

	Q bio m3 / Tag	Q min l / s	Q max l / s
<b>Mittelwert</b>	16'585		
<b>20%-Wert</b>	8'933	62	223
<b>50%-Wert</b>	10'615	72	257
<b>80%-Wert</b>	26'551	168	481
<b>Q tw</b> 1)	9'774	67	240
<b>2 Q tw</b>			479

1) Mittel aus 20% und 50%-Wert

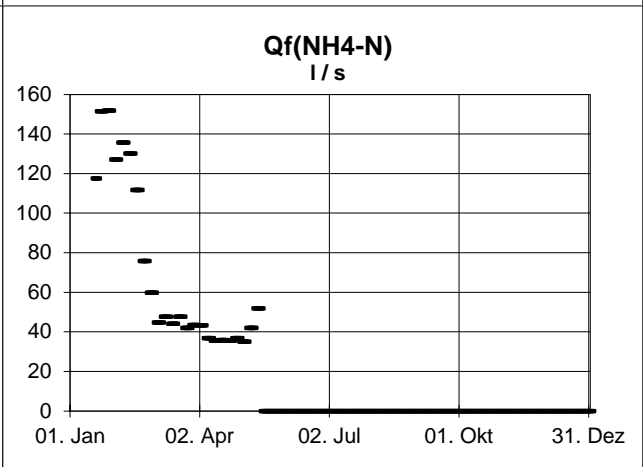
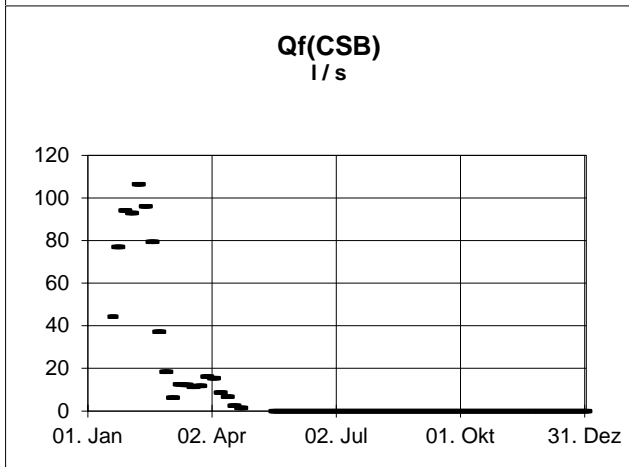
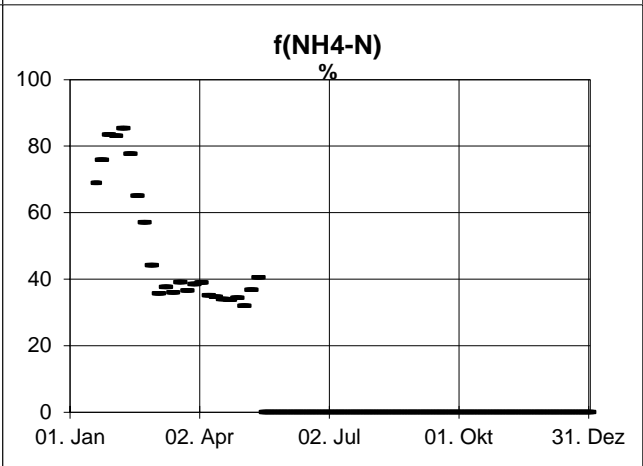
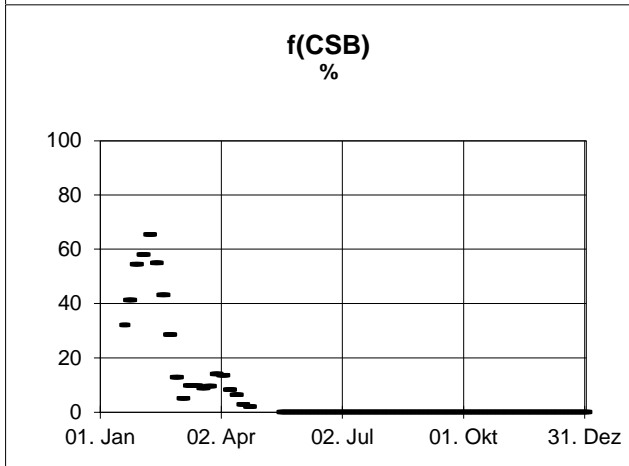
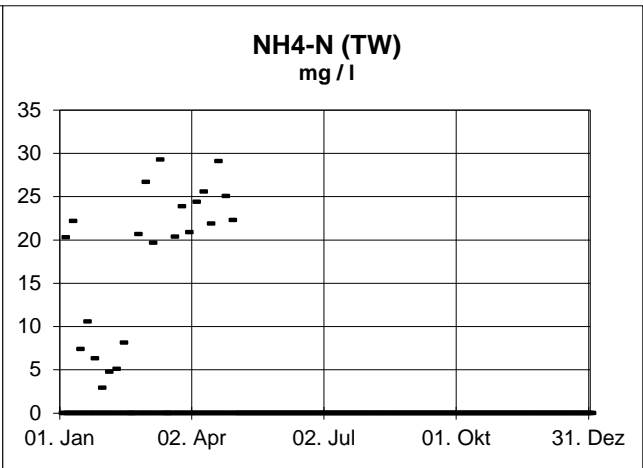
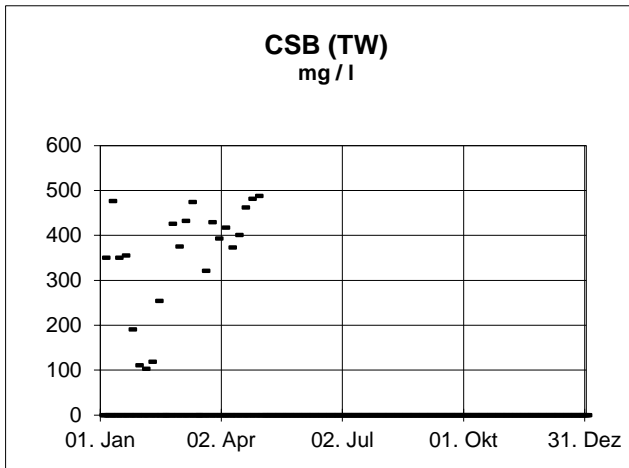
**Fremdwasseranteil 22 %**

siehe Seite 2

	Tagesmittelwerte	
	m3 / d	l / s
<b>Q tw</b>	9'774	113
<b>Q fremd</b> 2)	2'109	24
<b>Q schmutz</b> 3)	7'665	89

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**

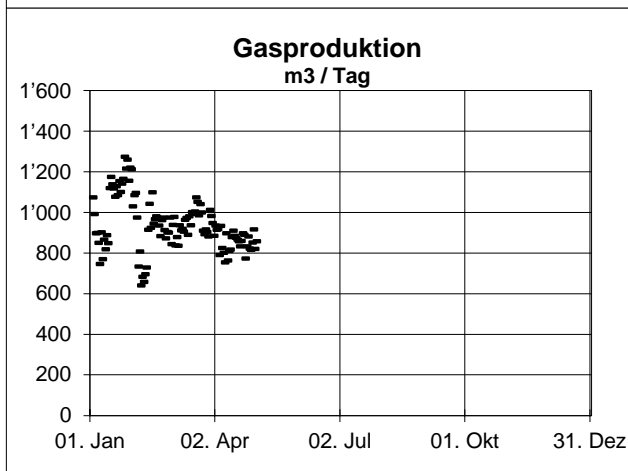
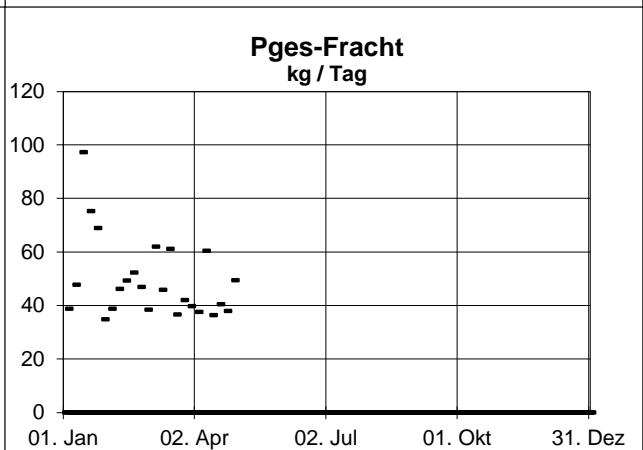
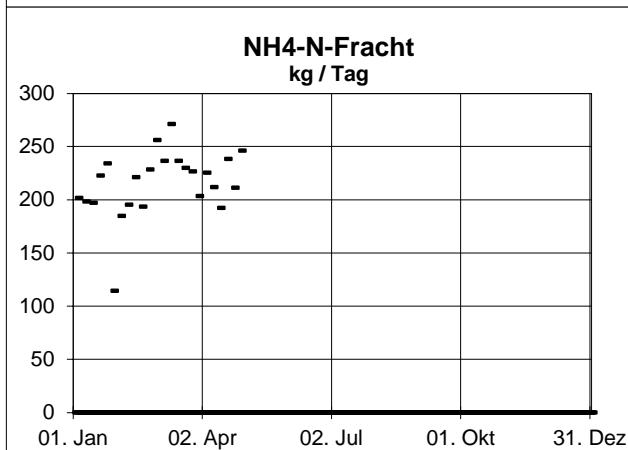
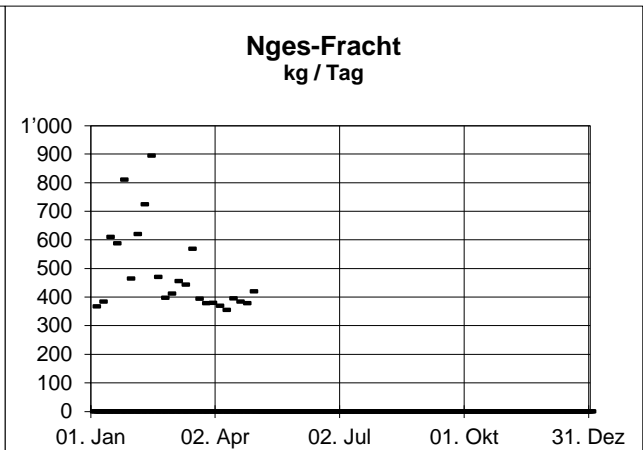
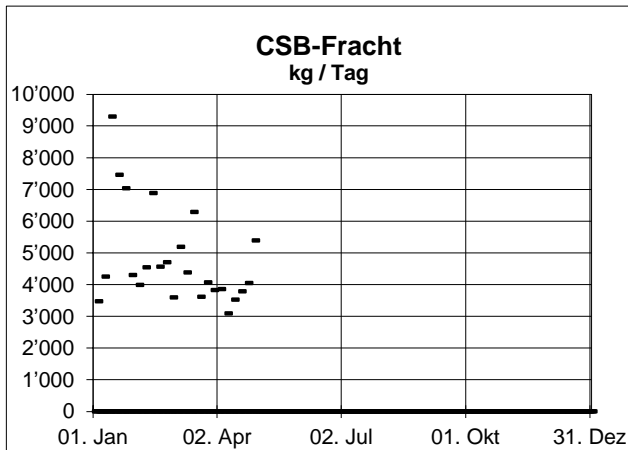
<b>Q tw</b>	9'774 m3 / Tag
<b>Q schmutz (EW) <sup>1)</sup></b>	10'600 m3 / Tag
<b>Q fremd (EW)</b>	-826 m3 / Tag
<b>f (EW)</b>	-8 %

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

**Schätzung aus den Zulaufkonzentrationen:**

<b>f(CSB) Jahresmittel</b>	21 %
<b>f(NH4-N) Jahresmittel</b>	52 %

<b>f Mittelwert</b>	22 %
<b>f gewählt</b>	<b>22 %</b>

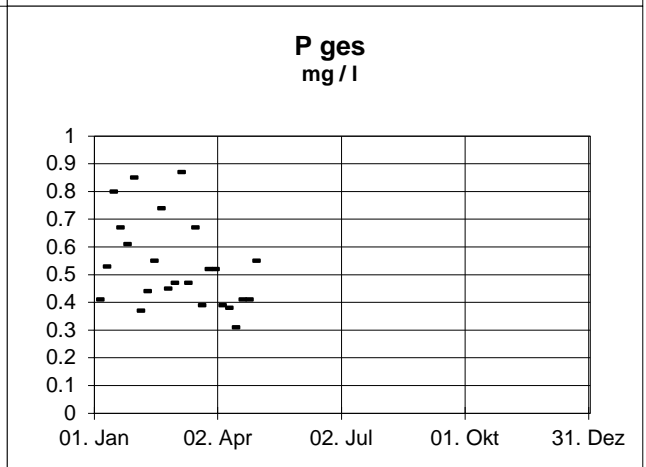
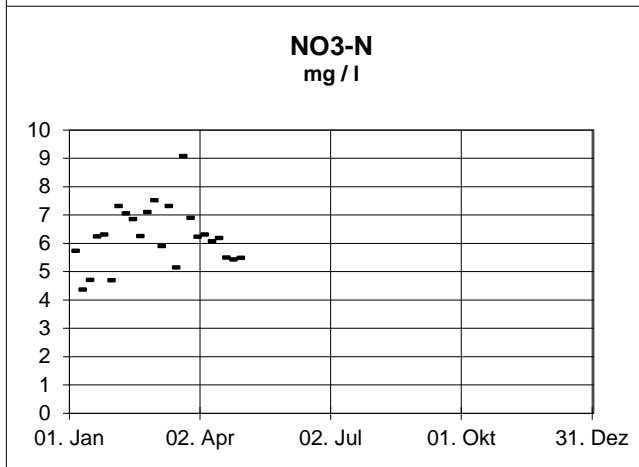
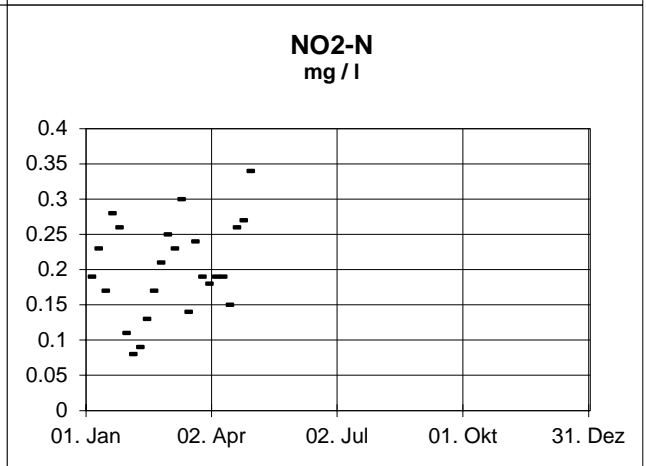
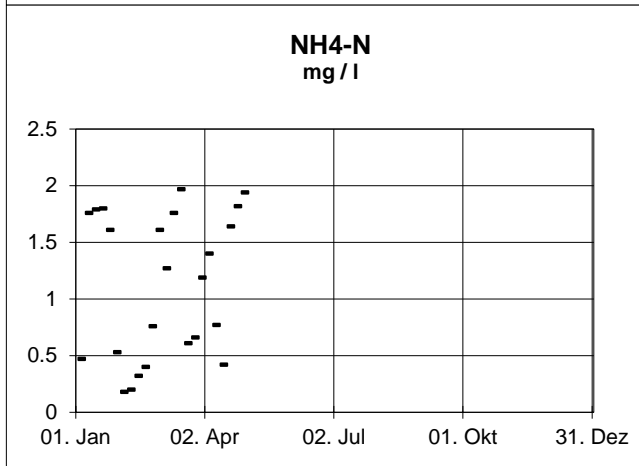
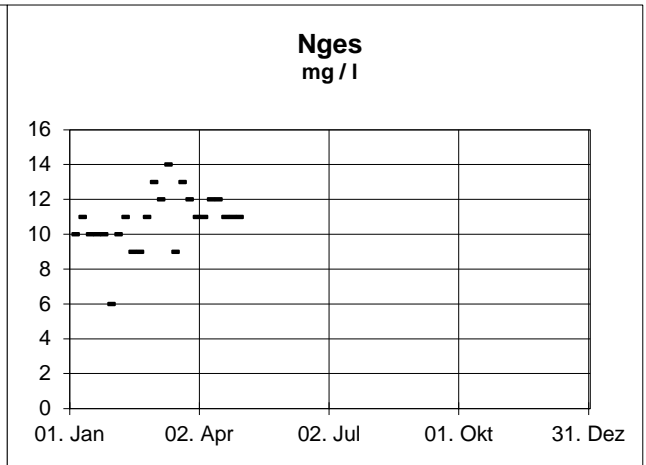
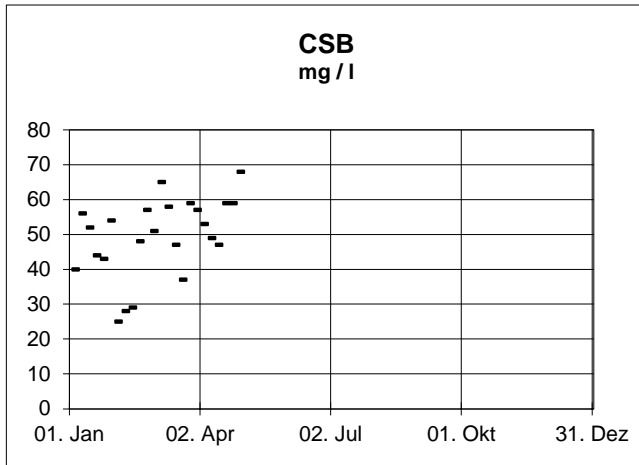


<b>EZ angeschlossen</b>	<b>20'000</b>
<b>EW biochem. gewählt</b>	<b>53'000</b>
<b>EW biochem. 80%-Wert</b>	<b>64'000</b>
<b>EW Stickstoff</b>	<b>29'000</b>
<b>EW Phosphor</b>	<b>31'000</b>

<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>		4'799	216	49	936	2'714
<b>50%-Wert</b>		4'278	222	46	914	
<b>80%-Wert</b>		5'748	237	61	1'041	

<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>

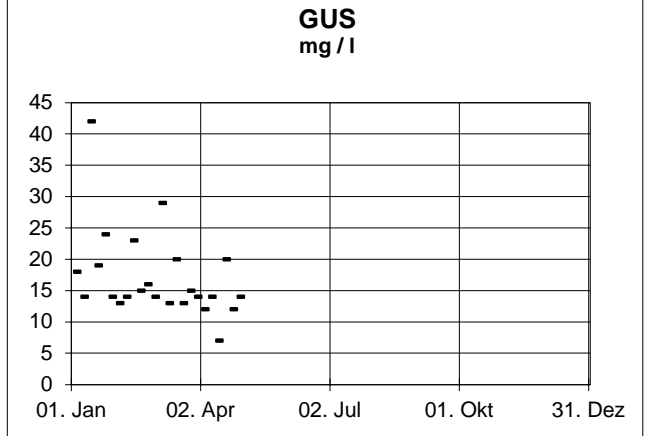
<b>Einwohnerwerte</b>	<b>BSB5 EW</b>	<b>CSB EW</b>	<b>NH4-N EW</b>	<b>Pges EW</b>	<b>Mittelwerte EW</b>	<b>Gasp. EW</b>	<b>FS EW</b>
<b>Mittelwert</b>		53'320	28'766	30'842	37'642	31'183	31'927
<b>50%-Wert</b>		47'530	29'597	28'743	35'290	30'467	
<b>80%-Wert</b>		63'870	31'553	37'967	44'463	34'707	

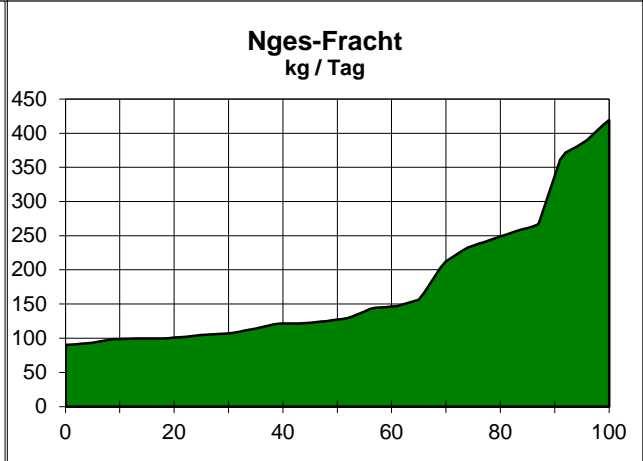
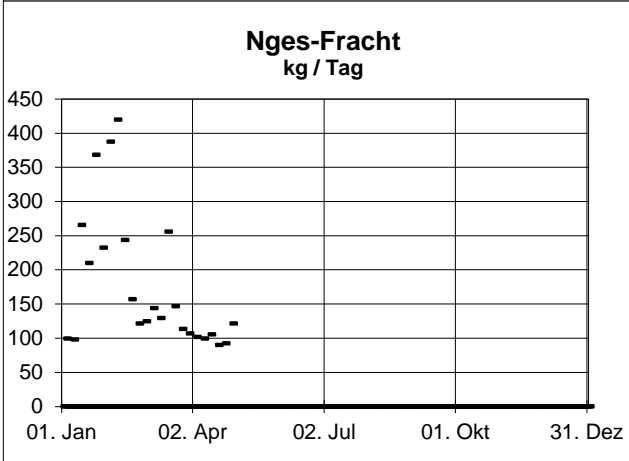
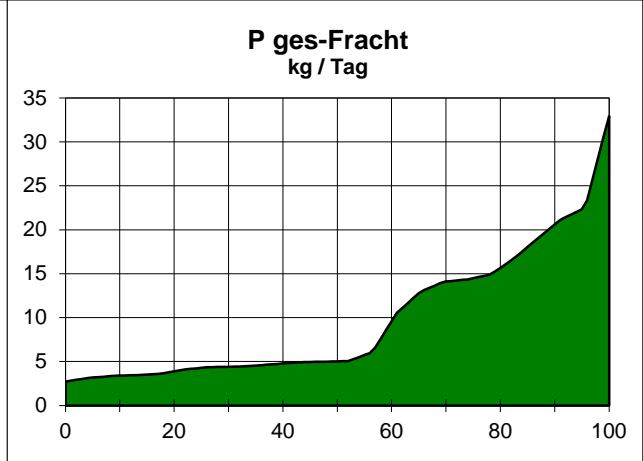
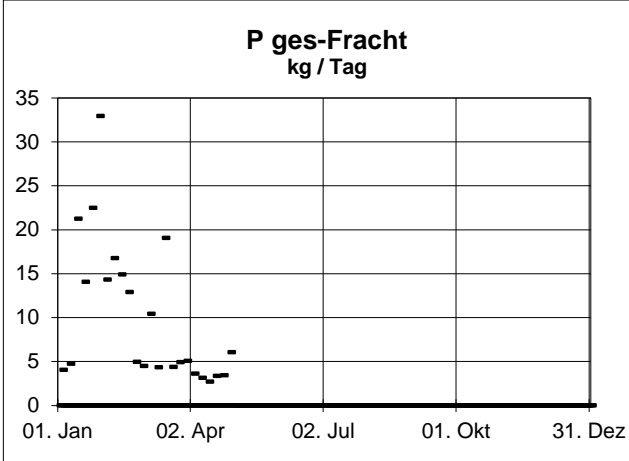
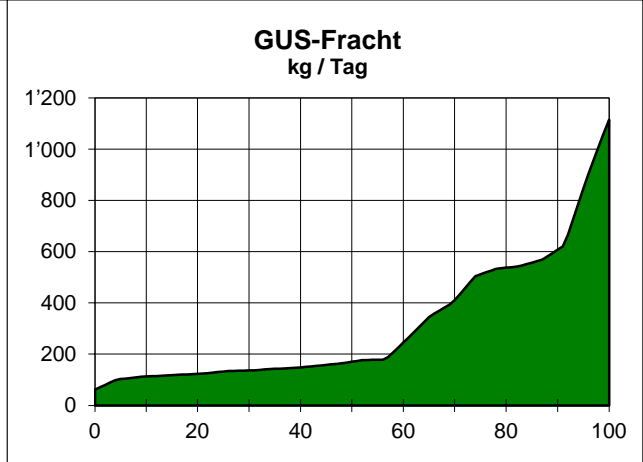
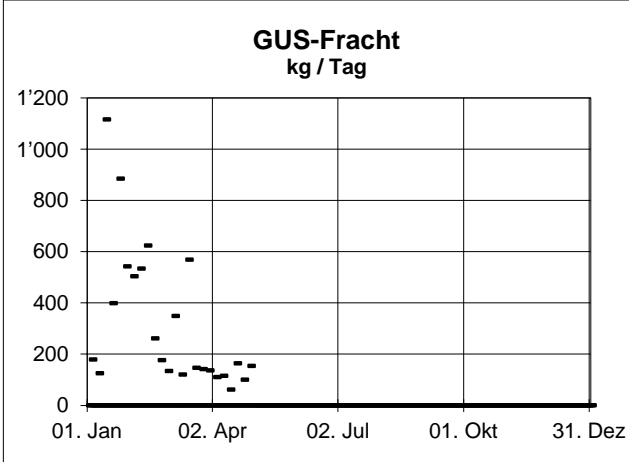
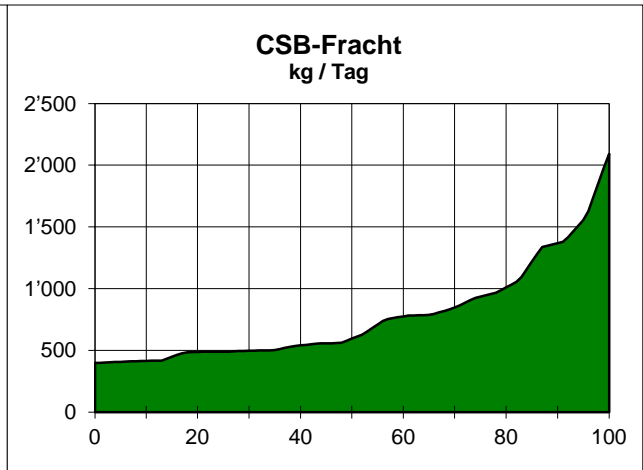
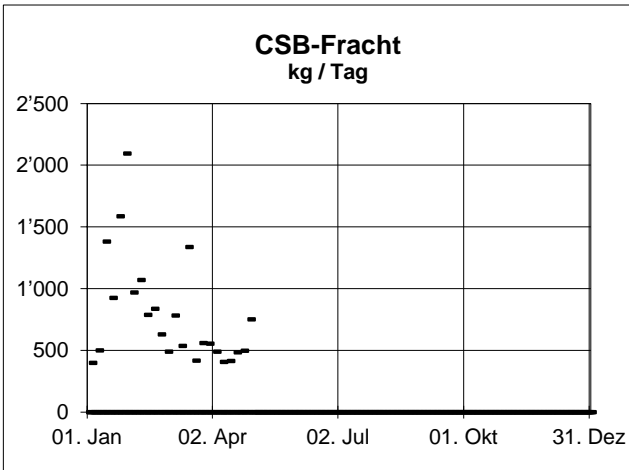


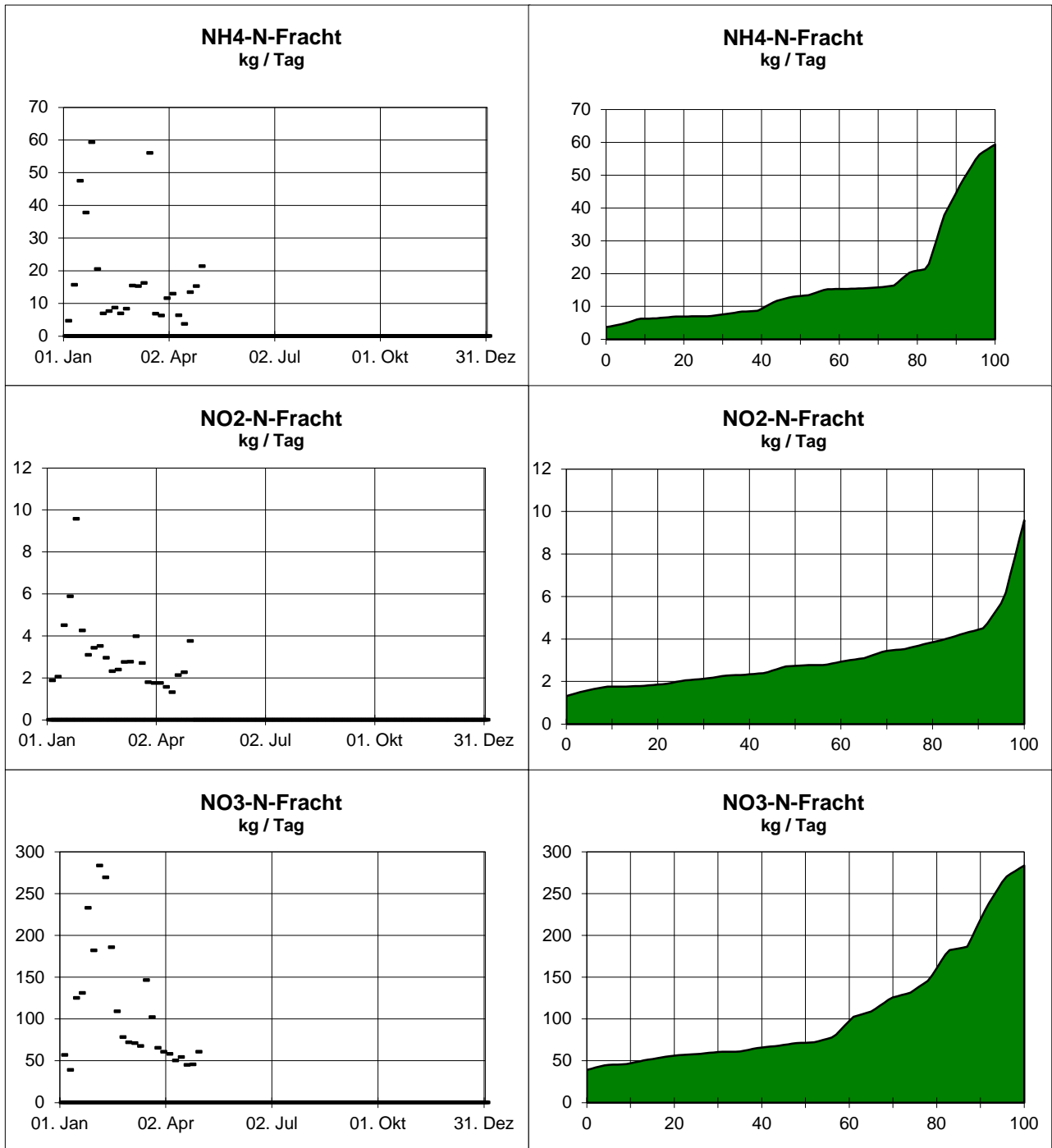
Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert <sup>1)</sup>
<b>BSB5</b>			15
<b>CSB</b>	49.4	59.0	
<b>GUS</b>	17.0	23.7	15
<b>NH4-N</b>	1.1	1.8	2
<b>NO2-N<sup>2)</sup></b>	0.2	0.3	0.3
<b>NO3-N</b>	6.2	7.3	
<b>P ges</b>	0.53	0.78	0.8

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

<sup>2)</sup> Richtwert







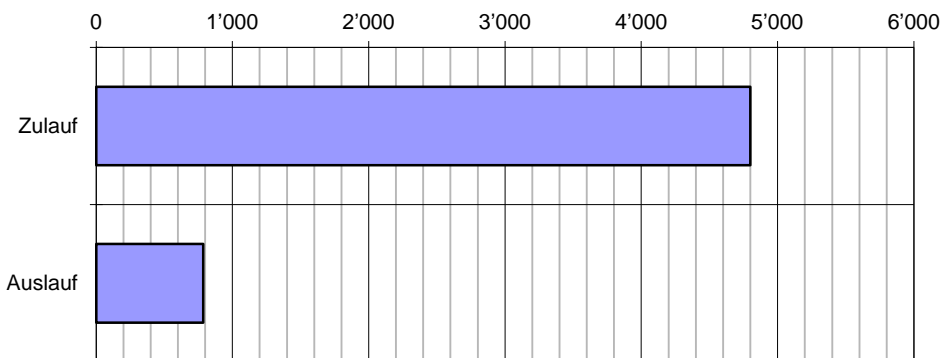
**Auslauffrachten:**

Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
<b>CSB</b>	787	594	1'009	732
<b>GUS</b>	319	170	538	284
<b>Nges</b>	177	127	249	166
<b>NH4-N</b>	17.7	13.2	20.9	15.8
<b>NO2-N</b>	3.1	2.7	3.8	2.8
<b>NO3-N</b>	108.1	71.6	160.7	100.5
<b>P ges</b>	9.9	5.0	15.7	9.0

**Abbauleistungen:**

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
<b>CSB</b>	4'799	787	84%	80%
<b>N ges</b>	486.2	176.5	64%	30%
<b>NH4-N</b>	215.5	17.7	92%	90%
<b>Pges</b>	49.3	9.9	80%	80%

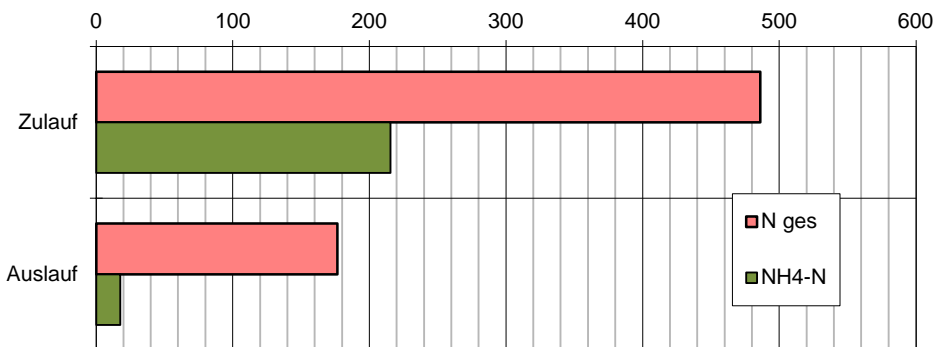
**CSB-Frachten in kg / Tag**



**CSB-Abbau**

4'012 kg / Tag
84%
<b>80%</b>
Richtwert

**Stickstoff-Frachten in kg / Tag**



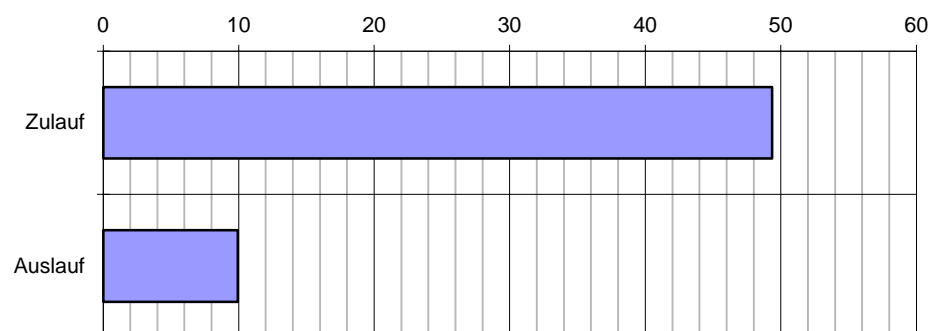
**N-Elimination**

310 kg / Tag
64%
<b>30%</b>

**Nitrifikation**

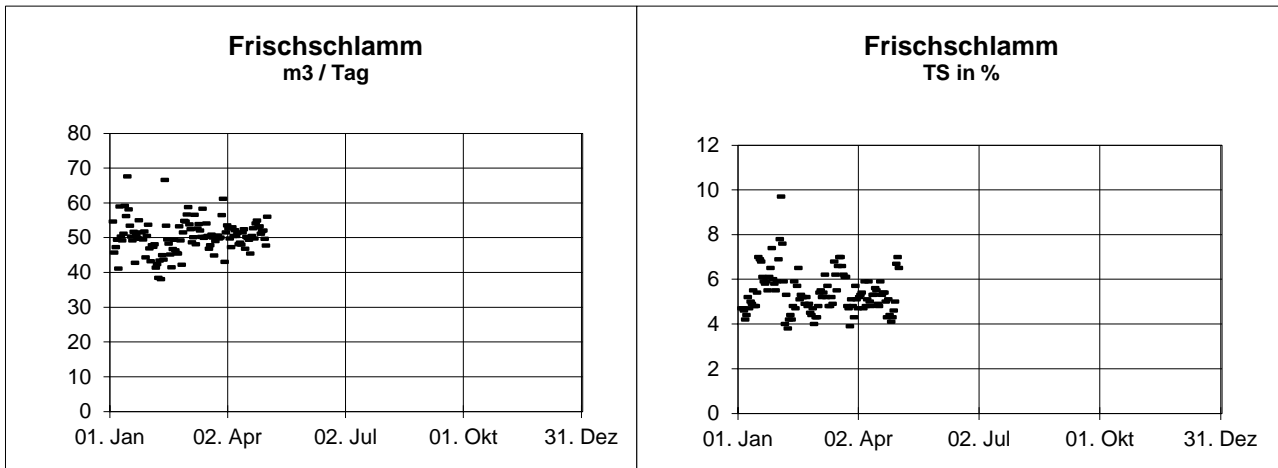
198 kg / Tag
92%
<b>90%</b>

**Phosphor-Frachten in kg / Tag**



**P-Elimination**

39 kg / Tag
80%
<b>80%</b>

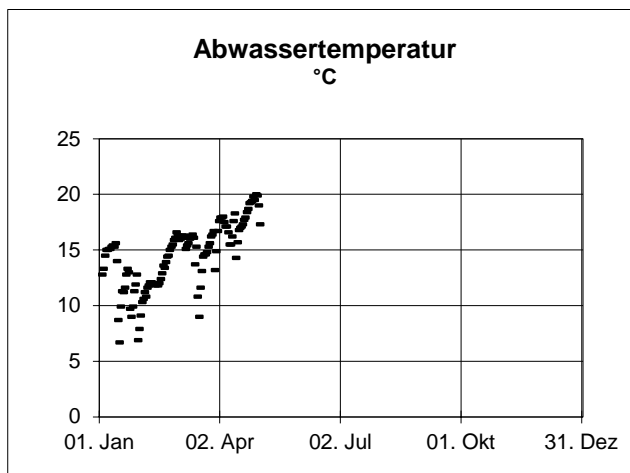


**Frishschlammmanfall: Mittelwerte**

<b>Frishschl. nass</b>	50.3	m <sup>3</sup> /Tag
<b>TS-Anteil</b>	5.4	%
<b>Frishschl. in TS</b>	2'714	kg/Tag

**Jahresanfall**

<b>Frishschl. in TS</b>	991	t/ Jahr
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**Abwassertemperatur:**

<b>Mittelwert</b>	14.6 °C
<b>20%-Wert</b>	11.9 °C
<b>50%-Wert</b>	15.1 °C
<b>80%-Wert</b>	17.0 °C

**Bemerkungen zur Datenauswertung:**