

**ONIONS FOR WINDOWS  
1995**

An Onion Variety Introduction Program

The Texas Agricultural Experiment Station  
The Texas Agricultural Extension Service  
Texas A&M University System

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### Definition

**"Onions For Windows" is a system which Texas A&M University horticulturists use to define market windows for Northwest Texas onions and introduce new onion cultivars which produce superior quality and yield for commercial growers within these market windows. Experiment Station research and Extension-Grower demonstrations are conducted to reach these objectives.**

### Summary

A market window for onion occurs when f.o.b. prices are above grower break-even price for a period of four to six weeks. Market windows were calculated to occur from late June to early August and from early October through December for Northwest Texas onions. Five-year average prices ranged from \$6.25 to \$7.40 (1990-1994) and a break-even price of \$5.38/50-lb. sack was calculated from an analysis of total costs of production and marketing and historic yields. Ongoing research and grower demonstrations with advanced breeding lines, commercial cultivars, and selections from yellow, white, and red cultivars have defined certain varieties which display superior attributes and mature within the market window. Superior varieties adapted to the first market window include: XPH-87N60, Sunre 1445, Sunre 1462, Yula, Spano, Cimarron, Riviera, Utopia, and Alabaster. Superior varieties adapted to the second market window include: Sweet Perfection, Sterling, Vega, Bravo, Capri, Vaquero, El Charro, Quest, Shasta, and Vision. Vaquero, Sunre 1462, Sunre 1445, El Charro, and Viceroy have potential for short-term storage for October to December markets.

### Background

Average 5-year yellow onion prices ranged from near \$6.25 from late June through early August and increased from \$5.75 in early October to \$7.40 by mid December. During the Northwest Texas market window, white onion prices quoted in the Packer have been higher and red onion prices much higher than the historical 5-year average-by-month onion prices published by NASS. However, in July-August 1995 supplies of white onions were high enough to result in f.o.b. prices not much higher those paid for yellow onions. High quality dark red onions continue to bring premium prices throughout our market windows.

Break-even prices for mechanically transplanted onions on the Texas High Plains were estimated to be as follows:

| Yield     | Break-even Price per 50-lb. Sack |
|-----------|----------------------------------|
| 640 sacks | \$5.65                           |
| 720 sacks | 5.50                             |
| 800 sacks | 5.38                             |
| 880 sacks | 5.28                             |
| 960 sacks | 5.20                             |

Production and marketing costs vary with acreage, yields, and marketing methods. Marketing costs vary from grower to grower. Growers are encouraged to calculate costs unique to their situation.

### Methods

Methods used for the on-Station replicated direct-seeded and transplanted variety research plots (outlined on page 4) and the transplanted demonstration plots at Jones Produce, Inc. were similar. A 8-row Holland articulated transplanter powered by a hydrostatic, 4-wheel drive John Deere

was used to plant both locations. Spacing was 2 rows 18 inches apart, centered on a 40-inch bed with plants 5 inches apart in the row for a plant population of 62,726 plants per acre. The Jones plots received a total of 150 lb. N and 50 lb. P per acre. Irrigation was on a 5 to 7-day schedule in April, on a 4 to 6-day interval in May and on a 4-day interval in June and July with allowance for rainfall. Rovral was applied twice for Botrytis control in Jones plots. Bulbs were harvested by undercutting with a tractor-drawn knife rig, allowing one day of dry down, cutting tops at least two inches from bulb shoulder and field drying in burlap bags for 2 days.

Numbers of tops down were recorded during July to establish maturation chronology, and succession of maturity for varieties. Bulbs were graded into 5 size categories and weighed. The direct-seeded bulb samples were stored and evaluated for storage potential on November 2.

### Discussion of Results

Varieties, seed companies, and color/day length class of each entry are listed on page 5.

On Station transplanted variety yields and bulb sizes are found on page 6, and transplanted varieties Tops Down table is on page 7. The top yield category in **on-station transplants** included 14 varieties that yielded over 700 sacks/acre. Those **over 800 sacks:** El Charro, XPH 87N60, and Quest; **over 760:** Sunre 1445, Ole', Vaquero, Shasta, HM94CO014, and Vision; **over 700:** Yula, Seville, Capri, Spano, and Viceroy. Finally, **over 650:** AX-1514, Madrid, Cimarron, Riviera, Utopia, and Sweet Perfection. Great variability in yield caused by hail damage rendered separation of variety differences by analysis of variance unproductive. **Intermediate-day hybrids:** Yula and Spano yielded over 700 sacks and were 50% down by July 20, and July 13, respectively. Cimarron (mature by 7/5), Riviera (mature by 7/20), and Utopia (mature by 7/15) produced over 650 sacks/acre. A new **intermediate-day white** Alabaster was 50% down by July 5. Sunre 1462 (red), a new **intermediate-day red** was 50% down by July 17, and could have been taken earlier by careful undercutting of roots.

**On-Station direct-seeded** plots (table on page 8) yielded higher than the transplants because they were younger when hail hit and recovered better.

In **over 900 sacks:** El Charro topped 1024 sacks, Seville made 996 and AX-1514 at 898 in the top range; **over 725:** Sunre 1445, Quest, Vaquero, Riviera, Ole', Madrid, and Capri; **over 600:** Utopia, Yula, Shasta, Sterling, Viceroy, Cimarron, Alabaster, Sunre 1462, Vision and Spano. **Intermediate-day hybrids from seed made Jumbo and larger:** Riviera = 70%, Utopia = 48%, Yula = 49%, Cimarron = 48%, Alabaster = 50%, Sunre 1462 (red) = 38%, Spano = 50%.

At **Jones Produce-Transplanted plots**, (table on page 8) producing **over 900 sacks were:** Quest, Vaquero, Capri, Sterling, and Sweet Perfection; **over 800:** Sunre 1445, Vision, Yula, Ole', Riviera, and Shasta; **over 700:** HM94CO014, Seville, Spano, El Charro, and Viceroy. Bulb shapes are on page 10. **Intermediate-day hybrids produced size** Sunre 1462 (red) = 47% Jumbo or larger; Alabaster = 54%; Yula = 82%; Spano = 92%; Utopia = 47%; Cimarron = 64%; and Riviera = 83%. Maturities, indicated by 50% tops down were: Alabaster = 7/7, Cimarron = 7/7, Spano = 7/5, Sunre 1462 = 7/20, Riviera = 7/20 or later, Yula = 7/20 or later, and Utopia = 7/18 or later.

**Storage qualities** of varieties varied, as discussed on pages 11 and 12.

**Short term potential** was evident for: Sunre 1462, Utopia, Shasta, Vaquero, El Charro, Viceroy, Alabaster, Cimarron, Sunre 1445, Spano, and Riviera.

Sunre 1462, Vaquero, and Sunre 1445 showed potential for storage up to several months. Storage details on pages 11, 12. Center rot can be prevented by timely harvest after careful undercutting and by either leaving tops on or topping to no closer than two inches from the bulb shoulder.

## **1995 Onion Variety Trial**

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|                          |  |
|--------------------------|--|
| Greenhouse seeding date: | I February   |
| Field seeding date:      | 21 March   |
| Transplant date:         | 3 April  |
| Fertilization:           | 400 lb 16-20-0 preplant<br>3 0 lb N in irrigation water on II May, 5 June and I July |
| Herbicide:               | Prowl 0.75 pt/A PPI<br>Goal 0.75 pt/A on 18 May                                      |
| Irrigation:              | Drip irrigation based on tensiometers  |
| Plots:                   | I bed (40" centers) X 13 ft  |
| Experimental design:     | Randomized complete block with 3 replications  |
| Insecticide:             | Karate 0.01 lb ai/A for thrips   |
| Treatment dates:         | 7 and 21 June  |

### **Weather**

Temperatures were near normal during the 1995 growing season (Figure 1). As usual, fluctuations were greater in the spring, with more stable conditions during the summer months. Rainfall was well below normal, with only 5.58 inches falling between I April and 31 July. A moderate hail on 2 June tattered foliage during early bulbing, resulting in yield loss and leaving the plants susceptible to disease. Botrytis blight subsequently appeared, but was controlled fairly well with fungicides.

## *1995 Onion Variety Trial & Demonstration*

Texas A&M Research and Extension Center, Lubbock, Texas  
and  
Jones Produce, Inc., Lubbock, Texas

| Trial    | Variety          | Seed Company             | Description                |
|----------|------------------|--------------------------|----------------------------|
| 1        | Capri            | Aristogenes              | Yellow, Long Day           |
| 2        | Seville          | Aristogenes              | Yellow, Long Day           |
| 3        | Madrid           | Aristogenes              | Yellow, Long Day           |
| 4        | AX-1514          | Aristogenes              | Yellow, Long Day           |
| 5        | Ole'             | Abbott & Cobb            | Yellow, Long Day           |
| 6        | El Charro        | Abbott & Cobb            | Yellow, Long Day           |
| 7        | Fury             | Asgrow                   | Yellow, Long Day 8         |
| Viceroy  | Asgrow           | Yellow, Long Day         |                            |
| 9        | Utopia           | Asgrow                   | Yellow, Long Day           |
| 10       | Riviera          | Asgrow                   | Yellow, Intermediate Day   |
| 11       | Yula             | Asgrow                   | Yellow, Intermediate Day   |
| 12       | HM94C0014        | Harris-Moran             | Yellow, Intermediate Day   |
| 13       | White Delite A   | Crookham                 | White, Long Day            |
| 14       | Sweet Perfection | Crookham                 | Yellow, Long Day           |
| 15       | XPH 87N60        | Crookham                 | Yellow, Intermediate Day   |
| 16       | Spano            | Sunseeds                 | Yellow, Intermediate Day   |
| 17       | Vaquero          | Sunseeds                 | Yellow, Intermediate Day   |
| 18       | Sunre 1462       | Sunseeds                 | Red, Intermediate Day      |
| 19       | Sunre 1445       | Sunseeds                 | Yellow, Long Day           |
| 20       | Alabaster        | Sunseeds                 | White, Intermediate Day 21 |
| Cimarron | Sunseeds         | Yellow, Intermediate Day |                            |
| 22       | Quest            | Peto                     | Yellow, Long Day           |
| 23       | Sterling         | Peto                     | White, Long Day            |

|    |          |      |                  |
|----|----------|------|------------------|
| 24 | Vision   | Peto | Yellow, Long Day |
| 25 | Blizzard | Peto | White, Long Day  |
| 26 | Shasta   | Peto | Yellow, Long Day |

### *1995 Transplanted Onion Varieties*

| No | Variety      | Bulbs<br>per plot | Percentage of bulbs |          |          |          |       |       | Yield (sacks/IA) |            |       |
|----|--------------|-------------------|---------------------|----------|----------|----------|-------|-------|------------------|------------|-------|
|    |              |                   | <2.5'               | 2.5-3.0" | 3.0-3.5" | 3.5-4.0" | >4.0" | Split | Rot              | Marketable | Total |
| 6  | El Charro    | 57                | 2                   | 10       | 39       | 45       | 3     | 0     | 2                | 866 a      | 886   |
| 15 | Xph87N60     | 58                | 2                   | 12       | 43       | 38       | 4     | 1     | 1                | 865 a      | 879   |
| 22 | Quest        | 61                | 1                   | 9        | 57       | 31       | 0     | 0     | 2                | 805 ab     | 813   |
| 19 | Sunre 1445   | 59                | 3                   | 13       | 54       | 29       | 2     | 0     | 0                | 799 ab     | 799   |
| 5  | Ole          | 58                | 1                   | 7        | 33       | 42       | 2     | 0     | 15               | 786 ab     | 892   |
| 17 | Vaquero      | 61                | 3                   | 19       | 54       | 20       | 3     | 0     | 1                | 781 a-c    | 786   |
| 26 | Shasta       | 57                | 5                   | 17       | 54       | 22       | 2     | 0     | 0                | 766 a-c    | 766   |
| 12 | HM94CO014    | 59                | 8                   | 18       | 46       | 26       | 1     | 1     | 1                | 762 a-c    | 774   |
| 24 | Vision       | 60                | 4                   | 17       | 53       | 20       | 3     | 0     | 3                | 760 a-c    | 785   |
| 11 | Yula         | 60                | 8                   | 14       | 46       | 28       | 3     | 0     | 1                | 734 a-c    | 736   |
| 2  | Seville      | 59                | 2                   | 14       | 41       | 29       | 2     | 0     | 12               | 734 a-c    | 845   |
| 1  | Capri        | 54                | 5                   | 16       | 42       | 29       | 4     | 0     | 4                | 730 a-c    | 766   |
| 16 | Spano        | 59                | 6                   | 19       | 48       | 24       | 3     | 0     | 0                | 722 a-d    | 722   |
| 8  | Viceroy      | 59                | 7                   | 24       | 52       | 16       | 0     | 1     | 0                | 703 a-e    | 709   |
| 4  | AX-1 514     | 56                | 6                   | 12       | 36       | 31       | 3     | 0     | 11               | 694 b-e    | 769   |
| 3  | Madrid       | 59                | 5                   | 10       | 47       | 24       | 2     | 1     | 11               | 693 b-e    | 809   |
| 21 | Cimarron     | 56                | 2                   | 21       | 57       | 18       | 1     | 0     | 2                | 688 b-e    | 698   |
| 10 | Riviera      | 57                | 6                   | 17       | 48       | 27       | 1     | 0     | 1                | 680 b-e    | 682   |
| 9  | Utopia       | 58                | 5                   | 20       | 49       | 26       | 1     | 0     | 0                | 665 b-e    | 665   |
| 14 | Sweet Perfe  | 57                | 5                   | 19       | 49       | 16       | 0     | 1     | 10               | 656 b-e    | 734   |
| 25 | Blizzard     | 54                | 3                   | 19       | 42       | 21       | 2     | 0     | 13               | 615 c-e    | 687   |
| 23 | Sterling     | 57                | 11                  | 13       | 35       | 21       | 1     | 0     | 20               | 554 d-g    | 687   |
| 18 | Sunre 1462   | 59                | 8                   | 42       | 46       | 3        | 0     | 0     | 1                | 539 e-g    | 541   |
| 20 | Alabaster    | 58                | 11                  | 36       | 46       | 6        | 0     | 0     | 1                | 537 e-g    | 540   |
| 13 | White Delite | 55                | 7                   | 46       | 31       | 5        | 0     | 3     | 9                | 470 fg     | 518   |
| 7  | Fury         | 57                | 35                  | 44       | 16       | 2        | 0     | 1     | 3                | 412-g      | 428   |

## 1995 Transplanted Onion Varieties Tops Down -- Sorted by Maturities

Percentage of Tops Down

July

| No. | Variety          | July |    |    |    |    |    |    |    |    |  |
|-----|------------------|------|----|----|----|----|----|----|----|----|--|
|     |                  | 3    | 5  | 7  | 11 | 13 | 14 | 17 | 19 | 22 |  |
| 21  | Cimarron         | 32   | 57 | 62 | 65 | 82 | 82 | 87 | 76 | 95 |  |
| 20  | Alabaster        | 22   | 41 | 52 | 53 | 68 | 68 | 82 | 79 | 93 |  |
| 16  | Spano            | 12   | 35 | 43 | 45 | 54 | 54 | 84 | 90 | 93 |  |
| 9   | Utopia           | 6    | 21 | 26 | 26 | 44 | 44 | 66 | 78 | 86 |  |
| 18  | Sunre 1462       | 5    | 14 | 17 | 20 | 34 | 34 | 54 | 80 | 83 |  |
| 15  | Xph 87N60        | 0    | 1  | 1  | 4  | 17 | 17 | 29 | 47 | 67 |  |
| 11  | Yula             | 2    | 4  | 4  | 5  | 15 | 15 | 30 | 49 | 63 |  |
| 10  | Riviera          | 0    | 2  | 3  | 5  | 12 | 12 | 27 | 35 | 52 |  |
| 19  | Sunre 1445       | 0    | 0  | 0  | 0  | 0  | 0  | 7  | 13 | 45 |  |
| 17  | Vaquero          | 0    | 0  | 0  | 0  | 1  | 1  | 5  | 10 | 40 |  |
| 24  | Vision           | 3    | 10 | 13 | 13 | 19 | 19 | 28 | 30 | 37 |  |
| 26  | Shasta           | 0    | 1  | 1  | 1  | 2  | 2  | 4  | 10 | 24 |  |
| 12  | HM94CO01         | 4    | 0  | 0  | 0  | 0  | 1  | 1  | 4  | 20 |  |
| 7   | Fury             | 0    | 0  | 0  | 1  | 2  | 2  | 7  | 10 | 17 |  |
| 22  | Quest            | 0    | 0  | 0  | 0  | 2  | 2  | 3  | 7  | 16 |  |
| 14  | Sweet Perfection | 0    | 0  | 0  | 1  | 4  | 2  | 4  | 7  | 13 |  |
| 8   | Viceroy          | 0    | 0  | 0  | 0  | 0  | 0  | 1  | 3  | 8  |  |
| 25  | Blizzard         | 0    | 0  | 0  | 0  | 0  | 0  | 1  | 2  | 7  |  |
| 23  | Sterling         | 0    | 0  | 0  | 0  | 1  | 1  | 1  | 2  | 6  |  |
| 13  | White Delite A   | 0    | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 4  |  |
| 6   | El Charro        | 0    | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 4  |  |
| 4   | AX-1 514         | 0    | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 2  |  |
| 2   | Seville          | 0    | 0  | 0  | 1  | 1  | 1  | 1  | 2  | 2  |  |
| 3   | Madrid           | 0    | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 1  |  |
| 5   | Ole'             | 0    | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |  |
| 1   | Capri            | 0    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 0  |  |

**1995 Direct Seeded Onion Varieties**

| No | Variety          | Percentage of bulbs |          |          |          |       | Split | Rot | Yield<br>(sacks) | Bulbs<br>per |
|----|------------------|---------------------|----------|----------|----------|-------|-------|-----|------------------|--------------|
|    |                  | <2.5"               | 2.5-3.0" | 3.0-3.5" | 3.5-4.0" | >4.0" |       |     |                  |              |
| 6  | El Charro        | 10                  | 19       | 35       | 34       | 2     | 0     | 0   | 21024 a          | 76           |
| 2  | Seville          | 10                  | 21       | 38       | 29       | 1     | 1     | 0   | 996 a            | 78           |
| 4  | AX- 1 514        | 11                  | 16       | 43       | 26       | 3     | 3     | 0   | 898 ab           | 71           |
| 19 | Sunre 1445       | 20                  | 24       | 45       | 10       | 0     | 0     | 0   | 807 bc           | 81           |
| 22 | Quest            | 14                  | 19       | 52       | 16       | 0     | 0     | 0   | 801 bc           | 71           |
| 17 | Vaquero          | 17                  | 22       | 29       | 31       | 1     | 1     | 1   | 784 bc           | 66           |
| 10 | Riviera          | 12                  | 18       | 45       | 25       | 0     | 0     | 0   | 779 b-d          | 70           |
| 5  | Ole'             | 27                  | 14       | 37       | 22       | 0     | 0     | 1   | 730 b-d          | 68           |
| 3  | Madrid           | 23                  | 25       | 27       | 25       | 1     | 0     | 0   | 729 b-d          | 68           |
| 1  | Capri            | 20                  | 27       | 37       | 15       | 0     | 0     | 2   | 726 b-d          | 70           |
| 14 | Sweet Perfection | 18                  | 24       | 38       | 19       | 1     | 3     | 5   | 712cd            | 63           |
| 9  | Utopia           | 21                  | 30       | 32       | 14       | 2     | 1     | 2   | 674 c-e          | 69           |
| 11 | Yula             | 28                  | 23       | 34       | 15       | 0     | 3     | 0   | 670 c-e          | 73           |
| 26 | Shasta           | 29                  | 40       | 27       | 4        | 0     | 0     | 0   | 659 c-e          | 78           |
| 23 | Sterling         | 18                  | 21       | 42       | 19       | 1     | 0     | 1   | 654 c-e          | 66           |
| 8  | Viceroy          | 21                  | 37       | 38       | 4        | 0     | 0     | 3   | 651 c-e          | 71           |
| 21 | Cimarron         | 24                  | 27       | 37       | 11       | 0     | 0     | 0   | 649 c-e          | 73           |
| 20 | Alabaster        | 18                  | 31       | 39       | 11       | 0     | 0     | 0   | 647 c-f          | 70           |
| 18 | Sunre 1462       | 24                  | 37       | 33       | 5        | 0     | 0     | 1   | 641 c-f          | 78           |
| 24 | Vision           | 26                  | 23       | 45       | 6        | 0     | 1     | 1   | 627 c-f          | 66           |
| 16 | Spano            | 26                  | 25       | 33       | 15       | 2     | 0     | 4   | 601 d-f          | 63           |
| 7  | Fury             | 41                  | 33       | 21       | 3        | 0     | 1     | 1   | 518 e-g          | 68           |
| 12 | HM94CO014        | 26                  | 26       | 37       | 11       | 0     | 2     | 1   | 501 e-g          | 68           |
| 25 | Blizzard         | 35                  | 27       | 32       | 7        | 0     | 0     | 0   | 467 f-g          | 56           |
| 13 | White Delite A   | 49                  | 30       | 17       | 4        | 0     | 5     | 4   | 403 gh           | 62           |
| 15 | Xph 87N60        | 4                   | 6        | 38       | 31       | 21    | 12    | 0   | 286 h            | 17           |

**1995 Jones Farm Onion Variety Demonstration --Yields (50# sacks/acre)**

\* 13 ft plots -- grams/plot X 0.0443223 = 50# sacks/A

| Variety          | Company | Harv.<br>Date | Total<br>Bulbs | Percentage of bulbs |          |          |          |        | Total<br>Yield |
|------------------|---------|---------------|----------------|---------------------|----------|----------|----------|--------|----------------|
|                  |         |               |                | <2.51'              | 2.5-3.0" | 3.0-3.5" | 3.5-4.0" | >.4.0" |                |
| Fury             | ASG     | 4-Aug         | 68             | 44                  | 34       | 22       | 0        | 0      | 434            |
| Sunre 1445       | SUN     | 4-Aug         | 62             | 8                   | 10       | 26       | 56       | 0      | 879            |
| HM94CO014        | HMO     | 4-Aug         | 68             | 15                  | 22       | 40       | 24       | 0      | 739            |
| Vision           | PET     | 4-Aug         | 63             | 3                   | 16       | 48       | 33       | 0      | 848            |
| Sunre 1462       | SUN     | 27-Jul        | 59             | 14                  | 39       | 37       | 10       | 0      | 518            |
| Alabaster        | SUN     | 27-Jul        | 67             | 9                   | 37       | 45       | 9        | 0      | 658            |
| AX-1 514         | ARI     | 4-Aug         | 59             | 17                  | 17       | 49       | 17       | 0      | 652            |
| Quest            | PET     | 4-Aug         | 64             | 6                   | 8        | 38       | 47       | 2      | 923            |
| Seville          | ARI     | 4-Aug         | 60             | 5                   | 17       | 35       | 43       | 0      | 799            |
| Yula             | ASG     | 4-Aug         | 67             | 1                   | 16       | 48       | 31       | 3      | 886            |
| Vaquero          | SUN     | 4-Aug         | 60             | 5                   | 10       | 37       | 40       | 8      | 900            |
| CapriARI         | 4-Aug   | 61            | 3              | 10                  | 34       | 48       | 5        | 905    |                |
| Spano            | SUN     | 27-Jul        | 57             | 0                   | 9        | 67       | 25       | 0      | 771            |
| Sterling         | PET     | 4-Aug         | 59             | 2                   | 7        | 31       | 53       | 8      | 973            |
| Ole'             | ACO     | 4-Aug         | 62             | 6                   | 23       | 27       | 40       | 3      | 824            |
| Utopia           | ASG     | 4-Aug         | 61             | 33                  | 23       | 41       | 3        | 0      | 493            |
| Madrid           | ARI     | 4-Aug         | 58             | 14                  | 24       | 43       | 19       | 0      | 658            |
| White Delite A   | CRO     | 4-Aug         | 59             | 36                  | 25       | 34       | 5        | 0      | 462            |
| El Charro        | ACO     | 4-Aug         | 68             | 6                   | 16       | 60       | 18       | 0      | 785            |
| Cimarron         | SUN     | 27-Jul        | 58             | 9                   | 28       | 52       | 12       | 0      | 637            |
| Sweet Perfection | CRO     | 4-Aug         | 76             | 7                   | 13       | 45       | 36       | 0      | 957            |
| Viceroy          | ASG     | 4-Aug         | 63             | 8                   | 29       | 44       | 19       | 0      | 730            |

|            |     |        |    |    |    |    |    |   |     |
|------------|-----|--------|----|----|----|----|----|---|-----|
| Sunre 1462 | SUN | 4-Aug  | 66 | 17 | 30 | 42 | 11 | 0 | 613 |
| Riviera    | ASG | 4-Aug  | 68 | 3  | 13 | 50 | 32 | 1 | 829 |
| Utopia     | ASG | 27-Jul | 68 | 9  | 43 | 35 | 13 | 0 | 641 |
| Shasta     | PET | 4-Aug  | 63 | 13 | 19 | 30 | 35 | 3 | 835 |

### 1995 Jones Farm Onion Variety Demonstration -- Bulb Shapes

| <u>Variety</u>   | <u>Date</u> | <u>Percent</u> |            |              | <u>Deep</u>  |                |
|------------------|-------------|----------------|------------|--------------|--------------|----------------|
|                  |             | <u>Flat</u>    | <u>Top</u> | <u>Globe</u> | <u>Globe</u> | <u>Torpedo</u> |
| Fury             | 4-Aug       | 8              | 29         | 48           | 11           | 5              |
| Sunre 1445       | 4-Aug       | 26             | 0          | 68           | 2            | 5              |
| Vision           | 4-Aug       | 42             | 2          | 50           | 6            | 0              |
| Quest            | 4-Aug       | 29             | 0          | 68           | 3            | 0              |
| Vaquero          | 4-Aug       | 46             | 0          | 49           | 3            | 2              |
| Madrid           | 4-Aug       | 17             | 7          | 55           | 12           | 9              |
| White Delite A   | 4-Aug       | 22             | 19         | 37           | 15           | 7              |
| El Charro        | 4-Aug       | 46             | 0          | 51           | 3            | 0              |
| Cimarron         | 27-Jul      | 8              | 5          | 63           | 22           | 2              |
| Spano            | 27-Jul      | 22             | 10         | 52           | 16           | 0              |
| Sunre 1462       | 4-Aug       | 43             | 49         | 3            | 0            | 4              |
| Viceroy          | 4-Aug       | 14             | 3          | 67           | 13           | 3              |
| Utopia           | 27-Jul      | 53             | 9          | 36           | 2            | 0              |
| Riviera          | 4-Aug       | 67             | 8          | 26           | 0            | 0              |
| Seville          | 4-Aug       | 42             | 2          | 54           | 2            | 0              |
| Sweet Perfection | 4-Aug       | 38             | 5          | 51           | 3            | 3              |

|            |        |    |    |    |    |   |
|------------|--------|----|----|----|----|---|
| Capri      | 4-Aug  | 53 | 5  | 38 | 2  | 2 |
| Sunre 1462 | 27-Jul | 32 | 47 | 19 | 2  | 0 |
| HM94CO014  | 4-Aug  | 43 | 3  | 40 | 9  | 5 |
| Utopia     | 4-Aug  | 48 | 0  | 51 | 2  | 0 |
| Ole'       | 4-Aug  | 43 | 2  | 50 | 0  | 5 |
| Sterling   | 4-Aug  | 51 | 0  | 47 | 2  | 0 |
| Alabaster  | 27-Jul | 33 | 9  | 47 | 11 | 0 |
| Yula       | 4-Aug  | 51 | 2  | 46 | 0  | 2 |
| Shasta     | 4-Aug  | 22 | 0  | 69 | 9  | 0 |
| AX-1514    | 4-Aug  | 44 | 2  | 53 | 0  | 2 |

POST HARVEST EVALUATION OF LONG DAY ONION CULTIVARS  
TEXAS A&M UNIVERSITY RESEARCH & EXTENSION CENTER  
LUBBOCK, TEXAS

Onion bulbs harvested from the direct-seeded planting were examined on November 2 to 7, 1995. The crop was planted on March 21, and harvested the first week of October after exposure to over 5 inches rainfall in September. The bulbs were fan dried with ambient air in sacks for 7 days and held in ambient air (minimum 65 degrees F.) until early November. This crop received a high degree of wet weather pressure after reaching maturity. Each bulb was examined for symptoms of decay. Necks of 20 bulbs of each variety were cut at bulb shoulder to determine whether or not neck had rotted down into bulb.

\* \* Sunre 1462 -- Red Intermediate; thin to medium neck\* \* \*; very little rot; good scale; dark red color outside; good scale retention; holding well (<5% center rot).

Sweet Perfection -- Yellow Long Day; thick-medium neck; variable size; >50% center rot.

\*Utopia -- Yellow Intermediate; bulbs flatter than transplant crop, more rot (20% center rot) than Riviera and Yula; thin to medium neck.

White Delight --White Long Day; medium neck; shoulders rot; >50% center rot.

8ON59 -- Yellow Long Day; medium to thick necks, variable color and size; 40% center rot.

AX- 1 514 -- Yellow Long Day; medium tight neck; 40% center rot.

Quest -- Yellow Long Day; medium tight neck; > 50%center rot.

Seville-- Yellow Long Day; thick neck; 30% center rot; hard shoulder.

Madrid -- Yellow Long Day; very thick neck; >50% center rot.

Sterling -- White Long Day; medium to thick neck; >50 % center rot.

Blizzard -- White Long Day; medium neck; >50% center rot.

Vision -- Yellow Long Day; medium-thick neck; >50% center rot.

\*Shasta -- Yellow Long Day; medium neck; good scale; 20% center rot.

\*\*Vaquero -- Yellow Long Day; small tight neck; holding well; very good scale retention (2 to 3dry scales intact) and good scale color in spite of rainy weather: 8 % center rot.

Ole' -- Yellow Long Day; thick neck; >50% center rot.

### **Onion Notes, 1995** -- page 2.

\*El Charro -- Yellow Long Day: medium to thin, good scale retention; tight neck; 10% center rot.

Fury -- Yellow Long Day; medium neck; 30% center rot.

\*Viceroy -- Yellow Long Day; medium thin, tight neck; 8% center rot.

\*Alabaster -- White Intermediate; few sprouting; tight small neck; fair scale retention; 12% center rot.

\*Cimarron -- Yellow Intermediate; flat (Bermuda-like shape) bulb; <5% center rot; some sprouts.

\*\*Sunre 1445 -- Yellow Long Day; tight thin-medium neck; no rot; no sprouting.

\*Yula -- Yellow Early Long Day; tight thin neck; 8% center rot.

HM94 -- Yellow Intermediate to Early Long Day; thick to medium neck; >50% center rot.

\*Spano -- Yellow Intermediate Day; thin neck; flatter shape than transplanted crop; some sprouting; 8% center rot.

\*Riviera -- Yellow Intermediate Day; rot; 10% sprouts; Refined thin neck; Flat to flat-round shape; quality holding well for early maturity variety; 8% center rot.

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\* = Has clear potential for direct seeded, short term storage production under drip or LEPA.

\*\* = Has clear potential for longer term storage if harvested when mature and before exposure to rainy weather.

\*\*\* = Neck diameter is measured at bulb shoulder: Thin neck is 2/8 to 3/8" diameter;

Medium neck is 3/8 to 4/8" diameter; Thick neck is >4/8" diameter.

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