

**THE NEMATICIDAL EFFECT OF TEMIK (ALDICARB) ON
THE SUGAR-BEET CYCT NEMATODE *Heterodera schachtii***

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SUMMARY

The nematicidal effect of temik (Aldicarb) on the sugar-beet cyst nematode was evaluated in a farm located in Marvdasht near Shiraz, using different concentrations of the nematicide. The results of sampling in different dates revealed that:

1. The experimental plots were uniformly infested with the nematode.
2. Proper selection of the date of sampling is important for accurate evaluation of the nematicidal effect of the chemical. Samples taken one month after the treatments proved to be inaccurate.
3. Drastic decrease in population of the nematode in the treated plots resulted in a significant increase of the yield (as high as 51.45%) when compared with untreated control (See the tables 1 and 2 in Farsi text. These tables are represented in both Farsi and English languages).

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REFERENCES

DERN, R. 1961. Tagungsber. Arbeitsgemeinschaft. Pflanzensch. und Bodenkult im Zuckerrubensbau Heidelberg, 3-8.

FENWICK, D.W. 1940. Methods for recovery and counting of cysts of *H. schachtii* from soil. J. Helminth. 18: 155-177.

HAGUE, N.G.M. and B.F. Pain, 1970. Some observations on the effect of Temik on the potato cyst eelworm, *Heterodera rostochiensis* WOLL. Plant pathology 19: 69-71.

SHEPHERD, A.M. 1962. New blue R. A stain that differentiates between living and dead nematodes. Nematologica 8:201-208.

STEUDEL, W. 1972. Versuche Zum Einfluss Von Aldicarb auf den schlupfvorgang bei zysten von *Heterodera schachtii* Nach langerer Einwirkung. Nematologica 18:270-274.

STEUDEL, W., and R. Thelemann, 1967. Zur Frage der Wirkung eines carbamoyloxingranulats auf die Vermehrung des Rubennematoden (*Heterodera schachtii* SCHMIDT) und den Ertrag von Zuckerruben. Nachrichtenbl. Deutsch. Pflanzenschutzd. (Braunschweig) 19:129-135.

STEUDEL, W., and R. Thelemann, 1968. Versuche Zur Frage der Empfindlichkeit Von Zuckerruben gegen den Rubennematoden (*Heterodera schachtii* SCHMIDT). Meden. Rijksfak-lanbouwwetenschap-Gent 33:707-718

TALATSCHIAN, P., A. Akhiani, Z. Grayeli, M. Shahmohamadi and F. Teymoori, 1976. Survey on cyst forming nematodes in Iran in 1975 and their importance. Iran. j. Plant Path. 12:42-43.

THORNE, G. 1961. Principles of nematology. McGraw-Hill book co, inc. New York.