

I. Background and Study Methodology

RegScan, Inc., of Williamsport, PA, engaged Dr. Peter Went, a Business Management Professor at Bucknell University in Lewisburg, PA to conduct a study of state and local law enforcement officers that use RegScan's HazMat Trucking Enforcer software (HTE) to find out how much HTE helps them conduct roadside hazmat inspections. HTE has been used by state law enforcement for roadside inspections of trucks carrying less than truckload lots of hazardous materials since 2002. HTE automatically tells an inspector whether a truck has the proper placarding, segregation, trailer markings, shipping papers, package labeling & markings by simply inputting the truck's manifest. Dr. Went was able to contact 50% of the state and local agencies which use HTE. For many of the questions, the respondents were asked to rate HTE on a scale of one to five with five being the highest. In some questions respondents were asked open ended questions about the product and expected to give detailed responses.

II. Summary of Key Findings

Dr. Went's study found an overwhelming positive review of the product in its ability to help inspectors more accurately and efficiently inspect trucks carrying hazardous materials.

Some of the key results were:

- ◆ **Inspectors found 86% more hazardous material violations**
- ◆ Inspectors used **33%** less time to conduct complex highway safety inspections
- ◆ Productivity increased **38%**
- ◆ **20 – 25 minutes** were saved on average per inspection
- ◆ Overall performance rating of **4.5** out of 5
- ◆ Ease of Use rating of **4.5** out of 5
- ◆ Compliance Accuracy rating of **4.3** out of 5
- ◆ The number of HazMat inspections increased **25 – 30 %**
- ◆ **100%** of respondents would recommend HTE to colleagues

III. Detailed Key Findings

Dr. Went's study determined that roadside inspectors found 86% more hazardous material violations when they used HTE. Even while the roadside inspectors were finding more violations, they spent an average of 33% less time to conduct complex

highway safety inspections using HTE. The following user quotes and analysis illustrate these conclusions:

“HTE is always correct and provides the inspector the confidence to do more thorough inspections.” The results indicate that HTE has very high compliance accuracy, is up-to-date with the changes in regulations, and is very user-friendly. HTE provides the confidence for law enforcement to enforce the complex hazardous material regulations.

“The speed of accessing correct and full information is very impressive.” HTE's overall performance rating is 4.5, coupled with an identical 4.5 rating for ease of use, and a 4.3 rating for compliance accuracy. According to the respondents, HTE has improved the quality, thoroughness and precision of inspections, evolving quickly into an invaluable tool in enforcing highway traffic safety regulations. Using HTE, on average, saves inspectors 20 – 25 minutes per inspection and increases their overall productivity by 38%.

“HTE pays for itself quickly.” The average state-level enforcement agency conducts approximately 4,000 hazardous material inspections yearly. While the use of HTE has increased the average number of inspections by 13%, several respondents indicated that after implementing HTE, the number of hazardous material inspections have increased by more than 25 – 30%. Using HTE has additionally benefited the agencies by reducing considerably the error rate in inspections and increasing resource availability further in other safety and security inspection areas.

“HTE should be used with ASPEN.” 100% of the respondents would recommend HTE to colleagues in other agencies looking to purchase the software because it is easy to use and quickly tells the inspectors whether the truck is in compliance with the regulations. Further the respondents stated that it would be extremely beneficial for HTE to be integrated with FMCSA's Aspen software.

III. Conclusion

Dr. Went's study found that HTE greatly benefited state and local law enforcement in the inspection of hazardous materials. Specifically, it increased inspectors confidence to perform hazardous materials inspections, increased the number of violations found (by 86%), increased the number of inspections and decreased the amount of time spent per inspection (about 33%). Finally, all of the those surveyed would recommend HTE to their colleagues and think that it should inter-operate with FMCSA's Aspen software.