



## LOAD ASSURANCE

# Wayne Davis Concrete

Founded in 1971, Wayne Davis Concrete Company is family-owned and provides a range of concrete products. Servicing out of 14 plants, in the North and North West Georgia market.

## The Challenge

A common challenge that occurs in many ready mix operations is the lack of visibility into the properties of their fresh concrete during the delivery cycle. There's a plethora of things that can go wrong from the time the materials are produced until they are placed, and having insight into an issue enables producers to take action before the issue becomes a disaster.

## The Solution

Wayne Davis signed on with Command Alkon's concrete telematics solution, Load Assurance, to gain insight into the properties of their fresh concrete while in transit to their customer.

The solution analyzes and communicates slump, temperature, volume, water additions, W/C ratio, drum rotation, and direction for each and every load to the driver, production, dispatch, and quality control personnel. This solution improves their operations because having real-time concrete property data from the drum ensures fewer rejected loads, less

time spent product testing, and more flexibility for reuse of concrete left in the drum. Their goal was to offset the cost of the Load Assurance product with a reduction of lost loads and time savings.

## The Result

One of the beauties of Load Assurance is that installing the hardware is straightforward. For



LOCATION  
**Georgia**



INDUSTRY  
**Ready Mix**



RESULTS  
**Reuse of Materials**

the first few installations, representatives from Command Alkon came on site and showed Wayne Davis how simple it is to secure the hardware and get the system up and running. After a little bit of training, Wayne Davis' shop was able to take over and perform the installations themselves. With installation time being about three hours, two to three employees were able to install four to five trucks per day until the full fleet was armed with the system. Maintenance for the hardware is minimal, but should a part need to be replaced, it is an easy and transient process. Anytime a new process is implemented, there will always be people who want to challenge it, which is what Wayne Davis noticed with some of their seasoned drivers. These drivers have been in the industry for many years and know a great deal about ready mix concrete.

However, even those who questioned the effectiveness of the probe realized that the technology is extremely accurate and simplifies their day-to-day operations. Now, drivers have immediate visibility into when the load is fully mixed, so they can stay in the cab of the truck and do not have to risk injury climbing up and down to eyeball the product. It also reduces the time that is spent on the jobsite making adjustments, as well as when returning to the plant with returned concrete that can be used for another job.

The ability to know the materials properties helps Wayne Davis determine if the returned load can be used for a different job. If so, the driver can save the 20 minutes that they would have spent dumping washout water and get back on the road.

On a residential project, Wayne Davis uses Load Assurance by tracking the truck to the job to make sure they pour efficiently and monitor the water added. The data collected by the system can be used later once the job is done to dispute any claims. They can also monitor the slump to determine if specifications need to be made to the loads being produced for the same job; that way, materials arrive in perfect condition to begin pouring.

## KEY TAKE AWAYS

- Knowing the material properties of the mix helps determine if the load can be used for a new job.
- Drivers have immediate visibility into the load when it's fully mixed, allowing them to stay in the cab

On a larger commercial pour, Wayne Davis uses the system to monitor slump loss in the first round of trucks and make adjustments to get the concrete to the job in a more timely manner and with minimal water added on site. From a plant manager/batcher standpoint, the system is valuable because it delivers real-time feedback about the amount of water added on the current load in transit and helps them determine the changes that need to be made when batching the next load.

Because they have the information needed to make adjustments to a load before there is an issue, as well as the ability to determine if returned materials can be used elsewhere, Wayne Davis has realized a significant reduction in lost loads.

Having this post-production visibility also speeds up the delivery cycle and creates opportunity for production operation improvements, as well as accurate information for pricing and bidding future work with appropriate margins.



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