

SUB CLOVER YIELD IN SONOMA COUNTY

Results

Sub clover yield for varieties was significantly different at the 5 percent level, the yield between dates was significantly different at the 1 percent level and the date X variety interaction was significantly different at the 5 percent level of probability. The yield of the variety Esperance was significantly different from the yield of Woogenellup and Howard at the 10 percent level of probability. There was no difference in the yield of Woogenellup and Howard. Northam had a higher but not significantly different yield than Nungarin and Geraldton. The yield of Mt. Barker was not different from that of Nangeela. Yarloop and Tríkallg yields were not significantly different from any of the other varieties. There was a significant difference between the yield of all the early varieties from all of the mid and late varieties at the 1 percent level of probability. The yield of the midseason varieties were not different from the yield of the late season varieties.

RECEIVED
APR 22 1981
AGRONOMY EXTENSION

VARIATIONS IN SUB-CLOVER VARIETIES

Presented at the
April 18, 1981
NBWGA Field Day - SRJC Farm

by

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COMPARISON OF EARLY SEASON SUB-CLOVER VARIETIES

(green weights are given with dry matter in parentheses)

<u>Variety</u>	<u>Sample Date</u> 1-29-80	<u>Sample Date</u> 3-1-80	<u>Sample Date</u> 4-1-80	<u>Sample Date</u> 5-15-80
Geraldton	3,432 Lbs. (617.9)	12,892 Lbs. (1,553.07)	22,691 Lbs. (3,861.87)	9,498 Lbs. (2,595.37)
*Nungarin	9,194 Lbs. (1,196.92)	15,437 Lbs. (1,679.57)	23,171 Lbs. (3,645.87)	18,493 Lbs. (4,749.39)
*Northam	9,411 Lbs. (1,324.62)	22,879 Lbs. (2,287.99)	31,278 Lbs. (4,797.35)	19,381 Lbs. (5,253.1)

COMPARISON OF MID-SEASON SUB-CLOVER VARIETIES

(green weights are given with dry matter in parentheses)

*Esperance	5,665 Lbs. (982.74)	16,354 Lbs. (1,889)	43,032 Lbs. (6,476.43)	27,129 Lbs. (5,516)
Mt. Barker	6,745 Lbs. (1,124.56)	18,486 Lbs. (2,202.65)	38,762 Lbs. (5,876.76)	30,223.35 Lbs. (7,771.72)
Howard	11,834 Lbs. (1,702.52)	25,953 Lbs. (2,609.93)	42,792 Lbs. (6,092.65)	31,638 Lbs. (8,269.17)
Woogenellup	9,314 Lbs. (1,438.68)	24,291 Lbs. (2,638.33)	43,560 Lbs. (6,116.63)	38,402 Lbs. (9,489.17)

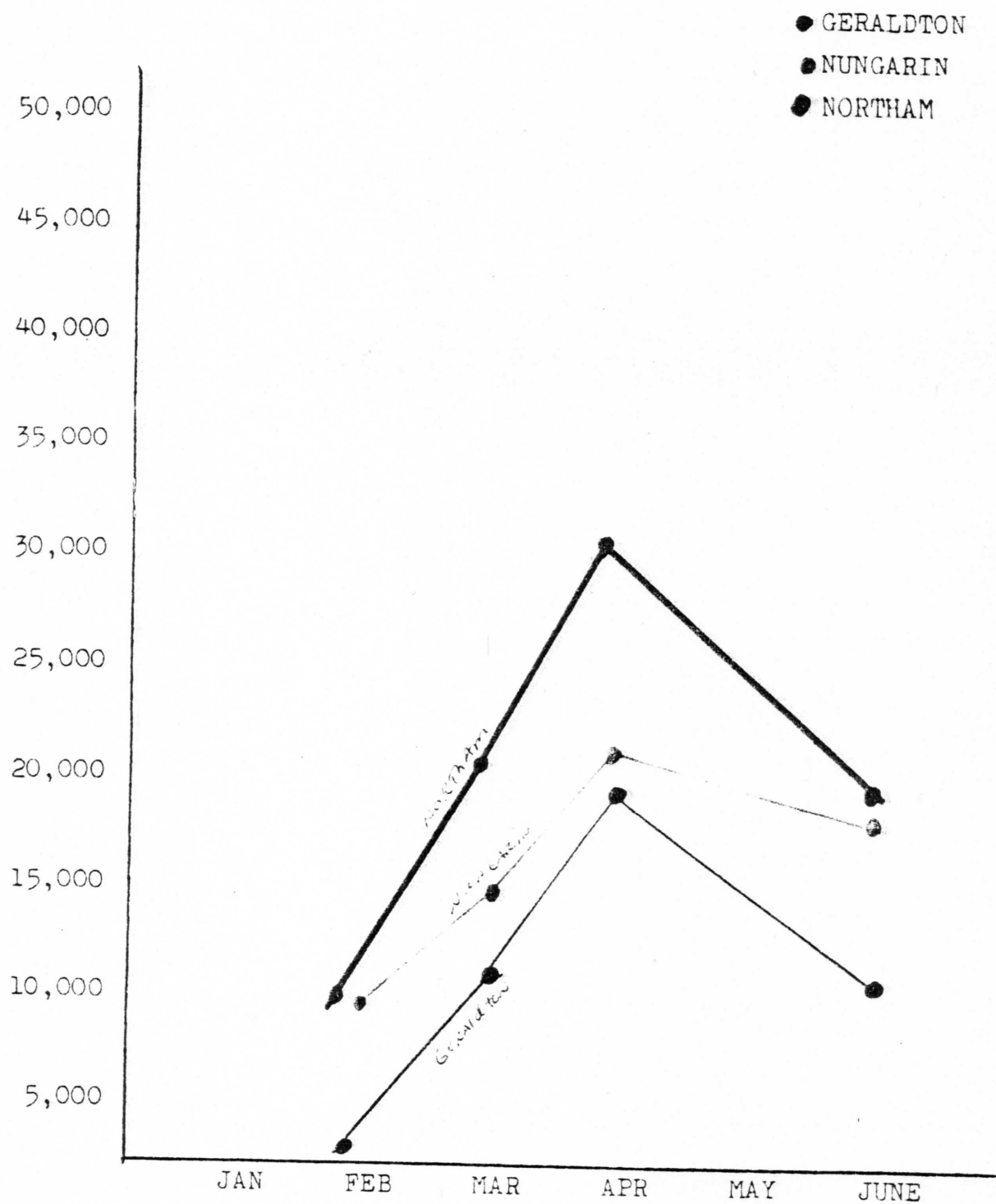
COMPARISON OF TRIKKALA AND YARLOOP

(Wet Varieties) PLUS NANGEELA (Late Season)

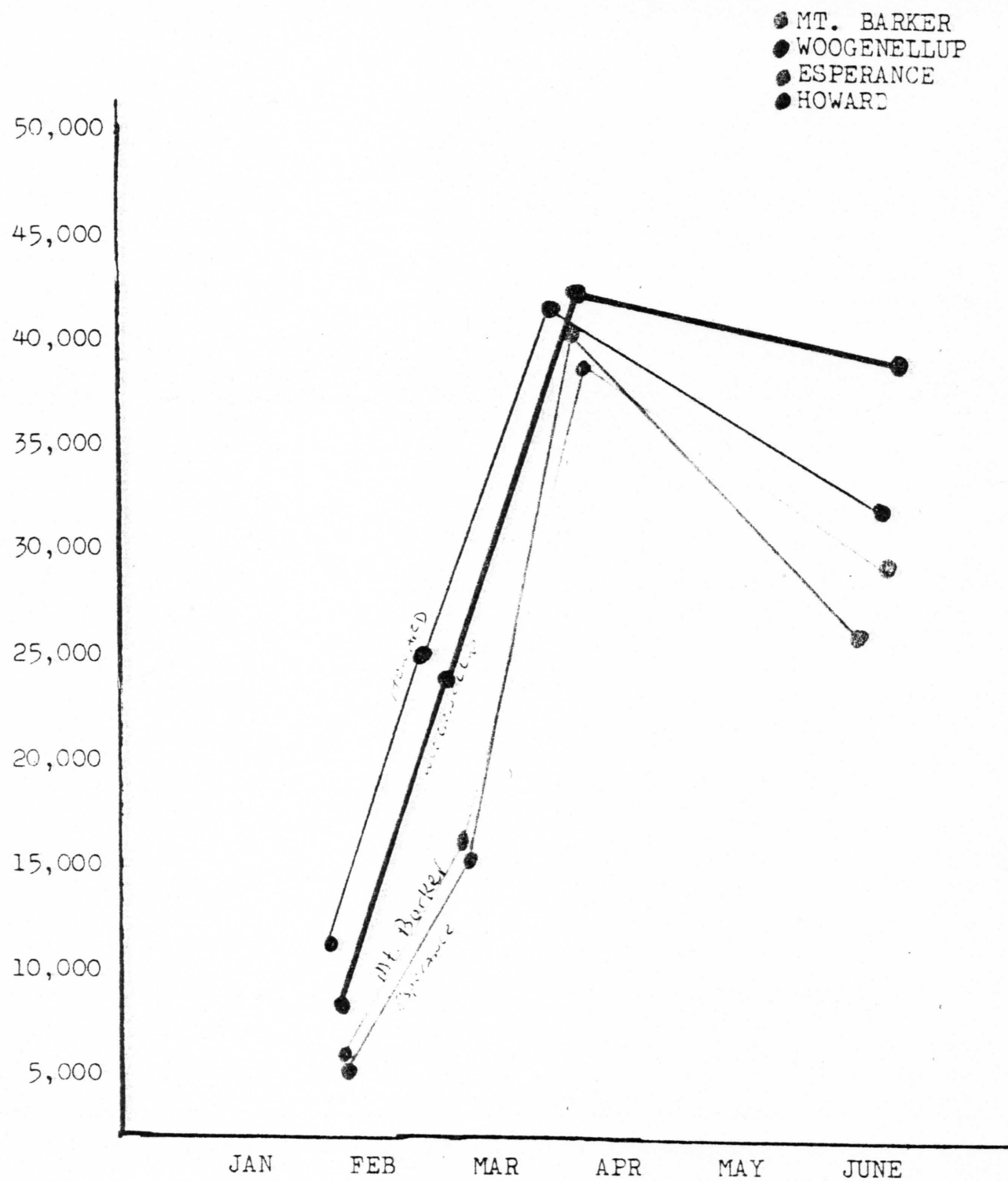
(green weights are given with dry matter in parentheses)

Yarloop	7,393 Lbs. (1,234.08)	25,088 Lbs. (2,523.47)	41,497 Lbs. (6,452.45)	20,700 Lbs. (6,164.6)
*Trikkala	6,193 Lbs. (1,030.12)	24,944 Lbs. (2,636.76)	49,940 Lbs. (6,380.35)	32,430 Lbs. (8,213.08)
Nangeela	3,768 Lbs. (742.53)	12,724 Lbs. (1,675.91)	39,098 Lbs. (5,421.02)	31,350 Lbs. (7,008.94)

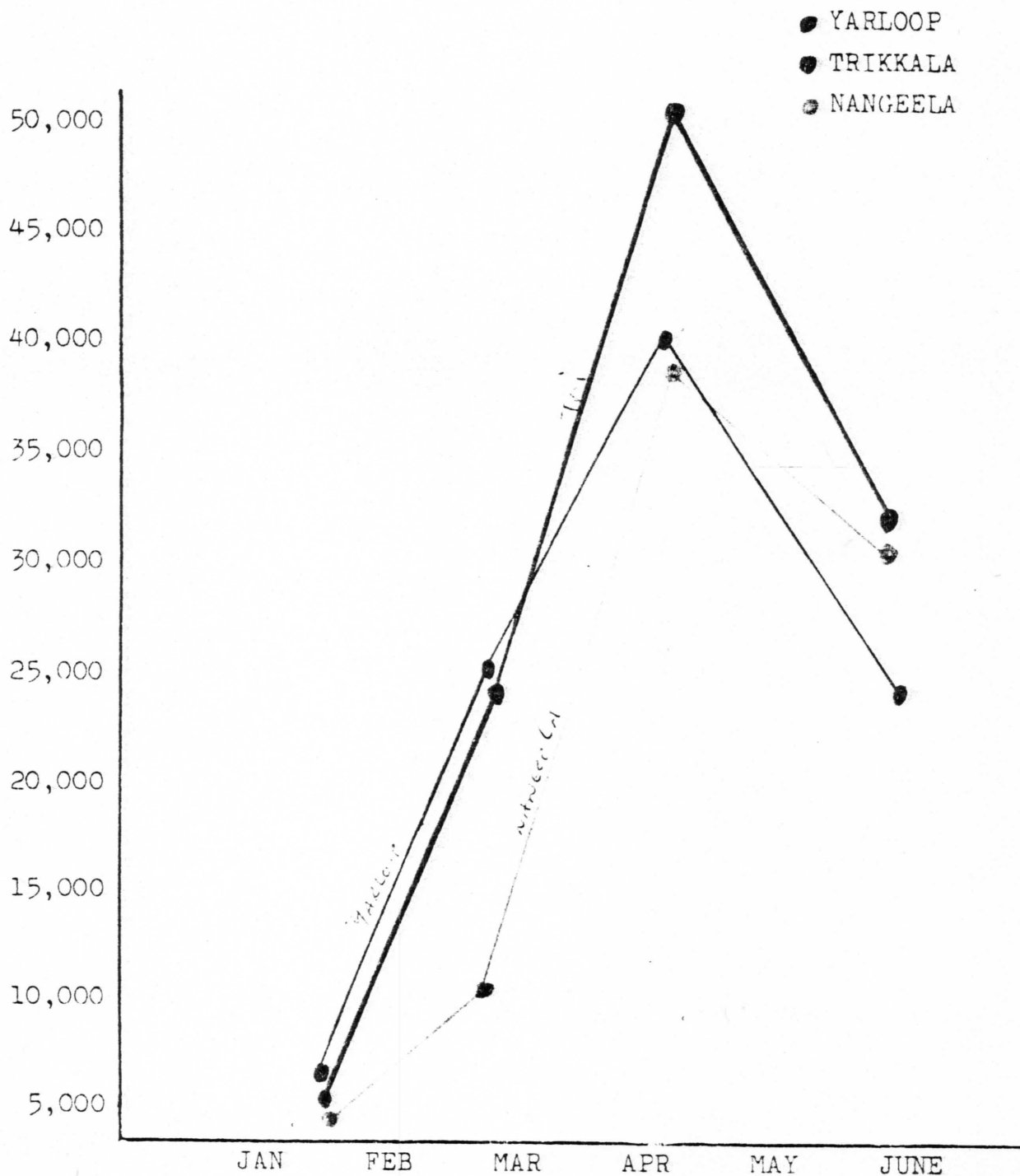
The lower sample weight on 5-15-80 probably reflects that the plants were drying out and leaf and seed shatter had occurred.



Growth Patterns of the Early Season
Maturing Sub-Clovers, SRJC Trial 1980
(Green Weights)



Growth Patterns of the Mid-Season
Maturing Sub-Clovers, SRJC Trial 1980
(Green Weights)



Growth Patterns of Yarloop, Trikkala, and
Nangeela Sub-Clovers, SRJC Trial 1980
(Green Weights)

Ranking of Sub-Clovers by Variety,
Maturity, or Usefulness - 1980 SRJC Trial

Early Season Varieties: (Ranked according to overall production)

1. Northam
2. Nungarin
3. Geraldton

Mid-Season Varieties:

1. Woogenellup
2. Howard
3. Mt. Barker
4. Esperance

Mid-Season (Wet Soil) Varieties:

1. Trikkala
2. Yarloop

Late Season Varieties:

1. Nangeela

FLOWERING DATES

1980 SRJC Sub-Clover Trial

March 1, 1980

Northam
Nungarin
Geraldton

March 20, 1980

Yarloop
Trikkala
Esperance

April 1, 1980

Woogenellup
Howard

April 17, 1980

Mt. Barker

April 28, 1980

Nangeela

1981

Comparison of Early Season Sub-Clover Varieties
(green weights are given with dry matter in parentheses)

	Sample Date	Sample Date	Sample Date	Sample Date
<u>Variety</u>	<u>2-2-81</u>	<u>3-3-81</u>	<u>4-2-81</u>	<u> </u>
Geraldton	1,536 lbs. (240 lbs.)	5,664 lbs. (960 lbs.)	21,216 lbs.	
* Nungarin	2,688 lbs. (576 lbs.)	7,584 lbs. (1,152 lbs.)	21,216 lbs.	
* Northam	1,824 lbs. (336 lbs.)	6,624 lbs. (1,248 lbs.)	20,016 lbs.	

Comparison of Mid-Season Sub-Clover Varieties
(green weights are given with dry matter in parentheses)

* Esperance	1,248 lbs. (240 lbs.)	2,208 lbs. (384 lbs.)	14,112 lbs.
Mt. Barker	2,112 lbs. (576 lbs.)	5,962 lbs. (1,056 lbs.)	25,440 lbs.
Howard	3,072 lbs. (528 lbs.)	6,336 lbs. (1,008 lbs.)	23,520 lbs. 23,520 lbs.
Woogenellup	3,648 lbs. (768 lbs.)	11,616 lbs. (1,728 lbs.)	30,144 lbs.

Comparison of Trikkala and Yarloop
(wet varieties) plus Nangeela (late season)
(green weights are given with dry matter in parentheses)

Yarloop	3,168 lbs. (672 lbs.)	7,872 lbs. (1,296 lbs.)	28,416 lbs.
* Trikkala	2,304 lbs. (576 lbs.)	6,240 lbs. (715 lbs.)	26,880 lbs.
Nangeela	1,296 lbs. (336 lbs.)	4,320 lbs. (912 lbs.)	21,888 lbs.

Varietal Comparisons - 1980 vs. 1981
 * green weights only (in pounds per acre)

	<u>Feb. 1980-</u> <u>Feb. 1981</u>		<u>March 1980-</u> <u>March 1981</u>		<u>April 1980-</u> <u>April 1981</u>		<u>May 1980-</u> <u>May 1981</u>
Geraldton	3,432	1,536	12,892	5,664	22,691	21,216	
Nungarin	9,194	2,688	15,437	7,584	23,171	21,216	
Northam	9,411	1,824	22,879	6,624	31,278	20,016	
Esperance	5,665	1,248	16,354	2,208	43,032	14,112	
Mt. Barker	6,745	2,112	18,486	5,962	38,762	25,440	
Howard	11,834	3,072	25,953	6,336	42,792	23,520	
Woogenellup	9,314	3,648	24,291	11,616	43,560	30,144	
Yarloop	7,393	3,168	25,088	7,872	41,497	28,416	
Trikkala	6,193	2,304	24,944	6,240	49,940	26,880	
Nangeela	3,768	1,296	12,724	4,320	39,098	21,888	