

	Q bio m3 / Tag	Q min l / s	Q max l / s
<b>Mittelwert</b>	18'771		
<b>20%-Wert</b>	9'014	64	232
<b>50%-Wert</b>	12'468	83	327
<b>80%-Wert</b>	34'518	293	490
<b>Q tw</b> 1)	10'741	74	280
<b>2 Q tw</b>			559

1) Mittel aus 20% und 50%-Wert

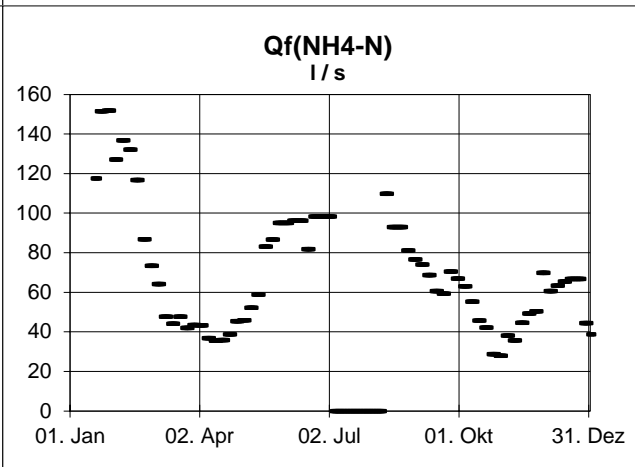
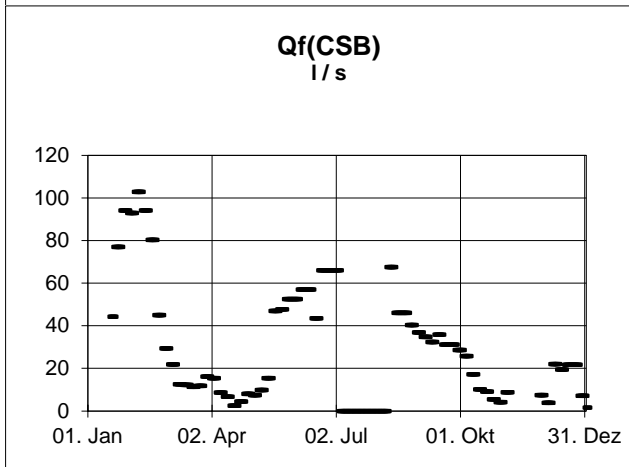
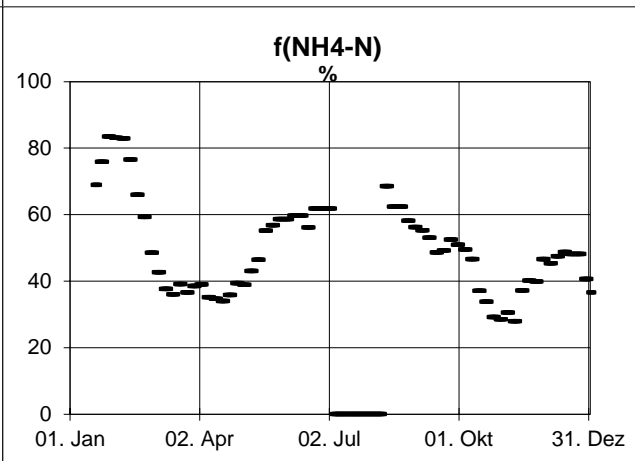
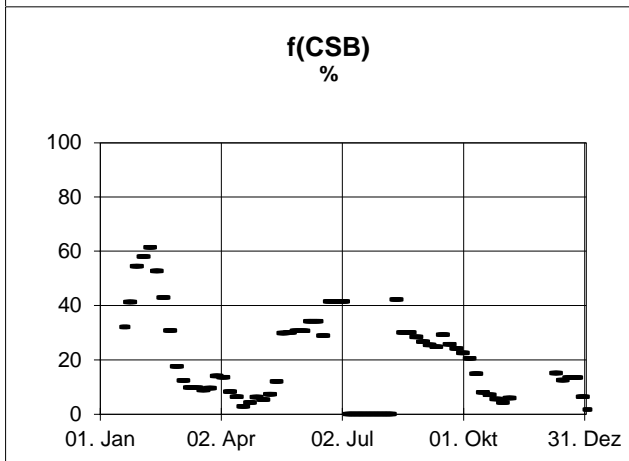
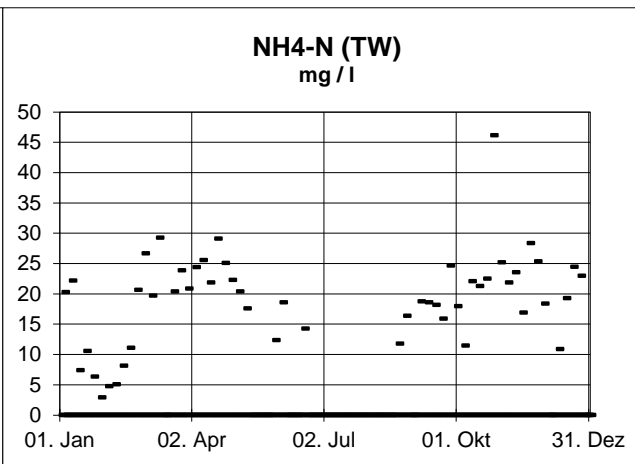
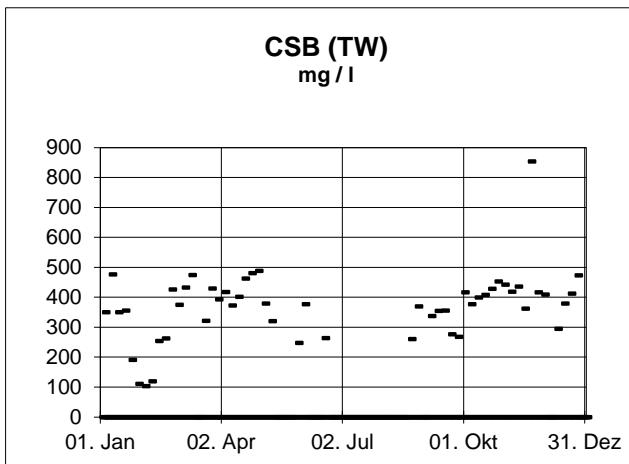
**Fremdwasseranteil 26 %**

siehe Seite 2

	Tagesmittelwerte	
	m3 / d	l / s
<b>Q tw</b>	10'741	124
<b>Q fremd</b> 2)	2'772	32
<b>Q schmutz</b> 3)	7'970	92

2) = Q tw \* Fremdwasseranteil / 100

3) = 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**

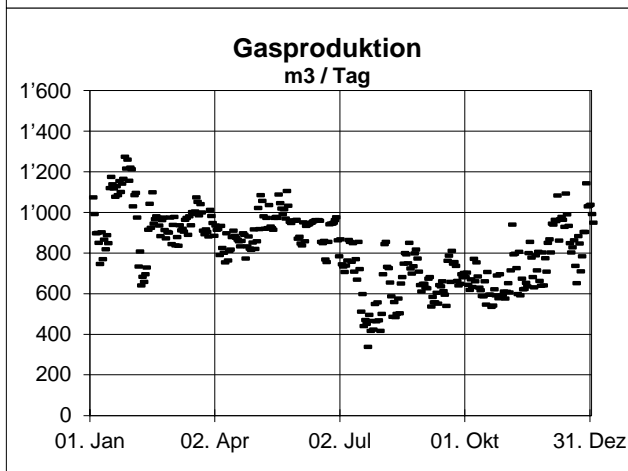
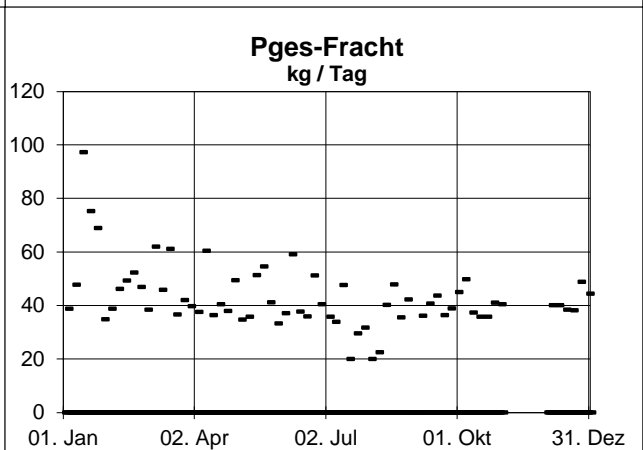
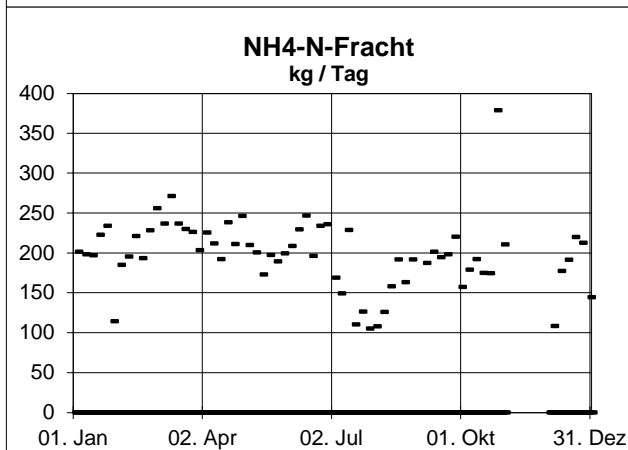
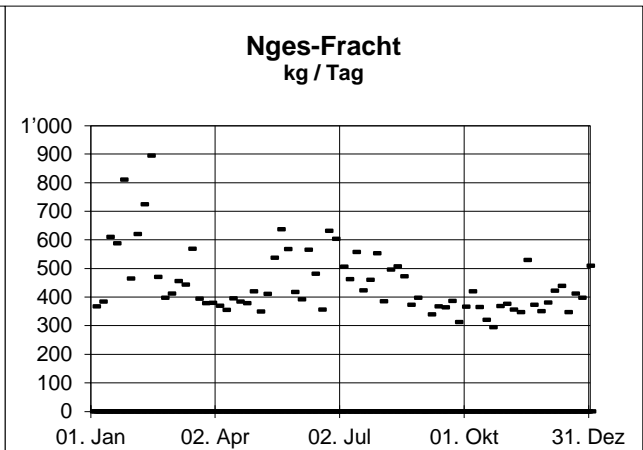
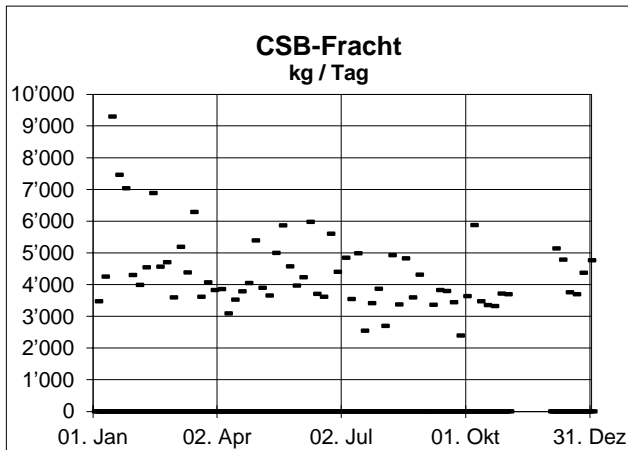
<b>Q tw</b>	10'741 m <sup>3</sup> / Tag
<b>Q schmutz (EW) <sup>1)</sup></b>	9'600 m <sup>3</sup> / Tag
<b>Q fremd (EW)</b>	1'141 m <sup>3</sup> / Tag
<b>f (EW)</b>	11 %

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

**Schätzung aus den Zulaufkonzentrationen:**

<b>f(CSB) Jahresmittel</b>	18 %
<b>f(NH4-N) Jahresmittel</b>	49 %

<b>f Mittelwert</b>	26 %
<b>f gewählt</b>	<b>26 %</b>

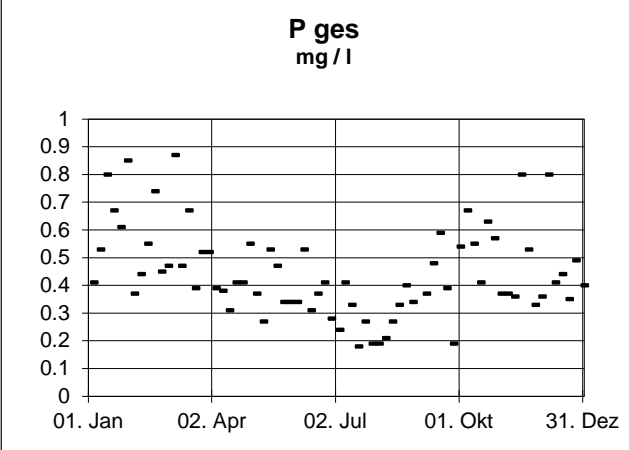
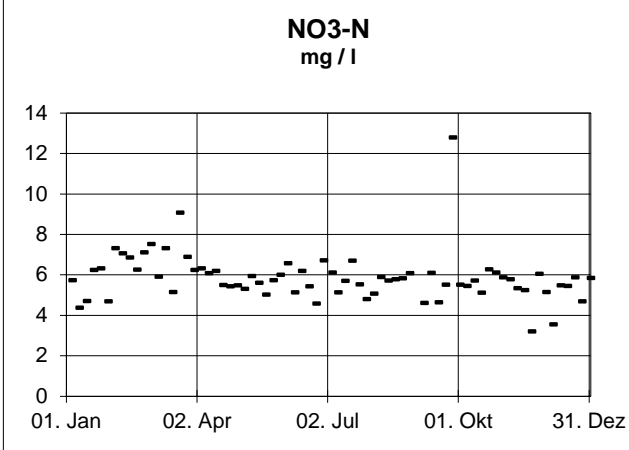
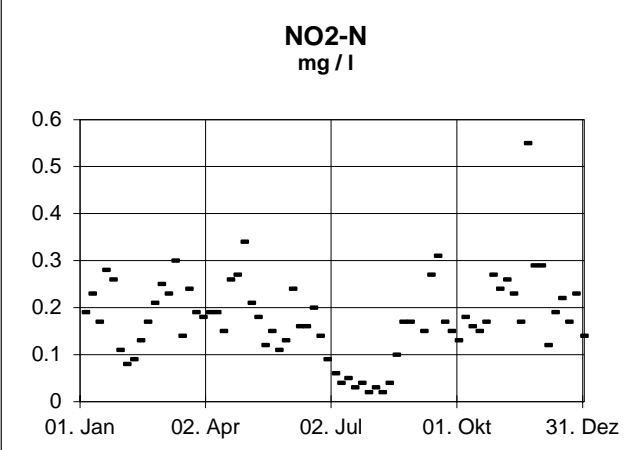
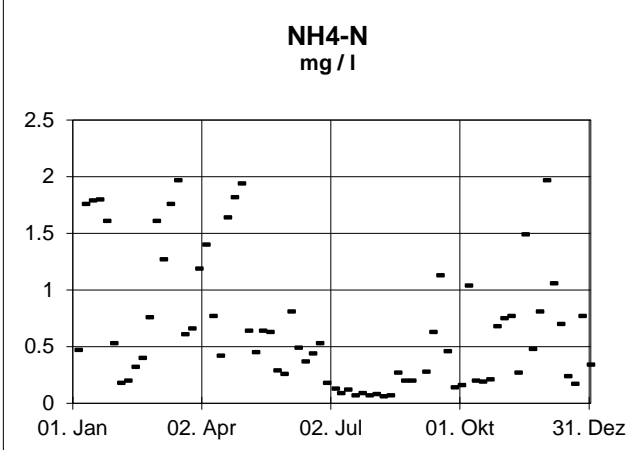
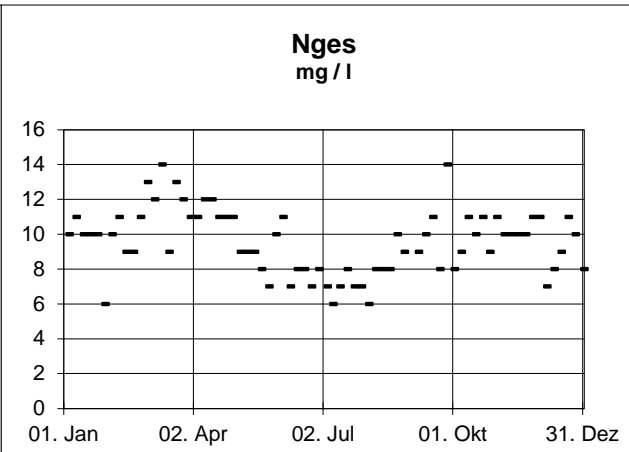
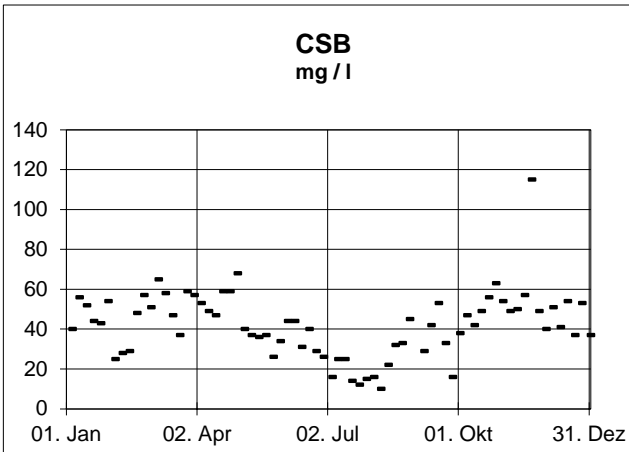


<b>EZ angeschlossen</b>	<b>20'000</b>
<b>EW biochem. gewählt</b>	<b>48'000</b>
<b>EW biochem. 80%-Wert</b>	<b>55'000</b>
<b>EW Stickstoff</b>	<b>26'000</b>
<b>EW Phosphor</b>	<b>27'000</b>

<u>Zulauffrachten</u>	<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>		4'349	198	43	821	2'469
<b>50%-Wert</b>		3'982	198	40	848	
<b>80%-Wert</b>		4'985	229	49	963	

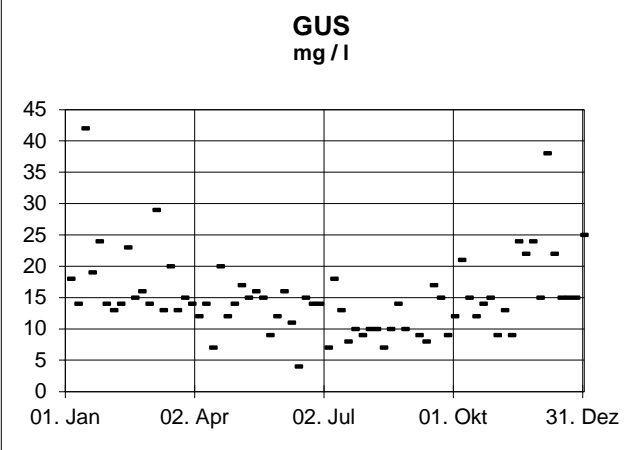
<b>spezifische Belastung pro EW</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	Probenahmeort: <b>ab VKB</b>	<b>l / Tag</b>	<b>g / Tag</b>
	<b>45</b>	<b>90</b>	<b>7.5</b>	<b>1.6</b>		<b>30</b>	<b>85</b>

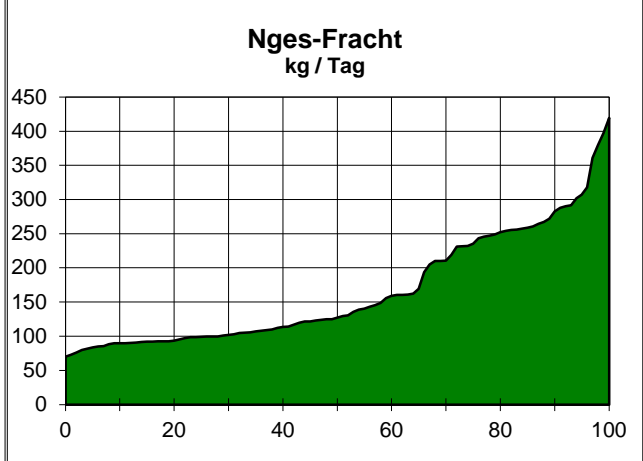
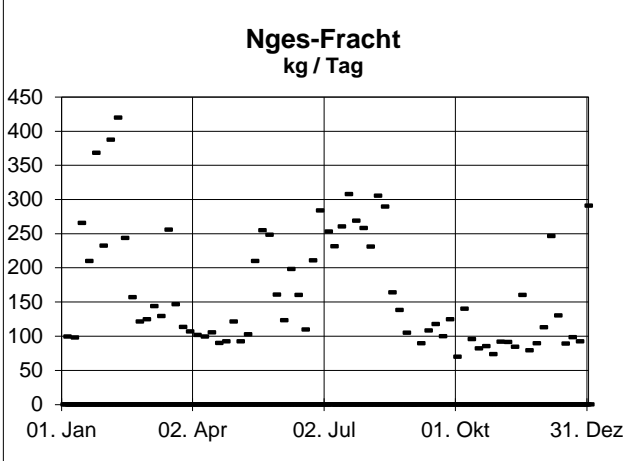
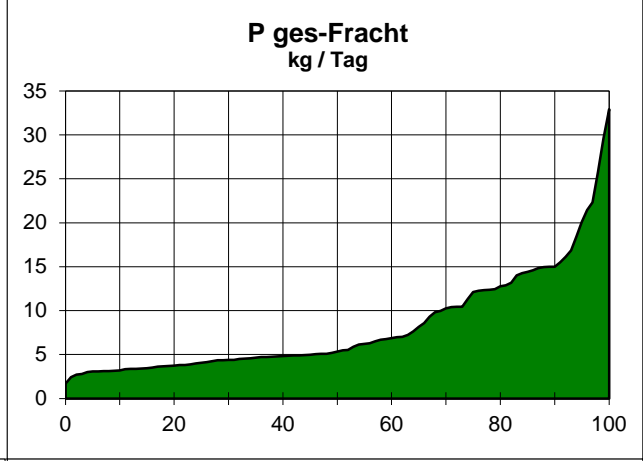
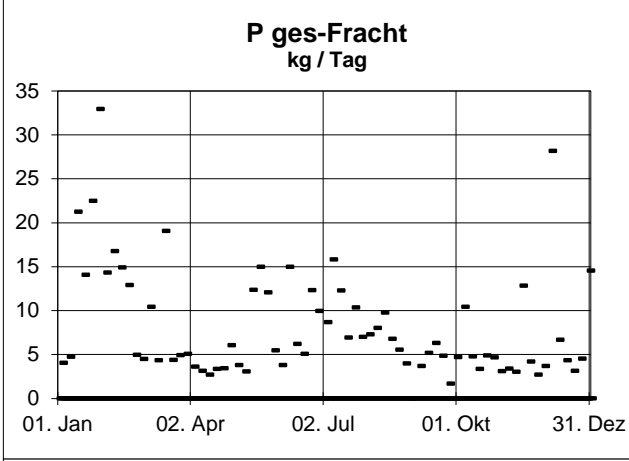
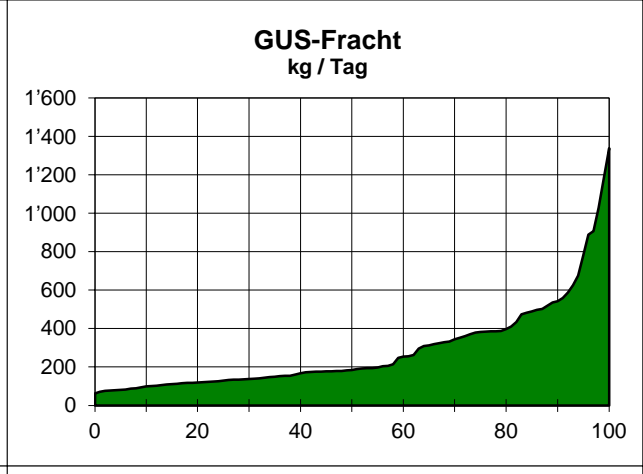
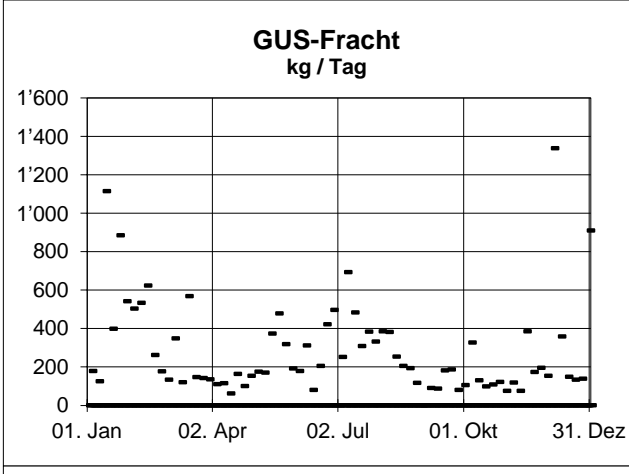
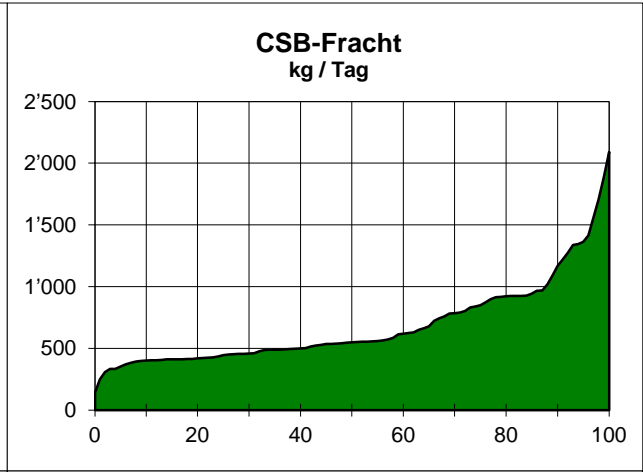
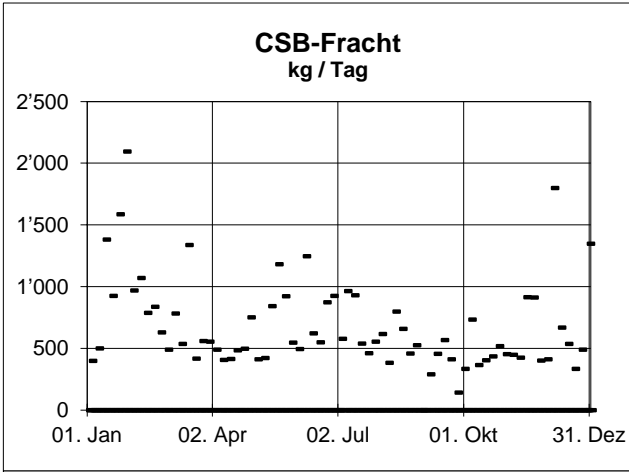
<u>Einwohnerwerte</u>	<b>BSB5 EW</b>	<b>CSB EW</b>	<b>NH4-N EW</b>	<b>Pges EW</b>	<b>Mittelwerte EW</b>	<b>Gasp. EW</b>	<b>FS EW</b>
<b>Mittelwert</b>		48'324	26'368	26'848	33'847	27'361	29'046
<b>50%-Wert</b>		44'244	26'443	25'122	31'937	28'267	
<b>80%-Wert</b>		55'394	30'508	30'838	38'913	32'107	

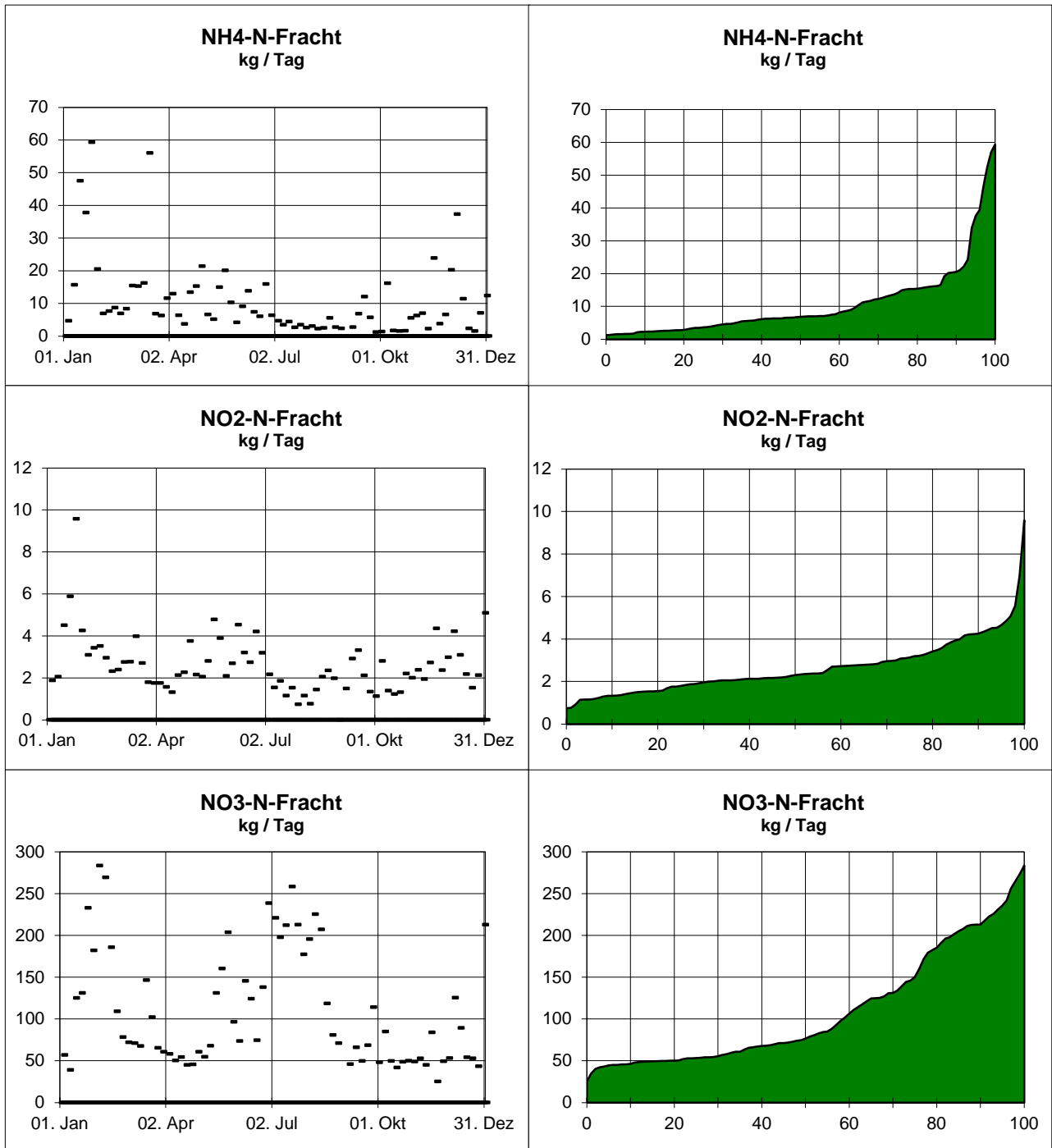


Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert <sup>1)</sup>
<b>BSB5</b>			15
<b>CSB</b>	42.1	57.9	
<b>GUS</b>	15.1	22.9	15
<b>NH4-N</b>	0.7	1.7	2
<b>NO2-N<sup>2)</sup></b>	0.2	0.3	0.3
<b>NO3-N</b>	5.9	6.9	
<b>P ges</b>	0.45	0.67	0.8

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





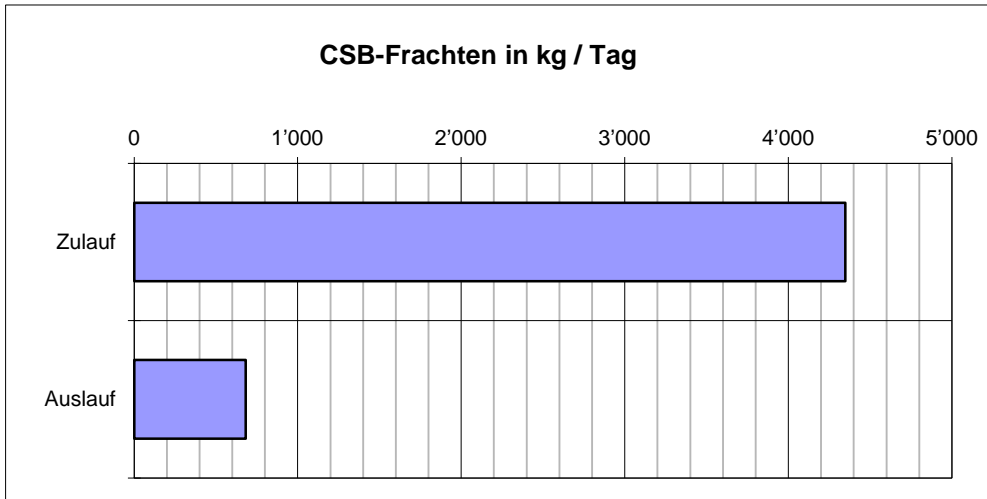


**Auslauffrachten:**

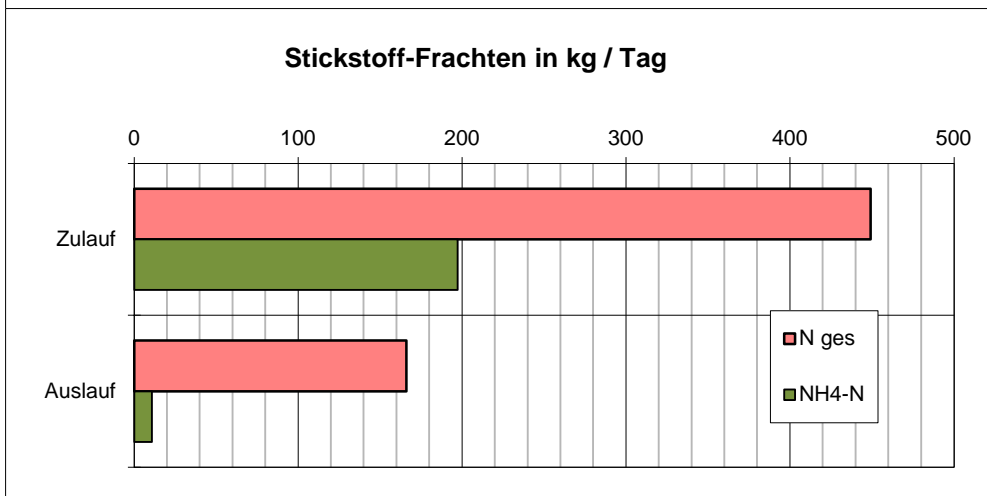
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
<b>CSB</b>	683	548	921	646
<b>GUS</b>	289	184	396	256
<b>Nges</b>	166	127	252	159
<b>NH4-N</b>	10.9	6.8	15.4	9.1
<b>NO2-N</b>	2.6	2.3	3.4	2.5
<b>NO3-N</b>	109.6	76.6	185.2	104.9
<b>P ges</b>	8.3	5.3	12.7	7.5

**Abbauleistungen:**

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
<b>CSB</b>	4'349	683	84%	80%
<b>N ges</b>	449.2	166.0	63%	30%
<b>NH4-N</b>	197.2	10.9	94%	90%
<b>Pges</b>	43.0	8.3	81%	80%

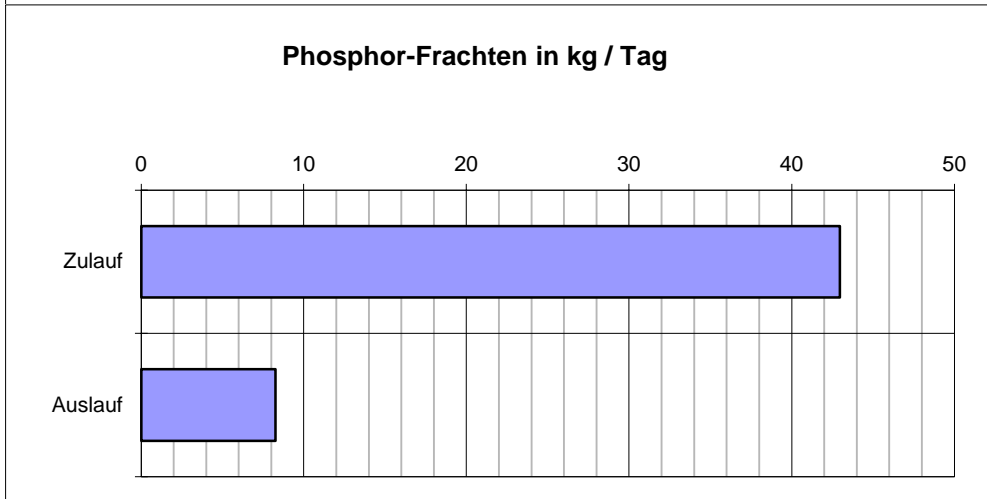


<b>CSB-Abbau</b>	
3'666 kg / Tag	84%
<b>80%</b>	Richtwert

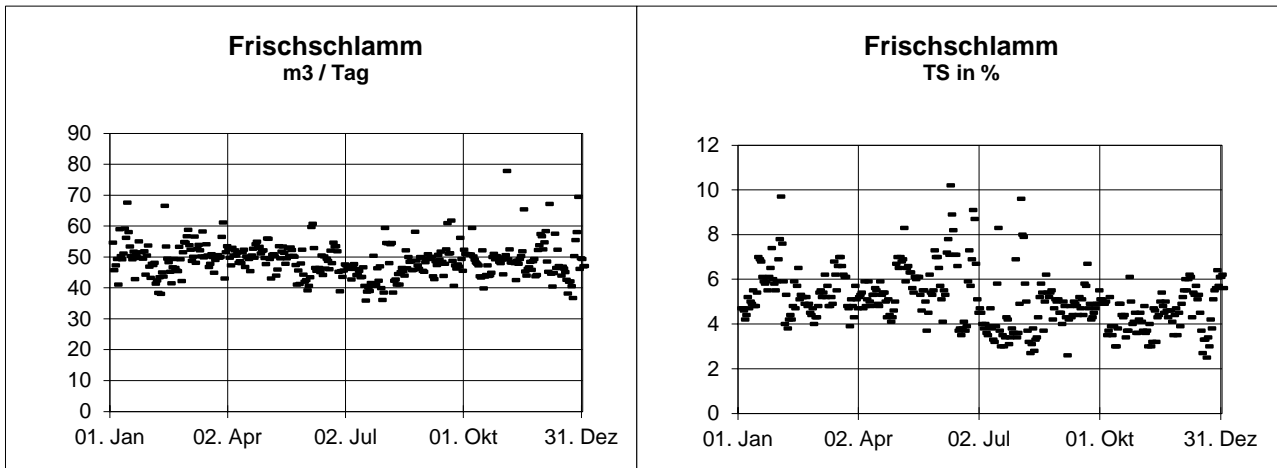


<b>N-Elimination</b>	
283 kg / Tag	63%
<b>30%</b>	

<b>Nitrifikation</b>	
186 kg / Tag	94%
<b>90%</b>	



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

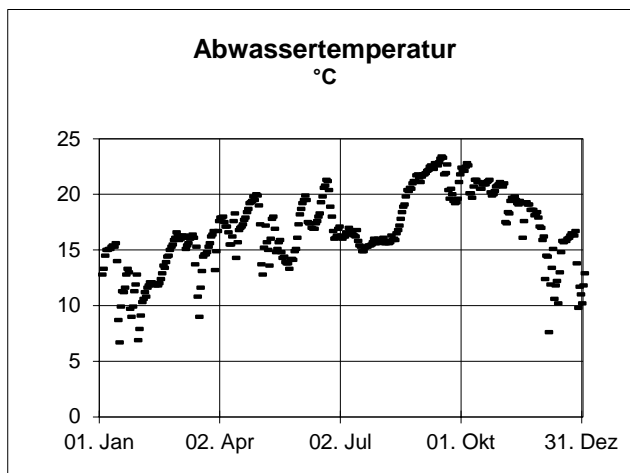


**Frishschlammmanfall: Mittelwerte**

<b>Frishschl. nass</b>	48.8	m <sup>3</sup> /Tag
<b>TS-Anteil</b>	5.1	%
<b>Frishschl. in TS</b>	2'469	kg/Tag

**Jahresanfall**

<b>Frishschl. in TS</b>	901	t/ Jahr
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**Abwassertemperatur:**

<b>Mittelwert</b>	16.7 °C
<b>20%-Wert</b>	14.3 °C
<b>50%-Wert</b>	16.4 °C
<b>80%-Wert</b>	19.9 °C

**Bemerkungen zur Datenauswertung:**