

Table 19.4: Budgets of N, Cl and S [keq ha⁻¹ yr⁻¹] at the stand and at the catchment scale. Time period: Aubure: 93-95, X-8 and X-16: 1994-1998.
Picea 40: *Picea* stand 40 year old .

Catchment			Aubure											
Scale	<i>Picea</i> 90			<i>Picea</i> 45			<i>Fagus</i> 150			Whole catchment				
	N	Cl	S	N	Cl	S	N	Cl	S	N	Cl	S		
Bulk precipitation (1)	0.64	0.18	0.43	0.64	0.18	0.43	0.64	0.18	0.43	0.64	0.18	0.43		
Throughfall (2)	1.34	0.63	1.23	0.56	0.51	0.91	0.66	0.49	0.71	0.94	0.51	0.94		
Biomass Immobilisation (3)	0.24			0.73			0.33			0.38				
Drainage at root depth (4)	1.07	0.61	1.26	0.15	0.37	0.99	0.11	0.45	0.91	0.63	0.51	1.12		
Soil Budget (2-3-4)	0.03	0.02	-0.04	-0.31	0.14	-0.08	0.21	0.04	-0.20	-0.07	0.00	-0.17		
Runoff (6)										0.31	0.45	1.63		
Catchment budget (2-3-6)										0.24	0.07	-0.68		

Catchment			X-8						X-16					
Scale	<i>Picea</i> 40			Whole catchment			<i>Fagus</i> 100/ <i>Picea</i> 60			Whole catchment				
	N	Cl	S	N	Cl	S	N	Cl	S	N	Cl	S		
Bulk precipitation	0.78	0.11	0.54	0.78	0.11	0.54	0.97	0.13	0.91	0.97	0.13	0.91		
Throughfall + stemflow beech (2a)							1.30	0.20	1.40					
Throughfall spruce (2b)	1.15	0.27	1.66				1.85	0.35	3.90					
Throughfall weighted average (2c)*				1.14	0.27	1.66				1.18	0.19	1.37		
Biomass Immobilisation (<i>Picea</i>) (3)				0.36		0.05	0.35		0.07					
Runoff (6)				0.04	0.09	0.49				0.33	0.25	3.80		
Catchment budget (2c-3-6)				0.74	0.18	1.12				0.85	-0.06	-2.43		

* Comment: Throughfall input was calculated as an average weighted by area forested with beech, spruce, and covered with grass and deciduous trees represented by throughfall measurements under birch.