NextGen TRRP Data Types: Scenario and Findings
Sample Size: 410,068 TRRP records

Test Case
NextGen has simulated a NextGen TRRP run with 410,068 records, which contains all TRRP records processed by the Bureau, to identify the impact on the data edits that are either type date or numeric; and have ACTION_FAIL=Update or Ignore.

In the as-is system, "update or ignore," allows the data to be moved into the data tables, even if it is the wrong data type.

The TRRP Data Element List is located at (http://nfipnextgen.com/EDG/PDF/NextGen_DataType_041406.pdf)

Findings
1. NextGen has identified nine error codes that are flagged as "Database" edits, however, the error message does not concern the data type (i.e., Claim Reopen Date Is Not On Or Later Than Date Claim Closed.) There are only 65 error codes that have to do with data types, and the new TRRP Data Element List is located at - http://nfipnextgen.com/EDG/PDF/TRRP_Data_Type_Results2.pdf

2. Only 8 of the 65 error codes presented data inconsistency. These 8 elements were responsible for a rejection of 25-percent of all the records. This is a high rate; however, 24-percent of the rejections were caused by a single data element (ELEVATION CERTIFICATION DATE), due to companies submitting zeros in the date field. If the NextGen system can treat the "zeros" as "nulls" for the EC date, then the suspense rate would be less than 2-percent. Please see the results below.

Results

Data Element	New NextGen Error Percent Total	Expected Result	Error Type
EXPENSE CONSTANT	1.83774398	Number	C
BASE FLOOD ELEVATION	0.006584274	Number	C
ELEVATION DIFFERENCE	0.026093233	Number	C
POLICY EXPIRATION DATE	0.000975448	Date	C
ELEVATION CERTIFICATION DATE	**24.5410517**	Date	C
REINSTATEMENT POLICY SERVICE FEE	0.000243862	Number	C
TOTAL AMOUNT OF INSURANCE - CONTENTS	0.000243862	Number	C
ORIGINAL CONSTRUCTION DATE/SUBSTANTIAL IMPROVEMENT DATE	0.121199411	Date	C
Total	**26.53413577**		

The table below shows the results with converting zeros to nulls for the EC date.

Data Element	New NextGen Error Percent Total	Expected Result	Error Type
EXPENSE CONSTANT	1.83774398	Number	C
BASE FLOOD ELEVATION	0.006584274	Number	C
ELEVATION DIFFERENCE	0.026093233	Number	C
POLICY EXPIRATION DATE	0.000975448	Date	C
ELEVATION CERTIFICATION DATE	**0**	Date	C
REINSTATEMENT POLICY SERVICE FEE	0.000243862	Number	C
TOTAL AMOUNT OF INSURANCE - CONTENTS	0.000243862	Number	C
ORIGINAL CONSTRUCTION DATE/SUBSTANTIAL IMPROVEMENT DATE	0.121199411	Date	C
Total	**1.99308407**		

Findings

From the test results, there is no impact on the non-critical data types. All of the data type inconsistencies were on existing critical errors.

Recommendation

1. NextGen recommends moving forward and enforcing the data types that are listed in the TRRP Edit Spec document.
2. The inconsistencies, listed above, on the critical errors would be considered rejects.
3. Convert all dates entered as zeros to be considered null.

Conclusion

The impact to the WYO companies would be minimal if we turned the ACTION_FAIL for all these 72/65 error codes to REJECT, and made some minor processing changes for the way NextGen processes ELEVATION CERTIFICATION DATE.