

**GWB 4**

Net recharge into Layer 1 is 1.81, 2.68 and 1.08 in/yr for 2001, 2009 and 2010 respectively (Figures 6-18 to 6-20). Of the total net recharge, 13-30% flows vertically to Layer 2 and the remainder flows outward to river boundaries, drain boundaries, constant heads and, to a lesser extent, well withdrawals. All leakage from Layer 1 into Layer 2 flows vertically downward to Layer 3. Of that vertical flow into Layer 3, 94-103% of that is removed from Layer 3 via well withdrawals. Lateral flows into Layer 3 make up any potential deficits in the mass balance due to well withdrawal. Flows from Layer 3 to Layer 4 ranged from 0.06 to 0.08 in/yr and 100% of that water continues to flow downward to Layer 5. Well withdrawals are up to 4 times greater than the vertical flow of water into Layer 5. Lateral boundary flows make up any deficits in the mass balance of Layer 5. See Tables 6.17-6.19 for simulated mass balance of GWB4 for 2001, 2009, 2010.

Table 6-9. Simulated mass balance of GWB 2 for 2001 (all flows in/yr)

Layer	CH	DRN	GHB	GHB Spring Flows	GW ET	LAT, Q/LAT	Q_WEL	RCH	RIV	Flow to Lower Layer
Layer 1	0.00	-0.65	0.00	0.00	-2.54	0.02	0.00	14.5	-6.14	-5.20
Layer 2	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	-4.12	-1.10
Layer 3	0.00	0.00	0.00	0.00	0.00	0.34	-2.09	0.00	-0.01	0.66
Layer 4	0.00	0.00	0.07	0.00	0.00	0.02	0.00	0.00	0.00	0.60
Layer 5	0.00	0.00	0.69	0.00	0.00	0.03	-0.05	0.00	0.00	0.00
Layer 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Layer 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Table 6-10. Simulated mass balance of GWB 2 for 2009 (all flows in/yr)

Layer	CH	DRN	GHB	GHB Spring Flows	GW ET	LAT, Q/LAT	Q_WEL	RCH	RIV	Flow to Lower Layer
Layer 1	0.00	-0.95	0.00	0.00	-4.30	0.02	0.00	20.1	-8.37	-6.48
Layer 2	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	-4.37	-2.14
Layer 3	0.00	0.00	0.00	0.00	0.00	0.28	-2.91	0.00	-0.01	0.50
Layer 4	0.00	0.00	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.48
Layer 5	0.00	0.00	0.54	0.00	0.00	0.03	-0.03	0.00	0.00	0.00
Layer 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Layer 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	