

Chrzanowski, Thomas H., and James P. Grover. 2001. Effects of mineral nutrients on the growth of bacterio- and phytoplankton in two southern reservoirs. *Limnol. Oceanogr.* 46: 1319-1330.

### Web Appendix 1.

Table 1. Summary of the effect of nutrient additions on the growth of bacterioplankton from Joe Pool Lake. Treatments producing growth rates significantly higher than controls (F-test for 2<sup>3</sup> factorial, P<0.05): L signifies < 100% increase over control rate; M signifies 100-500% increase over control rate; S signifies > 500% increase over control rate; -- signifies a statistically significant result but growth rate was depressed compared to controls.

| DATE          | N  | P  | C  | NP | NC | PC | NPC |
|---------------|----|----|----|----|----|----|-----|
| 12 Mar 98     |    |    | L  |    |    | -- |     |
| 07 Apr 98     | L  | L  | -- |    |    | L  | L   |
| 05 May 98     | L  |    | L  |    |    | L  |     |
| 26 May 98     |    |    | -- |    |    | -- |     |
| 09 Jun 98     |    | L  | S  | M  | S  | S  | S   |
| 23 Jun 98     |    | -- | L  | L  |    |    |     |
| 10 Jul 98     |    | L  | L  |    |    | M  |     |
| 20 Jul 98     |    | -- | -- | -- | -- | L  | L   |
| 04 Aug 98     | L  | L  | L  |    |    |    |     |
| 18 Aug 98     | L  | L  | L  | M  | L  | L  | M   |
| 08 Sep 98     | -- | -- | -- | -- | -- | -- | M   |
| 22 Sep 98     | M  | M  |    | M  | L  | L  | M   |
| 06 Oct 98     |    | L  | -- |    | L  | M  |     |
| 20 Oct 98     | -- | -- |    | -- |    | -- | --  |
| 02 Nov 98     | -- | -- |    | -- |    | -- | --  |
| 17 Nov 98     | -- |    |    | -- | L  |    |     |
| 15 Dec 98     |    |    | L  |    |    |    |     |
| 25 Jan 00     | S  | S  | S  | S  |    |    | S   |
| 24 Feb 99     |    | S  | S  |    | S  | S  | S   |
| 29 Mar 99     |    |    | M  |    | -- | -- | --  |
| 13 Apr 99     |    | -- |    | L  | -- |    |     |
| 27 Apr 99     | L  | L  |    | L  |    |    | L   |
| 10 May 99     | M  | M  |    | M  |    |    | M   |
| 24 May 99     |    | L  | M  | L  |    | M  |     |
| 07 Jun 99     | L  | L  | M  | L  | L  | M  | S   |
| 22 Jun 99     | L  | L  | L  | L  | -- | M  | M   |
| 07 Jul 99     | -- | L  | -- | M  |    | M  | M   |
| 19 Jul 99     | M  | M  |    |    | -- | M  | S   |
| 03 Aug 99     | -- | L  | -- | L  | -- | L  | M   |
| 16 Aug 99     | L  | L  | -- | L  | -- | L  | M   |
| 30 Aug 99     | L  | M  | -- | -- | -- | L  | M   |
| 13 Sep 99     |    | -- |    |    | -- | L  |     |
| 04 Oct 99     |    | L  |    |    |    |    |     |
| 18 Oct 99     |    | L  |    |    |    | L  |     |
| 15 Nov 99     |    |    | L  |    |    |    |     |
| 13 Dec 99     | S  |    |    |    |    |    | S   |
| # positive    | 14 | 21 | 15 | 14 | 7  | 19 | 18  |
| # L responses | 9  | 15 | 9  | 8  | 5  | 10 | 3   |
| # M responses | 3  | 4  | 3  | 5  | 0  | 7  | 9   |
| # S responses | 2  | 2  | 3  | 1  | 2  | 2  | 5   |

Web Appendix 1. (cont.)

Table 2. Summary of the effect of nutrient additions on the growth of phytoplankton from Joe Pool Lake. Treatments producing growth rates significantly higher than controls (F-test for 2<sup>3</sup> factorial, P< 0.05): L signifies < 100% increase over control rate; M signifies 100-500% increase over control rate; S signifies > 500% increase over control rate; -- signifies a statistically significant result but growth rate was depressed compared to controls.

| DATE          | N  | P  | Tm | NP | NTm | PTm | NPTm |
|---------------|----|----|----|----|-----|-----|------|
| 12 Mar 98     | L  |    |    | L  |     |     |      |
| 07 Apr 98     |    | M  | -- | -- | L   | S   | S    |
| 05 May 98     | L  |    |    | L  |     | --  |      |
| 26 May 98     | M  |    |    | L  | M   | M   | S    |
| 09 Jun 98     |    |    |    | L  |     |     |      |
| 23 Jun 98     | S  | S  | S  | S  |     |     | S    |
| 10 Jul 98     |    | S  |    |    |     |     |      |
| 20 Jul 98     | -- | L  | -- | M  |     | M   | M    |
| 04 Aug 98     | -- | L  | L  | S  |     |     |      |
| 18 Aug 98     | S  | -- | S  | S  | S   | S   | S    |
| 08 Sep 98     | -- | -- | -- | M  |     | L   |      |
| 22 Sep 98     | S  | -- | L  | S  | S   | --  | S    |
| 06 Oct 98     | -- | -- |    | L  |     |     |      |
| 20 Oct 98     |    | -- |    | L  | --  |     |      |
| 02 Nov 98     |    | L  | L  |    |     | L   |      |
| 17 Nov 98     |    | L  | L  |    |     |     |      |
| 15 Dec 98     | L  | L  | -- |    |     |     | --   |
| 25 Jan 00     | L  | L  |    |    |     |     |      |
| 24 Feb 99     | L  | L  | L  |    |     |     |      |
| 29 Mar 99     |    | M  | -- |    |     | M   |      |
| 13 Apr 99     | S  | S  | S  |    |     | S   |      |
| 27 Apr 99     | L  | L  | -- | L  |     | M   |      |
| 10 May 99     |    | S  | S  | S  |     |     |      |
| 24 May 99     | -- | -- | -- | S  |     | S   | S    |
| 07 Jun 99     |    | L  | -- |    |     | M   |      |
| 22 Jun 99     | S  | S  | S  | S  |     | S   | S    |
| 07 Jul 99     | -- | S  | -- | S  | S   | --  | S    |
| 19 Jul 99     | S  | -- | S  | S  |     |     |      |
| 03 Aug 99     | S  | -- | S  | S  | S   | S   | S    |
| 16 Aug 99     | S  | -- | S  | S  | S   | --  | S    |
| 30 Aug 99     | -- | -- | L  | S  | L   | --  |      |
| 13 Sep 99     | M  | -- | -- | S  | M   | --  | S    |
| 04 Oct 99     | L  | -- | L  | M  | L   |     | M    |
| 18 Oct 99     |    | L  | -- | L  | L   | L   |      |
| 15 Nov 99     | -- | -- | -- | M  | L   | L   | M    |
| 13 Dec 99     | L  | L  | -- |    | L   | L   |      |
| # positive    | 18 | 19 | 18 | 23 | 13  | 15  | 14   |
| # L responses | 8  | 11 | 10 | 5  | 6   | 5   | 0    |
| # M responses | 2  | 2  | 0  | 5  | 2   | 4   | 3    |
| # S responses | 8  | 6  | 8  | 13 | 5   | 3   | 11   |

Web Appendix 1. (cont.)

Table 3. Summary of the effect of nutrient additions on the growth of bacterioplankton from Eagle Mountain Lake. Treatments producing growth rates significantly higher than controls ( $P < 0.05$ ): L signifies < 100% increase over control rate; M signifies 100-500% increase over control rate; S signifies > 500% increase over control rate; -- signifies a statistically significant result but growth rate was depressed compared to controls.

| DATE          | N  | P  | C  | NP | NC | PC | NPC |
|---------------|----|----|----|----|----|----|-----|
| 24 Mar 98     |    |    | L  |    |    | -- |     |
| 21 Apr 98     | L  |    | L  |    |    |    |     |
| 12 May 98     | -- | L  |    |    | L  |    | L   |
| 02 Jun 98     |    |    | L  | -- | -- | -- |     |
| 16 Jun 98     | -- |    |    | L  | L  |    |     |
| 30 Jun 98     | L  |    |    | M  | -- |    | S   |
| 14 Jun 98     | L  | L  | L  | L  | -- |    | M   |
| 28 Jul 98     | -- | L  | -- | L  | -- | L  | L   |
| 11 Aug 98     | -- | L  | -- | M  | L  | L  | L   |
| 04 Sep 98     | L  | L  | -- |    | L  | -- | L   |
| 18 Sep 98     | L  | -- | L  |    |    | -- | L   |
| 29 Sep 98     | -- | L  |    | L  |    |    | L   |
| 13 Oct 98     | L  | -- | L  |    |    | L  |     |
| 27 Oct 98     | L  | M  | -- | L  | -- | -- | M   |
| 12 Nov 98     | S  | M  |    |    | L  | L  | --  |
| 08 Dec 98     | -- | -- |    |    | M  | L  | M   |
| 05 Jan 99     | L  | L  |    |    | -- |    |     |
| 08 Feb 99     |    |    |    |    |    |    |     |
| 01 Mar 99     | -- |    | L  | -- |    |    |     |
| 06 Apr 99     | M  | -- | L  |    | -- |    |     |
| 19 Apr 99     |    |    |    | -- |    | -- | L   |
| 03 May 99     | S  | L  | -- | -- | M  |    | L   |
| 19 May 99     | L  | L  | -- |    | L  |    |     |
| 01 Jun 99     | L  | L  | L  | -- | L  | L  | L   |
| 14 Jun 99     | L  | L  | -- | L  | L  | L  | L   |
| 28 Jun 99     | L  | L  | L  |    | L  | L  |     |
| 12 Jul 99     | -- | L  | L  | L  | L  |    | L   |
| 26 Jul 99     | L  | L  | -- | -- | L  | L  | L   |
| 09 Aug 99     | -- | -- | -- | -- | -- | -- | --  |
| 23 Aug 99     | L  | L  | -- |    | -- |    | L   |
| 08 Sep 99     | L  | -- | -- |    | L  |    | L   |
| 20 Sep 99     | M  | -- | L  |    | -- |    |     |
| 11 Oct 99     |    | L  |    | L  |    | S  | M   |
| 01 Nov 99     | L  | -- | L  | -- | L  |    | M   |
| 29 Nov 99     | M  | -- | -- | -- | L  | -- | L   |
| # positive    | 21 | 16 | 13 | 10 | 16 | 10 | 21  |
| # L responses | 16 | 14 | 13 | 8  | 14 | 9  | 15  |
| # M responses | 3  | 2  | 0  | 2  | 2  | 0  | 5   |
| # S responses | 2  | 0  | 0  | 0  | 0  | 1  | 1   |

Web Appendix 1. (cont.)

Table 4. Summary of the effect of nutrient additions on the growth of phytoplankton from Eagle Mountain Lake. Treatments producing growth rates significantly higher than controls ( $P < 0.05$ ): L signifies < 100% increase over control rate; M signifies 100-500% increase over control rate; S signifies > 500% increase over control rate; -- signifies a statistically significant result but growth rate was depressed compared to controls.

| DATE          | N  | P  | Tm | NP | NTm | PTm | NPTm |
|---------------|----|----|----|----|-----|-----|------|
| 24 Mar 98     |    |    | L  |    |     |     |      |
| 21 Apr 98     | L  | -- | L  | L  | --  | --  |      |
| 12 May 98     | S  | -- | S  | S  | --  | --  | S    |
| 02 Jun 98     | S  | S  |    | S  | --  |     |      |
| 16 Jun 98     | S  | -- | M  | M  | --  |     |      |
| 30 Jun 98     | S  | -- | M  | M  | --  |     |      |
| 14 Jun 98     |    | S  |    |    |     |     |      |
| 28 Jul 98     | -- | S  |    | S  | --  | S   |      |
| 11 Aug 98     | S  | -- | -- | S  |     | L   |      |
| 04 Sep 98     | L  | -- | M  | M  | --  | --  |      |
| 18 Sep 98     | -- |    | L  |    | L   | --  |      |
| 29 Sep 98     | S  | S  | -- | S  |     | S   |      |
| 13 Oct 98     | L  | -- | L  |    | --  |     | L    |
| 27 Oct 98     | -- | -- | -- | -- | --  | --  | --   |
| 12 Nov 98     | L  |    | L  |    |     |     |      |
| 08 Dec 98     | L  |    | L  |    |     |     |      |
| 05 Jan 99     |    |    |    |    |     |     |      |
| 08 Feb 99     | -- | L  | -- | L  |     | L   |      |
| 01 Mar 99     | L  | -- | L  | L  | --  | --  | M    |
| 06 Apr 99     | L  | L  | -- | M  | --  | L   |      |
| 19 Apr 99     | L  |    |    | M  | --  |     |      |
| 03 May 99     | -- | -- | S  | S  |     |     |      |
| 19 May 99     | S  | -- | S  | S  | --  | --  | S    |
| 01 Jun 99     | S  | -- | S  | S  | --  | L   |      |
| 14 Jun 99     | M  | L  | -- | S  |     | S   |      |
| 28 Jun 99     | M  | -- | -- | S  | --  | M   | L    |
| 12 Jul 99     | S  | -- | -- | S  |     | L   | M    |
| 26 Jul 99     | S  | -- | -- | S  |     | L   |      |
| 09 Aug 99     | S  | -- | -- | S  |     | --  |      |
| 23 Aug 99     | M  | -- | -- | S  | --  | --  |      |
| 08 Sep 99     | S  |    | -- |    | L   |     |      |
| 20 Sep 99     | L  | -- | L  |    |     |     |      |
| 11 Oct 99     | L  | -- | M  | L  | --  |     | S    |
| 01 Nov 99     | L  |    | L  | L  | L   |     |      |
| 29 Nov 99     | L  |    | L  |    |     |     |      |
| # positive    | 27 | 7  | 18 | 24 | 3   | 10  | 7    |
| # L responses | 12 | 3  | 10 | 5  | 3   | 6   | 2    |
| # M responses | 3  | 0  | 4  | 5  | 0   | 1   | 2    |
| # S responses | 11 | 4  | 4  | 14 | 0   | 3   | 3    |