NOTICE TO PROSPECTIVE BUILDERS OF DAMS LESS THAN 10 FEET IN HEIGHT OR IMPOUNDING LESS THAN 3,000,000 GALLONS.

Under Oregon laws the builder is not required to submit plans and specifications, prepared by a registered professional engineer, for approval of the State Engineer for the construction of dams less than 10 feet in height or storing less than 3,000,000 gallons of water (9.2 acre feet or the amount that will cover 9.2 acres of land 1.0 foot in depth). It is of much importance to the builder of these small dams that a safe structure be built as should the dam fail the owner will not only lose his investment but will be legally responsible for any damage to the property of others resulting from such failure.

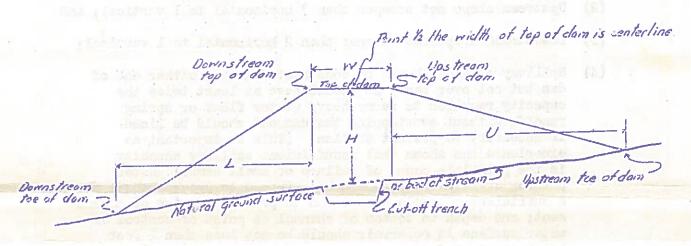
Following are some of the requirements to be followed by the proposed builders of these small dams:

- (1) Width of creat of dam should be not less than 8 feet;
- (2) Upstream slope not steeper than 3 horizontal to 1 vertical; and
- (3) Downstream slope not steeper than 2 horizontal to 1 vertical;
- (4) Spillway channel should be constructed around either end of dam but not over top. It should have at least twice the capacity required to carry heavy winter flows or spring runoffs without overtopping the dam and should be lined if necessary to prevent erosion. (This is important as experience has shown that insufficient spillway capacity is the principle cause of failure of small dams.) Water passing over spillway should be returned to creek channel at a sufficient distance downstream to prevent erosion of embankment; and depth to bottom of channel at point of control of water surface in reservoir should be not less than 2 feet below crest of dam.
- (5) All brush, stumps, roots and vegetable matter of all kinds should be cleared from area to be occupied by base of dam and from borrow pits.
- . (6) Asphalt dipped corrugated iron pipe with gate at inlet end should be installed to permit draining reservoir / Pipe to be bedded in a trench in the natural ground and not on filled ground.
 - (7) Not less than two cut-off collars should be constructed.
 These collars should be constructed of concrete with a thickness of not less than 6 inches and should extend from the cutside of the pipe a distance of not less than 18 inches in all directions. These cut-off collars should be constructed above or upstream from the center of the dam.
 - (8) Material placed in embankment should be free from brush, stumps, roots and vegetable matter of all kinds.
 - (9) Material should be brought in and placed in embankment from ends of dam and spread in thin layers not over 6 inches thick and compacted by carryalls or bulldozers traveling parallel to center line of dam.

App. No. R-23378 A.L. Tangen

Before a permit is issued approving an application proposing the construction of a dam less than 10 feet high and storing less than 3,000,000 gallons of water, the information following the sketch below must be filed with the State Engineer. The height is measured from the lowest point of the ground surface or from the lowest point in the stream bed on the down tream aide, to the top of the dam on the center line of the dam. The data required is that of the maximum section or at the point where the dam is to be highest above the natural ground surface or stream bed.

All dams will be inspected by the State Engineer or his assistant before certificate of water right is issued.



Earth Dam: Top width of dam indicated on sketch by letter "" 15 TO 18 feet Height of dam measured from top of dam to ground surface or bed of stream on center line of dam or a point 1/2 the top width of the dam, indicated on sketch by letter "H" is _____17___ The horizontal distance from upstream top of dam to upstream toe indicated on sketch by letter "U" is The horizontal distance from downstream, indicated on sketch by letter "L" is _ _ Spillway:

Bottom width of spillway, indicated on sketch by letter "" is 6 OR 8 feet. Top width of spillway, indicated on sketch by letter "L" is 6 OR 8 _ feet. Distance between top of den and bottom of spillry at the upper end, indicated on sketch by letter "h" is _____