2023 Red and White Clover and Annual Lespedeza Report

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Introduction

Red clover (Trifolium pratense L.) is a high-quality, short-lived, perennial legume used in mixed or pure stands for pasture, hay, silage, green chop, soil improvement, and wildlife habitat. This species is adapted to a wide range of climatic and soil conditions. Stands of improved varieties generally are productive for 2½ to 3 years, with the highest yields occurring in the year following establishment. Red clover is used primarily as a renovation legume for grass pastures and hay fields. It is a dominant forage legume in Kentucky because it is relatively easy to establish and has high forage quality, yield, and animal acceptance.

White clover (Trifolium repens L.) is a low-growing, perennial pasture legume with white flowers. It differs from red clover in that the stems (stolons) grow along the surface of the soil and can form adventitious roots that lead to the development of new plants. Three types of white clover grow in Kentucky: Dutch, intermediate, and ladino. Dutch white clover, sometimes called “common,” naturally occurs in many Kentucky pastures and even lawns. It is generally long lived and reseeds readily, but its small leaves and low growth habit result in low forage yield. The intermediate type is a cross between ladino and Dutch white clover and has been developed to give higher yields than the Dutch type and to persist better than the ladino type under frequent or continuous grazing conditions. Ladino white clover has larger leaves and taller growth than the intermediate and Dutch types and is the highest yielding of the three white clover varieties but requires rotational grazing to maintain stands. Information on the grazing tolerance of white clover varieties can be found in the 2023 Alfalfa, Red Clover and White Clover Grazing Tolerance Report (PR-842).

Annual lespedezas used for forage in the South consist of two species (striate lespedezas and Korean lespedezas) that were introduced from Korea and Japan. Striate lespedeza is commonly referred to simply by the variety names “Kobe” or “Marion.” They are adapted to a wide range of soils and fertility levels and are used in pasture mixtures to provide good quality grazing from late spring until fall. Annual lespedezas can be cut for hay, but yields are relatively low. High levels of fertility will result in the lespedezas being crowded out by other forage species. Advantages—productive during summer months, tolerates soil acidity and low fertility, naturally reseeds itself, is fine stemmed and nonbloating. Disadvantages—short growing season, low quality after frost or if it matures, low yielding, must set seed each year to persist, may fail to reseed if overgrazed, autumn semi-early frost occurs.

Yield and persistence of red and white clover varieties are dependent on environment and pressure from diseases and insects. The most common red clover diseases in Kentucky are southern anthracnose, powdery mildew, sclerotinia crown rot, and root rots. For white clover, the most common pests are stolon rots, root rots, and potato leafhoppers. High yield and persistence (as measured

Table 1. Temperature and rainfall at Lexington, Kentucky, in 2022 and 2023.

<table>
<thead>
<tr>
<th></th>
<th>Temperature</th>
<th>Rainfall</th>
</tr>
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<td>DEP</td>
</tr>
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<td>FEB</td>
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<td>+3</td>
</tr>
<tr>
<td>MAR</td>
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<td>+5</td>
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<tr>
<td>APR</td>
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</tr>
<tr>
<td>MAY</td>
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<td>Total</td>
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1DEP is departure from the long-term average. 22023 data is for the ten months through October.

Table 2. Temperature and rainfall at Princeton, Kentucky, in 2023.

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<td>0</td>
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<tr>
<td>JUN</td>
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<td>-3</td>
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<tr>
<td>JUL</td>
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<td>AUG</td>
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<td>-1</td>
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<td>OCT</td>
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<td>NOV</td>
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<tr>
<td>DEC</td>
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</tr>
</tbody>
</table>

1DEP is departure from the long-term average. 22023 data is for the ten months through October.

Table 3. Temperature and rainfall at Quicksand, Kentucky, in 2023.

<table>
<thead>
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<th>Temperature</th>
<th>Rainfall</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>°F</td>
<td>DEP</td>
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<tr>
<td>JAN</td>
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<td>AUG</td>
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<td>OCT</td>
<td>57</td>
<td>3</td>
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<td>NOV</td>
<td></td>
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<tr>
<td>DEC</td>
<td></td>
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<tr>
<td>Total</td>
<td></td>
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</tr>
</tbody>
</table>

1DEP is departure from the long-term average. 22023 data is for the ten months through October.
by percent stand) are two indications that a specific red or white clover variety is resistant to or tolerant of these pests when grown in Kentucky.

This report provides current yield and persistence data on red and white clover varieties included in yield trials in Kentucky as well as guidelines for selecting clover varieties. Tables 11 and 12 show a summary of all clover varieties tested in Kentucky for the past 16 years. The UK Forage Extension website (https://forages.ca.uky.edu) contains electronic versions of all forage variety testing reports from Kentucky and surrounding states and a large number of other forage publications.

**Important Selection Considerations**

**Local adaptation and persistence.** The variety should be adapted to Kentucky as indicated by superior performance across years and locations in replicated yield trials such as those reported in this publication. High-yielding varieties are generally also those varieties that are the most persistent. Improved red clover generally produces measurable yields for 2½ to 3 years, with the year of establishment considered as the first year. The highest yields occur in the year following establishment. White clover may persist longer than red clover, particularly in wet seasons, and has the ability to reseed even under grazing.

**Seed quality.** Buy premium-quality seed that is high in germination and purity and free from weed seed. Buy certified seed or proprietary seed of an improved variety. An improved variety is one that has performed well in independent trials, such as those reported in this publication. Other information on the label will include the test date (which must be within the previous nine months), the level of germination, and percentage of other crop and weed seed. Order seed well in advance of planting time to assure that it will be available when needed.

**Description of the Tests**

This report summarizes clover studies at Lexington (one in 2022 and two in 2023). The soil at Lexington (Maury) is a well-drained silt loam. All are well-suited to clover production. Plots were 5 feet by 20 feet in a randomized complete block design with four replications with a harvested plot area of 5 feet by 15 feet.

Seedings were made at 12 pounds per acre for red clover and 3 pounds per acre for white clover into a prepared seedbed using a disk drill. The first cutting in the seedling year was delayed to allow the clover to completely reach maturity as indicated by full bloom, which generally occurs about 60 to 90 days after seeding. Otherwise, harvests were taken when the clover was in the bud to early flower stage using a sickle-type forage plot harvester. Fresh weight samples were taken at each harvest to calculate percent dry matter production. All tests for establishment, fertility (P, K, and lime based on regular soil tests), and harvest management were managed according to University of Kentucky Cooperative Extension Service recommendations. Weeds were controlled to avoid limiting production and persistence.

**Results and Discussion**

Weather data for Lexington, Princeton, and Quicksand are presented in tables 1 through 3.

Yield data (on a dry matter basis) are presented in tables 4 through 8. Yields are given by cutting date for 2023 and as total annual production. Varieties are listed in order from highest to lowest total production (for the life of the test). Experimental varieties are listed separately at the bottom of the tables and are not available commercially.

Statistical analyses were performed on all clover data (including experimental varieties) to determine whether the apparent differences are truly due to variety. Prior to analysis, data were tested for normality and homogeneity of variances using the F test. If the F test was significant, a square root transformation was applied to the data. Data were analyzed using the ANOVA procedure of SAS. Multiple range tests (LSD) were performed to determine if the differences between means (LSD) were statistically different at the 5% level. Chebychev’s inequality provides an upper bound for the probability that a given random variable will take on a value outside the interval of the mean ± 1 standard deviation. The probability of the true mean being within the interval of the mean ± 1 standard deviation is at least 2/3. Statistical analyses were performed on all clover data (including experimental varieties) to determine whether the apparent differences are truly due to variety. Varieties not significantly different from the top variety within a column are marked with one asterisk (*). To determine if two varieties are truly different, compare the difference between the two varieties with the least significant difference (LSD) at the bottom of the column. If the difference is equal to or greater than the LSD, the varieties are truly different when grown under the conditions at a given location. The coefficient of variation (CV), which is a measure of the variability of the data, is included for each column of means. Low variability is desirable, and increased variability within a study results in higher CVs and larger LSDs.

Certified Kenland continues to rank near the top of tests. It is important to note yield differences between certified and uncertified Kenland red clover. Most Kenland offered for sale is uncertified and is likely common or VNS seed falsely advertised as Kenland. Our tests show uncertified Kenland is significantly lower in yield than certified Kenland. White clover varieties, as managed in these trials, yielded less than most red clover varieties but were more persistent. Again, certified seed of improved varieties is recommended.

In addition to the commercially available varieties and experimental lines, selected “common” red clovers are included in the variety tests for comparison. Common red clover, generally sold as “medium red clover variety unknown,” is unimproved red clover with unknown performance. Several years of testing show only about one out of every 10 common red clovers is as productive as certified or proprietary red clovers. In Kentucky, the average yield advantage of seeding improved red clover varieties compared to common types is 3 tons to 6 tons higher of dry matter/acre over the life of the stand.

Tables 9 and 10 show information about proprietors/distributors for all clover varieties included in the tests discussed in this report. Varieties are listed in alphabetical order, with the experimental varieties at the bottom. Experimental varieties are not available for farm use, but commercial varieties can be purchased from dealerships. Look at data from several years and locations when choosing a variety of clover rather than results from one test year, as is reported in tables 4 through 6. Make sure seed of the variety selected is properly labeled and will be available when needed.
How to Interpret the Summary Tables

Tables 11 and 12 are summaries of yield data from 2001 to 2023 of commercial varieties that have been entered in the Kentucky trials. The data is listed as a percentage of the mean of the commercial varieties entered in each specific trial. In other words, the mean for each trial is 100 percent—varieties with percentages over 100 yielded better than average, and varieties with percentages less than 100 yielded lower than average. Direct, statistical comparisons of varieties cannot be made using the summary tables 11 and 12, but these comparisons do help to identify varieties for further consideration. Varieties that have performed better than average over many years and at several locations have stable performance; others may have performed well in wet years or on particular soil types. These details may influence variety choice, and the information can be found in the yearly reports. See the footnotes in tables 11 and 12 to determine which yearly report should be referenced.

Summary

Red and white clovers can be productive components of pasture and hayfields. Choose varieties with proven performance in yield and persistence.

The following College of Agriculture publications related to the establishment, management, and harvesting of clover are available at local county Extension offices and are listed in the “Publications” section of the UK Forage website (https://forages.ca.uky.edu):

- Lime and Fertilizer Recommendations (AGR-1)
- Producing Red Clover Seed in Kentucky (AGR-2)
- Grain, Forage, and Cover Crop Guide for Kentucky (AGR-18)
- Renovating Hay and Pasture Fields (AGR-26)
- Growing Red Clover in Kentucky (AGR-33)
- Establishing Forage Crops (AGR-64)
- Inoculation of Forage Legumes (AGR-90)
- Growing White Clover in Kentucky (AGR-93)
- Weed Control Strategies for Alfalfa and Other Forage Legume Crops (AGR-148)
- Frost Seeding Clover: A Recipe for Success (AGR-271)
- Insect Management Recommendations for Field Crops and Livestock (ENT-17)
- Managing Legume-Induced Bloat in Cattle (ID-186)
- Kentucky Legume-Induced Bloat Management Guide (PPA-AG-F-04)

Table 4. Dry matter yields, seedling vigor, and stand persistence of red clover varieties sown April 4, 2022, at Lexington, Kentucky.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Seedling Vigor May 25, 2022</th>
<th>Percent Stand 2022</th>
<th>Yields (tons/acre)</th>
<th>2023 Yields (tons/acre)</th>
<th>2-year Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Seedling Vigor May 25, 2022</td>
<td>May 25</td>
<td>Sep 22</td>
<td>Mar 9</td>
<td>Oct 4</td>
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<tr>
<td>Freedom</td>
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<td>97</td>
<td>96</td>
<td>97</td>
<td>95</td>
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<tr>
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<td>96</td>
<td>94</td>
<td>64</td>
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<td>Common O</td>
<td>4.1</td>
<td>98</td>
<td>96</td>
<td>94</td>
<td>8</td>
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</table>
| Commercial Varieties Available for Farm Use

- Freedom
- Gallant
- Kenland
- SOW03RCG
- GA9908
- Blaze
- Common O

Experimental Varieties

- 20-LA-RC-1
- BARTP10
- CW040040
- ITP12
- RC08
- BARTP23
- BY-RC31
- GA-RX5
- CW30091
- GATP1412
- BARTSRWR
- PSTCLVR98121
- PSTCLVR20825

Mean

- 3.4
- 89
- 89
- 89
- 6

CV%

- 21.8
- 7
- 6
- 6
- 28

LSD,0.05

- 1.1
- 9
- 7
- 8
- 25

*Vigor score based on a scale of 1 to 5 with 5 being the most vigorous seedling growth.

Not significantly different from the highest numerical value in the column, based on the 0.05 LSD.
Table 5. Dry matter yields, seedling vigor, and stand persistence of red clover varieties sown April 4, 2023, at Lexington, Kentucky.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Seedling Vigor</th>
<th>Percent Stand</th>
<th>Yield (tons/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>May 16, 2023</td>
<td>Oct 4, 2023</td>
<td>Jun 29, 2023, 2023</td>
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<tr>
<td></td>
<td>May 16</td>
<td>Oct 4</td>
<td>Jul 6</td>
</tr>
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<td>Commercial Varieties-Available for Farm Use</td>
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<td>98</td>
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<td>4</td>
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<tr>
<td>LSD,0.05</td>
<td>0.9</td>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>

1 Vigor score based on a scale of 1 to 5 with 5 being the most vigorous seedling growth.
2 Not significantly different from the highest numerical value in the column, based on the 0.05 LSD.

Table 6. Dry matter yields, seedling vigor, and stand persistence of white clover varieties sown April 4, 2023, at Lexington, Kentucky.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Seedling Vigor</th>
<th>Percent Stand</th>
<th>Yield (tons/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>May 16, 2023</td>
<td>May 16, 2023</td>
<td>May 16</td>
</tr>
<tr>
<td>Commercial Varieties-Available for Farm Use</td>
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<tr>
<td>Will</td>
<td>3.6</td>
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<td>Patriot</td>
<td>3.3</td>
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<td>Stamina</td>
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<td>Dusi</td>
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<td>Alice</td>
<td>3.5</td>
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<td>Apis</td>
<td>4.3</td>
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<td>99</td>
</tr>
<tr>
<td>Durana</td>
<td>3.6</td>
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<td>99</td>
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<tr>
<td>MarcoPolo</td>
<td>3.4</td>
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<td>100</td>
</tr>
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<td>Hebe</td>
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<td>98</td>
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<td>Edith</td>
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<td>GATR22024</td>
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<td>99</td>
<td>95</td>
</tr>
<tr>
<td>Mean</td>
<td>3.5</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>CV,%</td>
<td>20.2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>LSD,0.05</td>
<td>1.0</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Vigor score based on a scale of 1 to 5 with 5 being the most vigorous seedling growth.
2 Not significantly different from the highest numerical value in the column, based on the 0.05 LSD.
Table 7. Dry matter yields of annual lespedeza varieties sown May 31, 2023, at Princeton, Kentucky.

<table>
<thead>
<tr>
<th>Variety</th>
<th>KY Distributor</th>
<th>Yield (tons/acre) Aug 31</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legend+Korean-NI</td>
<td>No inoculant</td>
<td>1.73*</td>
</tr>
<tr>
<td>Korean-WF</td>
<td>Woodford Feed</td>
<td>1.67*</td>
</tr>
<tr>
<td>Korean-TS</td>
<td>Turner Seed</td>
<td>1.65*</td>
</tr>
<tr>
<td>Korean</td>
<td>Ramer Seed</td>
<td>1.63*</td>
</tr>
<tr>
<td>Legend+Korean-10#</td>
<td>–</td>
<td>1.58*</td>
</tr>
<tr>
<td>Kobe+Korean</td>
<td>Akridge Farm Supply</td>
<td>1.34*</td>
</tr>
<tr>
<td>Legend+Korean</td>
<td>Southeast Agriseeds</td>
<td>1.29</td>
</tr>
</tbody>
</table>

Mean: 1.55, CV, %: 16.74, LSD 0.05: 0.39

All were sown at 20 pounds/acre except for the one listed at 10 pounds. *Not significantly different from the highest numerical value in the column, based on the 0.05 LSD.

Table 8. Dry matter yields of annual lespedeza varieties sown April 12, 2023, at Quicksand, Kentucky.

<table>
<thead>
<tr>
<th>Variety</th>
<th>KY Distributor</th>
<th>Yield (tons/acre) Jul 1</th>
<th>Sep 6</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Korean-WF</td>
<td>Woodford Feed</td>
<td>1.96</td>
<td>1.75</td>
<td>3.71*</td>
</tr>
<tr>
<td>Korean-TS</td>
<td>Turner Seed</td>
<td>1.84</td>
<td>1.55</td>
<td>3.39*</td>
</tr>
<tr>
<td>Legend+Korean-NI</td>
<td>No inoculant</td>
<td>1.97</td>
<td>1.39</td>
<td>3.37*</td>
</tr>
<tr>
<td>Kobe+Korean</td>
<td>Akridge Farm Supply</td>
<td>1.67</td>
<td>1.35</td>
<td>3.02</td>
</tr>
<tr>
<td>Legend+Korean-10#</td>
<td>–</td>
<td>1.53</td>
<td>1.36</td>
<td>2.89</td>
</tr>
<tr>
<td>Korean</td>
<td>Ramer Seed</td>
<td>1.66</td>
<td>1.21</td>
<td>2.87</td>
</tr>
<tr>
<td>Legend+Korean</td>
<td>Southeast Agriseeds</td>
<td>1.50</td>
<td>1.24</td>
<td>2.74</td>
</tr>
</tbody>
</table>

Mean: 1.73, CV, %: 20.72, LSD 0.05: 0.53

All were sown at 20 pounds/acre except for the one listed at 10 pounds. *Not significantly different from the highest numerical value in the column, based on the 0.05 LSD.

Table 9. Proprietors of red clover varieties in current trials in Kentucky.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Proprietor/KY Distributor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barduro</td>
<td>Barenbrug USA</td>
</tr>
<tr>
<td>Blaze</td>
<td>Mountain View Seeds</td>
</tr>
<tr>
<td>Common O</td>
<td>Public</td>
</tr>
<tr>
<td>Dynamite</td>
<td>Grassland Oregon</td>
</tr>
<tr>
<td>Freedoml</td>
<td>Barenbrug USA</td>
</tr>
<tr>
<td>Gallant</td>
<td>Turner Seed</td>
</tr>
<tr>
<td>GA9908</td>
<td>Smith Seed</td>
</tr>
<tr>
<td>Kenland (certified)</td>
<td>KY Agric. Exp. Station</td>
</tr>
<tr>
<td>Q red clover</td>
<td>Grassland Oregon</td>
</tr>
<tr>
<td>Rustler</td>
<td>Orego Seeds</td>
</tr>
<tr>
<td>SS-0303RCG</td>
<td>Southern States</td>
</tr>
</tbody>
</table>

Experimental Varieties¹

| BARPT10 | Barenbrug USA |
| BARTPV23 | Barenbrug USA |
| BARTSRWR | Barenbrug USA |
| BY-RC31  | BrettYoungSeeds |
| CW040040 | Barenbrug USA |
| CW30091  | Barenbrug USA |
| IS-TP-12 | DLF Pickseed |
| GA-RXS   | Univ. of GA    |
| GATP1403 | Univ. of GA    |
| GATP1412 | Univ. of GA    |
| PSTCLR20825 | Calbeck Consulting |
| PSTCLR98121 | Calbeck Consulting |
| RC08     | Bailey Seed & Grain |
| SERC-V15 | Smith Seed     |
| 20-LA-RC-1 | Ampac Seed |

Experimental varieties are not available commercially, but provide an indication of the progress being made by forage breeding companies.

Table 10. Proprietors and clover type information of white clover varieties in current trials in Kentucky.

<table>
<thead>
<tr>
<th>Variety</th>
<th>KY Distributor</th>
<th>Yield (tons/acre) Jul 1</th>
<th>Sep 6</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alice</td>
<td>Intermediate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apis</td>
<td>Ladino</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cresendo</td>
<td>Ladino</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Durana</td>
<td>Intermediate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dusi</td>
<td>Ladino</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edith</td>
<td>Dutch White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hebe</td>
<td>Dutch White</td>
<td></td>
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<tr>
<td>Heslop</td>
<td>–</td>
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</tr>
<tr>
<td>Kakani</td>
<td>Ladino</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marco Polo</td>
<td>Intermediate</td>
<td>Smith Seed</td>
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<tr>
<td>Patriot</td>
<td>Intermediate</td>
<td>Pennington</td>
<td></td>
<td></td>
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<tr>
<td>RegalGraze</td>
<td>Ladino</td>
<td>Cal/West Seed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stamina</td>
<td>Intermediate</td>
<td>Mountain View Seeds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Will</td>
<td>Ladino</td>
<td>Allied Seed, L.L.C.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Experimental Varieties¹

| C26532 | Intermediate | Univ. of GA |
| CW9501 | Ladino       | Barenbrug USA |
| GATR21024 | Intermediate | Univ. of GA |
| GATR22024 | Intermediate | Univ. of GA |

Experimental varieties are not available commercially, but provide an indication of the progress being made by forage breeding companies.
Table 11. Summary of Kentucky red clover yield trials 2004-2023 (yield shown as a percentage of the mean of the named commercial varieties in the trial).

<table>
<thead>
<tr>
<th>Variety</th>
<th>Proprietor</th>
<th>Lexington</th>
<th>Princeton</th>
<th>Quicksand</th>
<th>EdenShale</th>
<th>Mean Error (Years)</th>
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<td>06 08 09</td>
<td>10 11 12</td>
<td>13 14 15</td>
<td>16 17 18 19 20</td>
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<td>3yr 2yr 3yr 2yr 3yr 3yr</td>
<td>3yr 2yr 3yr 2yr 3yr 3yr</td>
<td>3yr 2yr 3yr 2yr 3yr 3yr</td>
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<tr>
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<td>2yr 3yr 2yr 3yr 2yr 3yr</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>3yr 3yr 2yr 3yr 2yr 3yr</td>
<td>3yr 2yr 3yr 2yr 3yr 3yr</td>
<td>3yr 2yr 3yr 2yr 3yr 3yr</td>
<td>3yr 2yr 3yr 2yr 3yr 3yr</td>
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<tr>
<td>AA117ER</td>
<td>ABI Alfalfa</td>
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<td>87</td>
<td>92</td>
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<tr>
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<td>Barenbrug USA</td>
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<td>87</td>
<td>92</td>
<td>96(3)</td>
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<tr>
<td>Bearcat</td>
<td>Brett Young Seeds</td>
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<tr>
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<tr>
<td>Blaze</td>
<td>Mountain View Seeds</td>
<td>107</td>
<td>87</td>
<td>92</td>
<td>96(3)</td>
<td></td>
</tr>
<tr>
<td>Cinnamon Plus</td>
<td>Southern States</td>
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<tr>
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<td>Public</td>
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<tr>
<td>Dominion</td>
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<td>LaCrosse Seed</td>
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<td>Allied Seed</td>
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<td>Turner Seed</td>
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<td>Juliet</td>
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<tr>
<td>Kenland (cert.)</td>
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<td>97</td>
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<td>Kenton</td>
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<td>87</td>
<td>104(3)</td>
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<td>Kenway</td>
<td>KY Ag.Exp Sta.</td>
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<td>117</td>
<td>87</td>
<td>104(3)</td>
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<td>LS 9703</td>
<td>Lewis Seed</td>
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<td>Cal/West Seeds</td>
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<td>97</td>
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<tr>
<td>Plus II</td>
<td>Allied Seed</td>
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<td>97</td>
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<td>Quinequeli</td>
<td>Caudill Seed</td>
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<td>97</td>
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<td>Red Gold Plus</td>
<td>Turner Seed</td>
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<td>DLF Pickseed USA</td>
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<td>97</td>
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<td>ABI Alfalfa</td>
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<td>DLF Pickseed USA</td>
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<td>Robust</td>
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<td>Robust II</td>
<td>Seed Research of OR</td>
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<td>Robust III</td>
<td>Seed Research of OR</td>
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<td>Rocket</td>
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<td>97</td>
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<tr>
<td>Rustler</td>
<td>Oregro Seeds</td>
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<td>97</td>
<td>87</td>
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<td>Solid</td>
<td>Production Service</td>
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<td>SS-0303RCG</td>
<td>Southern States</td>
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<td>97</td>
<td>87</td>
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<tr>
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<td>Cal/West &amp; Ampac</td>
<td>101</td>
<td>97</td>
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<td>ABI Alfalfa</td>
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<td>Wildcat</td>
<td>Brett Young Seeds</td>
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<td>97</td>
<td>87</td>
<td>104(3)</td>
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</tr>
</tbody>
</table>

1 Year trial was established.
2 Use this summary table as a guide in making variety decisions, but refer to specific yearly reports to determine statistical differences in forage yield between varieties. To find actual yields, look in the yearly report for the final year of each specific trial. For example, the Lexington trial planted in the spring of 2010 was harvested three years, so the final report would be “2012 Red and White Clover Report” archived in the UK Forage website (https://forages.ca.uky.edu).
3 Mean only presented when respective variety was included in two or more trials.
4 Number of years of data.
Table 12. Summary of Kentucky white clover yield trials 2002-2023 (yield shown as a percentage of the mean of the commercial varieties in the trial).

<table>
<thead>
<tr>
<th>Variety</th>
<th>Type</th>
<th>Proprietor</th>
<th>Lexington</th>
<th>Princeton</th>
<th>Mean† (trials)</th>
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<tr>
<td>Advantage</td>
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<td>Allied Seed, L.L.C.</td>
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<td>Intermediate</td>
<td>Barenbrug USA</td>
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<tr>
<td>Apis</td>
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<td>Smith Seed Services</td>
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<td>Avoca</td>
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<td>DLF Pickseed</td>
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<td>Barblanca</td>
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1 Year trial was established.
2 Use this summary table as a guide in making variety decisions, but refer to specific yearly reports to determine statistical differences in forage yield between varieties. To find actual yields, look in the yearly report for the final year of each specific trial. For example, the Lexington trial planted in the spring of 2010 was harvested three years, so the final report would be “2012 Red and White Clover Report” archived in the UK Forage website (https://forages.ca.uky.edu).
3 Mean only presented when respective variety was included in two or more trials.
4 Number of years of data.
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