

Repressurising Injection Ratio = RIR

Ratio of the variation of the [field-average formation pressure](#) in [producers](#) to the total field [cumulative water injection](#) Q_{WI} for the same period of time δt :

$$(1) \quad \text{RIR}(\delta t) = \frac{\langle p_e(t + \delta t) \rangle_{\text{PROD}} - \langle p_e(t) \rangle_{\text{PROD}}}{Q_{WI}^\downarrow(t + \delta t) - Q_{WI}^\downarrow(t)}$$

It normally makes sense for the matured reservoirs with pressure depletion and indicates how efficiently [waterflood](#) supports the recovery of [formation pressure](#) in [producers](#).

It represents one of the key [Waterflood Diagnostics](#).

See Also

[Petroleum Industry](#) / [Upstream](#) / [Production](#) / [Subsurface Production](#) / [Field Study & Modelling](#) / [Production Analysis](#) / [Waterflood Diagnostics](#)