

Identification of Mineral Content (Na, K, Cl, S) on *Salvinia molesta* in Reservoir Batu Tegi sub-District Air Naningan Regency Tanggamus

By

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ABSTRAK

Salvinia molesta is a weed reservoir Batu Tegi potential as a source of non-conventional fodder. Information on the mineral content and its use has not been known.

This research was aimed to identification the mineral content of sodium (Na), potassium (K), chloride (Cl), and sulfur (S) to the old roots, young roots, old leaves, young leaves, and whole plant *Salvinia molesta* with to know mineral content of sodium (Na), potassium (K), chloride (Cl), and sulfur (S) highest to lowest in each part of the weed *Salvinia molesta*.

This research was conducted in March-May 2012. *Salvina molesta* is taken from the reservoir Batu Tegi Tanggamus. Data were analyzed by Analysis of Variance completely randomized designed and the differences among treatments were tested by Least Significant Difference. The variable measured were the minerals sodium (Na), potassium (K), chloride (Cl), and sulfur (S).

The results showed that in the mineral content of Na and K was present in all parts of the plant *Salvinia molesta* there were highly significant differences ($P < 0.01$) while mineral Cl content on the young leaves, old roots and whole plants there were highly significant differences ($P < 0.01$). Mineral S content on the young leaves, old roots, and whole plants were highly significant differences ($P < 0.01$). Mineral content of Na, K, CL, S respectively in the young leaves was 1.20%, 2.11%, 2.14%, 0.08%, 1.14% old leaves, 0.88%, 1, 42%, 0.52%; young roots 0.82%, 1.54%, 0.20%, 0.06; older roots 0.64%, 1.01%, 0.23%, 1.52 %, and the whole plant 0.93%, 1.25%, 1.21%, 0.57%.

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