

APPENDIX C

POPULATION AND DEMAND FORECASTS

TABLE C-1  
ISLAND COUNTY WATER DEMAND PROJECTIONS (1)  
ANNUAL WATER CONSUMPTION (Million Gallons)

PROJECTION	YEAR												
--	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030	2035	2040
<b>1. ANNUAL CONSUMPTION BASED ON OFM POPULATION PROJECTION (2)</b>													
Camano Island	185	207	240	268	297	325	354	382	411	439	468	496	524
Central Whidbey	224	250	290	324	359	393	428	462	497	531	565	600	634
North Whidbey	932	1,041	1,205	1,348	1,491	1,634	1,778	1,921	2,064	2,207	2,350	2,493	2,636
South Whidbey	266	297	344	385	426	467	507	548	589	630	671	711	752
Whidbey Island	1,422	1,589	1,839	2,058	2,276	2,494	2,712	2,931	3,149	3,367	3,586	3,804	4,022
<b>COUNTY TOTAL</b>	<b>1,608</b>	<b>1,796</b>	<b>2,079</b>	<b>2,326</b>	<b>2,573</b>	<b>2,819</b>	<b>3,066</b>	<b>3,313</b>	<b>3,560</b>	<b>3,806</b>	<b>4,053</b>	<b>4,300</b>	<b>4,547</b>
<b>2. ANNUAL CONSUMPTION BASED ON ICPD POPULATION PROJECTION (2)</b>													
Camano Island	186	230	277	327	376	425	475	524	573	622	672	721	770
Central Whidbey	223	270	325	381	438	495	551	608	664	721	777	834	891
North Whidbey	931	1,062	1,278	1,498	1,719	1,940	2,161	2,382	2,602	2,823	3,044	3,265	3,486
South Whidbey	266	321	387	454	522	589	657	725	792	860	927	995	1,062
Whidbey Island	1,420	1,653	1,989	2,334	2,679	3,024	3,369	3,714	4,059	4,404	4,749	5,094	5,439
<b>COUNTY TOTAL</b>	<b>1,606</b>	<b>1,883</b>	<b>2,267</b>	<b>2,661</b>	<b>3,055</b>	<b>3,449</b>	<b>3,843</b>	<b>4,238</b>	<b>4,632</b>	<b>5,026</b>	<b>5,420</b>	<b>5,814</b>	<b>6,209</b>
<b>3. SEASONAL CONSUMPTION BASED ON ICPD PROJECTION (4)</b>													
Camano Island	71	80	90	100	109	119	128	138	147	157	166	176	185
Central Whidbey	35	39	44	48	52	56	60	65	69	73	77	81	85
North Whidbey	5	5	6	7	8	9	10	11	12	13	14	15	15
South Whidbey	66	75	84	97	109	122	134	146	159	171	184	196	208
Whidbey Island	106	120	134	152	169	187	204	222	239	257	274	292	309
<b>COUNTY TOTAL</b>	<b>177</b>	<b>200</b>	<b>224</b>	<b>251</b>	<b>278</b>	<b>305</b>	<b>332</b>	<b>359</b>	<b>386</b>	<b>413</b>	<b>440</b>	<b>467</b>	<b>494</b>
<b>TOTAL CONSUMPTION WITH SEASONAL ESTIMATE INCLUDED (MG)</b>													
OFM BASIS (1 PLUS 3)	1,785	1,996	2,303	2,577	2,851	3,125	3,398	3,672	3,946	4,220	4,493	4,767	5,041
ICPD BASIS (2 PLUS 3)	1,783	2,083	2,491	2,912	3,333	3,755	4,176	4,597	5,018	5,439	5,860	6,282	6,703

FOOTNOTES:

- (1) Average Day Demands are based on 100 gallons per capita per day.
- (2) Based on population forecast by the Washington State Office of Financial Management - See Section III
- (3) Based on population forecast by the Island County Planning Department (Population Trends in Island County) - See Section III
- (4) Consumption by seasonal population at same per capita rate as resident, but assumes only 15% of capacity during 4 months of the year

TABLE C-2

ISLAND COUNTY  
SUMMARY OF 1980 CENSUS DATA ON HOUSING OCCUPANCY

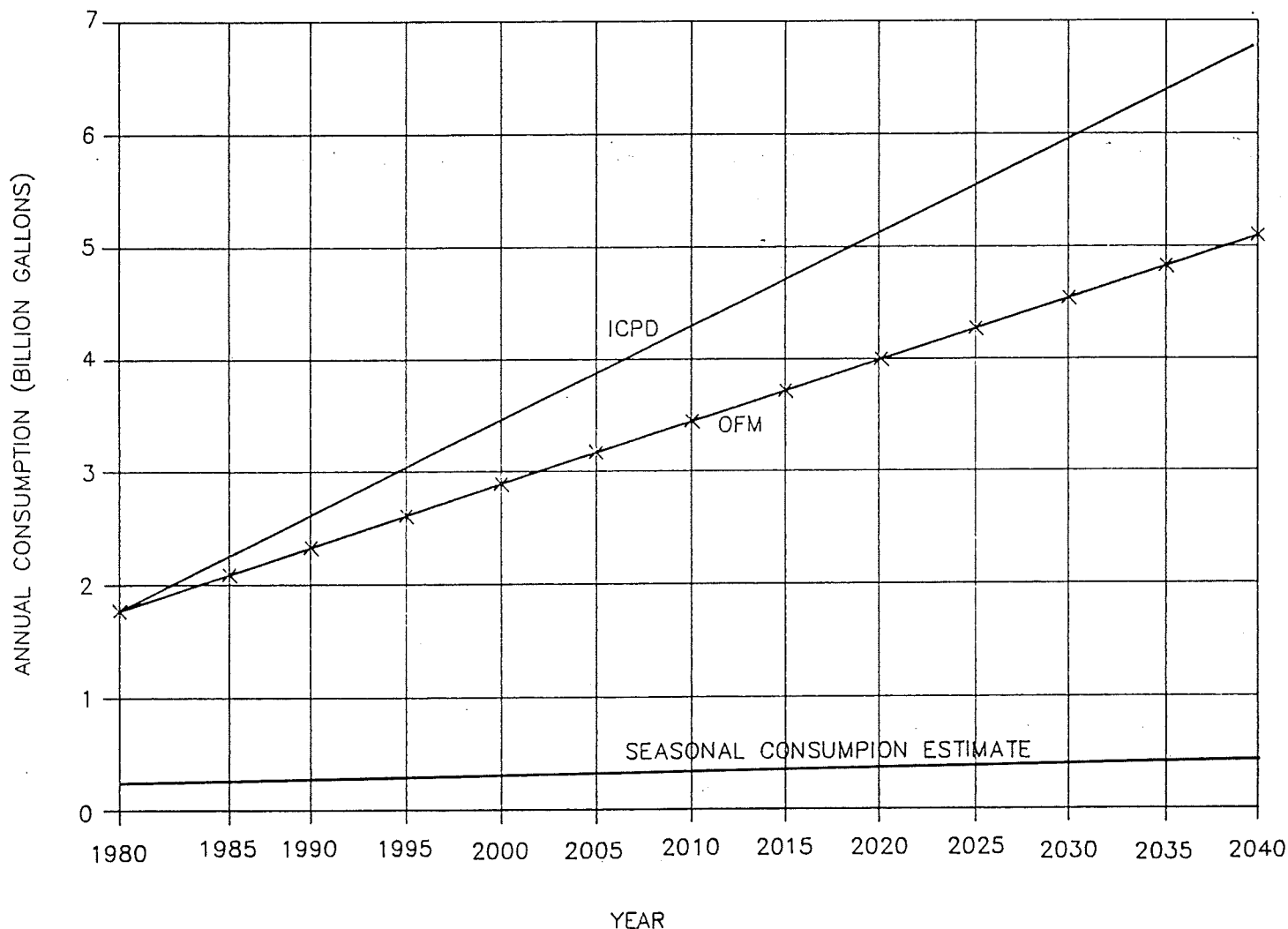
Area	No. of Persons			No. of Families	Number of Housing Units (1)			Year-Round Housing (2)			Heads Per Household (3)	Seasonal Housing (4)	Seasonal Population (5)
	Urban	Rural	Total		Urban	Rural	Total	Occupied	Vacant	Total			
Camano Island	0	5,080	5,080	1,667	0	3,854	3,854	2,151	354	2,505	2.36	1,349	3,373
Central Whidbey	0	6,144	6,144	1,904	0	3,582	3,582	2,558	708	3,266	2.40	316	790
North Whidbey	0	25,535	25,535	6,447	0	4,131	8,885	8,222	588	8,810	3.11	75	188
South Whidbey	0	<u>7,289</u>	<u>7,289</u>	<u>2,147</u>	0	<u>4,551</u>	<u>4,551</u>	<u>2,928</u>	<u>399</u>	<u>3,327</u>	<u>2.49</u>	<u>1,224</u>	<u>3,060</u>
Whidbey Island	0	38,968	38,968	10,498	0	12,264	17,018	13,708	1,695	15,403	2.84	1,615	4,038
Island County	0	44,048	44,048	12,165	0	16,118	20,872	15,859	2,049	17,908	2.78	2,964	7,410 (6)

## Footnotes:

- (1) Includes vacant, seasonal, and migratory units (note: U.S. Census Bureau does not classify Oak Harbor area as "urban").
- (2) Includes only year-round housing units.
- (3) Based on total number of persons and occupied year-round housing units.
- (4) Computed from total housing units minus year-round housing.
- (5) Assumes 2.5 heads per seasonal household. May not include all hotel, motel, and bread and breakfast units. The Economic Development Council estimates there are approximately 420 hotel/motel, etc. rooms available in Island County.
- (6) Compare to 1980 population figure taken from "Island County Population Trends" of 11,200 persons. The latter estimate is based on a 1977 special census of seasonal housing counts and assumes 3.0 persons per dwelling unit.

# EXHIBIT C-1

## ISLAND COUNTY WATER CONSUMPTION BASED ON ICPD AND OFM PROJECTIONS



ICPD AND OFM PROJECTIONS INCLUDE SEASONAL CONSUMPTION  
BASED ON AVERAGE ANNUAL CONSUMPTION OF 100 GALLONS PER DAY PER CAPITA

