additional mitigating measure could be added to the county's platting ordinances to implement recommended Rural Lands Policy 14.

Comment 3.10: Page 71, Parks and Recreation Facilities. We suggest that you describe public facilities operated by other governmental agencies (e.g., Department of Game, Department of Parks and Recreation, U.S. Forest Service.)

Response: Please add table 14A after page 72 of the Draft EIS for the Rural Lands Recommendations. This table summarizes the recreational facilities in unincorporated Grays Harbor County.

TABLE 14A
SUMMARY OF RECREATIONAL FACILITIES
UNINCORPORATED GRAYS HARBOR COUNTY--1981

Page 1 of 4 Ownership Federal Grays Harbor School and County Total Private Indian District State Facility Government No. Developed Recreation Sites and 114/11,181 30/4 24/1,317 14/4,883 44/4,764 2/213 Total Acres Multiple Use Acres 1 1/1,099,000 700,000 264,000 100,000 35,000 Hunting/Hiking/Camping 18 Miles of Designated Trails Wildlife Recreation Areas 3/2,655 3/2,655 #/Acres # With River Launch Area Ocean Access Areas 5/11.5 5/11.5 #/Acres 1/9 1/9 # With Day Picnic Area/acres River Fishing Access Areas 26/1,116 26/1,116 #/Acres # With Improved Launches # With Unimproved Launches . 12 12 # With Improved Parking # With Limited Parking 71,424 71,424 Miles of Waterfront Controlled Lakes 3/5,229 2/4,869 1/360 #/Surface Acres # With Launches Saltwater Regional Parks<sup>2</sup> 4/499 4/499 #/Acres 707 707 # Camping Sites # With Day Camping Facilities.

Continue to next page

TABLE 14A
SUMMARY OF RECREATIONAL FACILITIES
UNINCORPORATED GRAYS HARBOR COUNTY--1981

Page 2 of 4

	Ownership					
Facility	Grays Harbor County Government	State	Federal and Indian	School District	Private	Total
Freshwater Regional Parks 3 #/Acres # Camping Sites # With Day Camping Facilities		1/119 53 1	6/12 114 1		1/15 15 1	8/146 182 3
Other Region Serving Parks #/Acres # Camping Sites # With Day Camping Facilities		2/2 15	1/1		1/4 20 1	4/7 41 1
Day Camping Parks #/Acres # Separate Camp Sites		2/361 <sup>4</sup>			2/8 28	4/369 30
Gymnasiums and Basketball Facilities			1:	7	· .	8
Special Purpose Parks 5  #/Acres Group Camping Capacity # Picnic Sites Miles of Trails	1/150 600 50 10					1/150 600 50 10
Restricted Group Facilities #/Acres Capacity					4/181* 448*	4/181* 448*
Playgrounds With Equipment, #/acres			1/.2	_ <b>_</b> '	2/.5	11/2.5
Tennis Courts (None Lighted), #/acre	1			3/.2	2	3/.2

Continued to next page

TABLE 14A
SUMMARY OF RECREATIONAL FACILITIES
UNINCORPORATED GRAYS HARBOR COUNTY--1981

Page 3 of 4 Ownership Grays Harbor Federal and School County Total Private District Indian State Government Facility Athletic Fields 4/.5 4/.5 Football, #/Estimated Acres 4/.5 4/.5 With Lights Baseball and Soft Ball, 7/1.5 2/.4 3/.6 2/.4 #/Estimated Acres 5/1 2/.4 3/.6 With Lights 6/1 5/1 1/.2 Multi-purpose, #/Estimated Acres 1/.2 1/.2 0 With Lights Swimming Pools 1/2,400 sq. ft:\* 1/2,400 sq. ft.\* Outdoors/Size Golf Courses 3/205 3(1\*)/205 #/Acres 36 (9\*) 36 # of Holes Bicycle Course 1/800' 1/8001 #/Footage of Trails Riding Stables ' 2/860 2/860 #/Acreage 2/.5 2/.5 Size of Indoor Arena 2/1 2/1 Size of Outdoor Arena Archery -2/36 2/36 #/Acreage 22 22 # of Shooting Sites Rifle Range 1/7.5 1/7.5

3,200 sq. ft.

3,200 sq. ft.

Continuento next page

#/Acreage (3 positions)

Inside Space (4 positions)

# TABLE 14A SUMMARY OF RECREATIONAL FACILITIES UNINCORPORATED GRAYS HARBOR COUNTY--1981

Page 4 of

	Ownership					
Facility	Grays Harbor County Government	State	Federal and Indian	School District	Private	Total
Other Facilities Grays Harbor County Fairgrounds	1/63					1/63

SOURCE: Adopted Grays Harbor County Parks and Recreation Plan, 1982.

#### **EXPLANATION:**

This is not included in the development totals above as recreation is generally secondary to the commercial use of most of this area. State land and school land are combined. Trails are adjacent to the numerous miles of trails in the Olympic National Park outside of Grays Harbor County.

One saltwater park is located in Pacific County, just south of the Grays Harbor County line.

<sup>3</sup> One state park is located in Mason County, just north of the Grays Harbor County Line.

<sup>4360</sup> acres of this is included under lakes.

<sup>&</sup>lt;sup>5</sup>This is the ORV facility which is located partially in Grays Harbor and Thurston County. It is managed by Thurston County.

<sup>&</sup>lt;sup>6</sup>Adjacent to 110 linear miles of trails in Capital Forest.

<sup>&</sup>lt;sup>7</sup>This is the only developed bicycle course (a motorcross type of facility) in the unincorporated area of Grays Harbor County. A system of bicycle routes has recently been identified and designated, but none are developed.

<sup>\*</sup>Restricted use to members/guests only.

## WRITTEN COMMENTS RECEIVED

ON THE

DRAFT ENVIRONMENTAL IMPACT STATEMENT

FOR THE

RURAL LANDS RECOMMENDATIONS

# **GRAYS HARBOR**



# **CONSERVATION DISTRICT**

330 Pioneer West · Montesano, WA 98563 · (206) 249-5900

November 16, 1962

Thomas Mark, Planning Director Grays Harbor County Planning Department P. O. Box 390 Montesano, WA 98563

Dear Tom,

1.1

1.2

When the Grays Harbor Conservation District Board of Supervisors met last week, we reviewed the newly published <u>Rural Lands Study Draft Environmental Impact</u> Statement.

The Study proposals are in conformance with Conservation District goals to limit urban sprawl and development to existing urban areas of the county on soils best suited to urban land use. However, the Board acted to recommend the following change:

Page 24, paragraph 1.3 - The Board questioned why the last measure may not be feasible at the present time? After much discussion it was moved and seconded that we recommend that the county should adopt a requirement to insure good development practices, such as properly designed roads that are promptly seeded to assure that exposed areas have minimum erosion and siltation control.

Thanks for your consideration of our recommendation.

Very truly yours,

BOARD OF SUPERVISORS

Eugene H. Schloz,

Chairman

NOV 1 8 1982



. 1



### STATE OF WASHINGTON

# DEPARTMENT OF TRANSPORTATION

5720 Capitol Blvd., KT-11, Turnwater, Washington • P.O. Box 9327, Olympia, Washington 98504 Office of District Administrator •

November 9, 1982

HOY 1 6 1990

Mr. Thomas Mark, Planning Director Grays Harbor County Planning Department P. O. Box 390 Montesano, WA 98563

SR-12, SR-8, SR-107 & SR-108 in Eastern Grays Harbor County Rural Lands Study Draft Environmental Impact Statement

Dear Mr. Mark:

We reviewed the subject document as it relates to the Department's existing or proposed transportation facilities and have the following comments:

Section 3.1 Existing Transportation and Circulation-Traffic Hazards (Page 59). This section of the document states that SR-12 through Central Park is one of the most hazardous stretches of roadway in Grays Harbor County if not in the State of Washington. It is also stated that many of the crossings, entrances to and exits from SR-12 east of Montesano are hazardous.

We reviewed the Department's Priority Array Accident Analysis and found that accident rates for state highways in Eastern Grays Harbor County are below the state wide averages for all similar facilities. However, two areas on SR-12 were identified as hazardous on the basis of fatal accidents, rather than total accidents. These areas are in the vicinity of Bryrwood Drive (Central Park Area) which has a state wide priority rating of 76 and a county road intersection at mile post 22.30 (1 mile south of the SR-8/SR-12 Interchange) which has a rating of 80. While neither area is ranked sufficiently high to warrant immediate correction, the Bryrwood Drive section is included in a highway widening and channelization project which had been ter tively scheduled for advertising in the summer of 1983. At the present time, due to a lack of funds, the project has been reclassified as a programmed project with no definite construction date. The Department has no plans at the present time for corrective measures at the mile post 22.30 location.

Mr. Thomas Mark November 9, 1982 Page 2

Thank you for the opportunity to review the proposal. If there are any questions regarding our comments, please contact me at 753-7258.

Very truly yours,

D. L. BARCLAY, P. E. Acting District Administrator

BY: R. W. DUGAN, P. E. District Location Engineer

DLB/bjr RWD/RLA ELM

cc: J. Brascher E. C. File No. 2422-G



#### STATE OF WASHINGTON

#### DEPARTMENT OF GAME

600 North Capitol Way. Gl-11 • Olympia, Washington 98504 • (206) 753-5700

November 22, 1982

HO! 2 3 1982

Thomas Mark, Planning Director Grays Harbor County Planning Department Post Office Box 390 Montesano, Washington 98563

> DRAFT ENVIRONMENTAL IMPACT STATEMENT Eastern Grays Harbor County Rural Lands Study

Dear Mr. Mark:

Your document was reviewed by our staff as requested; comments follow.

Overall description of potential impacts appears to be adequate. We agree that adverse effects on fish, wildlife, and habitat would inevitably occur from development. However, it is also clear that successfully channeling development into suitable areas would allow fewer impacts in the long run. Planning documents such as this can provide valuable guidance for accommodating future growth. Such efforts are worthy of support.

It would be helpful if goals, objectives, and policies were specifically enumerated in the DEIS. Occasionally one is mentioned, as on page 35, section 4.3, where it is stated that habitats of threatened or endangered species and locally significant natural areas would be protected. This provides a good framework for evaluation. What other policies have direct bearing on impacts and mitigation?

Additionally, the DEIS would benefit from more specific reference to other planning and legal documents used by Grays Harbor County. As an example, a summary of policies contained in your Flood Plain Ordinance would provide perspective for understanding the allowable scope of rural flood plain development.

Specific comments follow:

Page 32, Anticipated Impacts on Surface Water Movement. The stated policy will also help reduce impacts on fish and wildlife. We support amendment of the county subdivision ordinance to reflect the policy.



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Page 33, paragraph 3. Use of natural drainage features and retention/protection of wetlands could aid control of storm water runoff.

Thomas Mark November 22, 1982 Page Two

- Page 33, Anticipated Impact on Flooding. Here it would be helpful to summarize restrictions contained in the county Flood Plain Ordinance.
- Page 34, paragraph 3. We agree that drainage provisions should be added to county platting ordinances.
- 8 Page 35, paragraph 1, line 1. Replace "Secession" with "Succession".
  - Page 35, section 4.3. To achieve the stated policy, we strongly recommend measures to protect wetlands and riparian areas. Vegetated buffer strips of at least 100 feet would help ensure the integrity of these sensitive and important habitats.
- Page 71, Parks and Recreation Facilities. We suggest that you describe public facilities operated by other governmental agencies (e.g., Department of Game, Department of Parks and Recreation, U. S. Forest Service).

Thank you for giving us the opportunity to respond to your document. We hope you find our comments helpful.

Sincerely,

THE DEPARTMENT OF GAME

John Carleton,

John Carleton, Applied Ecologist Environmental Affairs Program Habitat Management Division

JC:cv

cc: Agencies Region HN SPELLMAN Governor



#### STATE OF WASHINGTON

### DEPARTMENT OF ECOLOGY

Mail Stop PV-11 • Olympia, Washington 98504 • (206) 459-6000

November 15, 1982

HOY 1 6 1997

'Mr. Thomas Mark
Grays Harbor County Planning Department
P.O. Box 390
Montesano, Washington 98563

Dear Mr. Mark:

Thank you for the opportunity to comment on the draft environmental impact statement (EIS) for the rural lands study. From the information supplied in the EIS, it appears that no permits/approvals are required from the Department of Ecology for this proposal and, therefore, we have no jurisdiction.

If you have any questions, please call me at 459-6025.

Sincerely, Basbasa Ritchie

Barbara J. Ritchie

Environmental Review Section

BJR:



### APPENDIXES



#### APPENDIX A

## RURAL LANDS RECOMMENDATIONS

(November 1982 Revision)

## ACREAGE IN EACH ZONING DISTRICT

# EASTERN GRAYS HARBOR COUNTY

DISTRICT	SYMBOL	ACREAGE	MINIMUM LOT SIZE
General Development 5*	GD-5	387,929	5 acres
General Development 1*	GD-1	594	1 acre
Rural Residential*	RR	4,873	l acre
General Residential	R-2	1,468	10,000 sq. ft.
Tourist Commercial	C-1	. 11	
General Commercial	C-2	66	<b>-</b>
Industrial Park	1-1	98	-
Industrial	1-2	209	-
Manufacturing	M	396	• -
TOTAL		395,644	
	•		•

#### NOTES:

\*Proposed zoning district.

The recommendations propose deleting the Agricultural (the 1969 Agricultural) zoning district and modifying the existing General Development zoning district.

The other zoning district texts will not be changed.

#### APPENDIX B

# RURAL LANDS ELEMENT POLICIES WITH A DIRECT BEARING ON POTENTIAL IMPACTS AND MITIGATION

#### 2.1 The Rural Residential (RR) Area

Purpose: The purpose of the Rural Residential designation is to provide areas for small acreage rural residential development where compatible with the area's natural resources, natural limitations, public facilities, and public services.

Description: These areas would be primarily composed of rural residential uses with a maximum density of not more than one (1) unit per acre.

The permitted density may vary depending on the suitability of the site for development. During the platting process a determination shall be made as to whether conditions are present which limit the site's development potential. These conditions include:

- (a) Areas within the one hundred year flood plain.
- (b) Areas subject to riverbank erosion.
- (c) Areas of very steep slopes.
- (d) Areas of low suitability for on site waste disposal systems.
- (e) Areas of high groundwater tables or ponding.
- (f) Other conditions or hazards which limit development.

If any of these conditions are present, measures may be required as necessary to overcome the limitations including, but not limited to; special site designs, the clustering of structures, special construction requirements, engineered drainage and/or waste disposal systems, and reductions in the maximum permitted density. While the primary character of these areas will be rural residential, a mix of compatible forestry and agricultural uses will be permitted and encouraged.

Appropriate Uses: Uses within the Rural Residential designation may include:

(a) Residential uses including single-family dwellings, mobile homes, and mobile home parks at a density of not more than(1) dwelling unit per acre.

- (b) Public and Semi-Public uses which support the residential nature of an area including parks, schools, day care centers, and churches. These uses should be carefully sited to minimize potential impacts on other uses.
- (c) Forestry and agricultural uses compatible with residential uses.
- (c) Customary and compatible accessory uses.

Commercial and industrial uses shall be prohibited in this designation.

Criteria for Designation: Areas suitable for this designation shall meet
the following criteria:

- (a) The areas shall have an adequate supply of ground water given the one acre density of access to a community water system.
- (b) The areas shall be located to minimize the travel distances of residents, school buses, and emergency equipment over substandard roads.
- (c) The areas shall be located to minimize their impact on those fire and school systems least able to accommodate growth.
- (d) In addition, designated urbanizing areas may be designated Rural Residential until they are served by adequate public facilities, including streets, water, and sewer systems.

# Areas to be avoided by this designation:

- (a) Areas which would require major public expenditures to adequately accommodate the permitted growth.
- (b) Areas substantially or wholly within the one hundred year flood plain.
- (c) Areas subject to major riverbank erosion.
- (d) Extensive areas of soils with a poor suitability for on site waste disposal systems.
- (e) Areas where septic systems may contaminate groundwater resources.
- (f) Areas of high natural resource values.
- (g) Areas adjacent to planned agricultural areas unless it can be shown this designation will provide adequate buffering for agricultural activities.

# 2.2 The Rural Development (RD) Area

Purpose: The purpose of the Rural Development designation is to encourage and strengthen rural development centers by providing for a variety

of compatible uses on small acreages where consistent with the area's natural resources, natural limitations, public facilities, and public services.

Description: These areas would be composed of a variety of uses including rural residences, compatible commercial uses, compatible industrial uses, forestry, and agricultural uses. Residential uses shall not exceed a density of more than one (1) unit per acre.

Appropriate Uses: Uses within the Rural Residential designation may include:

- (a) Residential uses including single-family dwellings, mobile homes, and mobile home parks at a density of not more than(1) dwelling unit per acre.
- (b) Commercial uses, including commercial uses customarily accessory to rural residential uses and commercial uses designed to serve surrounding local markets.
- (c) Industrial uses dependent upon the natural resources of the rural lands provided they are compatible with other uses.
- (d) Forestry and agricultural uses compatible with residential uses.
- (e) Public and semi-public uses.
- (f) Customary and compatible accessory uses.
  Other commercial and industrial uses shall be prohibited in this designation.

Criteria for Designation: Areas suitable for this designation shall meet the following criteria:

- (a) The areas shall have an adequate supply of ground water given.

  the one acre density or access to a community water system.
- (b) The areas shall be suitable for long term use of septic systems given the one acre density or have the potential to be served by a community waste water system.
- (c) The areas shall be located to minimize the travel distances of residents, school buses, and emergency equipment over substandard roads.
- (d) The areas shall be located to minimize their impact on those fire and school systems least able to accommodate growth.

- (e) The areas shall be compatible with the variety of uses included within the designation.
- (f) The areas shall be part of or related to rural development centers.

  Areas to be avoided by this designation:
  - (a) Areas within the one hundred year flood plain.
  - (b) Areas subject to riverbank erosion.
  - (c) Areas of very steep slopes.
  - (d) Areas adjacent to planned agricultural areas unless it can be shown this designation will not adversely impact and will adequately buffer agricultural activities.
  - (e) Areas which would require major public expenditures to adequately accommodate the permitted growth.

## 2.3 The General Development (GD) area

Purpose: The purpose of the General Development designation is to accommodate rural development in a manner which protects natural resources, reduces the potential effects of natural hazards, and reduces the need for new public facilities and lowers public costs.

Description: The character of these areas will be rural, with a mix of compatible rural residential, forestry, agricultural, and natural resource dependent activities with restricted commercial and resource based industrial activities. Residential uses shall not exceed a density of more than one (1) unit per five (5) acres.

Appropriate Uses: Uses within the General Development designation may include:

- (a) Residential uses including single-family dwellings and mobile homes at a density of not more than one (1) dwelling unit per five (5) acres.
- (b) Commercial uses customarily accessory to rural residential uses and rural commercial uses serving local markets.
- (c) Industrial uses dependent upon the natural resources of the rural lands provided they are sited in areas where they are compatible with other uses.
- (d) Forestry, agricultural, and aquacultural uses adequately buffered to protect any nearby residences.

- (e) Public and semi-public uses.
- (f) Customary and compatible accessory uses.
- (g) Resource related recreational uses.

Other commercial and industrial uses shall be prohibited in this designation.

Criteria for Designation: Areas suitable for this designation shall include the following:

- (a) Areas with a low level of those public facilities and services which facilitate residential development.
- (b) Areas subject to natural hazards including high slopes and major flood plains or areas with a low suitability for development such as low quantities of ground water or limitations for the use of onsite septic systems.
- (c) Areas adjacent to planned agricultural areas.

Areas to be avoided by this designation:

- (a) Areas with an average parcel size of less than five (5) acres.
- (b) Areas suitable for more intense uses.
- 8. Sewer and water services should be provided only to designated urban service areas. Urban service areas should be planned in an orderly manner and limited to those urbanizing areas which are needed to accommodate residential growth. The extension of services beyond urban areas into designated rural land areas shall be done in a planned and coordinated manner.
- 9. Parks and recreational areas to serve both neighborhood and regional needs should be provided within the rural lands as development occurs. Within already developed areas the county should encourage the provision of parks and recreational areas.
- 10. The clustering of residential structures shall be encouraged within the various rural lands designations to minimize the potential impacts of development, to encourage an appropriate use of difficult building sites, and to lower development costs. The overall density of the designation shall be maintained within the residential cluster.

- 11. New developments shall not increase peak surface water runoff levels above those levels generated by the site with its natural ground cover. Natural drainages shall be retained wherever possible.

  Natural and/or man-made drainages shall carry any unretained surface water to receiving waters which can adequately contain and convey the runoff. The surface water runoff shall be treated to the level necessary to maintain the required quality of the receiving waters.
- 14. The habitats of threatened or endangered species and locally significant natural areas should be protected from the adverse impacts of development and conversion to incompatible land uses. The critical habitats of threatened or endangered species and natural areas with exceptional scientific or biological value should be retained in their natural state. Locally significant natural areas are characterized by one of the following criteria:
  - (a) The area is a remnant of a natural community that was previously widespread within the County.
  - (b) The area in a natural state performs a unique function which is important to either continued wildlife production or human communities.
- 15. Sites of exceptional historical or archeological value should be protected from conversion to uses incompatible with the scientific study and long term protection of the site.