

Spraying

1. Date: 26th March
2. Soil Condition (Previous weather): Harrowed down, cobbly but level.
Dry to $\frac{1}{2}$ ".
3. Weather Conditions During Spraying: Fine, sunny, warm c. 55^oF.
Moderate E. breeze. Drift not serious.
4. Method Adopted: O.P.S. 30lb. psi. 25 gallons per acre.
5. Order of Spraying: TCA, IPC, CDEC, CDAA, I, II, III. each high \rightarrow low.
6. Chemicals:
 - IPC = 20% CR1249 ex F.P.C. Ltd. 1956.
 - TCA = 80% Na salt ex Kaylene 1956 (rates in lb. Na salt)
 - CDEC = 4.8% ex Monsanto 1955 and 1956 (mixed)
 - CDAA = 4.8% ex Monsanto 1956.

7. State of Weeds: No weeds up.

8. State of Beet:

Condition after Spraying: Much colder. Only 8 of following ²⁰ days above 50^oF
0.08" rain 3 days later. Plenty of rain after
drilling.

Weed and Beet Counts:

Date: 2nd and 5th June.

Method: 5 14" x 50" inter-row strips counted per plot.
i.e. c. 24.3 sq.ft. per plot.

General Observations:

- 8th May. Peas 2-4" high. 4 $\frac{1}{2}$ lb. IPC, peas backward. 9lb. CDEC distortion and 9lb. TCA possibly greener otherwise no effects. Weeds, hardly any wild oat, mainly knotgrass, Atriplex, chickweed and bindweed.
- 17th May. Peas 6-9". IPC 3lb. peas slightly shorter, smaller-leaved but healthy top-growth, excellent weed control. 4 $\frac{1}{2}$ lb. peas 2" shorter. TCA 6lb peas vigorous but some lower leaves distorted and green. 9lb. peas 1" shorter and distortion. Weeds smaller but still numerous. CDEC 9lb. peas distinctly shorter, distorted. 6lb. not so bad. CDAA 9lb. peas 2" shorter rather less distortion Weed control moderate.
- 5th June. Peas meeting across rows. 4 $\frac{1}{2}$ IPC and 9CDEC distinctly poorer. Symptoms on all CDEC, CDAA and TCA plots.

Ingham Peas 1956

Nos. of weeds counted in 24.3 sq./plot expressed as % of local controls.

Treatment lb./acre	Peas vigour 17.5.56	Chickweed %	Knotgrass %	Black Bindweed %
Controls	Healthy	100 (1.5/sq.ft.)	100 (2.5)	100 (1.3)
IPC 2	Healthy	8	38	42
3	Sl. shorter	4	13	13
4½	Mod. shorter	1	8	19
TCA 4	Healthy ^x	56	77	87
6	Sl. distorted ^x	42	83	64
9	Mod. distorted ^x	14	56	52
GDEC 4	Healthy	29	83	51
6	Sl. distorted	24	64	35
9	Sev. distorted	12	47	17
GDAA 4	Healthy	56	73	67
6	Sl. distorted	10	51	80
9	Mod. distorted	6	45	73

x indicates loss of some of waxy cuticle.