



OSU Seed Lab

2019 Crop Year Newsletter

WWW.SEEDLAB.OREGONSTATE.EDU

HTTPS://W3.OSCS.ORST.EDU/ONLINE/

The 2019 Crop Year is upon us. Here at the lab we are (and have been) preparing for this 'busy season'. That means reflecting, planning, studying, and implementing changes for efficiency and accuracy, training, training, and more training. Then there is hiring. Did you know that we double our staff in order to process all of the samples we receive during this time of the year? That means more training! While we are doing all of this preparation, we thought it would be a good opportunity to explain our online tools and resources that work for you.

Online Resources:

You probably know that dates are very important here in the lab. Each department works on samples in order of the date they were received with the exception of Rushes and Super Rushes. You may wonder in the middle of the 'busy season', "When is my test going to be done?"

A helpful online tool that the OSU Seed Lab staff updates daily is the Testing Flow Report, available on our Seed Lab website: <https://seedlab.oregonstate.edu/testing-services/testing-flow-report>. The Testing Flow Report lists the total number of samples the Purity Department has in queue to test by date received. Knowing the date your sample arrived at the lab, how many samples might be ahead of yours and how many samples the Purity Unit completed the previous day (listed on the bottom of the Testing Flow Report) can help you do a quick calculation to estimate when your sample could be complete.



HOME TESTING SERVICES CUSTOMIZED TESTING ISTA CERTIFICATES RESEARCH SERVICES TRAINING & EDUCATION

Testing Flow Report

May 8, 2019

GERMINATION UNIT IS PLANTING SAMPLES FROM MAY 07

PURITY UNIT IS COMPLETING REGULAR PURITY SAMPLES FROM MAY 07

WHEN REQUESTING RUSH SERVICE, THE TURNAROUND TIME WILL BE 24-48 HOURS. ADDITIONAL FEE APPLIES.

Numbers represent those samples (new + retests) that are in the purity testing process.

Date Sample or Test Request Received	Remaining Samples
RUSH & SUPER RUSH	00
May 07	04
Total	04

Daily sample numbers include samples that arrived late in the day.

Number of samples completed by the Purity Unit on May 07, including rushes: 11

Another tool that will help you, is the Oregon Seed Certification Online Services website: <https://w3.orst.edu/online/>. The link, G2 (see below) and all of the links in section C (see below) are for the OSU Seed Lab results, information, reports, and invoices. The key to this site is to remember to use the tab key instead of the enter key, as the enter function has been disabled. If you need to find out your test number, you can simply enter the lot number that you listed on the sample certificate. Once you know your test number, you can add a cc, add additional testing, view the ongoing germination results or view test reports in PDF Format. If you would like automated emails notifying you that a new test report has been generated and is ready for you to download, create a 'ReportWatcher' by clicking on the link and entering an email address (only one email address may be added per company and you will need to re-create a 'ReportWatcher' each year).

C. Seed Test Information:

1. Obtain Test Number (by Lot Number) for Received Samples
2. Add CC to Seed Lab Seed Sample Records
3. Request Additional Tests for Submitted Samples
4. View Purity Test Results
5. View Viability Test Results
6. Access Seed Lab Test Reports in PDF Format
7. Create a 'ReportWatcher' List for Test Reports

G. Miscellaneous:

1. View Seed Certification Invoices
2. View Seed Lab Invoices



One query on the OSCS website that is most helpful is: Query and Download Sample, Purity, and Viability Information (B8). Do you ever think: **"Did I or someone else who is a cc order a test and how can I double check that the lab received my request?"** The Query and Download Sample, Purity, and Viability will allow you to see all the tests ordered on the test number/lot. We receive plenty of duplicate retest orders so please take the time to double check this query before you order a test.

B. Seed Sample Information:

8. Query and Download Sample, Purity, and Viability Information

Make sure to select by date range (the original sample receipt date) or by test number. To view results, check at least the test number, lot number, and tests & order dates (see below) and select 'Display Data'.

When Can I Expect Results?

When your sample arrives at the lab or you order a re-test, you may wonder, **"How long before I have results?"** Several of the testing timelines depend on the sample load at the lab, but to give you an idea of the general timeline we have included the most common.

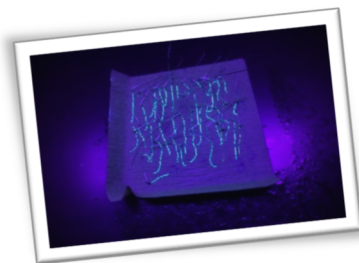
The **purity testing (p, cw, sq,)** can be estimated through the Testing Flow Report, as mentioned on the first page. The **germination and florescence (g, fl)** testing progress can be viewed through OSCS Online Services website. Go to C:5 to see if the germ has a Pre-chill and find the date the sample was 'Planted.' With that information you can estimate when the sample will have its first count and any counts thereafter. For example, if a typical sample has a Pre-chill and is planted on Monday the 1st, seven days later (on the 8th) it will enter the warm germinator. The sample will typically have its first count seven days later (on the 15th). Additional counts are generally conducted every seven days thereafter until the Germination Department finalizes the results based on the testing rules. The exception to this seven-day rule would vary by species or testing rules that determine a different end date. Different species have different germination duration.



Typically, Bentgrass finalizes at 28 days; Bluegrass, Bentrass and Bermudagrass finalize at 21 days; Ryegrass and Tall fescue at 14 days. If the analyst determines that the sample has reached full germination, they may finish at an earlier count.

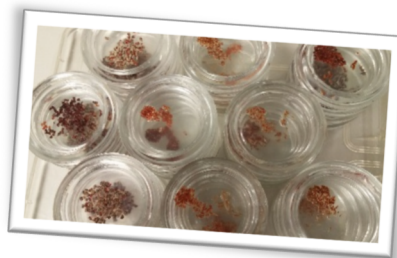
Find Orders						
Test No.	Lot Number	Variety	Crop Kind	Type of Test	Date Planted	Date Completed
10-10-2018			Perennial ryegrass	Fluorescence	03-24-2019	10-10-2018
Pre-chill		Remarks		Status		
Notes		Notes		Meets OSCS viability standard		
Species	Germination Percentage	Fluorescence Percentage	TZ Percentage	Hard Seed Percentage		
Perennial ryegrass	36	0.10	N/A	N/A		

Growout (grow): The total time for a growout with the germination and fluorescence test can last 6-9 weeks. The growout itself takes place after the germination and fluorescence finalizes. Doing the math that means the germination and fluorescence test can take 2-3 weeks, then the growout can last 4-6 weeks, which makes the total time add up to 6-9 weeks. If you are interested in the timing of a special project growout, which could include other species besides ryegrass, please contact the lab for timelines.



Tetrazolium (tz): The results for tz tests are usually available within 1-2 business days after the Special Testing Department receives the sample. Exceptions to this fast process are highly contaminated samples and some native species. Please note that if the tz test is completed before the purity

test, it will be reported with the purity report. Please also note that the viability record on a tz will not be visible online until the tz is finalized and reported. Please be aware this timeframe does not include order processing time. TZ requests made late in the day may not be processed until the next business day.



Sod Quality (sq): The purity department will do Sod Quality exams in the order that they receive them along with all other testing orders (see information on the Testing Flow report to estimate when the test will be complete.) If the sample has met the purity standards for OR Sod Quality standards, the OSU Seed Lab *must wait on the viability test results (germination or tz) to determine if the sample has also met the OR Sod Quality viability standards.* If the sample does not meet the OR Sod Quality standards, a report will be generated after the Sod Quality exam without waiting for the viability results.

Oregon Sod Quality Standards (OAR 603-56-145 table 1)

Kind	Minimum purity	Minimum germination	Maximum other crop ¹	Maximum weed ⁵
perennial ryegrass	98%	90%	0.10% ²	0.02%
marion Kentucky bluegrass	95%	80%	0.10% ³	0.02%
other varieties of bluegrass	97%	80%	0.10% ³	0.02%
red fescue	98%	90%	0.10%	0.02%
chewings fescue	98%	90%	0.10%	0.02%
hard fescue	98%	85%	0.10%	0.02%
sheep fescue	98%	85%	0.10%	0.02%
blue fescue	98%	85%	0.10%	0.02%
bentgrass	98%	85%	0.10% ⁴	0.10%
tall fescue	98.5%	85%	0.10%	0.

Sequential testing

You may be asking, "What is a sequential test and when should I request it?" Here at the OSU Seed Lab we have a few different tests that can be ordered as sequential. A sequential test is tied to the results of a different test that has been ordered at the same time. For instance, a sequential crop and weed (seq/cw) is ordered with a regular purity test and will be performed **only if no contaminants** were found in the purity portion. A regular crop and weed (cw) test would be performed **regardless** of what is found during purity testing.

Other examples are the sequential growout (seq/grow)* or sequential RAD (seq/rad)* tests for ryegrass species. Both tests are tied to a fluorescence/germ test. If the fluorescence test returns a percentage of Other Crop that meets OSCS Certification certified generation (Blue Tag) standards, then the seq/grow or seq/rad is not performed. For example, if the crop is perennial ryegrass and the Other Crop percentage for annual ryegrass is 0.00-3.00%, then the growout/RAD will not be performed. If the Other Crop percentage for annual ryegrass was 3.01% or higher, then the growout/RAD would be performed. If you would like the tests to be performed regardless of the Other Crop percentages, then a regular growout (grow) or RAD (rad) test should be ordered.

**Please note that a growout or RAD (including sequential) cannot be added to an annual ryegrass after the first count has been performed due to the discarding of fluorescing seedlings that would be needed for a control.*



Do you have a question that you would like to suggest for the next newsletter? Please send your suggestions to:

seedlab@oregonstate.edu

OSU Seed Laboratory

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Additional Testing

Retests: Due to the high volume of retest orders and to ensure accuracy and efficiency, please request additional tests through our online services website: <https://w3.oscs.orst.edu/online/>. Option C3:

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The additional test page (see below) will allow you to request more than one test for each sample. If you are adding the same tests to several test numbers, you can click on 'Add New Test Number' to enter several test additions at the same time.

Additional test samples are samples that are either already filed or in process somewhere in the lab, so when requesting additional tests please know that there will be administrative processing time in addition to testing timelines. When possible, please order all tests needed on the original sample request. For example: tz, seq/rad, grow, seq/cw and rush or super rush. Adding an additional test, such as tz, while the sample is in queue for purity testing will require that the sample first finish the purity testing before heading to the Special Testing department for the tz test. Please note that additional tests requested late in the day will be entered by the administrative department the next business day.

Customers:

We want to thank you for your continued business. We hope that this newsletter will be a resource for you during this 2019 crop year.



Oregon State
University