

	<b>Q bio</b> m <sup>3</sup> / Tag	<b>Q min</b> l/s	<b>Q max</b> l/s
<b>Mittelwert</b>	13'385		
<b>20%-Wert</b>	9'084	55	204
<b>50%-Wert</b>	11'135	74	256
<b>80%-Wert</b>	17'800	103	479
<b>Q tw</b> 1)	10'109	64	230
<b>2 Q tw</b>			460

1) Mittel aus 20% und 50%-Wert

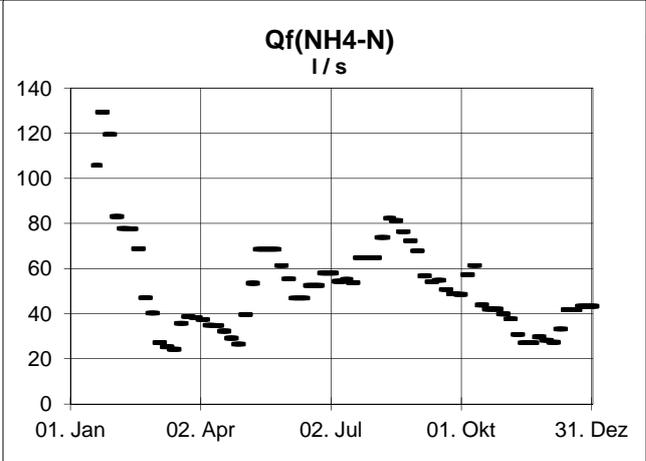
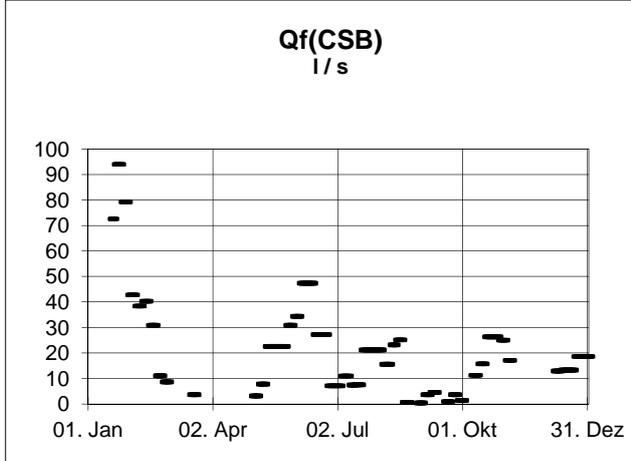
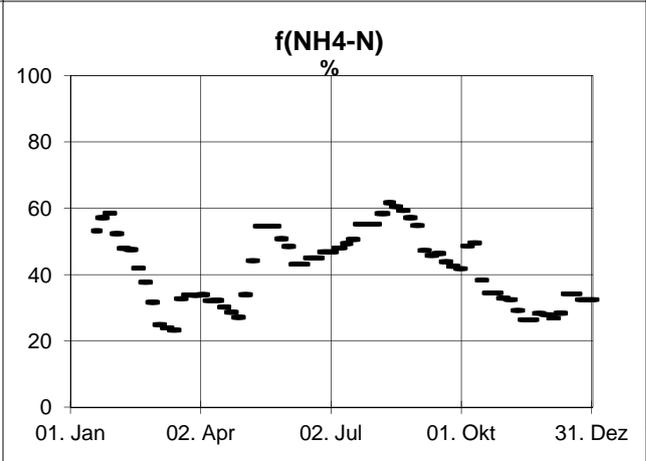
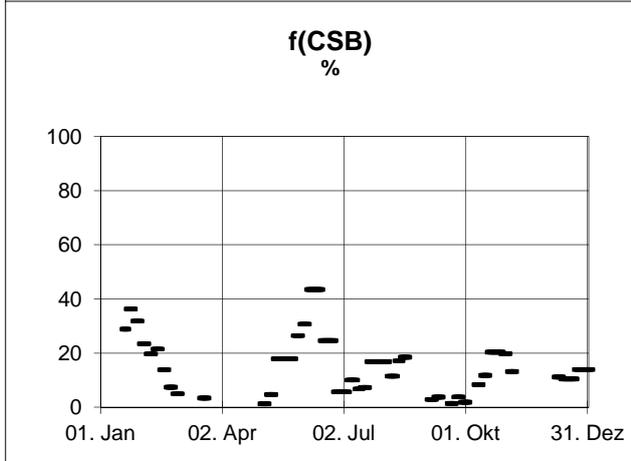
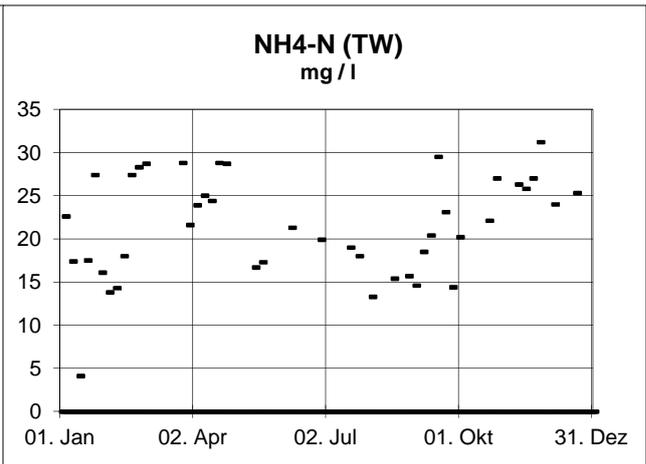
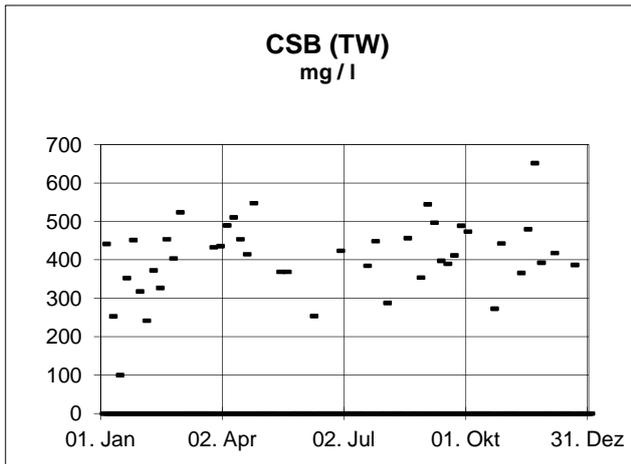
**Fremdwasseranteil 18 %**

siehe Seite 2

	<b>Tagesmittelwerte</b>	
	<b>m<sup>3</sup> / d</b>	<b>l/s</b>
<b>Q tw</b>	10'109	117
<b>Q fremd</b> <sup>2)</sup>	1'801	21
<b>Q schmutz</b> <sup>3)</sup>	8'309	96

<sup>2)</sup> = Q tw \* Fremdwasseranteil / 100

<sup>3)</sup> = Q tw - Q fremd



**Vorgaben:**

<b>Q schmutz</b>	200 l/EW*Tag
<b>CSB</b>	90 g/EW*Tag
<b>NH4-N</b>	7.5 g/EW*Tag
<b>K soll (CSB)</b>	450 mg / l
<b>K soll (NH4-N)</b>	37.5 mg / l

**K soll:** erwartete Konzentration im Zulauf, wenn nur Schmutzwasser zuläuft!

**Schätzung aus EW biochemisch**

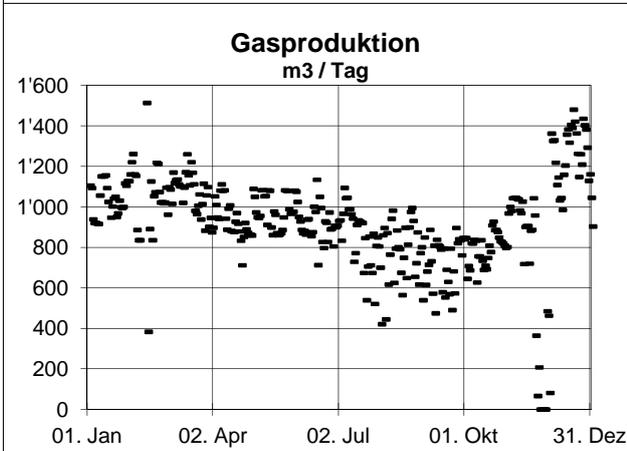
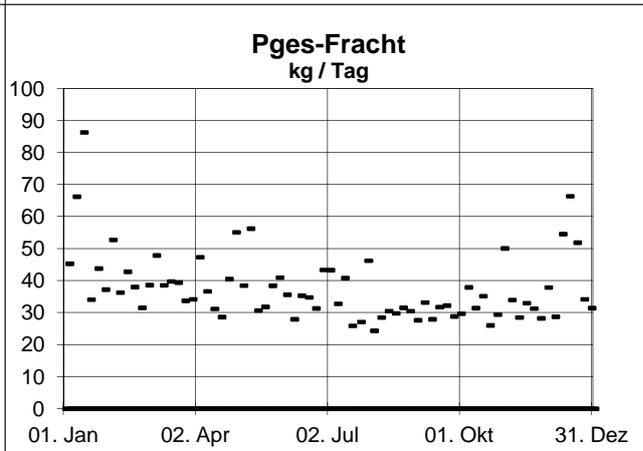
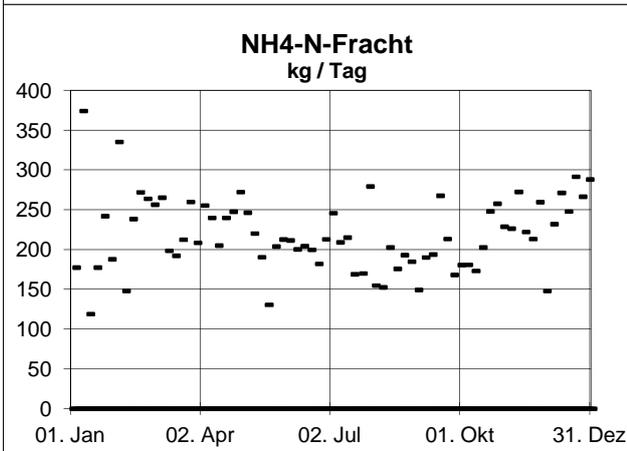
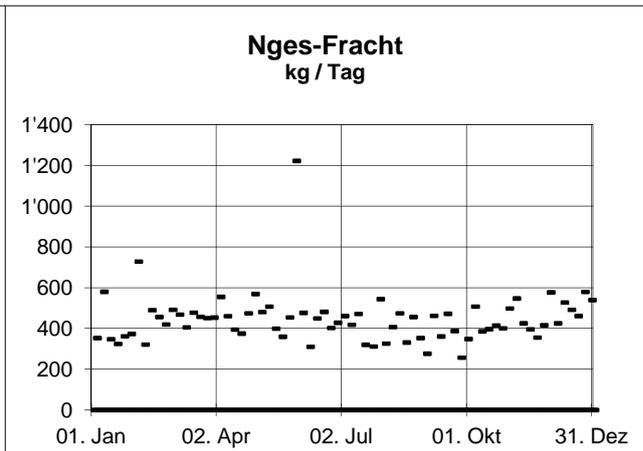
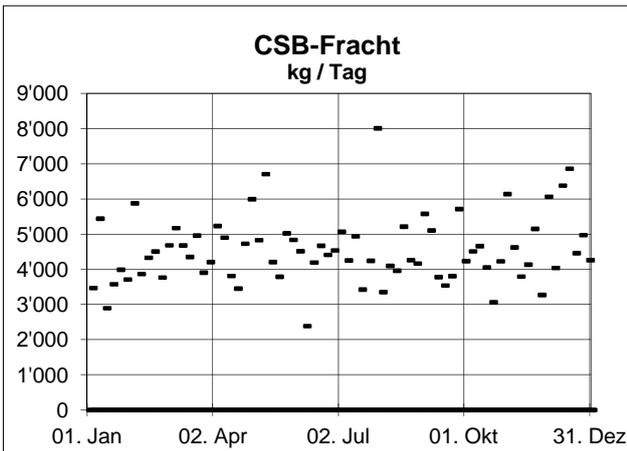
<b>Q tw</b>	10'109 m3 / Tag
<b>Q schmutz (EW) <sup>1)</sup></b>	10'000 m3 / Tag
<b>Q fremd (EW)</b>	109 m3 / Tag
<b>f (EW)</b>	1 %

<sup>1)</sup> 200 l / EW \* Tag

**Schätzung aus den Zulaufkonzentrationen:**

<b>f(CSB) Jahresmittel</b>	10 %
<b>f(NH4-N) Jahresmittel</b>	43 %

<b>f Mittelwert</b>	18 %
<b>f gewählt</b>	<b>18 %</b>

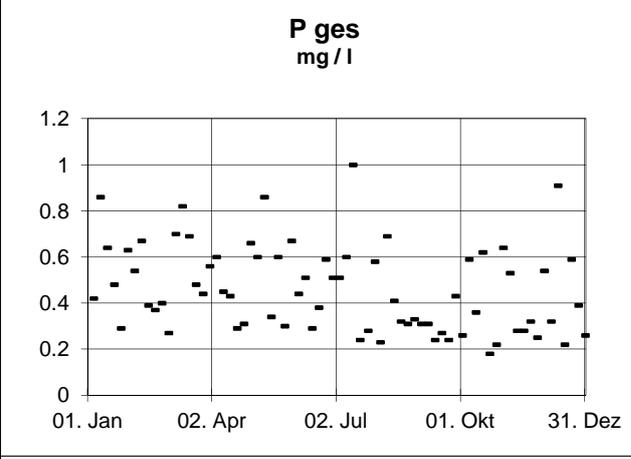
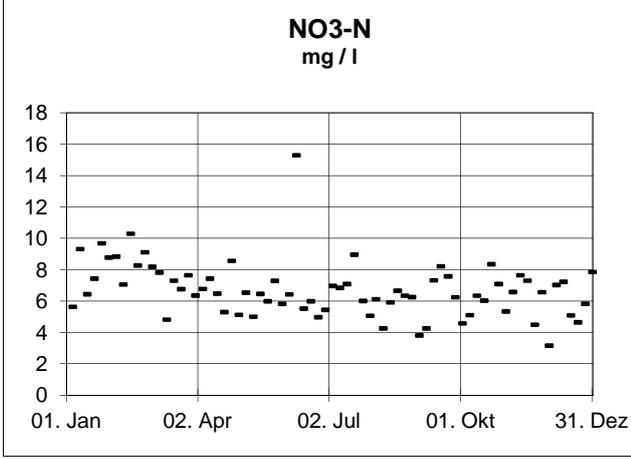
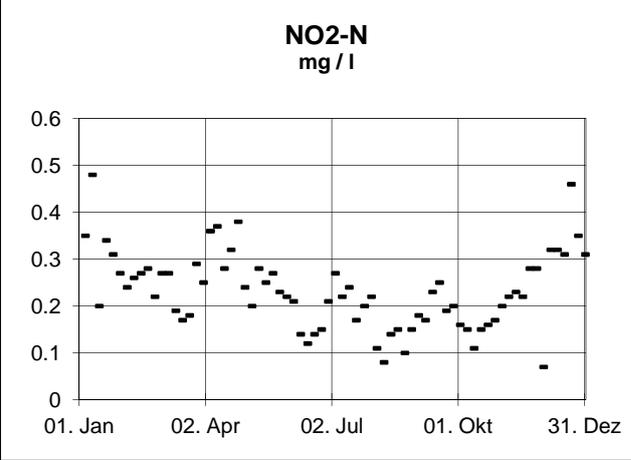
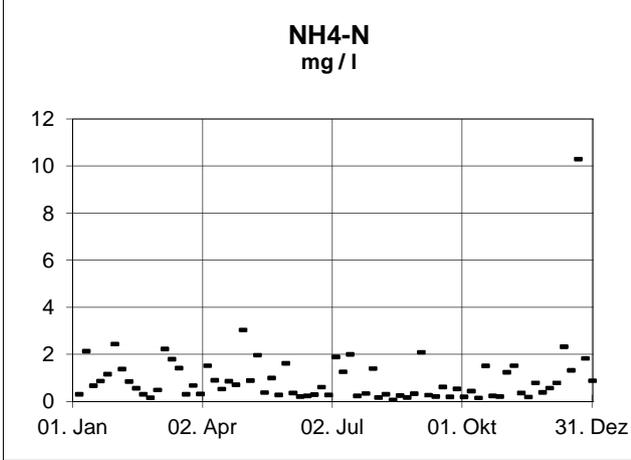
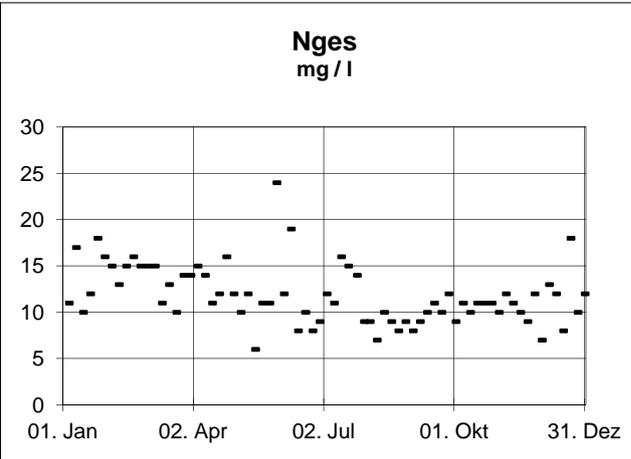
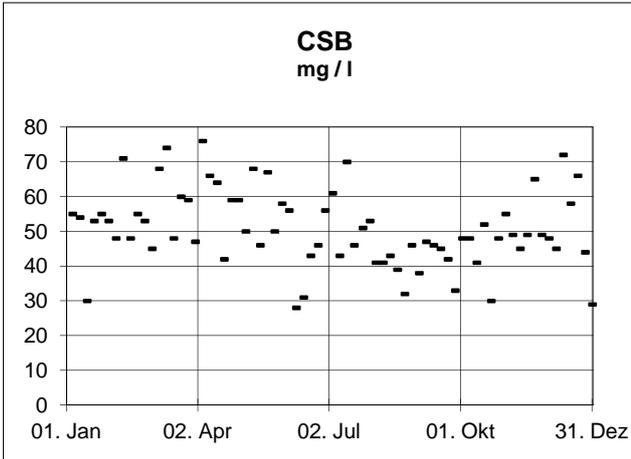


<b>EZ angeschlossen</b>	<b>20'000</b>
<b>EW biochem. gewählt</b>	<b>50'000</b>
<b>EW biochem. 80%-Wert</b>	<b>46'000</b>
<b>EW Stickstoff</b>	<b>29'000</b>
<b>EW Phosphor</b>	<b>23'000</b>

<b>Zulauffrachten</b>	<b>BSB5 kg/Tag</b>	<b>CSB kg/Tag</b>	<b>NH4-N kg/Tag</b>	<b>Pges kg/Tag</b>	<b>Gasp. m3/Tag</b>	<b>FS kg/Tag</b>
<b>Mittelwert</b>	1'371	4'536	219	38	936	2'371
<b>50%-Wert</b>	1'403	4'353	213	34	929	
<b>80%-Wert</b>	1'562	5'133	259	43	1'090	

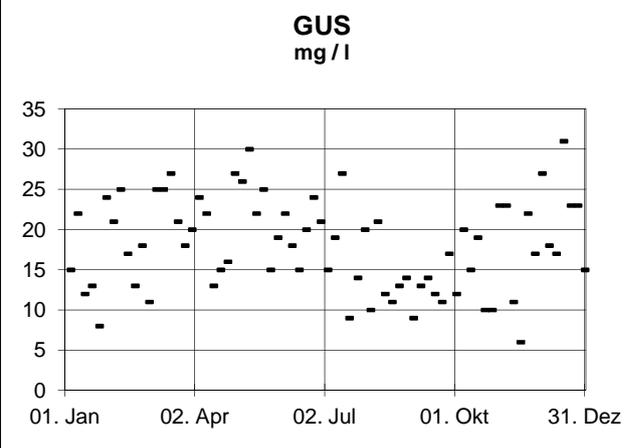
<b>spezifische Belastung pro EW</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>Probenahmeort: ab VKB</b>	<b>l / Tag</b>	<b>g / Tag</b>
	<b>45</b>	<b>90</b>	<b>7.5</b>	<b>1.6</b>		<b>30</b>	<b>85</b>

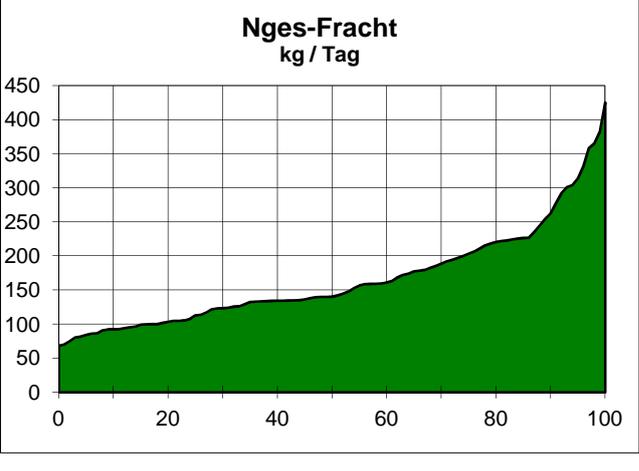
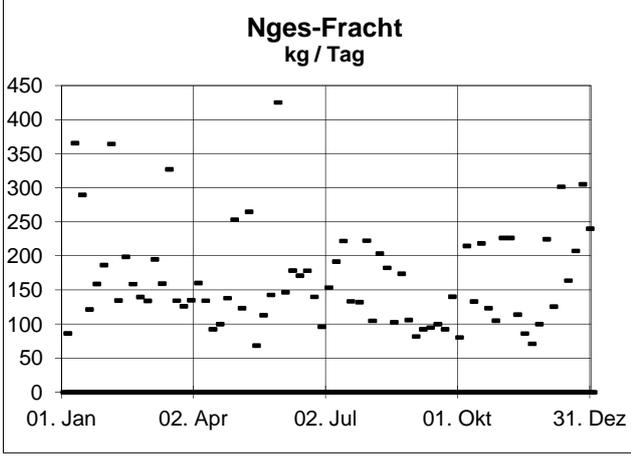
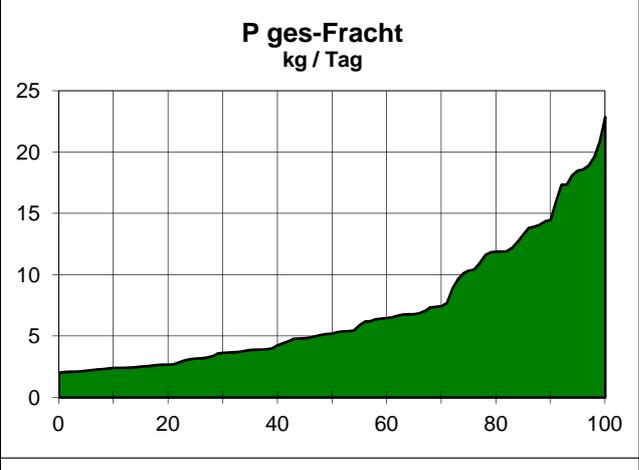
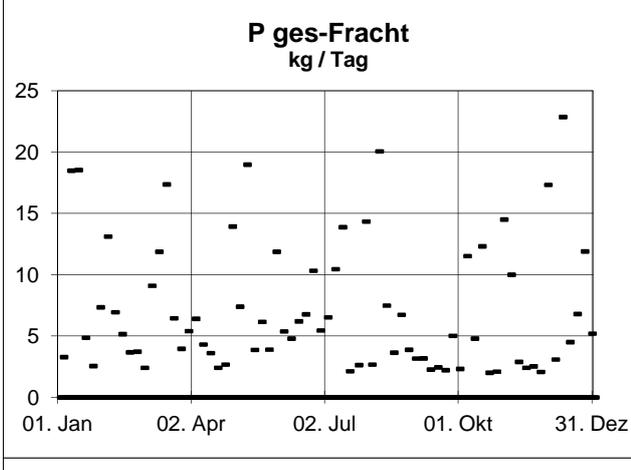
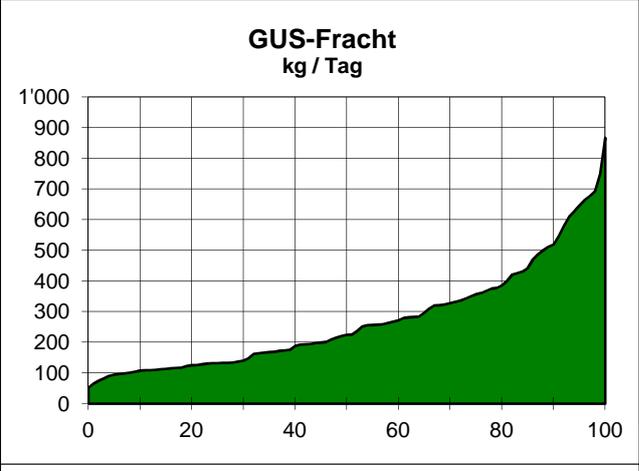
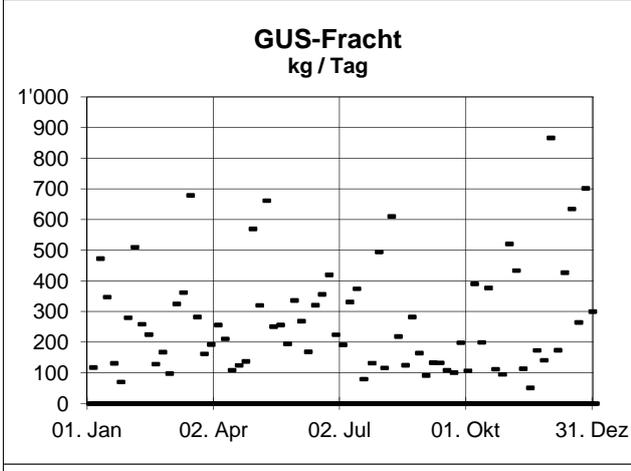
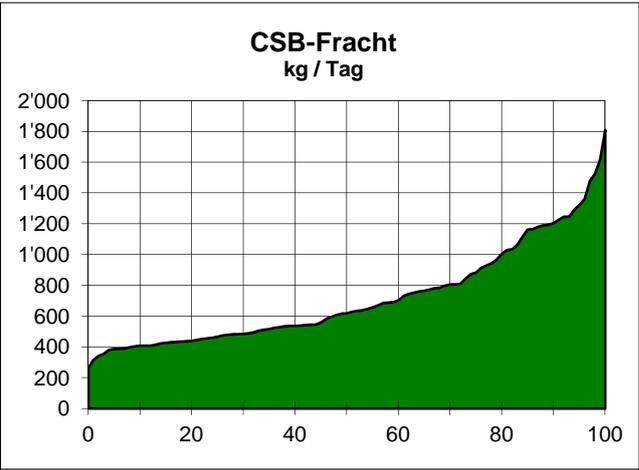
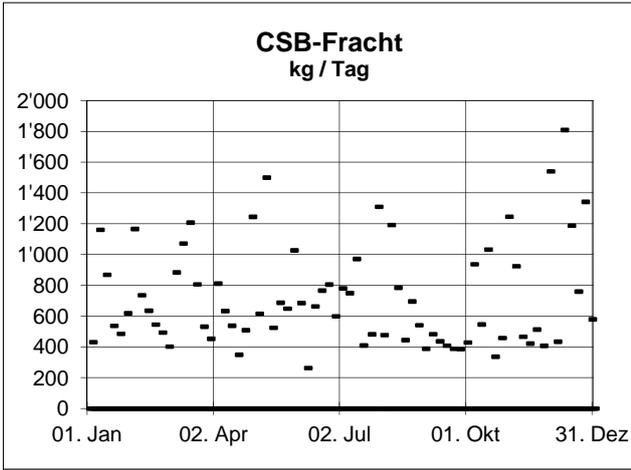
<b>Einwohnerwerte</b>	<b>BSB5 EW</b>	<b>CSB EW</b>	<b>NH4-N EW</b>	<b>Pges EW</b>	<b>Mittelwerte EW</b>	<b>Gasp. EW</b>	<b>FS EW</b>
<b>Mittelwert</b>	30'475	50'398	29'135	23'485	33'373	31'208	27'897
<b>50%-Wert</b>	31'168	48'371	28'357	21'367	32'316	30'967	
<b>80%-Wert</b>	34'722	57'035	34'529	27'075	38'340	36'327	

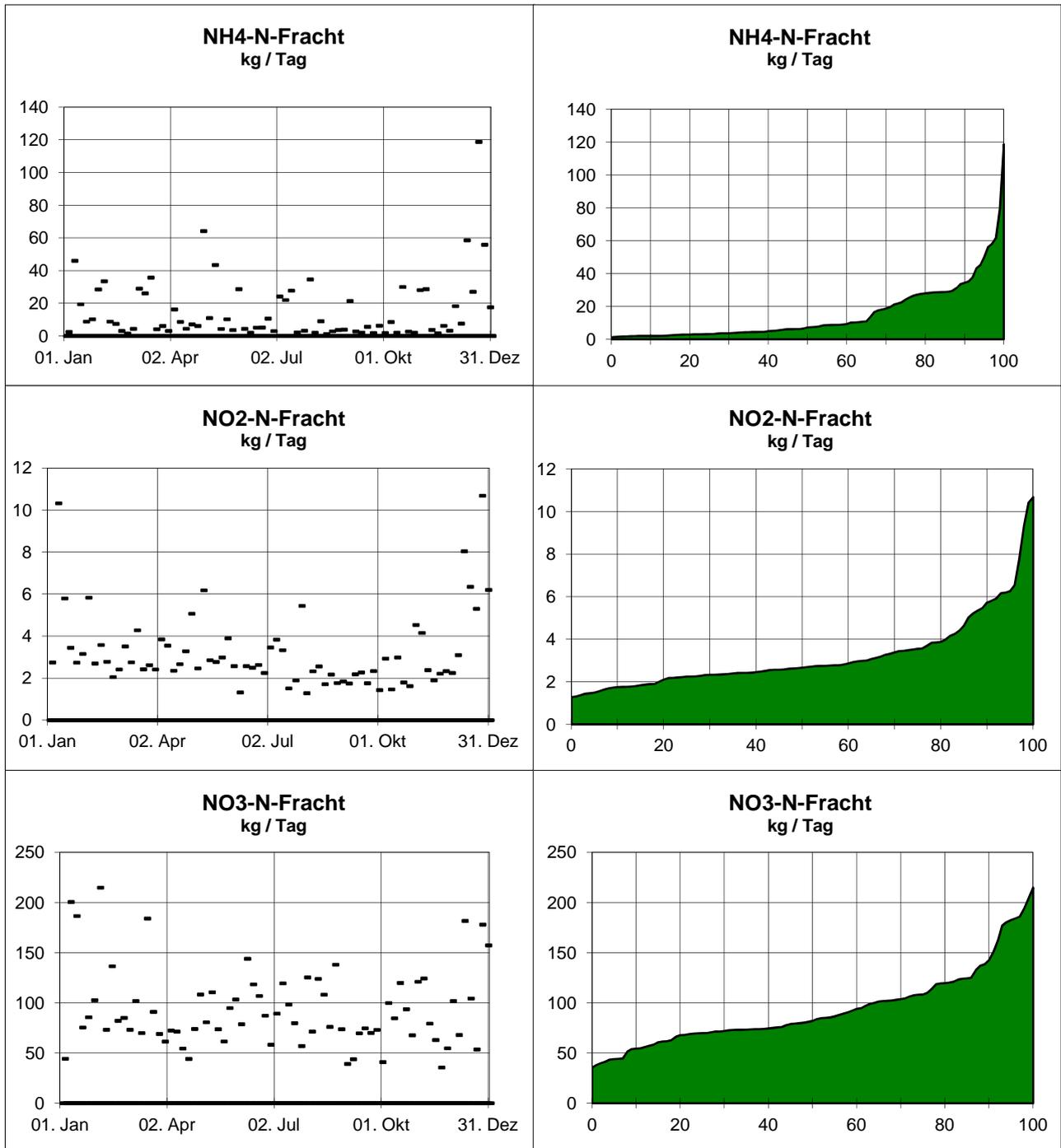


Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert <sup>1)</sup>
<b>BSB5</b>			15
<b>CSB</b>	50.7	66.8	
<b>GUS</b>	18.0	25.0	15
<b>NH4-N</b>	1.0	2.0	2
<b>NO2-N<sup>2)</sup></b>	0.2	0.3	0.3
<b>NO3-N</b>	6.7	8.7	
<b>P ges</b>	0.46	0.69	0.8

<sup>1)</sup> nach GSchV vom 28. Oktober 1998  
<sup>2)</sup> Richtwert





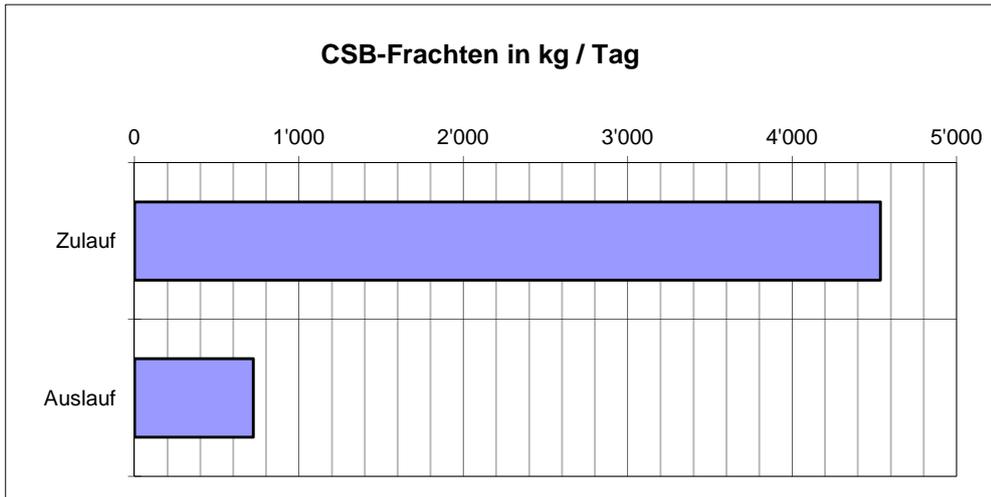


**Auslauffrachten:**

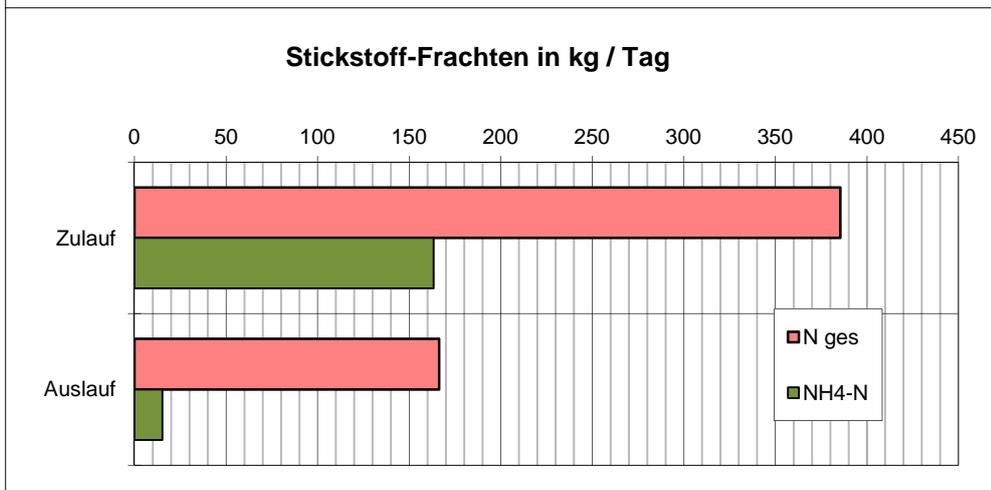
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
<b>CSB</b>	721	619	1'005	695
<b>GUS</b>	274	225	385	259
<b>Nges</b>	166	140	221	160
<b>NH4-N</b>	15.3	7.2	28.0	12.6
<b>NO2-N</b>	3.2	2.7	3.9	3.0
<b>NO3-N</b>	93.7	82.1	119.7	90.8
<b>P ges</b>	7.2	5.2	11.9	6.7

**Abbauleistungen:**

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
<b>CSB</b>	4'536	721	84%	80%
<b>N ges</b>	385.5	166.4	57%	30%
<b>NH4-N</b>	163.3	15.3	91%	90%
<b>Pges</b>	37.6	7.2	81%	80%

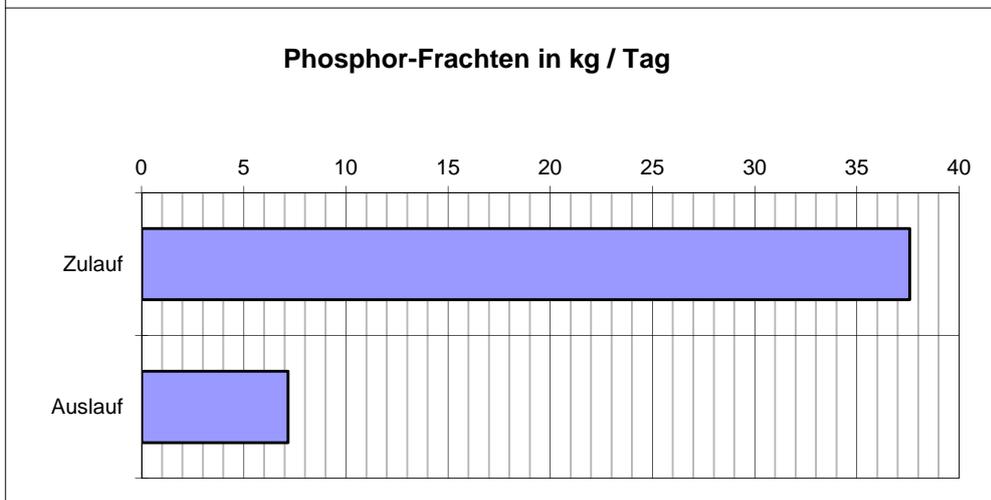


<b>CSB-Abbau</b>	
3'815 kg / Tag	84%
80%	Richtwert

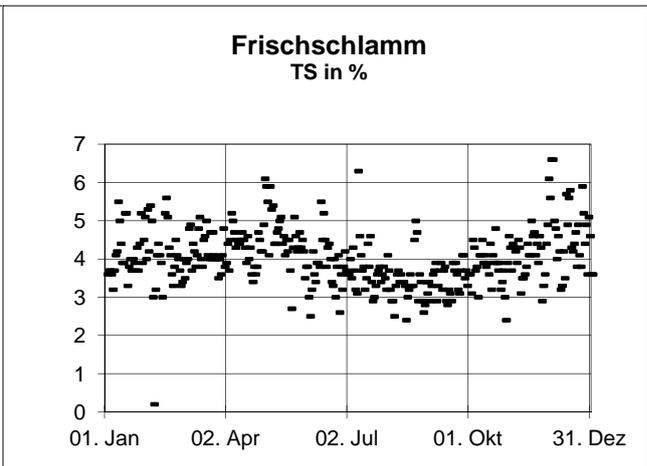
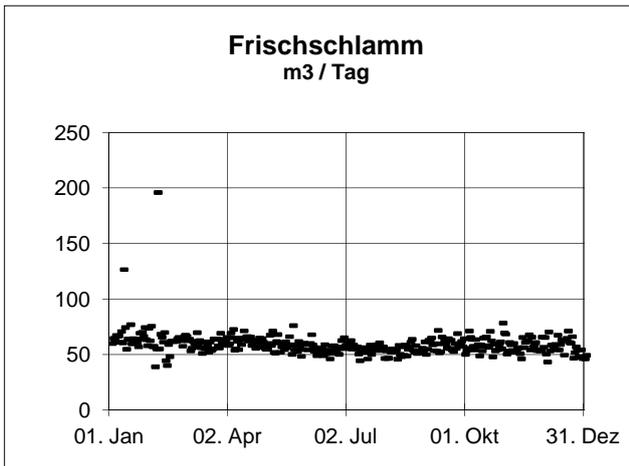


<b>N-Elimination</b>	
219 kg / Tag	57%
30%	

<b>Nitrifikation</b>	
148 kg / Tag	91%
90%	



<b>P-Elimination</b>	
30 kg / Tag	81%
80%	

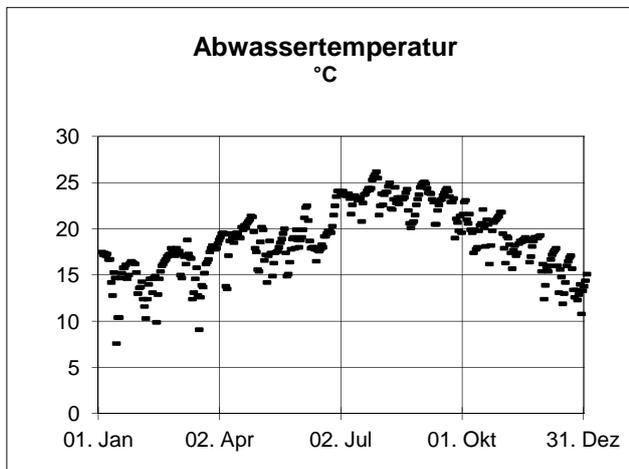


**Frishschlammmanfall: Mittelwerte**

<b>Frishschl. nass</b>	59.0	m <sup>3</sup> /Tag
<b>TS-Anteil</b>	4.0	%
<b>Frishschl. in TS</b>	2'371	kg/Tag

**Jahresanfall**

<b>Frishschl. in TS</b>	865	t/ Jahr
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**Abwassertemperatur:**

<b>Mittelwert</b>	18.8 °C
<b>20%-Wert</b>	15.8 °C
<b>50%-Wert</b>	18.7 °C
<b>80%-Wert</b>	22.6 °C

**Bemerkungen zur Datenauswertung:**