‘Caiggluk’ Tilesius’ Wormwood (Stinkweed)
Artemisia tilesii

Uses: Revegetation Throughout Alaska

Background Information

*Artemisia tilesii* is a perennial, non-woody sagebrush species. It is a composite with deeply divided fuzzy leaves.

In the wild, or on revegetation sites, it grows from 56 to 24 inches high. It has been found on many different soil types. It prefers sun.

The common name, stinkweed, refers to its smell when the leaves are crushed. The smell is pleasant, to some, and powerful enough to cover the smell of fish (Moerman, 2002).

Birds and small mammals use stinkweed for shelter and the seed for food. Pikas harvest and store the seed (ADFG, 2006).

Distribution

*Artemisia tilesii* is found throughout Alaska (Hultén, 1968). It also can be found in Canada, Siberia, and as far south as Oregon on the Pacific side of the continental divide.

Cultivar: ‘Caiggluk’

*Plant Introduction Number: 540424*

‘Caiggluk’ Tilesius’ wormwood is a cultivar developed by the Alaska Plant Materials Center in Palmer. It was released in 1989 as a reclamation and erosion control species (Wright, 1991).

‘Caiggluk’ was originally collected from a single plant near Clam Gulch, Alaska (near Homer), in 1974. This parent material was increased and then tested throughout Alaska from 1976 to the present.

‘Caiggluk’ is a valuable aid to revegetation—providing needed plant diversity for long-term results. It is well-adapted to sandy places and does well on disturbed areas. It has a high tolerance for both acid and basic soils, and can grow on toxic mine spoils (Wright, 1989).

Ethnobotany

Caiggluk is the Yupik dialect for Tilesius’ wormwood (Wright, 1989). This species has been used in traditional remedies by many Alaska Natives. The common name of wormwood comes from its use as a disinfectant (Moerman, 2002).
‘Caiggluk’ Wormwood

‘Caiggluk’ for Alaska Revegetation Purposes

This plant was the first broadleaf, herbaceous species to be brought into large-scale production for revegetation purposes in Alaska. The addition of ‘Caiggluk’ to revegetation seed mixes allows the final result to contain more diversity and beauty.

‘Caiggluk’ tolerates petroleum hydrocarbon mixtures and atmospheric acidity (Aiken, et al., 1999). Its leaves have also been found to neutralize acid rain droplets (Adams, et al., 1984).

‘Caiggluk’ is an easy plant to grow. Its basic requirements are simple: it grows well with grasses and weeds, can adapt to many different types of sites, and will tolerate pH from 2 to 9 (Aiken, et al., 1999). This indicates it may be important for bio-remediation.

**Artemisia tilesii seed ~ 2,483,242 seeds per pound**

If you are interested in producing ‘Caiggluk’ Tilesius’ wormwood

The field needs to be as free of weeds as possible. Tilling is not suggested because it will bring up a new crop of weed seeds from the buried weed seed bank.

‘Caiggluk’ seed is very small. Either drill seed 1/4 inch deep or loosely incorporate it on top of the soil with a light raking or harrow.

The plants should begin producing seed in two years. It is a late maturing crop, so monitoring is necessary to keep it from shattering due to fall winds and rains. Pest control of thrips may be necessary. Standard harvesting and cleaning equipment works well for seed processing.

**References**


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