NIAS Toolset - NAPLAN Results Reporting Validation

The NIAS Toolset produces a number of reports for a variety of purposes. Please find below a list of report produced by the tool.

A. QA Reports

Reports are generated in the QA folder when using the -QA option in NIAS

1	itemWritingPrinting.csv
Purpose	• Reports one row of response data per student per test item presented within a NAPLAN test for the Writing domain only • Detailed information which can be used for ingest into data analysis systems
What to expect	• Very large report • Includes a column for each subscore
Look out for	

2	orphanEvents.csv
Purpose	• Reports any NAPStudentEvents whose corresponding school does not have a SchoolInfo object in the data set (no details have been provided about the school, or the school does not exist)
What to expect	• Ideally this report should be empty
Look out for	• Any entry in this report needs to be investigated

3	orphanScoreSummaries.csv
Purpose	• Reports any score summaries whose corresponding school does not have a SchoolInfo object in the data set (no details have been provided about the school, or the school does not exist)
What to expect	• Ideally this report should be empty
Look out for	• Any entry in this report needs to be investigated

4	orphanStudents.csv
Purpose	• Reports any students whose corresponding school does not have a SchoolInfo object in the data set (no details have been provided about the school, or the school does not exist)
What to expect	• Ideally this report should be empty
Look out for	• Any entry in this report needs to be investigated

5	qaCodeframeCheck.csv
Purpose	• Reports all tests, testlets and items referenced in responses that are not included in the Codeframe
What to expect	• Ideally this report should be empty
Look out for	• Tests / Testlets / TestItems should not be responded to if they are not part of the codeframe: any entry in this report needs to be investigated

6	qaSchools.csv
Purpose	• Reports one row per school, summary of school information as well as data from student registration information and results information • Includes total registered students and summary of student count by Year level • Includes total test attempts by year level and domain • Includes counts of students by participation status • Includes count of disruptions
What to expect	• All schools for the sector should be listed • Can check response counts against expected students registered per test level
Look out for	• Discrepancies between number of students registered at each year level for each test domain; reasonable number of students exempt, absent, experiencing disruptions etc.

7	systemCodeframe.csv
Purpose	• Reports all Items against Testlets and Tests in the Codeframe • Includes Item difficulty, correct answer, item type • Detailed information which can be used for ingest into data analysis systems
What to expect	• Large report • One row for every Item in Codeframe
Look out for	

8	systemGuidCheck.csv
Purpose	• Reports any GUID that references the wrong kind of object, or doesn't reference any object included in the data set
What to expect	• Ideally this report should be empty
Look out for	• If any data appears, report will show the correct kind of object the GUID should point to. Any entry in this report needs to be investigated.

9	systemResponses.csv
Purpose	• Reports one row for every student per school registered for a test domain, along with information on their response if available • Includes participation code, path taken for domain and raw score • Detailed information which can be used for ingest into data analysis systems
What to expect	• Very large report • Will include a row for every student registration for all tests, but not all rows will contain responses
Look out for	

10	systemScoreSummaries.csv
Purpose	• Reports a row for every score summary included in the data set, sorted by school, domain and year level
What to expect	• Use to check expected year levels • 2017/18 writing may be included more than once, as score summaries are per test rather than test domain
Look out for	• Any school without an entry for a domain–year level pair (other than Yr 3 Writing)

11	systemExtraneousCharactersStudents.csv
Purpose	• Reports a row for every student whose name contains a character other than a letter, an apostrophe, a hyphen, or spacec
What to expect	• Ideally this report should be empty
Look out for	• Check for any students whose names may cause SSSR report to crash

12	systemStudentEventAcaraIdDiscrepancies.csv
Purpose	• Reports a row for every test administered at a different school from where the student was enrolled
What to expect	• Ideally this report should be empty
Look out for	• Check for any students whose school of enrolment and school administering the test conflict. If a student has been registered against two schools, the first school of registration will be used as the control.

13	systemStudentTestYearLevelDiscrepancies.csv
Purpose	• Reports a row for every test administered at a different test level from the year level that the student was enrolled in
What to expect	• Ideally this report should be empty
Look out for	• Check for any students whose year level conflicts with the test level they were administered.

14	systemMissingTestlets.csv
Purpose	• Reports a row for every student response set with a participation status of P, which containing less testlets (according to the ParallelTest field of the student response set object) than are expected for the given test level and test domain. (For 2018, these are: three for Reading and Spelling; three for Numerarcy Yrs 3 and 5; four for Numeracy Yr 7 and 9; one form Grammar & Punctuation and Writing.)
What to expect	• Ideally this report should be empty
Look out for	• Check for any students that have not been presented the full count of testlets expected. Check the test disruptions and total lapsed time for the test event, as potential explanations.

B. QA\Error_reports

Reports are generated in this folder as a result of using the -QA option in NIAS

15	itemExpectedResponses.csv
Purpose	• Reports one row per student per test • Presently up to 3 Testlets per test • Lists the number of items per testlet that a student is expected to have answered (according to the codeframe), the number of correct/incorrect/not attempted and not presented items in that testlet; and any discrepancies between the number of items expected and referenced in the response • Accounts for any cases where all item responses in the testlet are missing. To highlight these the report injects a dummy "empty testlet report" item response into the testlet which is displayed in the report error. Any students with partial results in their PRD will be found.
What to expect	• A row per student response per test • At least one testlet per test populated
Look out for	• No items in the Not In Path category • Listings of discrepancies ("Expected not found, Found not expected") to be empty square brackets ("[]") • Number of expected items per testlet to equal the correct/incorrect/not attempt/not presented items per testlet

16	systemItemCounts.csv
Purpose	• Reports the number of times an item is in a response at all
What to expect	• A row for every item in the codeframe
Look out for	• High counts for substitute items • Zero counts for any item

17	systemObjectFrequency.csv
Purpose	• Reports for every student the number of events they have recorded, the number of events with participation status P/R/S (Participated/Refused/Sanctioned Abandonment)—which are expected to have produced responses; and the number of responses • Also includes P/R/S events without responses, and responses without P/R/S events
What to expect	• A row for every unique student in the data set, independent of school
Look out for	• Check for discrepancies the number of events with participation status P/R/S and the number of responses • Check for any instances of a student participating in more than five distinct events (as identified by test level plus test domain)

18	systemParticipationCodeImpacts.csv
Purpose	• Reports tests for which the response contents are unexpected based on the participation code

What to expect	• Ideally this report should be empty

Look out for	• "Adaptive pathway without student undertaking test" if:
	   ○ participation code = S, P
	   ○ PathTakenForDomain or ParallelTest are not empty
	• "Scored test with status other than P or R" if:
	   ○ participation code ≠ P, R
	   ○ RawScore or ScaledScore is not empty
	• "Non-zero score with status of R" if:
	   ○ participation code = R
	   ○ RawScore is not empty
	   ○ RawScore ≠ 0
	• "Unscored test with status of P or R"
	   ○ participation code = P, R
	   ○ RawScore or ScaledScore is empty

19	systemRubricSubscoreMatches.csv
Purpose	• Reports item/response pairs in which the rubric types and subscore types do not match
What to expect	• Ideally this report should be empty
Look out for	• Where there are SubscoresNotDefined which are subscores with no corresponding rubric, or that are not in the list of 10 expected rubric names • Where there are RubricsNotScored which are rubrics with no corresponding subscore in the item response

20	systemParticipationCodeItemImpacts.csv
Purpose	• Reports items for which the item responses are unexpected based on the participation code, focusing on score at test level, testlet level and item level
What to expect	• Ideally this report should be empty

Look out for	• "Response captured without student writing test" if:
	   ○ participation code ≠ S, P
	   ○ Response is not empty
	• Scored test with status other than P or R if:
	   ○ participation code ≠ P, R
	   ○ TestletScore, ItemScore or Subscores are not empty
	• Non-zero Scored test with status of R if:
	   ○ Participation code = R
	   ○ TestletScore, ItemScore or Subscores is not empty
	   ○ TestletScore, ItemScore or Subscores ≠ 0
	• Missing testlet score with status of P or R if
	   ○ Participation code = P, R
	   ○ TestletScore is empty
	   ○ This error is not as serious
	• Unscored test with status of P or R
	   ○ Participation code = P, R
	   ○ ItemScore is empty
	• Unscored writing test with status of P
	   ○ ParticipationCode = P
	   ○ TestDomain = Writing

	o Subscore is empty

21	systemTestAttempts.csv
Purpose	• Reports all sanctioned abandonments for students in schools for sector
What to expect	• Small number of rows
Look out for	

22	systemTestCompleteness.csv
Purpose	• Reports for each test per year level per school in sector counts for Present and Sanctioned Abandonment, and discrepancies between attempts (events with status P or R) and responses
What to expect	• Row per school per domain per test level
Look out for	• List of attempts with no response should be empty for all rows • List of responses with no attempts should be empty for all rows • P_Attempts + S_Attempts + R_Attempts should add up to Responses

23	systemTestIncidents.csv
Purpose	• Reports all non-empty test disruptions by student, school and domain
What to expect	• Small number of rows for disruptions impacting individual students • Larger number of rows for disruptions impacting cohort of students
Look out for	• Schools with high proportion of disruption

24	systemTestTypeImpacts.csv
Purpose	• Reports tests for which the response contents are unexpected based on the test domain
What to expect	• Ideally this report should be empty

Look out for	• "Writing test with adaptive structure" if
	    o TestDomain = Writing
	    o PathTakenForDomain or ParallelTest is not empty
	• "Non-Writing test with non=adaptive structure" if
	    o TestDomain ≠ Writing
	    o PathTakenForDomain or ParallelTest is empty

25	systemTestTypeItemImpacts.csv
Purpose	• Reports items for which the item responses are unexpected based on the test domain, focusing on score at test level, testlet level and item level
What to expect	• Ideally this report should be empty

Look out for	• "No subscores for Writing Test" if
	    o TestDomain = Writing
	    o Subscores is empty

•	Subscores for non-writing test if
	○ TestDomain ≠ Writing
	○ Subscores is not empty

C. School Reports

School_reports: Reports are generated in this folder as a result of using the -report option in NIAS. For each school all 3 reports will be generated.

26	schoolDomainScores.csv
Purpose	• Report contains line per student in the school for each domain containing domain band, raw and scaled scores
What to expect	• One record for each test where response is available
Look out for	• Zero scores if Participation = Refused
	• Blank/Null if Participation = Sanctioned Abandonment

27	schoolParticipation.csv
Purpose	• Reports participation status for each student for each domain within the school
What to expect	• One row per student
Look out for	

28	schoolScoreSummaries.csv
Purpose	• Reports for each year level and domain averages for School, Jurisdiction and National
	• Reports top and bottom national 60%
What to expect	• One row per test name (made up of test level and domain name) for the school
Look out for	

D. System Reports

System_reports: Reports are generated in this folder as a result of using the -report option in NIAS. In the following, reports prefixed with qld are specific to Queensland, and reports prefixed with nsw are specific to NSW.

29	systemCodeframe.csv
Purpose	• Reports for each year level and domain, Testlet information including Name, Location, Node, Maximum Score and Items, including difficulty Maximum score, difficulty and Item Type
What to expect	
Look out for	

30	systemDomainScores.csv
Purpose	• Reports raw and scaled scores for each student, year level and domain
What to expect	• One row per student per test domain
Look out for	

31	systemObjectsCount.csv	
Purpose		• Summary report showing counts for: schools, students, test events, student responses, tests, testlets, test items, codeframes & score summaries
What to expect		
Look out for		

32	systemParticipation.csv	
Purpose		• Reports participation codes for each student in each school by domain
What to expect		
Look out for		

33	systemSchools.csv	
Purpose		• Reports school registration details, including school type, sector, principal name and websites
What to expect		
Look out for		• Student count will only be populated if it has been submitted in Registration

34	systemScoreSummaries.csv	
Purpose		• Reports for each school the Local Test Name and averages for School, Jurisdiction and National
What to expect		
Look out for		

35	qldStudent.csv	
Purpose		• Basic registration information for each student by school in TAA, following QLD TAA format requirements
What to expect		
Look out for		

36	qldStudentScore.csv	
Purpose		• Reports Student ID Domain, Year level, raw and Scaled scores, Band Participation status for each student, following QLD TAA format requirements
What to expect		
Look out for		

37	qldTestData.csv	
Purpose		• Reports item information per year level and domain, includes sequence and item type, following QLD TAA format requirements
What to expect		
Look out for		

38	isrPrinting.csv	
Purpose		• Reports for student including local ID, name, scores for each domain, mean scores • Can be used to facilitate merge with paper records to support printing of hardcopy ISRs.
What to expect		• A record for each student
Look out for		

39	isrPrintingExpanded	
Purpose		• Reports for student including local ID, name, scores for each domain, mean scores, standard deviations, pathways for test responses, and full demographic information for each student • Can be used to facilitate merge with paper records to support printing of hardcopy ISRs.
What to expect		• A record for each student
Look out for		

40	nswItemDescriptors.csv	
Purpose		• Reports the item descriptor for each item in the codeframe
What to expect		
Look out for		

41	nswItemPrinting.csv	
Purpose		• Reports item responses for each item responded to, against the student PSI, following NSW TAA format requirements
What to expect		• A record for each item response
Look out for		

42	nswPrint.csv	
Purpose		• Reports the domain scores, participation status, and PNP codes for each test sat by a student, following NSW TAA format requirements
What to expect		• A record for each student, including all test domain responses
Look out for		

43	nswPrintAll.csv	
Purpose		• Reports all item responses for all tests sat by a student, following NSW TAA format requirements
What to expect		• A record for each students, including all item responses in all tests
Look out for		

44	nswWritingScripts.csv	
Purpose		• Reports writing scripts for all Writing tests sat by students, following NSW TAA format requirements
What to expect		
Look out for		

E. Item Printing

Item_printing: Reports are generated in this folder as a result of using the -itemprint option in NIAS. A report will be generated for each available year level (3,5,7,9)

45	itemPrinting.csv	
Purpose		• Reports one row of response data per student per test item presented within a NAPLAN test • Detailed information which can be used for ingest into data analysis systems
What to expect		• Very large report • This report excludes writing
Look out for		

F. Reports available via NAPRRQL user interface

These reports are available by the NIAS web interface following the ingest of data (by running NIAS -ingest) and the generation of school reports (by running NIAS -report). User selects a school from drop down list. Reports are viewable by selecting required tab. Basic information about the selected school is also available.

46	School Score Summary	

Purpose		• Displays for selected school all domains for all year levels:
		     o School Average
		     o Jurisdiction Average
		     o NationalAverage
		     o Top National 60%
		     o Bottom National 60%

What to expect		• Filters available for Year level • Can drill down on individual rows to view information graphically • Report can be downloaded as csv file

47	Student Domain Scores	

Purpose		• Displays for selected school scores for each student for each domain
		     o Raw score
		     o Scaled Score
		     o Scaled Score Std Error
		     o Domain Band
		     o Proficiency

What to expect		• Filters available for Year level and domain • Can drill down on individual rows to view information graphically • Report can be downloaded as csv file

48	Student Participation	
Purpose		• Displays participation codes for each student for each domain
What to expect		• Filters available for Year level

	• Can drill down on individual rows to view each domain test details as well as exemption, disruptions and PNP codes • Report can be downloaded as csv file

49	NAPLAN Codeframe	

Purpose	• Displays for each year level and domain:
	  o Subdomain
	  o Node
	  o Testlet Name
	  o Item Name

What to expect	• Can drill down on individual rows to view further information on Content, Writing Rubric and Scoring