

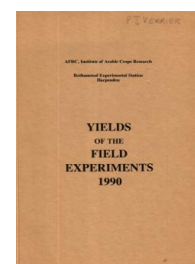
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Potatoes

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90/R/P/1 and 90/W/P/1

POTATOES

FUNGICIDES WITH THE SEED

Object: To study the effects of fungicides applied with the seed at planting on the yield and tuber diseases of potatoes - Rothamsted, Fosters West (R), Woburn, Butt Furlong (W).

Sponsors: R. Moffitt, G.A. Hide.

Design: 2 randomised blocks of 18 plots.

Whole plot dimensions: 1.5 x 6.0.

Treatments: All combinations of:-

1. **VARIETY** Varieties:

DESIREE
ESTIMA
MARFONA

2. **SOILFUNG** Fungicides, per t of seed, applied in the ridge at planting:

THIA+IMA Thiabendazole at 30 g plus imazalil at 10 g
TOLC MET Tolclofos methyl at 250 g

3. **FUNGMETH** Methods of applying fungicides:

PLANTING At planting
SEEDRESS As a seed application prior to planting

plus three extra treatments:

EXTRA

DES NONE Desiree not given fungicides to the seed (duplicated)
EST NONE Estima not given fungicides to the seed (duplicated)
MAR NONE Marfona not given fungicides to the seed (duplicated)

NOTES: (1) **SOILFUNG** applications were made with a powder applicator placing the fungicide alongside the potatoes at planting.
(2) **SEEDRESS** treatments were applied to tubers by electrostatic sprayer in 0.44 l of water per tonne of seed on 21 Feb, 1990 to Estima and Desiree, 9 Mar to Marfona.

Basal applications:

Fosters West (R): Manures: FYM at 41 t. (13:13:21) at 1.5 t.
Weedkillers: Glyphosate at 1.4 kg in 200 l. Linuron at 1.6 kg in 200 l. Fungicides: Maneb at 0.96 kg and zinc oxide at 0.022 kg in 200 l applied on two occasions, with the insecticide on the first and with a wetting agent, 'Bond' at 200 ml, on the second.
Mancozeb at 1.0 kg in 200 l applied on two occasions. Fentin hydroxide at 0.27 kg in 200 l. Insecticide: Pirimicarb at 0.14 kg. Irrigation: 25 mm applied on each of four occasions.
Desiccant: BOV at 280 l.

90/R/P/1 and 90/W/P/1

Basal applications:

Butt Furlong (W): Manures: (0:18:36) at 690 kg. (13:13:20) at 1.6 t.
Weedkiller: Linuron at 1.6 kg in 220 l. Fungicide: Mancozeb at 1.0 kg with a wetting agent, 'Bond' at 200 ml, in 220 l, applied on two occasions. Mancozeb at 1.4 kg, with 'Bond' at 200 ml, in 220 l. Fentin hydroxide at 0.27 kg applied on three occasions in 220 l. Nematicide: Oxamyl at 5.5 kg. Irrigation: 12 mm applied on each of ten occasions. Desiccant: BOV at 220 l.

Cultivations, etc.:-

Fosters West (R): Glyphosate applied: 26 Sept, 1989. FYM applied: 15 Nov. Ploughed: 23 Nov. NPK applied: 19 Mar, 1990. Spring-tine cultivated, rotary harrowed, potatoes planted and rotary ridged: 4 Apr. Linuron applied: 5 Apr. Irrigation applied: 6, 26 June, 16 July and 1 Aug. Maneb, zinc oxide and pirimicarb applied: 15 June. Mancozeb applied: 29 June and 13 July. Maneb, zinc oxide and wetting agent applied: 27 July. Fentin hydroxide applied: 13 Aug. Haulm mechanically destroyed: 23 Aug. Desiccant applied: 28 Aug. Potatoes lifted: 24 Oct. Previous crops: S. wheat 1988, w. oats 1989.

Butt Furlong (W): PK applied: 2 Sept, 1989. Subsoiled with tines 150 cm apart and 45 cm deep: 11 Sept. Ploughed: 16 Nov. Nematicide applied, NPK applied, spring-tine cultivated and seed planted: 11 Apr, 1990. Weedkiller applied: 19 Apr. Mancozeb at lower rate with wetting agent applied: 26 June and 11 July and at higher rate: 24 July. Irrigation applied: 27, 29 June, 2, 11, 17, 20, 23 July, 3, 6 and 10 Aug. Fentin hydroxide applied: 7, 21 Aug and 10 Sept. Haulm mechanically destroyed: 12 Sept. Desiccant applied: 17 Sept. Potatoes lifted: 19 Oct. Previous crops: S. barley 1988 and 1989.

NOTE: Tuber diseases were assessed after harvest.

90/R/P/1 FOSTERS WEST (R)

TOTAL TUBERS TONNES/HECTARE

***** Tables of means *****

SOILFUNG VARIETY	THIA+IMA	TOLC MET	Mean
DESIREE	40.1	41.9	41.0
ESTIMA	44.0	43.2	43.6
MARFONA	44.0	48.7	46.4
Mean	42.7	44.6	43.7

FUNG METH VARIETY	PLANTING	SEEDRESS	Mean
DESIREE	41.2	40.9	41.0
ESTIMA	42.8	44.4	43.6
MARFONA	47.8	44.9	46.4
Mean	43.9	43.4	43.7

FUNG METH SOILFUNG	PLANTING	SEEDRESS	Mean
THIA+IMA	42.4	43.0	42.7
TOLC MET	45.4	43.8	44.6
Mean	43.9	43.4	43.7

	SOILFUNG	THIA+IMA		TOLC MET	
VARIETY	FUNG METH	PLANTING	SEEDRESS	PLANTING	SEEDRESS
DESIREE		38.9	41.4	43.5	40.3
ESTIMA		42.4	45.6	43.2	43.1
MARFONA		45.9	42.1	49.7	47.8

EXTRA	DES	NONE	EST	NONE	MAR	NONE	Mean
		45.2		46.5		45.8	45.8

GRAND MEAN 44.4

*** Standard errors of differences of means ***

VARIETY	SOILFUNG	FUNG METH	VARIETY SOILFUNG
2.51	2.05	2.05	3.55
VARIETY FUNG METH	SOILFUNG FUNG METH	VARIETY SOILFUNG FUNG METH	EXTRA
3.55	2.90	5.02	3.55

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	20	5.02	11.3

90/R/P/1 FOSTERS WEST (R)

PERCENTAGE WARE 3.81CM (1.5 INCH) RIDDLE

***** Tables of means *****

SOILFUNG VARIETY	THIA+IMA	TOLC MET	Mean
DESIREE	95.5	96.1	95.8
ESTIMA	94.8	96.2	95.5
MARFONA	97.7	97.5	97.6
Mean	96.0	96.6	96.3

FUNG METH VARIETY	PLANTING	SEEDRESS	Mean
DESIREE	96.0	95.6	95.8
ESTIMA	95.2	95.7	95.5
MARFONA	97.5	97.7	97.6
Mean	96.2	96.4	96.3

FUNG METH SOILFUNG	PLANTING	SEEDRESS	Mean
THIA+IMA	95.7	96.4	96.0
TOLC MET	96.8	96.4	96.6
Mean	96.2	96.4	96.3

VARIETY	SOILFUNG	THIA+IMA	SEEDRESS	TOLC MET	SEEDRESS
DESIREE		95.4	95.7	96.6	95.6
ESTIMA		94.0	95.6	96.5	95.9
MARFONA		97.7	97.8	97.3	97.7

EXTRA	DES	NONE	EST	NONE	MAR	NONE	Mean
		96.0		96.9		96.4	96.4

GRAND MEAN 96.3

PLOT AREA HARVESTED 0.00075

90/W/P/1 BUTT FURLONG (W)

TOTAL TUBERS TONNES/HECTARE

***** Tables of means *****

SOILFUNG	THIA+IMA	TOLC MET	Mean
VARIETY			
DESIREE	59.5	54.7	57.1
ESTIMA	55.7	49.3	52.5
MARFONA	75.8	61.1	68.5
Mean	63.7	55.0	59.4
FUNG METH	PLANTING	SEEDRESS	Mean
VARIETY			
DESIREE	60.2	54.0	57.1
ESTIMA	50.1	54.9	52.5
MARFONA	67.1	69.8	68.5
Mean	59.1	59.6	59.4
FUNG METH	PLANTING	SEEDRESS	Mean
SOILFUNG			
THIA+IMA	62.8	64.6	63.7
TOLC MET	55.5	54.6	55.0
Mean	59.1	59.6	59.4
SOILFUNG	THIA+IMA	TOLC MET	
VARIETY	FUNG METH	PLANTING	SEEDRESS
DESIREE		61.8	57.2
ESTIMA		46.9	64.5
MARFONA		79.6	72.1
			58.6
			53.2
			54.7
			50.8
			45.4
			67.6
EXTRA	DES	NONE	EST
			NONE
			MAR
			NONE
			Mean

GRAND MEAN 60.6

*** Standard errors of differences of means ***

VARIETY	SOILFUNG	FUNG METH	VARIETY SOILFUNG
4.68	3.82	3.82	6.62
VARIETY FUNG METH	SOILFUNG FUNG METH	VARIETY SOILFUNG FUNG METH	EXTRA
6.62	5.41	9.36	6.62

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	20	9.36	15.5

90/W/P/1 BUTT FURLONG (W)

PERCENTAGE WARE 3.81CM (1.5 INCH) RIDDLE

***** Tables of means *****

SOILFUNG VARIETY	THIA+IMA	TOLC MET	Mean
DESIREE	90.0	88.4	89.2
ESTIMA	91.0	93.5	92.2
MARFONA	94.4	93.1	93.7
Mean	91.8	91.7	91.7

FUNG METH VARIETY	PLANTING	SEEDRESS	Mean
DESIREE	90.1	88.2	89.2
ESTIMA	90.8	93.7	92.2
MARFONA	93.8	93.7	93.7
Mean	91.6	91.9	91.7

FUNG METH SOILFUNG	PLANTING	SEEDRESS	Mean
THIA+IMA	91.1	92.4	91.8
TOLC MET	92.0	91.3	91.7
Mean	91.6	91.9	91.7

VARIETY	SOILFUNG FUNG METH	THIA+IMA PLANTING	SEEDRESS	TOLC MET PLANTING	SEEDRESS
DESIREE		90.1	89.8	90.0	86.7
ESTIMA		88.8	93.2	92.7	94.2
MARFONA		94.4	94.3	93.1	93.1

EXTRA	DES	NONE	EST	NONE	MAR	NONE	Mean
		89.8		91.4		94.7	92.0

GRAND MEAN 91.8

PLOT AREA HARVESTED 0.00090

90/W/P/2

POTATOES

CHEMICAL CONTROL OF GLOBODERA PALLIDA

Object: To determine whether yield and control of *G. pallida* are increased by adding to oxamyl chemicals with different effects on the nematodes - Woburn, Lansome/Mill Dam Close III.

Sponsors: A.G. Whitehead, A.J.F. Nichols.

Design: 3 randomised blocks of 2 plots split into 6 sub plots.

Whole plot dimensions: 6.0 x 13.3.

Treatments: All combinations of:-

1. **IRRIGATN** Irrigation:

NONE	None
FULL	Full, to reduce a soil moisture deficit of 37 mm to 25 mm

Sub plots

2. **CHEMICAL** Chemicals:

NONE	None
OXAMYL	Oxamyl at 5.6 kg
OX CARBO	Oxamyl at 5.6 kg + carbofuran at 5.6 kg
OX ETHOP	Oxamyl at 5.6 kg + ethoprophos at 5.6 kg
OX FORMA	Oxamyl at 5.6 kg + formalin at 1170 kg in 3000 l
OX SODME	Oxamyl at 5.6 kg + sodium metavanadate at 36 kg

NOTES: (1) Irrigation was applied on 21 occasions; at 12 mm on each.
(2) Formalin was applied on 13 Feb, 1990, the other chemicals on 23 Apr.

Basal applications: Manures: (13:13:20) at 1.6 t. Weedkillers: Glyphosate at 1.4 kg in 220 l. Linuron at 1.6 kg in 220 l. Fungicides: Mancozeb at 1.0 kg on the first two occasions and at 1.4 kg on the third, applied with a wetting agent, 'Bond' at 200 ml, in 220 l. Fentin hydroxide at 0.27 kg in 220 l, applied on three occasions.

Variety: Desiree.

Cultivations, etc.:- Glyphosate applied: 1 Sept, 1989. Ploughed: 13 Nov. NPK applied: 20 Apr, 1990. Rotary cultivated, potatoes planted: 23 Apr. Rotary ridged: 26 Apr. Linuron applied: 3 May. Irrigation treatment applied: 9, 15, 18, 22, 31 May, 5, 8, 13, 15, 19, 26, 29 June, 2, 11, 16, 20, 23, 26 July, 3, 6 and 10 Aug. Mancozeb and wetting agent applied: 26 June, 11 and 24 July. Fentin hydroxide applied: 7, 10 Aug and 10 Sept. Haulm mechanically destroyed: 14 Sept. Potatoes lifted: 19 Sept. Previous crops: Potatoes 1988, s. barley 1989.

90/W/P/2

NOTE: Populations of *G. pallida* eggs in soil were assessed before planting and after harvest.

TOTAL TUBERS TONNES/HECTARE

***** Tables of means *****

IRRIGATN CHEMICAL	NONE	FULL	Mean
NONE	18.6	34.1	26.4
OXAMYL	22.5	44.2	33.3
OX CARBO	22.6	39.3	30.9
OX ETHOP	21.0	43.8	32.4
OX FORMA	23.0	43.5	33.2
OX SODME	20.5	36.0	28.3
Mean	21.4	40.1	30.8

*** Standard errors of differences of means ***

CHEMICAL	IRRIGATN* CHEMICAL
3.27	4.63

* Within the same level of IRRIGATN only

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	20	5.67	18.4

PERCENTAGE WARE 4.4CM (1.75 INCH) RIDDLE

***** Tables of means *****

IRRIGATN CHEMICAL	NONE	FULL	Mean
NONE	80.7	87.9	84.3
OXAMYL	84.9	90.6	87.8
OX CARBO	86.4	88.3	87.4
OX ETHOP	82.7	89.2	85.9
OX FORMA	79.8	89.2	84.5
OX SODME	85.9	89.0	87.5
Mean	83.4	89.1	86.2

PLOT AREA HARVESTED 0.00057

90/W/P/3

POTATOES

RESISTANT VARIETIES AND PCN CONTROL

Object: To assess yields of, and control of a mixed population of *Globodera rostochiensis* and *G. pallida* by, six varieties of potato differing in their susceptibilities to the potato cyst nematodes (PCN) - Woburn, Lansome/Mill Dam Close III.

Sponsors: A.G. Whitehead, A.J.F. Nichols.

Design: 2 randomised blocks of 2 plots split into 12 sub plots.

Whole plot dimensions: 6.0 x 27.4.

Treatments: All combinations of:-

Whole plots

1. IRRIGATION	Irrigation:
NONE	None
FULL	Full, to reduce a soil moisture deficit of 37 mm to 25 mm

Sub plots

2. VARIETY	Varieties:
DESIREE	
MORAG	
NADINE	
ROCKET	
SANTE	
STROMA	

3. NEMACIDE	Nematicide:
NONE	None
OXAMYL	Oxamyl at 5.6 kg applied to the seedbed

NOTE: Irrigation was applied on 20 occasions; at 25 mm on the second occasion, at 12 mm on the rest.

Basal applications: Manures: (13:13:20) at 1.6 t. Weedkillers: Glyphosate at 1.4 kg in 220 l. Linuron at 1.6 kg in 220 l. Fungicides: Mancozeb at 1.0 kg on the first two occasions and at 1.4 kg on the third applied with a wetting agent, 'Bond' at 200 ml, in 220 l. Fentin hydroxide at 0.27 kg in 220 l, applied on three occasions.

90/W/P/3

Cultivations, etc.:- Glyphosate applied: 1 Sept, 1989. Ploughed: 13 Nov. NPK applied: 20 Apr, 1990. Spring-tine cultivated: 23 Apr. Nematicide treatment applied, rotary cultivated and potatoes planted: 24 Apr. Rotary ridged: 26 Apr. Linuron applied: 3 May. Irrigation treatment applied: 15, 18, 22, 31 May, 5, 8, 13, 15, 19, 26, 29 June, 2, 11, 16, 20, 23, 26 July, 3, 6 and 10 Aug. Mancozeb and wetting agent applied: 26 June, 11 and 24 July. Fentin hydroxide applied: 7, 21 Aug and 10 Sept. Haulm mechanically destroyed: 14 Sept. Potatoes lifted: 19 Sept. Previous crops: Potatoes 1988 and 1989.

NOTE: Populations of *G. pallida* eggs in soil were assessed before planting and after harvest.

TOTAL TUBERS TONNES/HECTARE

***** Tables of means *****

IRRIGATN VARIETY	NONE	FULL	Mean
DESIREE	14.7	25.2	19.9
MORAG	13.9	40.7	27.3
NADINE	10.4	33.2	21.8
ROCKET	13.3	35.8	24.5
SANTE	11.0	24.9	17.9
STROMA	15.5	31.3	23.4
Mean	13.1	31.8	22.5

NEMACIDE VARIETY	NONE	OXAMYL	Mean
DESIREE	18.9	21.0	19.9
MORAG	20.3	34.3	27.3
NADINE	14.7	29.0	21.8
ROCKET	23.4	25.7	24.5
SANTE	14.9	21.0	17.9
STROMA	22.6	24.2	23.4
Mean	19.1	25.8	22.5

NEMACIDE IRRIGATN	NONE	OXAMYL	Mean
NONE	11.5	14.7	13.1
FULL	26.7	37.0	31.8
Mean	19.1	25.8	22.5

90/W/P/3

TOTAL TUBERS TONNES/HECTARE

***** Tables of means *****

VARIETY	NEMACIDE IRRIGATN	NONE	OXAMYL
DESIREE	NONE	12.8	16.5
	FULL	24.9	25.4
MORAG	NONE	12.9	14.8
	FULL	27.6	53.7
NADINE	NONE	9.2	11.6
	FULL	20.1	46.3
ROCKET	NONE	11.4	15.2
	FULL	35.3	36.2
SANTE	NONE	10.1	11.9
	FULL	19.7	30.1
STROMA	NONE	12.8	18.2
	FULL	32.4	30.2

*** Standard errors of differences of means ***

VARIETY	NEMACIDE	IRRIGATN* VARIETY
3.74	2.16	5.29
IRRIGATN* NEMACIDE	VARIETY NEMACIDE	IRRIGATN* VARIETY NEMACIDE
3.05	5.29	7.48

* Within the same level of IRRIGATN only

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	22	7.48	33.3

90/W/P/3

PERCENTAGE WARE 4.4CM (1.75 INCH) RIDDLE

***** Tables of means *****

IRRIGATN VARIETY	NONE	FULL	Mean
DESIREE	67.2	80.0	73.6
MORAG	70.6	83.1	76.8
NADINE	71.1	75.2	73.2
ROCKET	76.6	86.7	81.6
SANTE	71.8	78.1	75.0
STROMA	74.1	81.4	77.7
Mean	71.9	80.7	76.3

NEMACIDE VARIETY	NONE	OXAMYL	Mean
DESIREE	74.2	72.9	73.6
MORAG	72.3	81.3	76.8
NADINE	68.9	77.4	73.2
ROCKET	79.4	83.9	81.6
SANTE	73.1	76.8	75.0
STROMA	75.6	79.8	77.7
Mean	73.9	78.7	76.3

NEMACIDE IRRIGATN	NONE	OXAMYL	Mean
NONE	69.1	74.7	71.9
FULL	78.7	82.8	80.7
Mean	73.9	78.7	76.3

VARIETY	NEMACIDE IRRIGATN	NONE	OXAMYL
DESIREE	NONE	65.7	68.7
	FULL	82.8	77.2
MORAG	NONE	67.6	73.5
	FULL	77.1	89.1
NADINE	NONE	69.6	72.6
	FULL	68.2	82.3
ROCKET	NONE	71.9	81.2
	FULL	86.8	86.6
SANTE	NONE	72.3	71.4
	FULL	73.9	82.3
STROMA	NONE	67.6	80.5
	FULL	83.6	79.2

PLOT AREA HARVESTED 0.00057

90/W/P/4

POTATOES

SUSCEPTIBLE VARIETIES AND *G. PALLIDA* CONTROL

Object: To assess the control of *Globodera pallida* by oxamyl on a range of susceptible varieties - Woburn, Lansome/Mill Dam Close III.

Sponsors: A.G. Whitehead, A.J.F. Nichols.

Design: 2 randomised blocks of 22 plots.

Whole plot dimensions: 3.0 x 4.6.

Treatments: All combinations of:-

1. VARIETY Varieties:

BARD	Maris Bard
CARA	Cara
COSTELLA	Costella
DESIREE	Desiree
ESTIMA	Estima
JAVELIN	Pentland Javelin
PIPER	Maris Piper
RECORD	Record
ROMANO	Romano
SQUIRE	Pentland Squire
WILJA	Wilja

2. NEMACIDE Nematicide:

NONE	None
OXAMYL	Oxamyl at 5.6 kg applied to the seedbed

Basal applications: Manures: (13:13:20) at 1.6 t. Weedkillers:

Glyphosate at 1.4 kg in 220 l. Linuron at 1.6 kg in 220 l.

Fungicides: Mancozeb at 1.0 kg on the first two occasions and at 1.4 kg on the third, applied with a wetting agent, 'Bond' at 200 ml, in 220 l. Fentin hydroxide at 0.27 kg in 220 l, applied on three occasions. Irrigation: 12 mm applied on each of 17 occasions.

Cultivations, etc.:- Glyphosate applied: 1 Sept, 1989. Ploughed:

13 Nov. NPK applied: 20 Apr, 1990. Spring-tine cultivated: 23 Apr.

Oxamyl treatments applied, rotary cultivated, potatoes planted:

25 Apr. Rotary ridged: 26 Apr. Linuron applied: 3 May. Irrigation applied: 15, 18, 22, 31 May, 5, 8, 13, 15, 19, 26, 29 June, 2, 11, 16, 20, 23 and 26 July. Mancozeb and wetting agent applied: 26 June, 11 and 24 July. Fentin hydroxide applied: 7, 21 Aug and 10 Sept.

Haulm mechanically destroyed: 14 Sept. Potatoes lifted: 18 Sept.

Previous crops: Potatoes 1988, s. barley 1989.

NOTE: Populations of *G. pallida* eggs in soil were assessed before planting and after harvest.

90/W/P/4

TOTAL TUBERS TONNES/HECTARE

***** Tables of means *****

NEMACIDE VARIETY	NONE	OXAMYL	Mean
BARD	27.6	33.5	30.5
CARA	33.2	43.2	38.2
COSTELLA	43.5	58.0	50.7
DESIREE	27.6	43.4	35.5
ESTIMA	35.1	49.4	42.2
JAVELIN	28.4	31.8	30.1
PIPER	43.3	49.9	46.6
RECORD	23.5	28.1	25.8
ROMANO	36.3	33.2	34.7
SQUIRE	40.4	44.5	42.4
WILJA	35.4	36.3	35.8
Mean	34.0	41.0	37.5

*** Standard errors of differences of means ***

VARIETY	NEMACIDE	VARIETY NEMACIDE
5.26	2.24	7.44

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	21	7.44	19.8

PERCENTAGE WARE 4.4CM (1.75 INCH) RIDDLE

***** Tables of means *****

NEMACIDE VARIETY	NONE	OXAMYL	Mean
BARD	89.1	90.2	89.7
CARA	86.6	82.0	84.3
COSTELLA	88.2	90.7	89.4
DESIREE	89.8	92.3	91.0
ESTIMA	90.7	93.0	91.9
JAVELIN	82.4	87.3	84.9
PIPER	83.9	87.3	85.6
RECORD	80.6	87.6	84.1
ROMANO	80.2	86.0	83.1
SQUIRE	93.4	91.0	92.2
WILJA	83.1	88.1	85.6
Mean	86.2	88.7	87.4

PLOT AREA HARVESTED 0.00069