

	<b>Q bio</b> m <sup>3</sup> / Tag	<b>Q min</b> l / s	<b>Q max</b> l / s
<b>Mittelwert</b>	13'466		
<b>20%-Wert</b>	8'645	61	282
<b>50%-Wert</b>	10'304	76	326
<b>80%-Wert</b>	17'339	103	502
<b>Q tw</b> 1)	9'474	69	304
<b>2 Q tw</b>			608

1) Mittel aus 20% und 50%-Wert

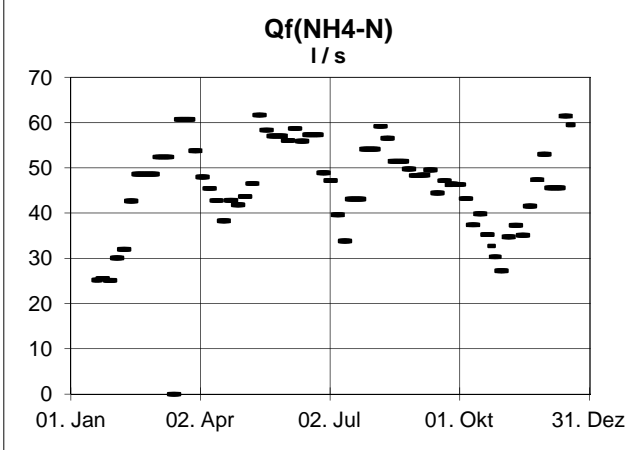
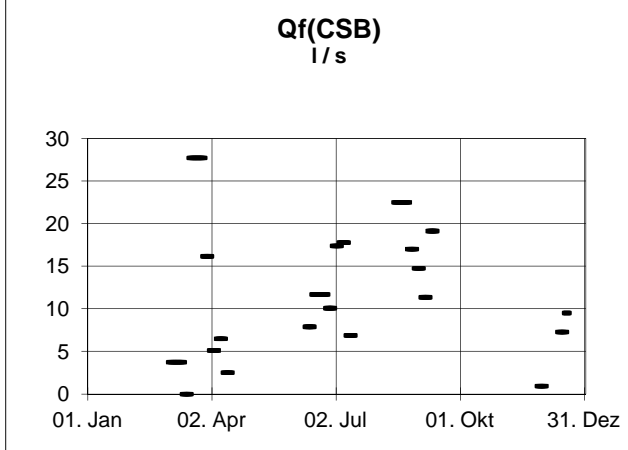
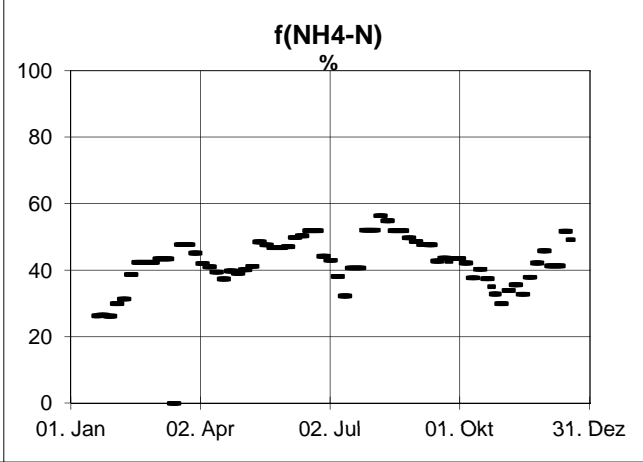
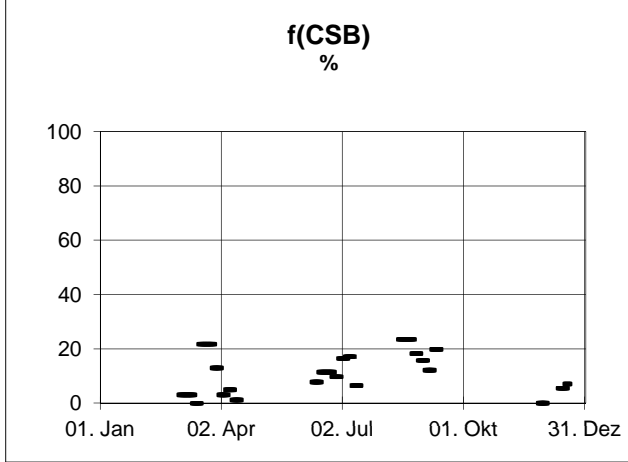
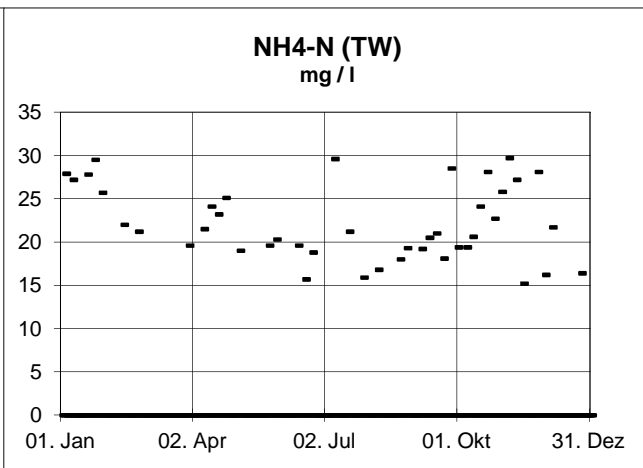
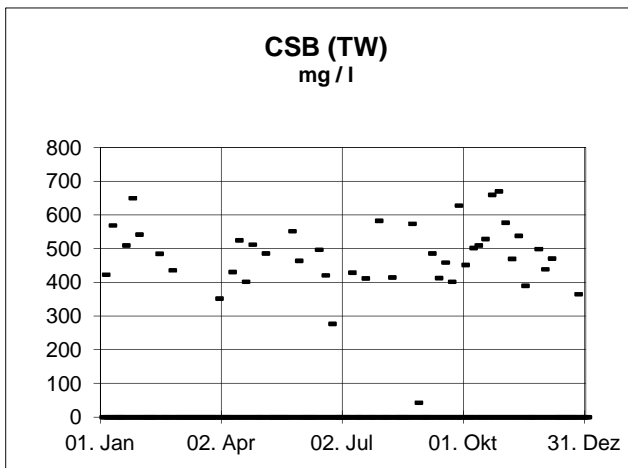
**Fremdwasseranteil 10 %**

siehe Seite 2

	<b>Tagesmittelwerte</b>	
	<b>m<sup>3</sup> / d</b>	<b>l / s</b>
<b>Q tw</b>	9'474	110
<b>Q fremd</b> <sup>2)</sup>	942	11
<b>Q schmutz</b> <sup>3)</sup>	8'533	99

<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**

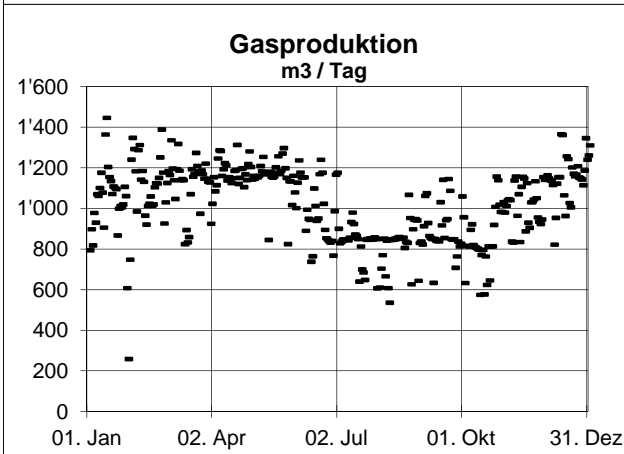
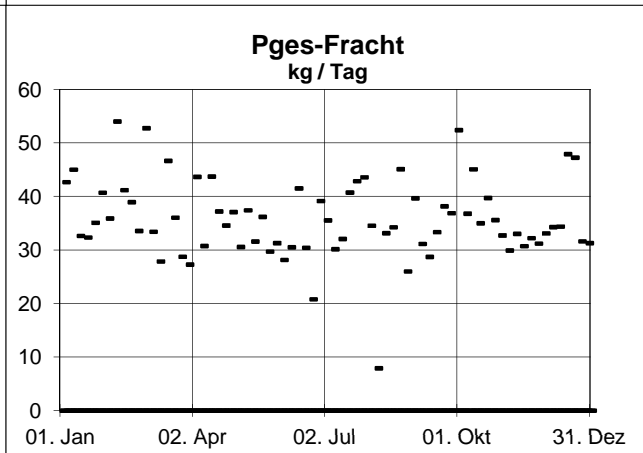
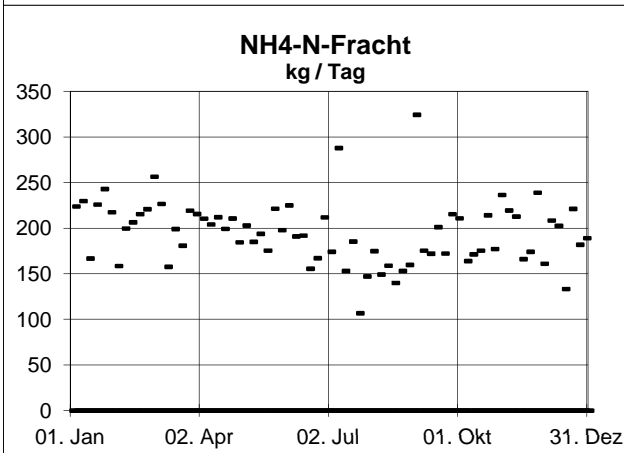
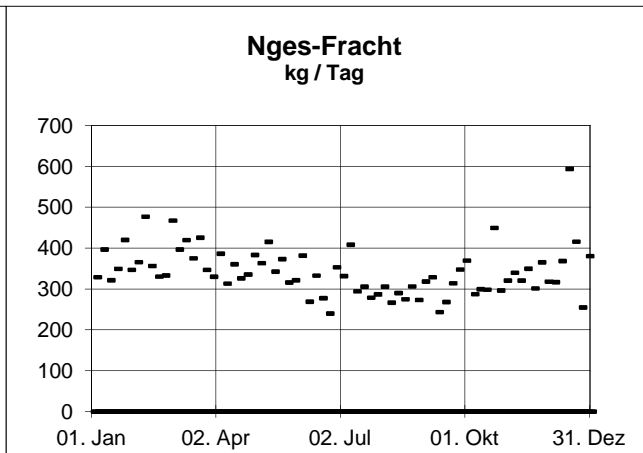
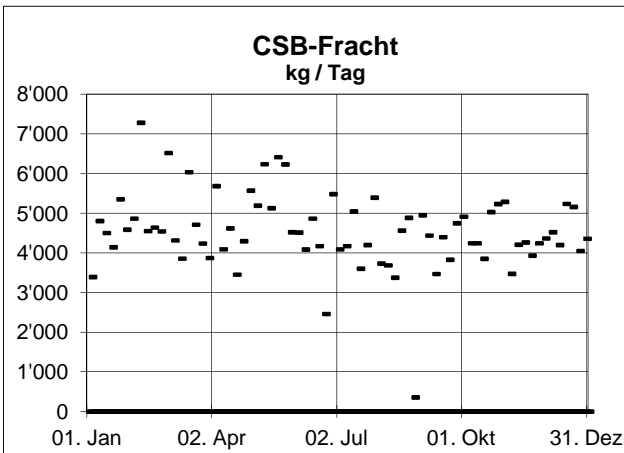
<b>Q tw</b>	9'474 m3 / Tag
<b>Q schmutz (EW) <sup>1)</sup></b>	10'000 m3 / Tag
<b>Q fremd (EW)</b>	-526 m3 / Tag
<b>f (EW)</b>	-6 %

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

**Schätzung aus den Zulaufkonzentrationen:**

<b>f(CSB) Jahresmittel</b>	-6 %
<b>f(NH4-N) Jahresmittel</b>	41 %

<b>f Mittelwert</b>	10 %
<b>f gewählt</b>	10 %

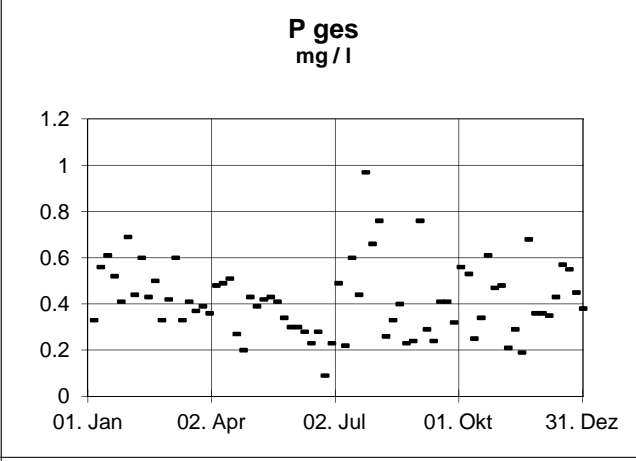
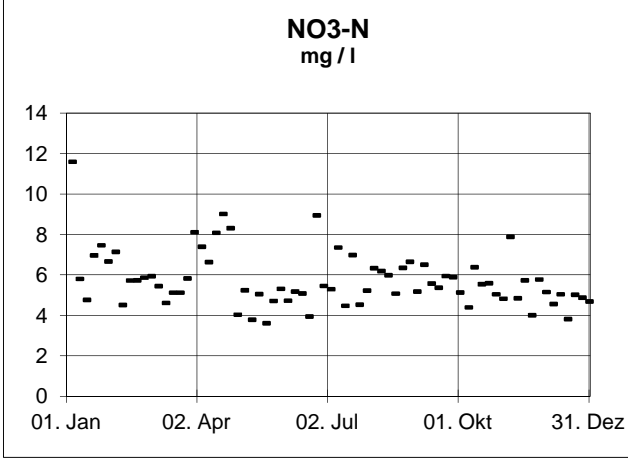
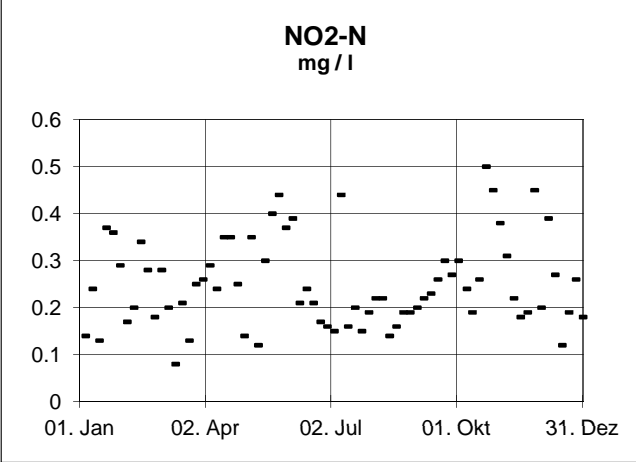
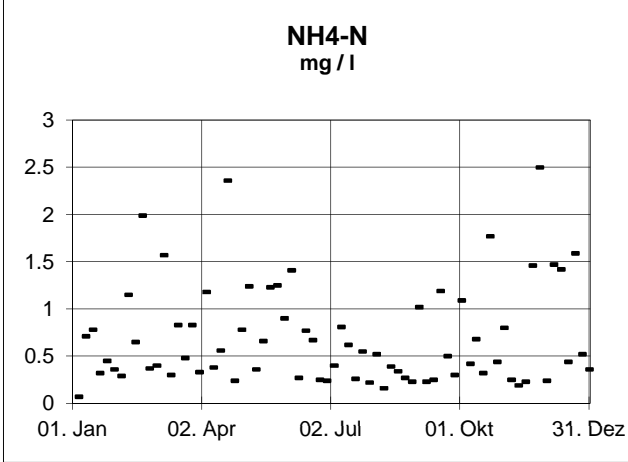
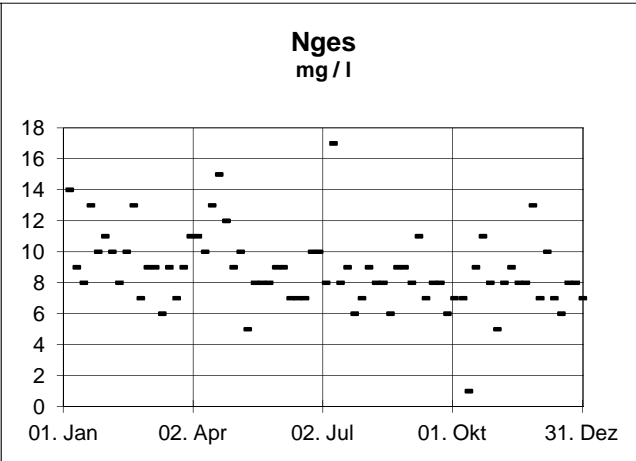
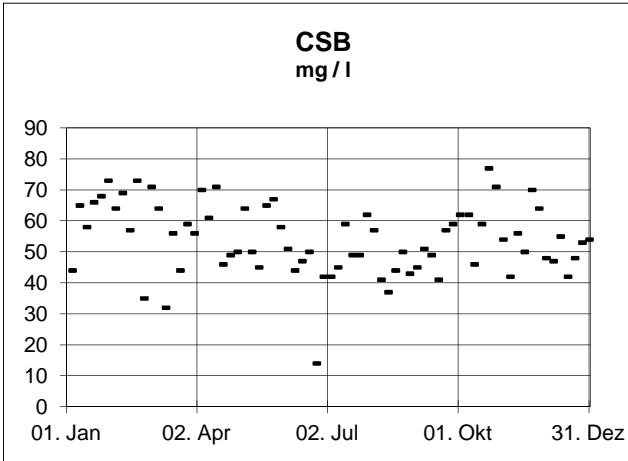


<b>EZ angeschlossen</b>	<b>20'000</b>
<b>EW biochem. gewählt</b>	<b>50'000</b>
<b>EW biochem. 80%-Wert</b>	<b>50'000</b>
<b>EW Stickstoff</b>	<b>26'000</b>
<b>EW Phosphor</b>	<b>22'000</b>

<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>	1'516	4'535	195	36	1'013	2'805
<b>50%-Wert</b>	1'452	4'503	198	35	1'031	
<b>80%-Wert</b>	1'900	5'182	219	41	1'169	

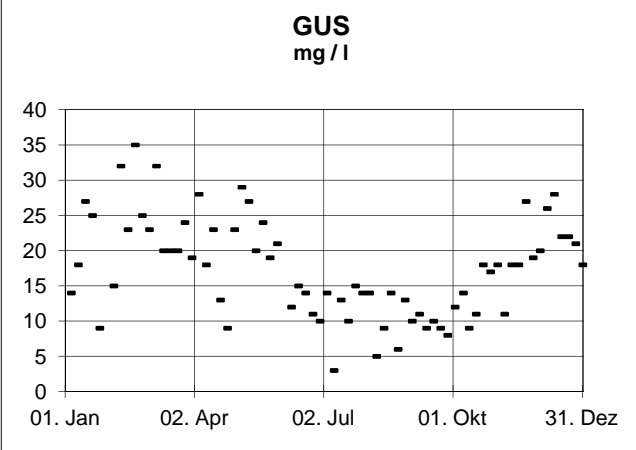
<b>spezifische Belastung pro EW</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>Probenahmeort: ab VKB</b>	<b>l / Tag</b>	<b>g / Tag</b>
	<b>45</b>	<b>90</b>	<b>7.5</b>	<b>1.6</b>		<b>30</b>	<b>85</b>

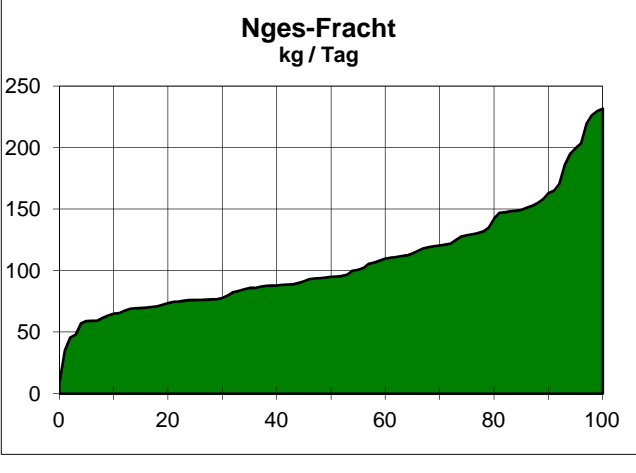
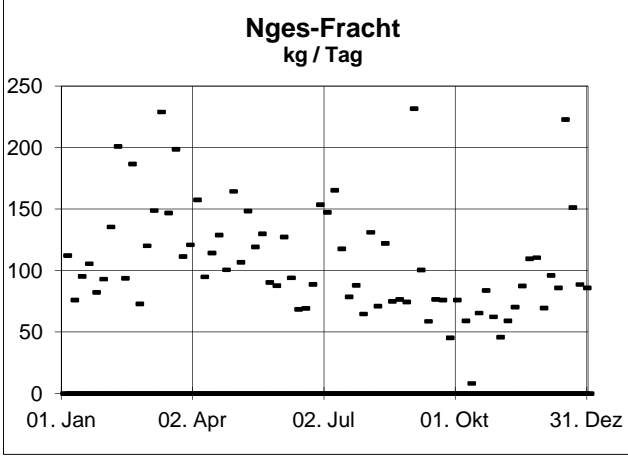
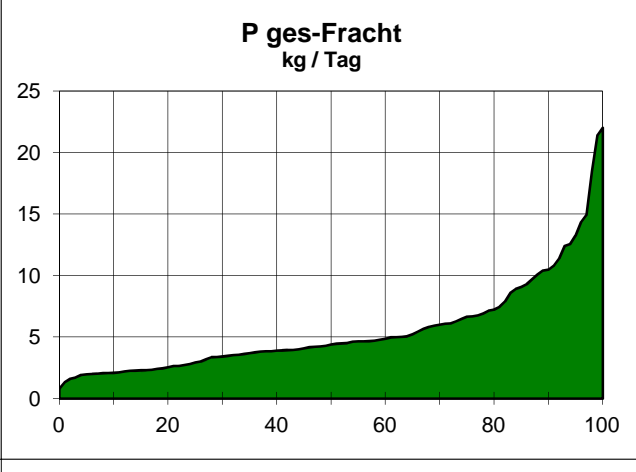
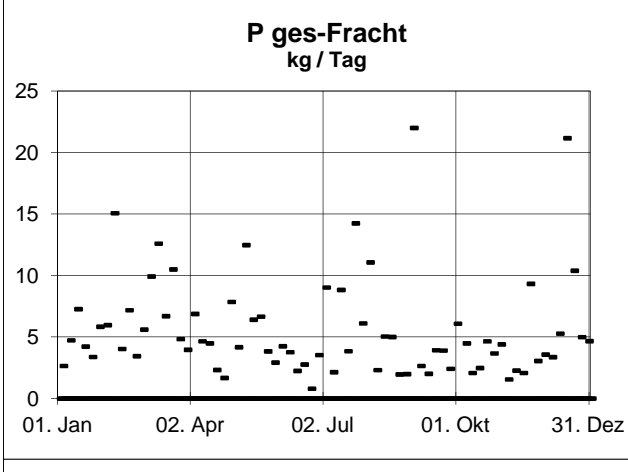
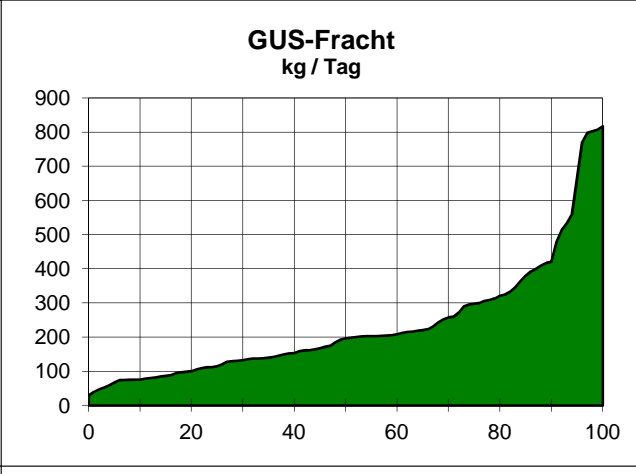
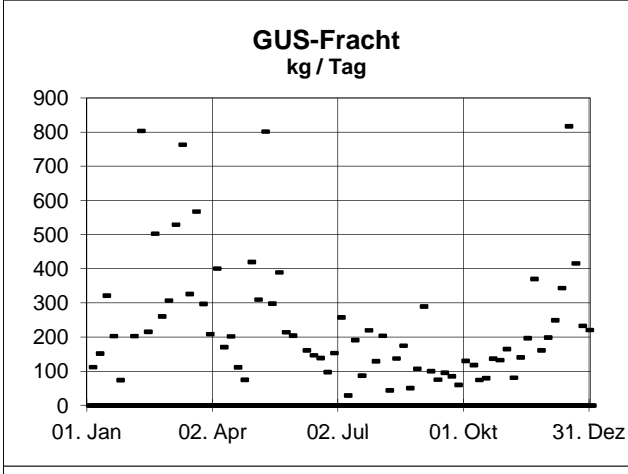
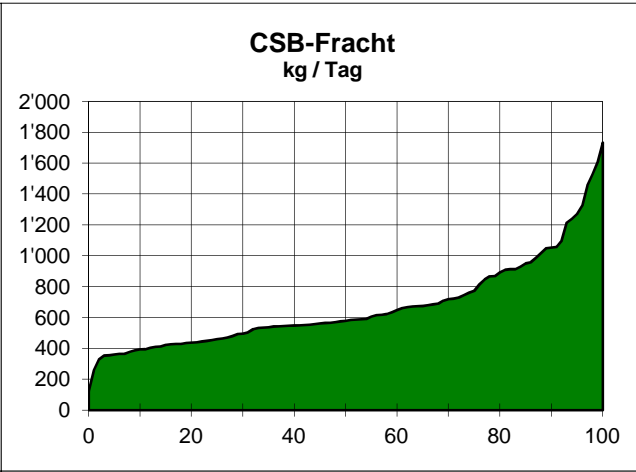
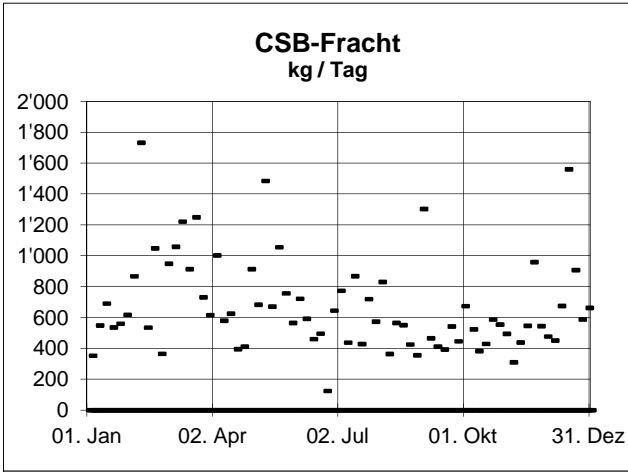
<b>Einwohnerwerte</b>	<b>BSB5 EW</b>	<b>CSB EW</b>	<b>NH4-N EW</b>	<b>Pges EW</b>	<b>Mittelwerte EW</b>	<b>Gasp. EW</b>	<b>FS EW</b>
<b>Mittelwert</b>	33'681	50'390	25'965	22'327	33'091	33'773	33'005
<b>50%-Wert</b>	32'267	50'030	26'395	21'591	32'571	34'367	
<b>80%-Wert</b>	42'223	57'576	29'261	25'868	38'732	38'967	

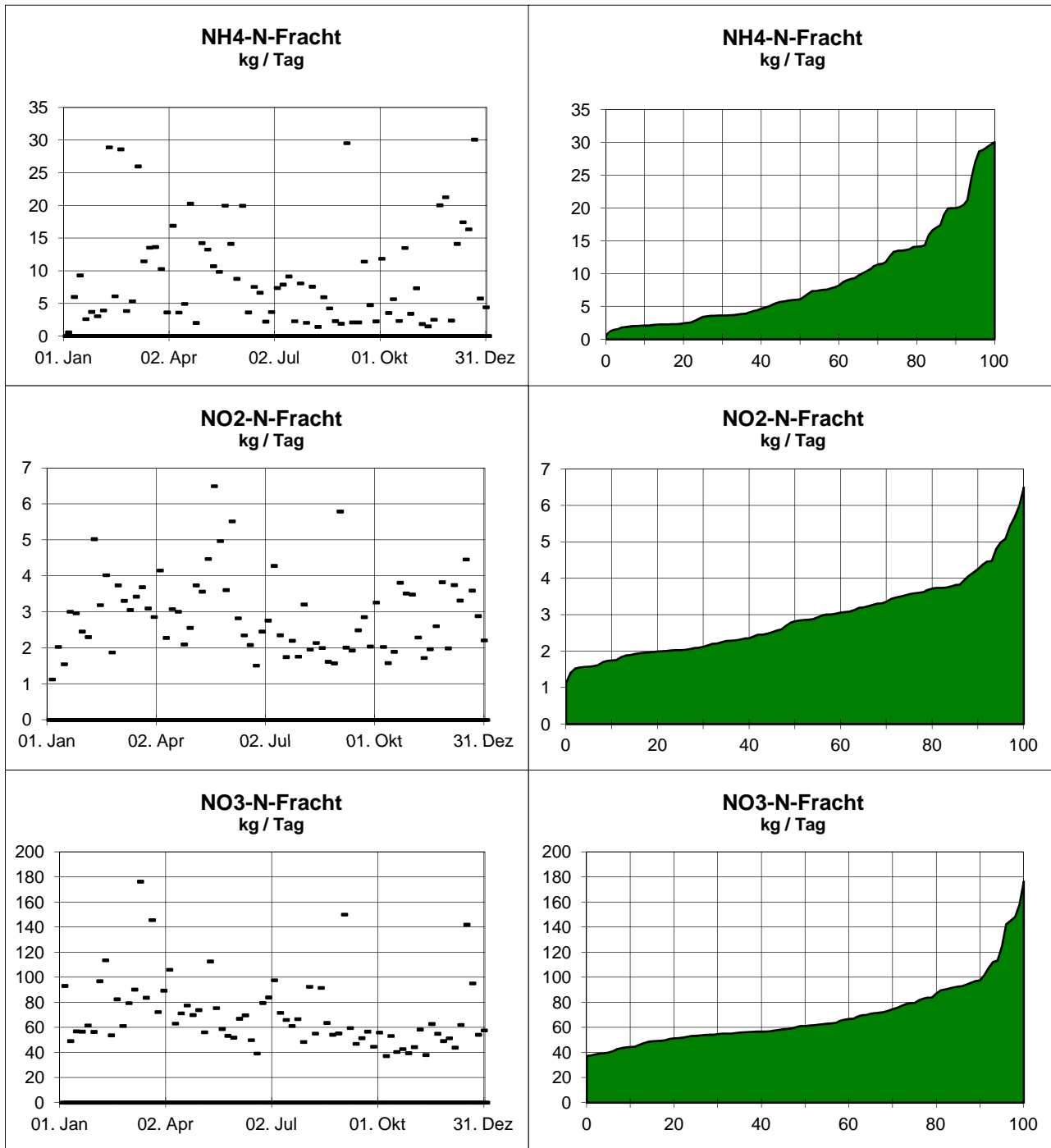


Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert <sup>1)</sup>
<b>BSB5</b>			15
<b>CSB</b>	53.9	69.8	
<b>GUS</b>	17.4	27.0	15
<b>NH4-N</b>	0.7	1.5	2
<b>NO2-N<sup>2)</sup></b>	0.3	0.4	0.3
<b>NO3-N</b>	5.8	7.5	
<b>P ges</b>	0.42	0.61	0.8

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







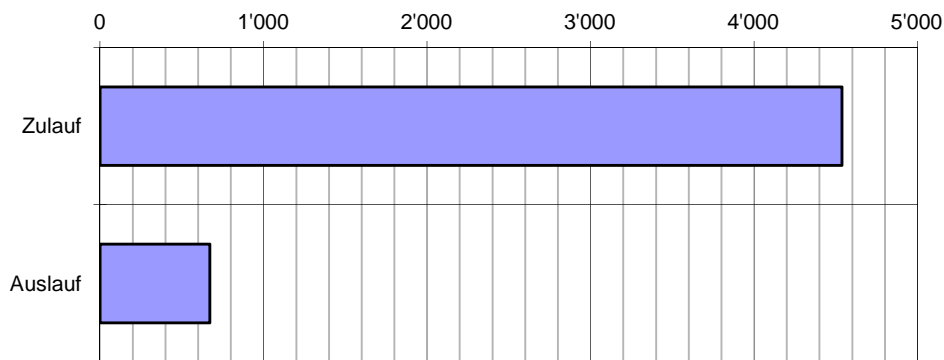
**Auslauffrachten:**

Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
<b>CSB</b>	671	579	892	644
<b>GUS</b>	236	197	322	215
<b>N ges</b>				
<b>NH4-N</b>	9.0	6.1	14.1	8.3
<b>NO2-N</b>	2.9	2.8	3.7	2.8
<b>NO3-N</b>	69.7	61.2	87.1	66.7
<b>P ges</b>	5.6	4.4	7.2	5.1

**Abbauleistungen:**

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
<b>CSB</b>	4'535	671	85%	80%
<b>N ges</b>	269.8	107.1	60%	30%
<b>NH4-N</b>	130.6	9.0	93%	90%
<b>Pges</b>	35.7	5.6	84%	80%

**CSB-Frachten in kg / Tag**



**CSB-Abbau**

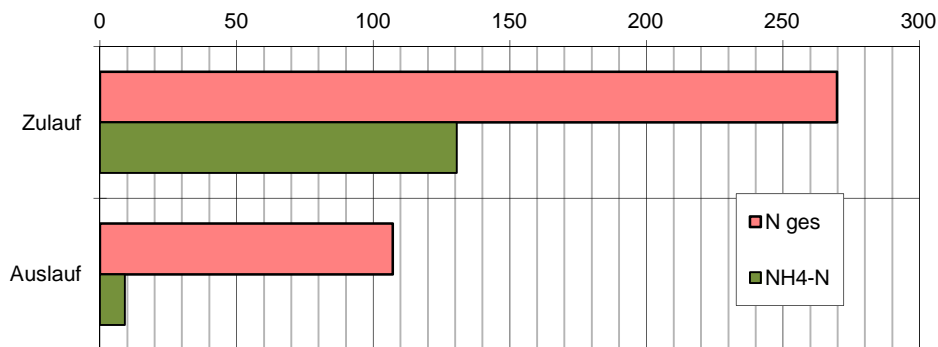
3'864 kg / Tag

85%

80%

Richtwert

**Stickstoff-Frachten in kg / Tag**



**N-Elimination**

163 kg / Tag

60%

30%

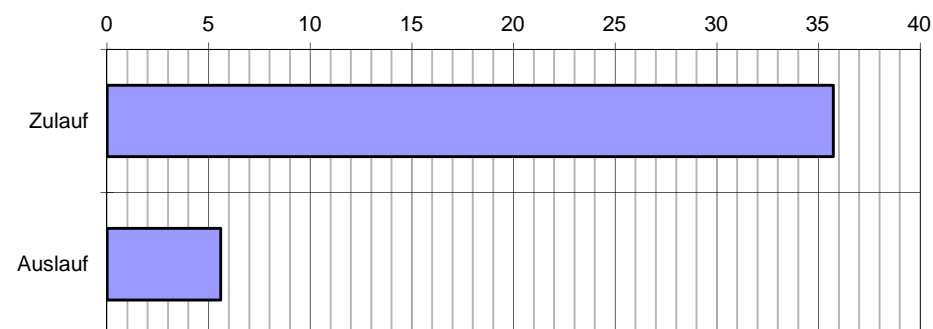
**Nitrifikation**

122 kg / Tag

93%

90%

**Phosphor-Frachten in kg / Tag**

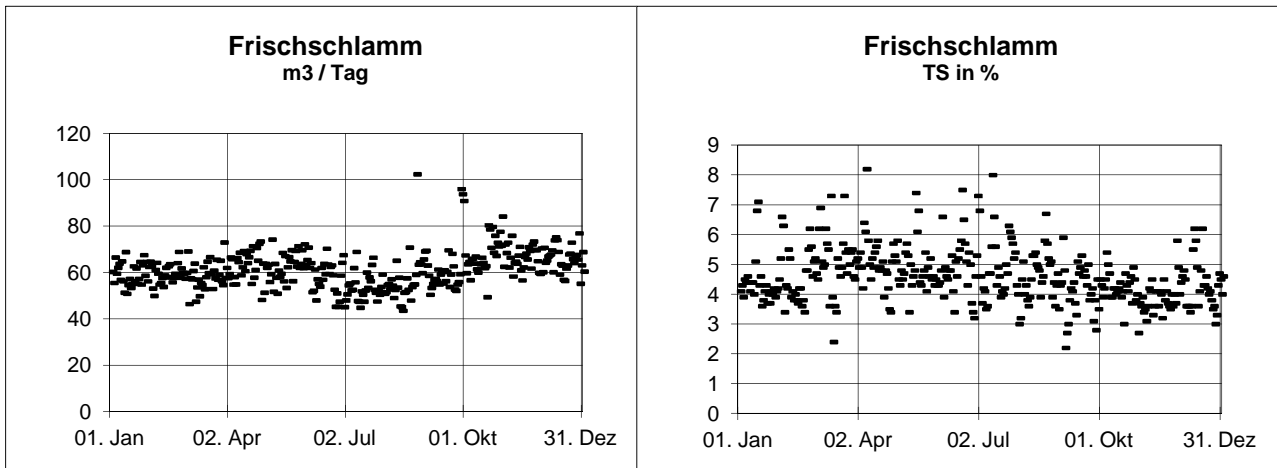


**P-Elimination**

30 kg / Tag

84%

80%

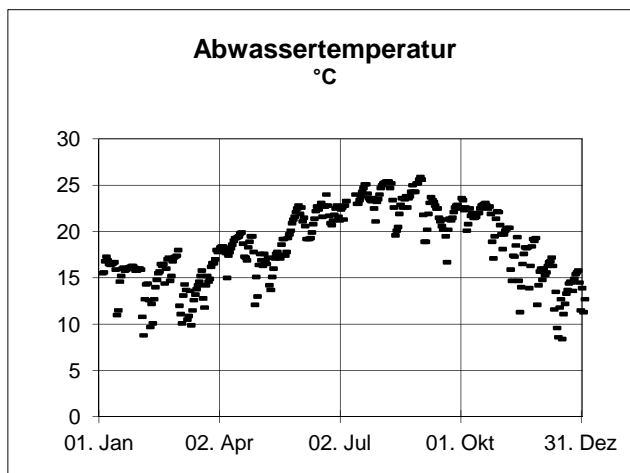


**Frischschlammfall: Mittelwerte**

<b>Frischschl. nass</b>	61.2	m <sup>3</sup> /Tag
<b>TS-Anteil</b>	4.6	%
<b>Frischschl. in TS</b>	2'805	kg/Tag

**Jahresanfall**

<b>Frischschl. in TS</b>	1'024	t/ Jahr
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**Abwassertemperatur:**

<b>Mittelwert</b>	18.6 °C
<b>20%-Wert</b>	15.1 °C
<b>50%-Wert</b>	18.4 °C
<b>80%-Wert</b>	22.6 °C

**Bemerkungen zur Datenauswertung:**