

MAINTAINING AGRICULTURAL VIABILITY - OVERVIEW:

Factors/Actions Defining Agricultural Viability for the Snoqualmie Agricultural Production District (APD)

AGRICULTURAL VIABILITY of APD = LAND BASE (ACRES) X PRODUCTIVITY

("Agricultural Viability" of a Farm = Land Base in Acres x Productivity x Profitability)

| LAND BASE - 14,529 ACRES: Designated GMA Resource Lands | | | |
|---|--|--|--|
| 9,200 FARMABLE ACRES 5,328 ac. in "other" use: - 1,906 forested - 1,312 marsh or wetland - 304 developed recreation - 1,806 roads, water bodies, etc. | Land Type 1 Out of Floodplain. 1,183 acres <u>12 mo.</u> growing season. | Land Type 2 "Higher Ground" in Floodway 3,170 acres <u>12 mo.</u> growing season <u>IF</u> no large flood damage. | Land Type 3 "Lower Ground" in Floodway 4,836 acres <u>6-7 mo.</u> growing season |
| <i>Retain maximum acreage (see detail p.2)</i> | ★ ★ ★ ★ ★ | ★ ★ ★ ★ ★ | ★ ★ ★ ★ ★ |
| PRODUCTIVITY: Climate, Soils, Site Conditions | | | |
| Climate – Temps: Ideal | Some of top in world: livestock/plants not stressed by summer heat/winter cold; Summer average high – 74; Winter average low – 34. Growing almost year round many years. Frost free window: May 11 to Oct 3 | | |
| <i>(Extend w/ hoop houses)</i> | ★ ★ | ★ ★ | ★ ★ |
| Climate – Precipitation: Adequate many years | <u>Annual rainfall results in comparatively less impact on local water resources/supply.</u> Pasture, many crops, do not need irrigation; water table high in floodplain soils. Average Annual Rainfall is 45 in. July/Aug Average is 1.5 in. | | |
| <i>Augment w/ water where needed (see detail)</i> | ★ ★ ★ | ★ ★ ★ | ★ ★ |
| Soils – High Grade | <u>All produce well in this climate with "know how"</u> Prevalence of Soil Capability Class 3, 4 and 5. (Note: Class 3 were Class 2 until adjusted for drainage/flood issues in the '70's). Floodplain soils: deep, rock free, nutrient rich soils, replenished by river. | | |
| <i>Retain: Plant perennial cover where potential flood scour.</i> | NA | ★ ★ ★ ★ ★ | ★ ★ |
| <i>Retain: Bmp's for erosion, nutrients, winter cover, low compaction, etc.</i> | ★ ★ ★ ★ ★ | ★ ★ ★ ★ ★ | ★ ★ ★ ★ ★ |
| Site Conditions | <u>Vary by location, natural or human:</u> a. Elevation – related to floods, ponding, prolonged inundation; b. Runoff from upslope clearing and development; c. Alluvial fan disruptions to operations; d. Adjacent streams or river for stock watering and adjacent habitat for large pest populations; f. Revetments that are stable or in disrepair, etc. | | |
| <i>Provide effective drainage where needed. (See Detail p.2)</i> | ★ ★ ★ | ★ ★ ★ | ★ ★ ★ ★ ★ |
| <i>Maintain water quality & quantity with bmp's</i> | ★ ★ ★ | ★ ★ ★ | ★ ★ ★ |
| <i>Protect livestock, seeds, feed, starts, from floods: elevate buildings, farm pads.</i> | NA | ★ ★ ★ | ★ ★ ★ |
| <i>Residential Structures</i> | ★ ★ | ★ ★ | ★ ★ |

5 star is most important relative contribution to viability of APD, 1 is lowest value. (Each farm uniquely differs.)

(1) High: Above 8.5 ft. below BFE (100 yr. flood); (2) Low: Below 8.5 ft. below BFE (100 yr. flood)