

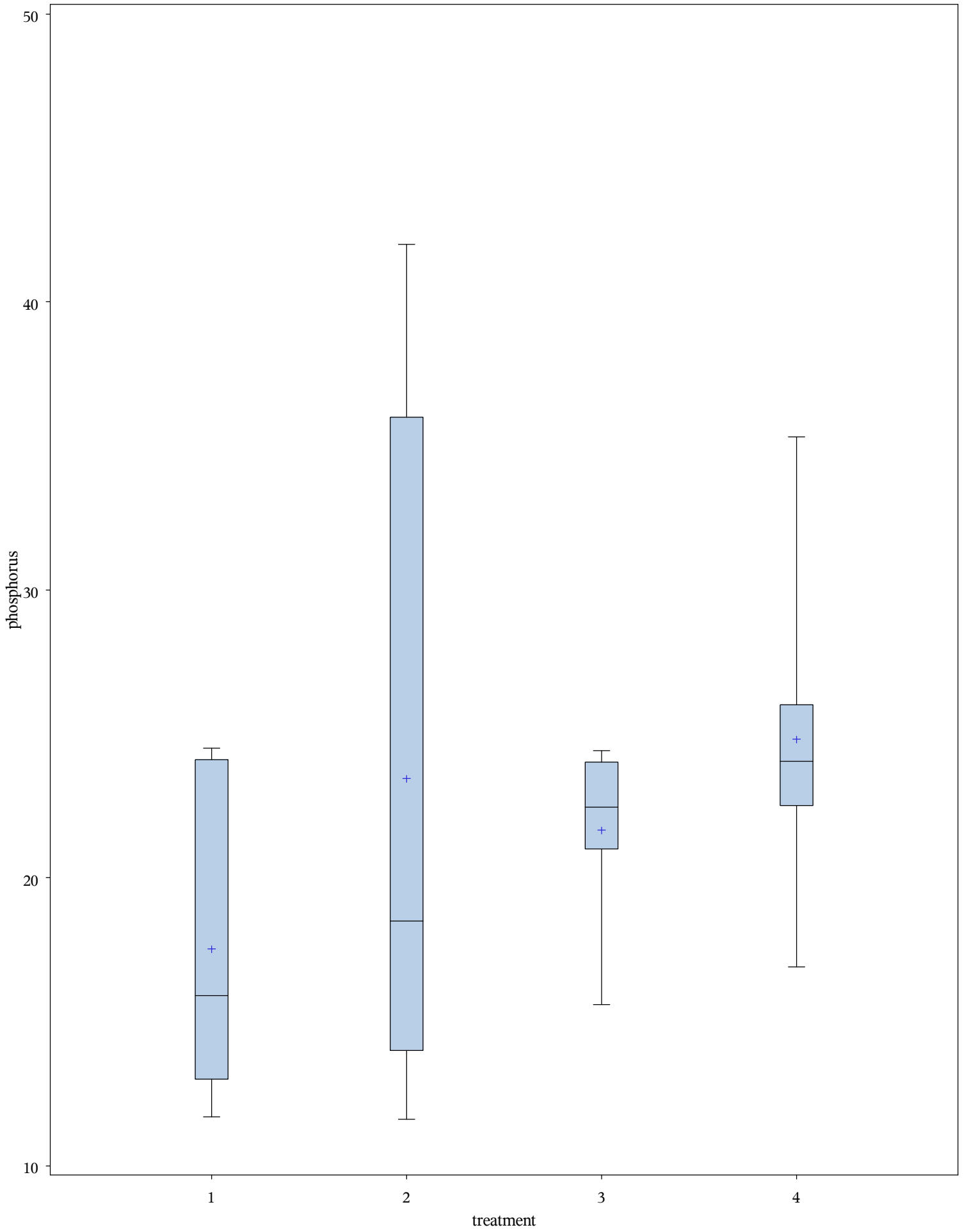
| Obs | treatment | phosphorus |
|-----|-----------|------------|
| 1 | 1 | 13.0 |
| 2 | 1 | 24.1 |
| 3 | 1 | 11.7 |
| 4 | 1 | 16.3 |
| 5 | 1 | 15.5 |
| 6 | 1 | 24.5 |
| 7 | 2 | 42.0 |
| 8 | 2 | 18.0 |
| 9 | 2 | 14.0 |
| 10 | 2 | 36.0 |
| 11 | 2 | 11.6 |
| 12 | 2 | 19.0 |
| 13 | 3 | 15.6 |
| 14 | 3 | 23.8 |
| 15 | 3 | 24.4 |
| 16 | 3 | 24.0 |
| 17 | 3 | 21.0 |
| 18 | 3 | 21.1 |
| 19 | 4 | 35.3 |
| 20 | 4 | 22.5 |
| 21 | 4 | 16.9 |
| 22 | 4 | 25.0 |
| 23 | 4 | 23.1 |
| 24 | 4 | 26.0 |

The NPARIWAY Procedure

| Wilcoxon Scores (Rank Sums) for Variable phosphorus Classified by Variable treatment | | | | | |
|---|---|---------------|-------------------|------------------|------------|
| treatment | N | Sum of Scores | Expected Under H0 | Std Dev Under H0 | Mean Score |
| 1 | 6 | 53.0 | 75.0 | 15.0 | 8.833333 |
| 2 | 6 | 71.0 | 75.0 | 15.0 | 11.833333 |
| 3 | 6 | 78.0 | 75.0 | 15.0 | 13.000000 |
| 4 | 6 | 98.0 | 75.0 | 15.0 | 16.333333 |

| Kruskal-Wallis Test | |
|---------------------|--------|
| Chi-Square | 3.4600 |
| DF | 3 |
| Pr > Chi-Square | 0.3260 |

| Monte Carlo Estimate for the Exact Test | |
|---|-----------|
| Pr >= Chi-Square | |
| Estimate | 0.3325 |
| 99% Lower Conf Limit | 0.3054 |
| 99% Upper Conf Limit | 0.3596 |
| | |
| Number of Samples | 2000 |
| Initial Seed | 376984001 |



The FREQ Procedure

Statistics for Table of treatment by phosphorus

| Jonckheere-Terpstra Test | |
|---------------------------------|----------|
| Statistic (JT) | 145.0000 |
| Z | 1.9031 |
| One-sided Pr > Z | 0.0285 |
| Two-sided Pr > Z | 0.0570 |

| Monte Carlo Estimates for the Exact Test | |
|---|-----------|
| One-sided Pr >= JT | |
| Estimate | 0.0292 |
| 99% Lower Conf Limit | 0.0261 |
| 99% Upper Conf Limit | 0.0323 |
| | |
| Two-sided Pr >= JT | |
| Estimate | 0.0585 |
| 99% Lower Conf Limit | 0.0542 |
| 99% Upper Conf Limit | 0.0628 |
| | |
| Number of Samples | 20000 |
| Initial Seed | 378984001 |

Sample Size = 24