AGGREGATES
Planning for the Future of a Vital Part of Life
we are still in the STONE AGE
we walk on STONE
we drive on STONE
we are sheltered by STONE
and STONE is an integral part of the infrastructure we use on a daily basis
Potential aggregate resource sites - Central Canterbury
Aggregate costs are much greater than in Canterbury
Potential constraints include:

- transportation distances and
- access to water for product washing and dust suppression.
Access to water is vital for:

irrigation &

quarrying
1 litre of milk requires 250 litres of water to produce $0.50 gate value
1 tonne of aggregate requires:

50 litres of water to produce $10 of gate value

(N.B. Both the volume of water used and the value produced are conservative.)
QUARRY PRODUCTS HAVE A GATE VALUE PER LITRE OF WATER CONSUMED 100 TIMES GREATER THAN FROM DAIRYING
Christchurch – West Melton Aquifer Protection Zone

Aggregate Resource Material Types
Volume of water flowing through Christchurch – West Melton aquifer: approximately 10,000 litres per second

Average water requirement to enable areas’s present annual production: approx 10 litres per second
The demand for high quality aggregates is rising rapidly
Planning strategies need to be in place to ensure that the demand for aggregates can be met for The Rebuild and For the long term future of the Region.