6. This problem is related to problem 5. Display 1.41 shows boxplots of that population of geese gaggles from earlier years.

   (a) In which of those years did the largest median gaggle size occur?

   (b) In which of those years was the largest gaggle born?

   (c) In which of those years were there gaggles that had no goslings?

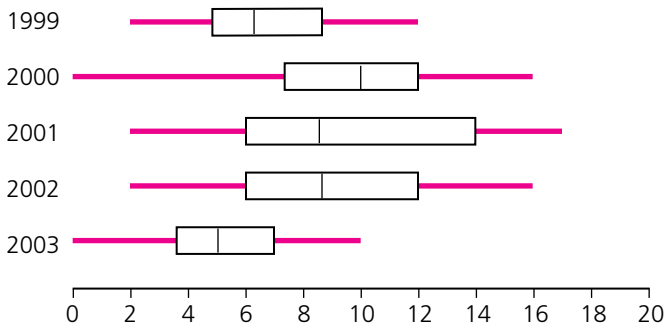
   (d) In which of those years did the gaggles show the widest variation in size?

   (e) Write a short paragraph comparing your boxplot from problem 5 with the ones in Display 1.41. Answer these questions in your paragraph.

      (i) Which of the five earlier years has data most like your data? Which one appears to be most different? Justify your choices in terms of the ranges, the medians, and the interquartile ranges.

      (ii) Point out at least two clear differences between your set of data and that of the year you chose to be *most like* yours. Do these differences provide any clue about specific numbers of goslings in that year?

      (iii) Comment on anything else that you think is interesting or noteworthy about this comparison.



Display 1.41

7. Scientists are concerned about the layer of ozone that exists high in the atmosphere. This layer of ozone (oxygen atoms bound together in threes) filters out harmful ultraviolet light from the sun. Display 1.42 shows five-number summaries of the measurements of ozone taken during eight different years at these five stations in Antarctica: Halley Bay, Nimbus 4, Nimbus 7, Syowa, and Amundsen-Scott. Ozone is measured in units called Dobsons.