APPENDIX 1

SUMMARY TABLES OF GENETIC AND RELATED EFFECTS

Nonman	nmali	ian sy	stems									Mar	mmalia	n syste	ms																					
Proka- ryotes	Lov euk	wer karyot	es		Plar	nts		Inse	ects			In v	vitro														In v	vivo								
			Ι					T				Ani	imal ce	ls					Hu	man c	ælls						Ani	mals						Huma	ns	
D G	D	R	G	A	D	G	С	R	G	С	A	D	G	s м	С	A	Т	1	D	G	S	М	С	A	Т	I	D	G	s	М	С	DL	A	D S	м	C
? –													+						_1	+ 1	+		+,								+ 1	······································	~~	4		

Summary table of genetic and related effects of aldicarb

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

- + considered to be positive for the specific endpoint and level of biological complexity
- +1 considered to be positive, but only one valid study was available to the Working Group
- considered to be negative
- -1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

Nonman	nmalia	ın sys	tems ^a				-						Ma	mma	lian	system	IS										······									····-	<u> </u>			
Proka- ryotes	Lowe euka		s		Plai	nts			Ins	ects			In	vitro						······									In	vivo						··· ·	·			
DG	D	р	G										}	imal	1	· _ · - · - ·				·····	Hu	man	ceils					·	Ar	ima	s					н	uman	3 ·		
		ĸ	6	A	D	G	М	С	R	G	C	A	D	G	S	М	С	A	T	I	D	G	s	М	С	A	Т	I	D	G	S	М	С	DL	. A	D	s	м	C	A
		+ 1				+1							-	+						+	?	_1	+1											-						

Summary table of genetic and related effects of chlordane

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

considered to be negative

-1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

"Sister chromatid exchange in fish in vivo: +1

Nonman	nmali	an sy	stem	8									Mammalian systems			
Proka- ryotes	Lov euk	ver aryot	es		Pla	nts			Inse	ects			In vitro		In vivo	
DG	D	R	G	A	D	G	м	С	R	G	с	A	Animal cells D G S M C A T I	Human cells D G S M C A T I	Animals D G S M C DL	Humans A D S M C A
		-1				+ 1	+1	+		_1			- +1 +	+1	- 	

Summary table of genetic and related effects of heptachlor

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

considered to be negative

-1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

Summary table of genetic and related effects of DDT

Non	mam	mali	an sys	stems									Ma	mma	lian s	ystem	\$																							
Prok ryot		Lov euk	ver aryot	es		Plan	nts		Inse	ects			In v	ritro						· · · · · ·						,			In	vivo										
			Γ							1			Ani	imal	cells						Hu	man	cells						An	imals	a					Hu	mans			
D	G	D	R	G	A	D	G	C	R	G	С	A	D	G	s	М	С	A	Т	I	D	G	s	М	С	Α	Т	I	D	G	s	М	С	DL	A	D	s	М	С	A
-	-			-	_1					-	+1	?	-	-			?		?	+	-	_1			_,1			+		_1			-	?				A	?1	

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

- considered to be negative

-1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

⁴Sperm morphology, ?; Gap junctional area reduction, +¹; Mouse host-mediated assay, -

Summary table of genetic and related effects of para, para'-TDE

Nor	mam	malia	an sys	stems									Ma	mma	lian s	system	s																			<u> </u>					
Prol ryot		Low euka	ver aryot	es		Pla	nts		Inse	ects			In v	vitro											- 1 ,				In v	vivo			*****	•••••							
D	~	D	R											1	cells		,	·			Hu	man c	ells		···-				Ani	imal	s ^ø					н	uman	s		<u></u>	
	<u>.</u>	<u>ש</u>	ĸ	G	A	D	G	С	R	G	C	A	D	G	s	М	C	A	Т	1	D	G	S	М	С	A	T	I	D	G	S	М	С	DL	A	D	s	М	С	A	*
	-												_4				?		_1	+ 1																					

A, an euploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

- + considered to be positive for the specific endpoint and level of biological complexity
- +1 considered to be positive, but only one valid study was available to the Working Group

considered to be negative

-1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

"Isomers not specified

^bMouse host-mediated assay, -1

A second s

Nonmammalian systems Mammalian systems Proka-Lower Plants Insects In vitro In vivo ryotes eukarvotes Animal cells Human cells Animals^b Humans D G D R G A D G C R G lc Α D G S М С т G D S М С т DG Α T мС DL A A I s DS мс Α _1 _* _ -1 _1 2

Summary table of genetic and related effects of ortho, para'-TDE

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

- considered to be negative

-1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

"Isomers not specified

^bMouse host-mediated assay, -1

Summary table of genetic and related effects of para, para'-DDE

Non	mam	malia	an sys	stems									Mar	nmal	lian s	ystem	15									••••••		- y						·						••••••	
Prol ryot		Low euk	ver aryote	es		Plai	nts		Inse	cts			In v	itro															In	vivo										·····	
													Ani	mal c	ælls						Hu	iman (cells						An	ima	ls#					T	Huma	ins			
D	G	D	R	G	A	D	G	С	R	G	С	Α	D	G	S	М	C	A	Т	I	D	G	s	М	С	A	Т	I	D	G	s	M	С	Ľ	DL A	1	DS	1	4 0		4
_1	-		_1a							+1	~1		-	+	?1		+		_1	+ 1																		ha.		d	

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

- considered to be negative

-1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

"DNA rearrangement in recombinant plasmid in Saccharomyces cerevisiae, +

^bMouse host-mediated assay, -1

	<u> </u>	
с	A	

IARC MONOGRAPHS VOLUME 53

Summary table of genetic and related effects of deltamethrin

Non	mam	malia	an sys	stems	5								Ma	mmalia	n sy	stem	s																								
Prok ryot		Low euka	ver aryote	es	-	Pla	nts		Inse	ects			In v	vitro															In	vivo								<u> </u>			
													Ani	imal ce	lls						Hu	man	cells						A	nimals	5 ⁴						Hu	man	5		
D	G	D	R	G	A	D	G	С	R	G	С	A	D	G	s	М	С	Α	Т	1	D	G	S	М	С	A	Т	I	D	G	5	S N	1	С	DL	A	D	s	м	С	Τ
	-	_1						+1						_1						~1												4	. 1	+1							

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

- considered to be negative

-1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

"Sperm abnormalities, +1

Summary table of genetic and related effects of dichlorvos

Nonm	amm	alian s	ystem	s									Mammalian systems			
Proka- ryotes		ower ukaryo	tes		Pla	nts			Ins	ects			In vitro		 In vivo	
D G	E	R	G	A	D	G	м	c	R	G	С	A	Animal cells D G S M C A	Human cells	Animals ^b	Humans
+ +		+	+	+1	L	+	+ 1	+	1	-	L	L	? ¹ + ¹ + +	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	D S M C A

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

considered to be positive for the specific endpoint and level of biological complexity +

considered to be positive, but only one valid study was available to the Working Group +1

considered to be negative

_1 considered to be negative, but only one valid study was available to the Working Group

considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal) ?

DNA binding, +

Sperm morphology, ?1; DNA binding in vivo, -

IARC MONOGRAPHS VOLUME 53

Summary table of genetic and related effects of fenvalerate

Nor	man	mali	an sy	stems									Mar	nmalia	an s	systen	15																								
Prol ryot		Lov euk	ver aryot	es		Pla	nts		Inse	ects			In v	itro															In	vivo											
					·		Τ			Τ	Τ	Γ	Ani	mal ce	ells						Hu	man	cells						An	imals	•					H	uman	s			
D	G	D	R	G	A	D	G	c	R	G	С	A	D	G	S	М	С	A	Т	Ι	D	G	S	М	С	A	Т	I	D	G	s	М	С	DL	A	D	s	М	С	A	1
	-			·.						_1	_1	+ 1								+ 1			+1	1	+	I						+ 1	+1								
	,													· · · · ·																											

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

considered to be positive for the specific endpoint and level of biological complexity +

considered to be positive, but only one valid study was available to the Working Group +1

considered to be negative

_1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

*Sperm morphology, +1

Summary table of genetic and related	l effects of permethrin
--------------------------------------	-------------------------

Non	mamı	nalia	an sys	stems									Mar	nma	lian s	systen	ns											 	••••••	-		,		 							
Prok ryote		Low euka	ver aryot	es		Pla	ints		Inse	ects			In v	itro														 1	n vi	ivo				 		•			••••••••••••••••••••••••••••••••••••••		-
D	G	D	R										Ani		T						Hu	man c	ells		••••••••••••••••••••••••••••••••••••••			1	Anir	mals			****	 		Н	uman				-
	0	<u> </u>		G	A	D	G	С	R	G	С	A	D	G	S	М	С	A	Т	1	D	G	s	М	С	A	ר	I	>	G	s	N	1 0)L	Α	D	s	М	С	A	
	-									_1		-1		-1						_1																					-

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

considered to be positive for the specific endpoint and level of biological complexity +

considered to be positive, but only one valid study was available to the Working Group +1

considered to be negative

~

considered to be negative, but only one valid study was available to the Working Group _1

considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal) .?

lonmam	malian	system	s								Mai	nmal	lian s	yster	ms																							
oka- otes	Lower eukary			Plar	nts		Inse	ects			In v	itro															in s	vivo										
Τ			Τ	1	ľ	\Box					Ani	mai c	cells						Hu	man (cells	5					An	imals	6					Hu	mar	15		
G	DF	G	A	D	G	С	R	G	с	A	D	G	S	м	С	A	. Т	I	D	G	s	М	С	A	Т	I	D	G	S	М	С	DL	A	D	s	М	С	
+	-	1 +1	_1										+	+ 1	ı +						+	1 + 1	+1									+						

Summary table of genetic and related effects of captafol

and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

considered to be negative -

_1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

Summary table of genetic and related effects of pentachlorophenol

Non	mam	malia	an sy:	stems									Ma	mma	lian s	syster	ns															· · · · · · · ·							••••••••	
Prok ryot		Low euk	ver aryot	es		Pla	nts		Inse	ects	Prostant, 44		ln v	vitro														· · · · · ·	In	vivoʻ	1									
D	~	12											 	imal o	cells						Hu	man o	cells						An	imal	s					н	umans	, i		
<u> </u>	6	D	R	G	A	D'	G	С	R	G	C	A	D	G	S	М	c	A	Т	I	D	G	s	М	С	A	Т	I	D	G	S	М	С	DL	A	D	S	М	с	A
?	?		+	+ 1		-				_1	·····	_1		-	?		+						_1		_1					+ 1							_1		+1	

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

considered to be negative

-1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

*Sperm morphology test, -1

Nonm	amm	alia	n sys	stems									Mar	nmal	ian s	ystem	5													•									
Proka- ryotes	1	Low euka	er iryot	es		Plan	its		Inse	ects			In vi	itro															In	vivo									
										Τ	1		Ani	mal c	ells						Hu	nan c	cells						A	nimal	sª					Hu	imans	6	
D G		D	R	G	A	D	G	с	R	G	с	A	D	G	S	М	С	A	Т	Ι	D	G	S	М	C	A	T	I	D	G	S	М	С	DL	A	D	S	М	С
· +				+1	+ 1		+1	1		+1				2	_1		? 1				4 1		+ 1									+	+	. 1					

Summary table of genetic and related effects of thiram

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

- considered to be negative

-1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal) *Sperm morphology test, +

Nonmam	nmali	ian sys	stems									Mar	mmalia	in sy	stems	6											•							••					
Proka- ryotes		wer (aryot	es		Plat	nts		Inse	ects	*****		In v	itro															In	vivo										
									Γ	T		Ani	mal ce	lls						Hu	man	cells				•••••	<u></u>	An	imals						Hu	mans			*
D G	D	R	G	A	D	G	С	R	G	С	A	D	G	s	м	с	A	Т	I	D	G	s	М	С	A	Т	I	D	G	s	М	С	DL	A	D	s	М	с	A
+1 +		-1					_1		+	_1			+1	_1		+1								+ 1							+1	+ 1	?					+ 1	*******

Summary table of genetic and related effects of ziram

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

- considered to be negative

-1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

Summary table of genetic and related effects of atrazine

Non	nam	malia	an sys	stems									Mar	nmal	lian s	vstem	s																								
Prok ryote		Low euka	ver aryot	es		Plan	nts		Inse	ects	·		In v	itro															In v	ivo											
										[I	Ani	mal o	cells						Hu	man c	ælls						Ani	mals						Hu	man	5			
D	G	D	R	G	A	D	G	С	R	G	С	Α	D	G	s	м	С	A	T	I	D	G	s	м	С	A	Т	I	D	G	S	М	С	DL	A	D	S	М	C	A	۰.
	_a		-	+	+		+	+.		?	+1	+ 1		_1	_1		-				_1		_1						+ 1					? 1							

A, an euploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

- considered to be negative

-1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

"Mouse, host-mediated assay, +1

^bSperm head morphological abnormality test, -¹

Non	mam	mali	an sy	stems									Ma	mmal	ian s	ysten	15																							
Prok ryote		Lov euk	ver aryot	es		Pla	nts		Inse	ects			In v	vitro															In v	vivoª										
			Γ									Τ	Ani	imal c	ælls						Hu	nan c	ells						An	imals				·		Hu	mans	1		
D	G	D	R	G	A	D	G	С	R	G	с	A	D	G	s	М	С	A	T	I	D	G	S	м	С	A	Т	I	D	G	S	М	С	DL	A	D	s	М	С	A
	-			-			+1	•			+1	b		?	+		+1		+1		_1											+	+ 1							

Summary table of genetic and related effects of monuron

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

- + considered to be positive for the specific endpoint and level of biological complexity
- +1 considered to be positive, but only one valid study was available to the Working Group
- considered to be negative
- -1 considered to be negative, but only one valid study was available to the Working Group
- ? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

"Sperm-head morphological abnormality test, +1

^bPolytene chromosomal damage

Non	mam	nmali	ian sy	stem	s								Mai	mmal	ian s	rstem	s														· · · · · · · · · · · · · · · · · · ·									
Prok ryote		Lov	wer	tes		Pla	nts		Ins	ects			In v	itro		·													Inv	vivo									<u></u>	
		Γ	Τ	Τ	Τ	1	Τ				1	T	Ani	mal c	ells					*!	Hur	nan c	cells						An	imals						Hu	mans			
D	G	D	R	G	A	D	G	с	R	G	с	A	D	G	S	М	С	A	Т	I	D	G	s	м	С	A	Т	I	D	G	s	М	С	DL	A	D	S	М	С	A
			+	+1						-		- ¹													_1								_1		•			-		

Summary table of genetic and related effects of picloram

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

- + considered to be positive for the specific endpoint and level of biological complexity
- +¹ considered to be positive, but only one valid study was available to the Working Group

- considered to be negative

- -1 considered to be negative, but only one valid study was available to the Working Group
- ? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

Non	nam	malia	an sys	stems	5								Mar	mma	lian s	syster	ms																							
Prok: ryote		Low euk	wer aryot	es		Pla	nts		Ins	ects			In v	itro					•					· · ·					Inv	vivo									<u></u>	
			1				Τ	T				1	Ani	mal	cells						Hu	man c	æils	·					An	imals						Hu	mans	 6		
D	G	D	R	G	A	D	G	С	R	G	c	A	D	G	S	М	С	A	T	I	D	G	s	М	С	A	T	I	D	G	s	м	С	DL	A	D	s	М	с	A
	-		-	-	-1		?	+ ,		+	+ 1	_1		?1	_1						-1		?1							•	•	_1			•	•		-*		

Summary table of genetic and related effects of simazine

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

- considered to be negative

-1 considered to be negative, but only one valid study was available to the Working Group

? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

Summary table of genetic and related effects of trifluralin

Non	mam	malia	an sys	stems									Mai	nmal	ian s	ystem	s																							
Prok ryot		Low euk	ver aryot	es		Plar	nts		Inse	ects			In v	itro															in v	ivo										
		Animal cells																	Hui	man c	ælls						Ani	mals						Hu	man	.s				
D	G	D	R	G	Α	D	G	C	R	G	С	A	D	G	S	М	С	Α	Т	I	D	G	s	М	С	A	Т	I	D	G	s	М	С	DL	A	D	s	M	С	A
	-		-		+		+1	+		-		?	_1	I			_1				-		? ¹		?						_1		+	+1						

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each endpoint:

+ considered to be positive for the specific endpoint and level of biological complexity

+1 considered to be positive, but only one valid study was available to the Working Group

- considered to be negative

- -1 considered to be negative, but only one valid study was available to the Working Group
- ? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)