APPENDIX A

<u>Allakaket</u>[1]: One more ballot cast than voter signatures in register

      40 ballots cast: 23 ADL ballots; 17 Republican ballots
      Chance that extra ballot was an ADL ballot = 57.5%

So proportionate reduction calls for subtraction of 0.575 of a vote from the candidates according to overall precinct vote split.

      Westlake got 14 votes   (or 61% of 23)
      Nageak got 9 votes   (or 39% of 23)

Proportionate reduction of 0.575 vote from each candidate:

      Westlake loses 0.35 votes   (or 0.575 x 0.61)
      Nageak loses 0.22 votes   (or 0.575 x 0.39)

<u>Point Hope</u>[2]: Eight more ballots cast than voter signatures in register

      40 ballots cast: 21 ADL ballots; 19 Republican ballots
      Chance that each extra ballot was an ADL ballot = 52.5%

So proportionate reduction calls for subtraction of 4.2 votes (8 x 0.525) from the candidates according to overall precinct vote split:

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[1]   *See* R. 1088, 1089, 1091.

[2]   *See id.* Although 40 ballots were cast in Point Hope, the highest number of votes cast in a Republican race was 19; and in a combined party primary it was 20. [R. 1088, 1089, 1091] This means that at least two voters did not vote in every race on the ballot. This analysis assumes that these partial votes occurred on the combined party ballot; and those partial votes explain why a pro rata deduction of 4.2 votes results in deductions from the two candidates of a total of only 4 votes—the other 0.2 vote represents the proportion of votes that were partial votes.

Westlake got 6 votes   (or 28.6% of 21)
Nageak got 14 votes   (or 66.7% of 21)

Proportionate reduction of 4.2 votes from each candidate:

Westlake loses 1.2 votes   (or 4.2 x 0.286)
Nageak loses 2.8 votes   (or 4.2 x 0.66.7)

Buckland[3]: One more ballot cast than voter signatures in register

69 ballots cast: 54 ADL ballots; 15 Republican ballots
Chance that extra ballot was an ADL ballot = 78%

So proportionate reduction calls for subtraction of 0.78 of a vote from the candidates according to overall precinct vote split.

Westlake got 43 votes   (or 79.6% of 54)
Nageak got 11 votes   (or 20.4% of 54)

Proportionate reduction of 0.78 vote from each candidate:

Westlake loses 0.62 votes (or 0.78 x 0.796)
Nageak loses 0.16 votes   (or 0.78 x 0.204)

Total reductions adding these three precincts together:

Westlake loses 2.17 votes   (or 0.35 + 1.2 + 0.62)
Nageak loses 3.18 votes   (or 0.22 + 2.8 + 0.16)

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[3]   *See* R. 1088, 1089, 1091.