**MICHIGAN ALFALFA VARIETY TRIALS, 2022**

# Dr. Kim Cassida & Joe Paling

# Dept. of Plant, Soil and Microbial Sciences, Michigan State University

# 1066 Bogue St Rm A286, East Lansing, MI 48824

The Michigan Agricultural Experiment Station will accept proprietary varieties and experimental strains of alfalfa for evaluation at two locations in 2022. The trials are intensively managed for high yield under high fertility, utilizing all factors to maximize yield under natural rainfall.

1. Locations for 2022
	1. MSU Research Farm at **East Lansing**. Trials are managed using a four-cut system from late May through November.
	2. MSU Upper Peninsula Research and Extension Center at **Chatham**, approximately 300 miles north of East Lansing. Chatham has cold winters with deep snow cover. Winter-hardiness and persistence are important at Chatham. Chatham trials are managed for three cuttings from June to October.
2. Description of Trials. Alfalfa trials are seeded with a five-row nursery seeder with six-inch spaces between rows in plots 3 feet wide and at least 20 feet long (generally 22-25 feet). A minimum of four replications is used. Plots are harvested with a Carter self-propelled forage flail harvester. Fertilizer is applied to meet MSU recommendations for high yield. Insecticides are applied when necessary to prevent yield reduction from alfalfa weevil (late May to early June) or potato leafhopper (June 15-September 15). Herbicides are applied as needed to control weeds. Roundup-ready entries will be managed in the same trial as conventional entries.

Standard procedures for determining dry matter yield are used. Plots will be harvested for at least three years after the seeding year unless stands are injured by uncontrollable causes. Preferably, alfalfa will be seeded in the spring and harvested one to three times in the seeding year. Seeding may be delayed until late July or early August to achieve best results in stand establishment, in which case no seeding year harvests will be taken.

Data on stand longevity and disease incidence will be obtained when appropriate. Michigan State University will conduct the trials in a professional manner, but assumes no financial liability for failure to obtain stands or loss of stands due to uncontrollable conditions.

1. Eligibility of Entrants. Any entity may enter varieties or experimental strains in the test provided they have legal permission to do so for protected varieties. This includes private or public developers, dealers, distributors or merchandisers of alfalfa varieties, other Agricultural Experiment Stations, non-profit groups, farmer cooperatives, or individuals.
2. Rejection. Any entry may be rejected if:
	1. The trial is cancelled. A minimum of 10 paid entries (excluding check varieties) will be required at a location. If 10 entries are not received, payment will be returned.
	2. There is misrepresentation.
	3. Seed arrives too late for planting.
	4. Adequate seed is not available.
	5. Variety is not resistant to bacterial wilt.
	6. Entry is a blend.
3. Entry Fee. **$600.00** per variety per test location entered.

Make checks payable to Michigan State University and send with applications to:

Joe Paling, 4450 Beaumont Rd, PSM Agronomy Farm, Michigan State University, Lansing, Michigan 48910

Deadline for Entry. Applications must be received by Joe Paling by **April 7, 2022**. Seed must be in the possession of Joe Paling by **April 21, 2022**.

1. Seed Required. Seed for released varieties is to be from a commercial source. Arrangements may be made with MSU to deliver commercial seed through local dealers, distributors, or other sources. All seed will be inoculated with Rhizobium at MSU prior to planting. Seed treated with fungicides will be accepted.

Released varieties: 200 grams of seed per entry for each location.

Experimentals: 100 grams per entry for each location is adequate.

1. Publication. Each entrant will receive a yearly summary of the data in November, including all released and experimental varieties. The yearly summaries will be published in the *Michigan Farm News* in February. Complete test results will be published by Michigan State University Extension and will be posted on the MSU Forage Connection website http://forage.msu.edu/.
2. For assistance, contact Joe Paling at paling@msu.edu, cell 517-242-4155, or Kim Cassida at cassida@msu.edu, 517-353-0278.

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Submit one form for each variety or entry and send to the address below by April 7, 2022.

Seed of released varieties (200 grams per location from a commercial source) and experimental entries (100 grams per location) should be received by April 21, 2021. Only genetically reproducible seed will be accepted. Blends will not be accepted.

1. Company

Contact person Marketer

Email

1. Address

City State Zip

Phone ( ) Fax ( )

1. Name or number of entry
2. (Please indicate name desired when data are reported)
3. Brief description Is this a commercially released variety? Yes No

Please list any addition e-mail addresses you would like the results sent to:

Date of Seed Test **Disease Resistance**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Purity  | Fall Dormancy | 1 | 2 | 3 | 4 | 5 | 6 |
| Germination, quick  | Winterhardiness | 1 | 2 | 3 | 4 | 5 | 6 |
| Germination, hard Resistance Ratings DRI  |
| Germination, total  | Bacterial Wilt | HR | R | MR | LR | S |
| Scarified - yes or no (circle on) | Verticillium Wilt | HR | R | MR | LR | S |
|  | Fusarium Wilt | HR | R | MR | LR | S |
|  | Anthracnose | HR | R | MR | LR | S |
| East Lansing Standard  | Phytophthora root rot | HR | R | MR | LR | S |
| Chatham Standard  | Aphanomyces (race 1) | HR | R | MR | LR | S |
| Total Locations \_\_\_\_\_\_\_\* 600.00 = \_\_\_\_\_\_\_  | Aphanomyces (race 2) | HR | R | MR | LR | S |
|  | Stem Bulb Nematode | HR | R | MR | LR | S |
|  | Pea Aphid | HR | R | MR | LR | S |
|  | Potato Leafhopper | HR | R | MR | LR | S |

Payable to **Michigan State University**: ATTN: Joe Paling, 4450 Beaumont Rd, PSM Agronomy Farm

## Michigan State University, Lansing, MI 48910. Email: paling@msu.edu, Cell: 517-242-4155.