



PREDICT-K “TIP OF THE MONTH”

Using Proppant Manager Databases

The most recent major Predict-K update was centered around making Predict-K a more powerful and easy-to-use tool for optimizing well completions. This change was part of a continuing effort to make Predict-K more useful for reservoir and completions engineers who use the Production Analysis mode to better understand their reservoir. With all the recent focus on accomplishing this goal, it is easy for Consortium members to forget that Predict-K has always been and continues to be a great tool for those principally interested in the proppant itself because at its heart, Predict-K is designed to describe the performance of a proppant pack. With that in mind, the next few tips will focus on ways that both Predict-K and Proppant Manager can be used to better understand, market, or develop proppants.

The first of these tips will focus on Proppant Manager databases. Our default database contains data from the now 31-year history of the Proppant Consortium. This dataset includes well over 1,000 baseline tests in addition to some tests focused characterizing high-rate, non-Darcy flow in proppant packs. That database can stand alone as a powerful tool within Proppant Manager, but building a set of personal databases can add even more utility out of Proppant Manager. Video instructions for creating a personal database are available in our video training library at <https://www.corelab.com/stimlab/training-videos>.

The first database type that will be discussed is a database of internal products or based on proprietary testing. All of the tests on a number of products can be input into Proppant Manager for comparison, record keeping, or correlation determination for Predict-K. Using the notes section for each test, even specialty tests can be included in the database. If these specialty tests are not representative of the general proppant behavior, you can uncheck the selected box before running correlations for Predict-K so that those tests won't incorrectly alter the performance when the data is transferred to Predict-K.

Another database type is simply a record of published data found on vendor websites or tech sheets. The data from any number of vendors can be compared, and multiple test entries can be used to show when published data changes. More information about this type of database can be found in a new training video, "[Creating a Database from Published Data](#)."

The last database type discussed here will be a marketing database. This database could include test data from all of your commercial products for the purposes of ensuring your clients have the most up-to-date performance trends when they run Predict-K with those products. To share this data with clients, you can create and send a Predict-K database or provide the entire Proppant Manager database that you created if you want to give more detail. See the “[Sharing a Proppant Manager Database](#)” video for more information.

The ability to share both Predict-K and Proppant Manager databases is available between all Proppant Consortium members. By creating various database types within your own copy of Proppant Manager, you can have a database to share for every imaginable purpose to get more out of your data and your Proppant Consortium membership.

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Predict-K Training Videos (opens in YouTube):

1. [How to obtain your license for Predict-K and Proppant Manager](#)
2. [Predict-K Main Screen](#)
3. [Quick Entry](#)
4. [Predict-K General Structure](#)
5. [Creating a New Proppant Manager Database](#)
6. [Running the Proppant Manager Correlations](#)
7. [Exporting Proppant Manager Results to Predict-K](#)
8. [Baseline Conductivity](#) [Demonstration Base Project for Videos 8 - 10](#)
9. [Dynamic Conductivity](#)
10. [Production Analysis Overview](#)
11. [Adding Production Data to Predict-K](#) [Demonstration Base Project for Video 11](#) [Simulated Production Data Excel File](#)
12. [Matching Production Data](#)
13. [Changing Default Units](#)
14. [Treatment Options](#)
15. [Working with Plots](#)

16. [Creating a Database from Published Data](#)

17. [Sharing a Proppant Manager Database](#)

Stim-Lab Inc. | www.stimlab.com | 7118 N Hwy 81 | Duncan, OK 73533 | 580-252-4309