Current Maintenance/Renovation Cost vs. Savings of New Turf

YEARS	Maintenance Savings	Renovation savings	Total Savings
1-3	$30,000 x 3 years= **$90,000**		**$90,000**
4	$30,000 x 1 year= **$30,000**	Anticipated Renovation to the field **$40,000**	**$160,000**
5-7	$30,000 x 3 years= **$90,000**		**$250,000**
8	$30,000 x 1 year= **$30,000**	Anticipated Renovation to the field **$40,000**	**$320,000**
9-11	$30,000 x 3 years= **$90,000**		**$410,000**
12	$30,000 x 1 year= **$30,000**	Anticipated Renovation to the field **$40,000**	**$480,000**

Note This is based on spending $30,000 on the field per year in direct maintenance costs, as well as re-working the field every 4th year, and this doesn't include the irrigation of the field. The national average for High Schools is in excess of $40,000 per year. We are projecting a 12 year life for these fields. The water savings per field is over 500,000 gallons (approximately $1,000) on an annual basis, and this savings will more than pay for the small amount of maintenance required of the new turf fields. Each field comes with a grooming brush, and it should be used once a quarter to brush the field. This takes less than 1 ½ hours to complete. The turf contractors warranty will cover the cost of repairing seams, and will include annual inspections, for 8 years after installation.

This example shows a projected initial cost of $670,000 for the field. Over a 12 year period the savings to the school= $480,000 versus the investment of approximately $670,000, or an expense of $190,000.This is with no consideration for interest payments/time value of money.

To install new turf on the field after 12 years is approximately $335,000in today's dollars. Considering that the base construction is already built, the turf replacement cost represents approximately half of the original cost of the field. The maintenance savings in year 12-24 are $480,000, therefore creating a positive investment impact of $145,000.
Projecting years 24-36, the savings again would be $145,000 giving a positive investment impact over 36 years of: $90,000, when compared to original investment of $670,000, and year 12 and year 24 replacement at $335,000. (1st 12 year savings: -$190,000+ 12-24 year savings: $145,000 + 24-36 year savings: $145,000= $90,000 more than the initial investment.)

Conclusion: ***The investment in new synthetic turf fields could be justified by the savings in long term maintenance cost alone; before consideration of the numerous positive impacts that it will make with regard to increased playability, safety, environmentally friendly, enhanced programs, scheduling, increased usage, decrease in pressure on existing practice fields, community opportunities, and more.***