

Appendix A

10-year Projections

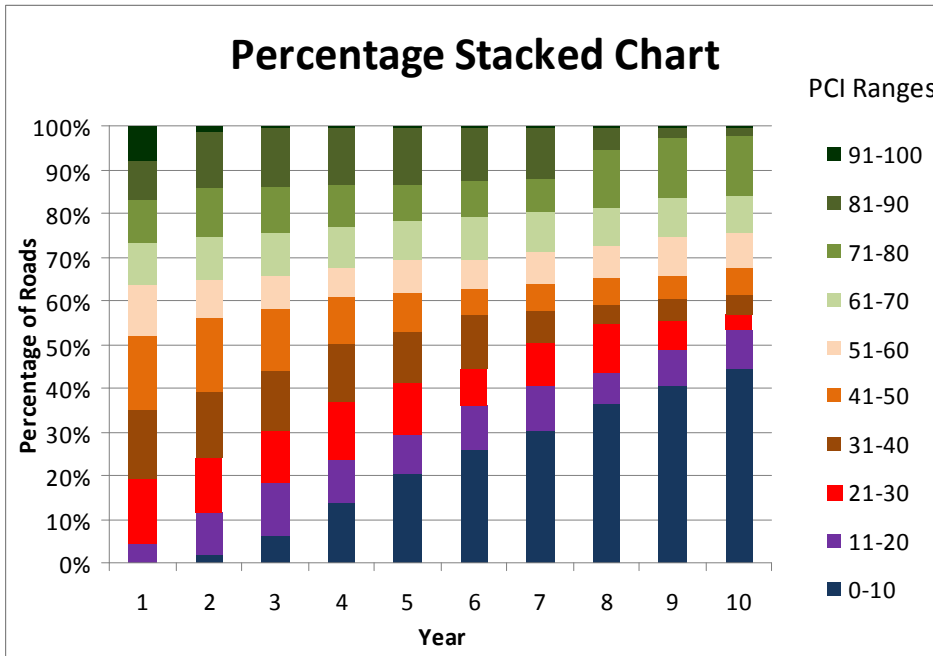
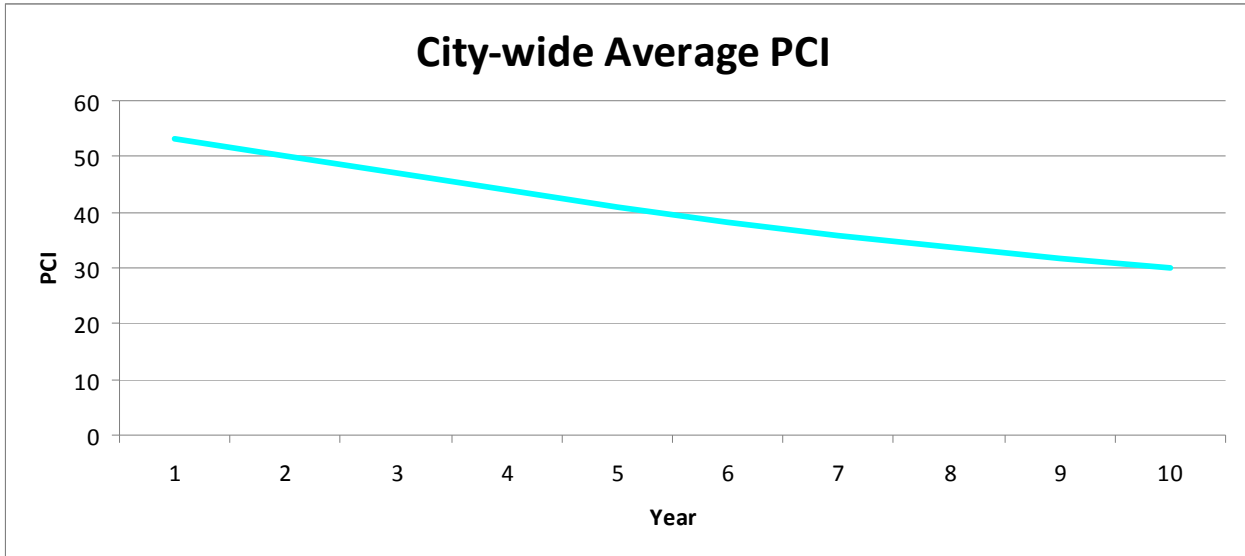
All required road repairs identified in the eRoad system amount to a total construction value of \$78 million. This includes the total quantity of each treatment from crack seal and slurry to full reconstruction.

A hypothetical \$78 million annual budget will allow each of the recommended treatments throughout the City to be completed in one year and bring the city-wide average PCI to 100. However, a realistic annual budget will address road treatments over time and the average PCI can be updated each year.

The following pages illustrate how four different annual budgets for road treatments affect the average PCI over a 10-year time period. Each annual budget includes a PCI curve over a 10-year time frame. A stacked percentage chart is also provided showing the percentage of roads that fall within specified PCI ranges, also over a 10-year period.

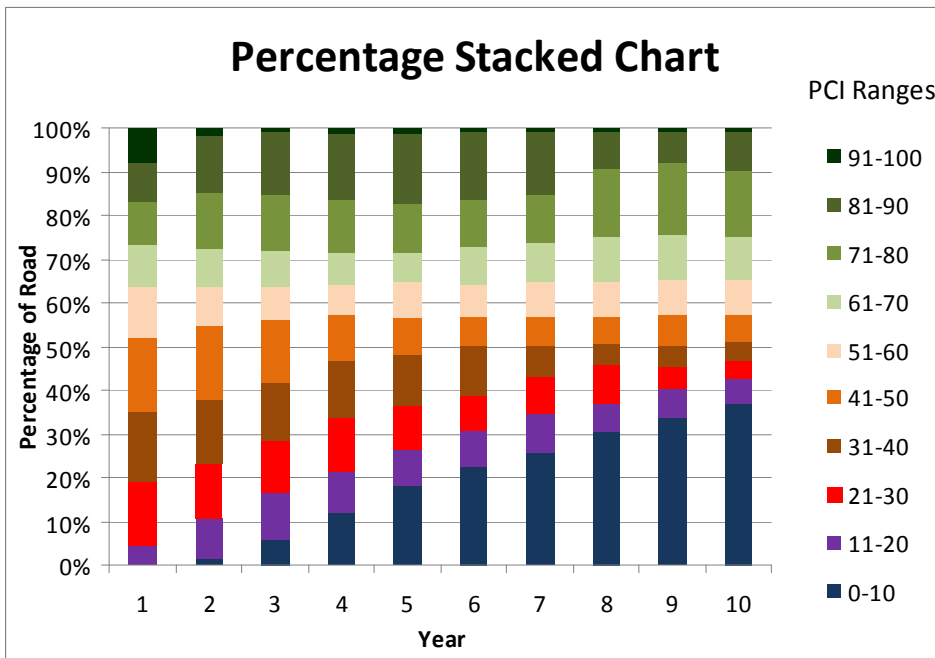
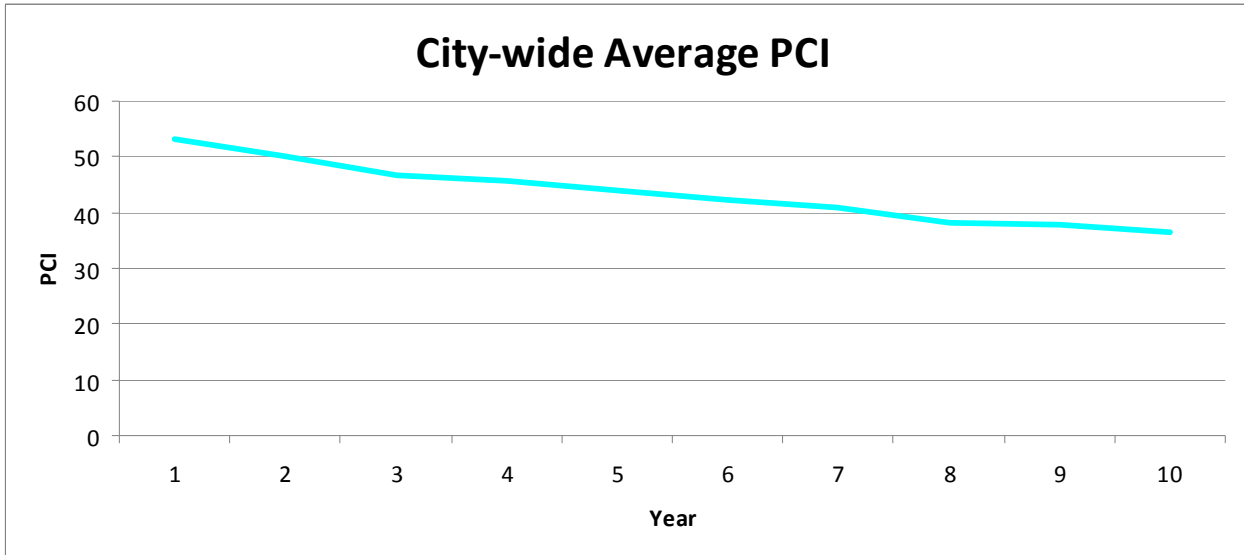
It is important to recognize that these PCI projections are not based on either of the two prioritization methods described in this report. The eRoad system applies an annual budget to roads that are at risk of a rapid decrease in condition, which is approximately 60 PCI. As only a small portion of these roads will be treated each year, most will continue to deteriorate, bringing the average PCI down.

10-Year PCI Projection at \$800k/yr



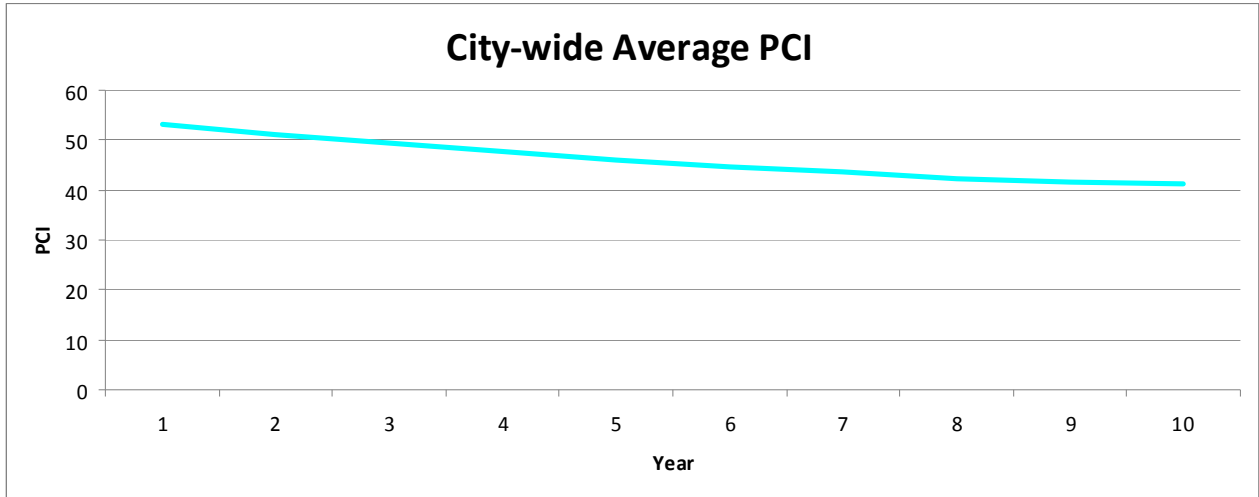
Annual funding of \$800,000/yr, or approximately the current funding levels, the city-wide average PCI will steadily decline, reaching an average PCI of 30 after 10 years. Note the sharp increase in the percentage of roads that are rated with a PCI between 0 and 10. Nearly half of City roads will be in this range after 10 years.

10-Year PCI Projection at \$2 m/yr

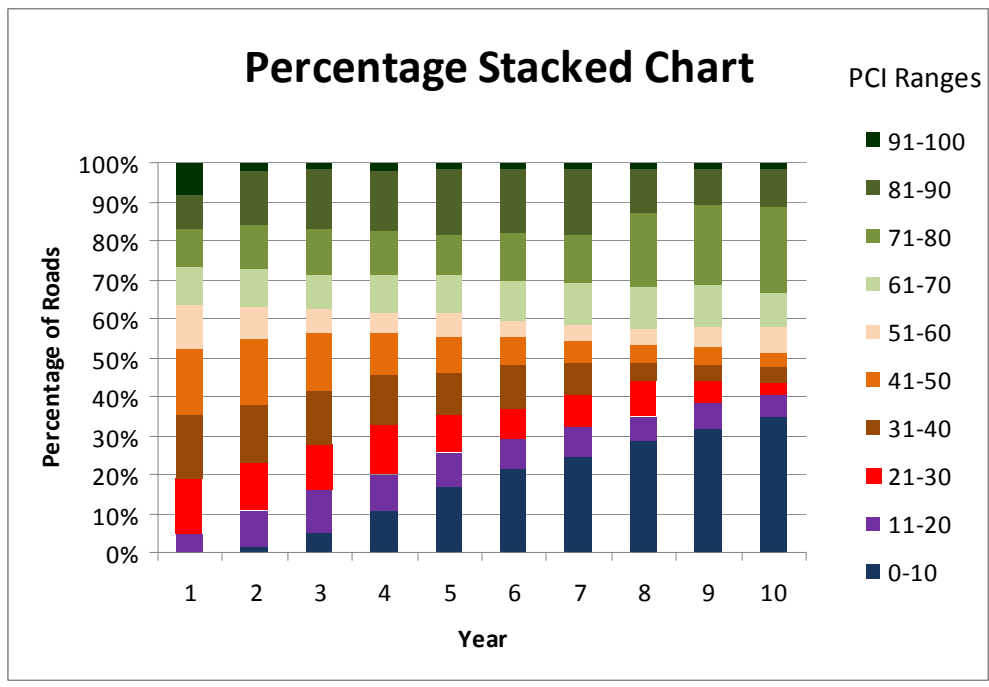


Annual funding of \$2 million/yr will also result in a steady decline in the average PCI value for the City of Redlands. Note the range of roads that are currently rated with a PCI value between 20 and 60. These are the roads that will rapidly decline over the next 10 years, resulting in a large percentage of roads that are projected to have a PCI value of 10 or less after 10 years.

10-Year PCI Projection at \$5 m/yr

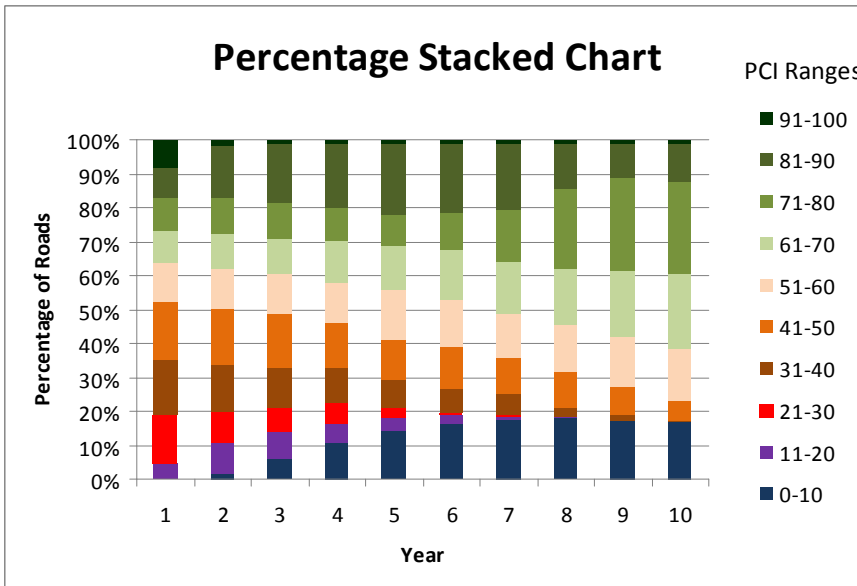
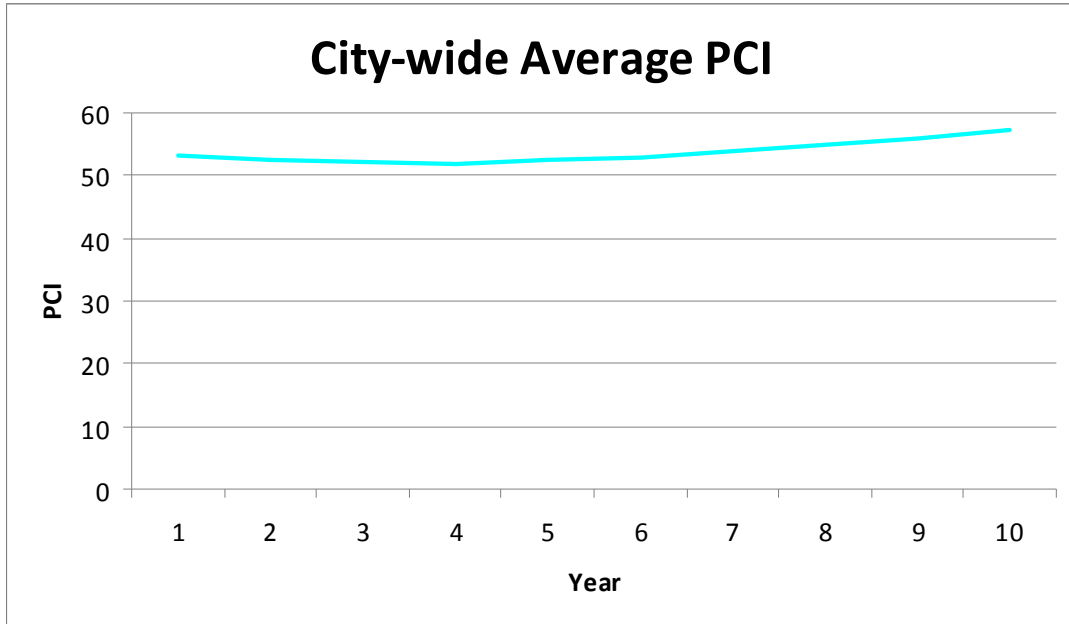


Year



The average PCI continues to decline each year with an annual funding of \$5 million/yr although much less drastically. In addition to a high percentage of roads projected to fall within the 0-10 PCI range, there is also an increase in the percentage of roads that will have a PCI of 70 or better.

10-Year PCI Projection at \$7 m/yr



Funding at \$7 million/yr annually results in an increase in the average PCI each year, after an initial 4-year decline in the average PCI value. This is the result of roads that are currently rated with a PCI between 10 and 30, rapidly declining into the 0-10 PCI range. These roads are already considered “failed” roads today and thus not priority streets. However, as roads in the 31 to 60 PCI range are treated, approximately 61% of City roads will eventually have a PCI above 60. Today less than half of City roads have a PCI value above 60.