

# Waterflood Diagnostics

Part of [Production Analysis](#) related to analyzing the efficiency of [wtaerflooding](#) and [Reservoir pressure maintenance](#).

| Production Injection Ratio (PIR) |                         |                 |                                      |              |
|----------------------------------|-------------------------|-----------------|--------------------------------------|--------------|
|                                  | Instantaneous PIR       | Cumulative PIR  |                                      |              |
|                                  |                         |                 |                                      |              |
| Water Production                 |                         |                 |                                      |              |
|                                  | Yw vs qw_inj            | cumYw vs Qw_inj | qw vs qw_inj                         | Qw vs Qw_inj |
|                                  |                         |                 |                                      |              |
| MatBalance                       |                         |                 |                                      |              |
|                                  | Pe vs Qt_inj - Q_t_prod | Pe vs QO        | Repressurising Injection Ratio (RIR) |              |

## See Also

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

[ [Watercut Diagnostics](#) ]

[ [Water Replenishment \(WR\)](#) ] [ [Normalized Water Replenishment \(NWR\)](#) ] [ [Water Oil Balance Ratio \(WOBR\)](#) ]