REGIONE BASILICATA

PROVINCIA DI POTENZA

COMUNE DI SANT'ARCANGELO

OGGETTO:

PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A TERRA "SANT'ARC. 1" DELLA POTENZA NOMINALE DI 50 MW LOCALITA' "MONTICELLI" NEL COMUNE DI SANT'ARCANGELO (PZ)

ELABORATO:

REPORT ANALISI IDROLOGICA E IDRAULICA BACINI IDROGRAFICI

PROPONENTE:

Firmato digitalmente da:
Alexandro Floris
Data: 18/01/2023 20:23:20

COMPAGNIA DEL SOLE TRE S.R.L.
P.IVA IT04320520986
VIA ALDO MORO, 28
25043- BRENO (BS)

PROGETTAZIONE:

Ing. Carmen Martone
Iscr. n.1872
Ordine Ingegneri Potenza
C.F MRTCMN73D56H703E

EGM PROJECT S.R.L.

Geol. Raffaele Nardone
Iscr. n. 243
Ordine Geologi Basilicata
C.F NRDRFL71H04A509H

EGM PROJECT S.R.L.
VIA VERRASTRO 15/A
85100- POTENZA (PZ)
P.IVA 02094310766
REA PZ-206983

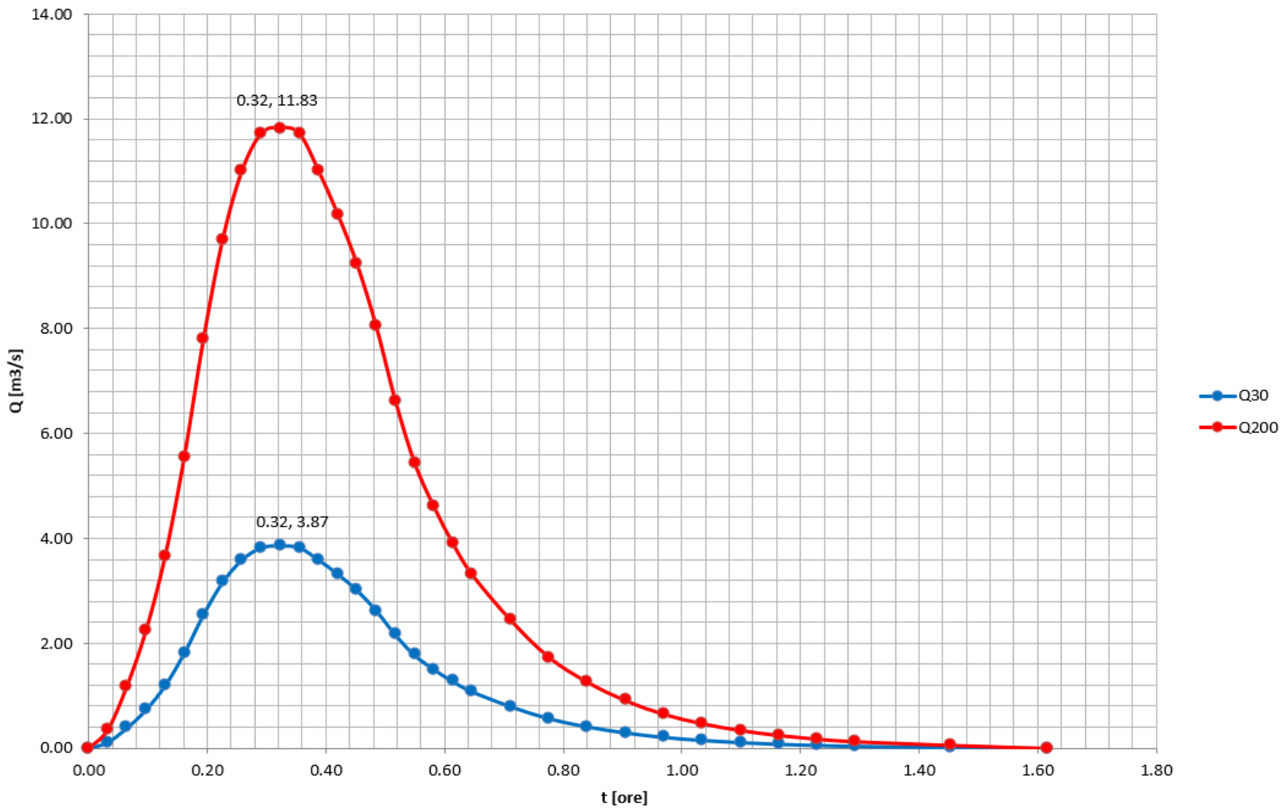
Livello prog.	Cat. opera	N°. prog.elaborato	Tipo elaborato	N° foglio	Tot. fogli	Nome file	Scala
PD	I.IF	A.3.1	R				

REV.	DATA	DESCRIZIONE	ESEGUITO	VERIFICATO	APPROVATO
00	GENNAIO 2023	Emissione		Geol. Raffaele Nardone EGM Project	Ing. Carmen Martone EGM Project

BACINO 1																
PARAMETRI MORFOMETRICI																
VERSANTE															ASTA PRINCIPALE	
Superficie		quote				pendenze				SCS				ϕ	lunghezza	pendenza media
		min	max	range	media	min	max	range	media							
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%	CN_{II}	CN_{III}	S_{II}	S_{III}		km	m/m
909219.24	0.91	238.20	421.86	183.66	308.51	0.50	90.00	89.50	23.82	80.53	90.58	61.42	26.41	0.61	1.698	10.81%

t(h)	Q30	Q200
0.00	0.00	0.00
0.03	0.12	0.35
0.06	0.39	1.18
0.10	0.73	2.25
0.13	1.20	3.67
0.16	1.82	5.56
0.19	2.55	7.81
0.23	3.17	9.70
0.26	3.60	11.00
0.29	3.83	11.71
0.32	3.87	11.83
0.36	3.83	11.71
0.39	3.60	11.00
0.42	3.32	10.17
0.45	3.02	9.23
0.48	2.63	8.04
0.52	2.16	6.62
0.55	1.78	5.44
0.58	1.51	4.61
0.61	1.28	3.90
0.65	1.08	3.31
0.71	0.80	2.45
0.78	0.57	1.74
0.84	0.41	1.27
0.91	0.30	0.91
0.97	0.21	0.65
1.03	0.15	0.47
1.10	0.11	0.34
1.16	0.08	0.25
1.23	0.06	0.18
1.29	0.04	0.13
1.45	0.02	0.06
1.62	0.00	0.00

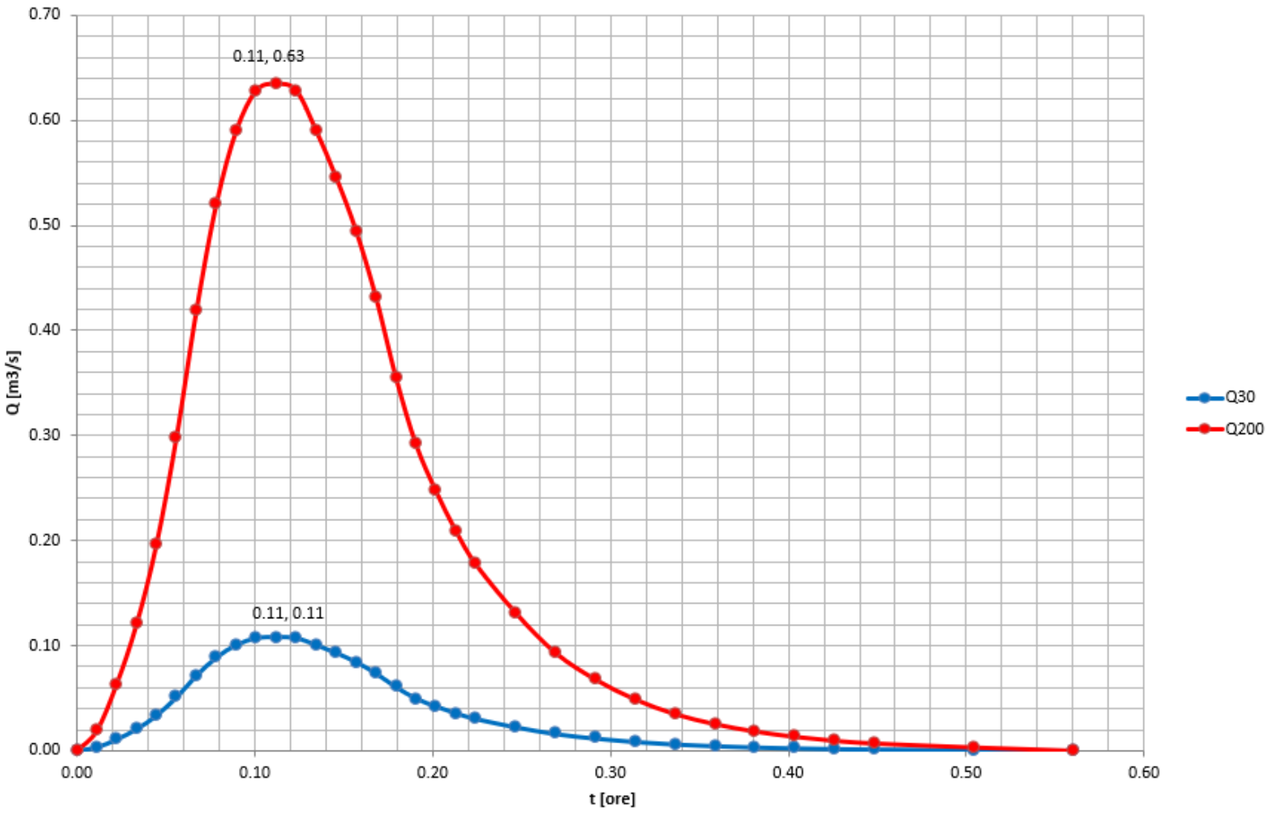
	a	n	t_l [ore]	$t_p=t_c$ [ore]	t_a [ore]	h(t_c)	V[mm]	Q_p [m^3/s]
T30	35.02	0.372	0.18	0.29	0.32	22.20	6.61	3.87
T200	64.05	0.372				40.61	20.22	11.83



BACINO 2																
PARAMETRI MORFOMETRICI																
VERSANTE															ASTA PRINCIPALE	
Superficie		quote				pendenze				SCS				ϕ	lunghezza	pendenza media
		min	max	range	media	min	max	range	media							
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%	CN_{II}	CN_{III}	S_{II}	S_{III}		km	m/m
52241.20	0.05	256.68	367.41	110.73	300.33	1.03	90.00	88.97	25.72	73.67	86.68	90.76	39.03	0.31	0.392	28.24%

t(h)	Q30	Q200
0.00	0.00	0.00
0.01	0.00	0.02
0.02	0.01	0.06
0.03	0.02	0.12
0.04	0.03	0.20
0.06	0.05	0.30
0.07	0.07	0.42
0.08	0.09	0.52
0.09	0.10	0.59
0.10	0.11	0.63
0.11	0.11	0.63
0.12	0.11	0.63
0.13	0.10	0.59
0.15	0.09	0.55
0.16	0.08	0.49
0.17	0.07	0.43
0.18	0.06	0.36
0.19	0.05	0.29
0.20	0.04	0.25
0.21	0.04	0.21
0.22	0.03	0.18
0.25	0.02	0.13
0.27	0.02	0.09
0.29	0.01	0.07
0.31	0.01	0.05
0.34	0.01	0.03
0.36	0.00	0.03
0.38	0.00	0.02
0.40	0.00	0.01
0.43	0.00	0.01
0.45	0.00	0.01
0.50	0.00	0.00
0.56	0.00	0.00

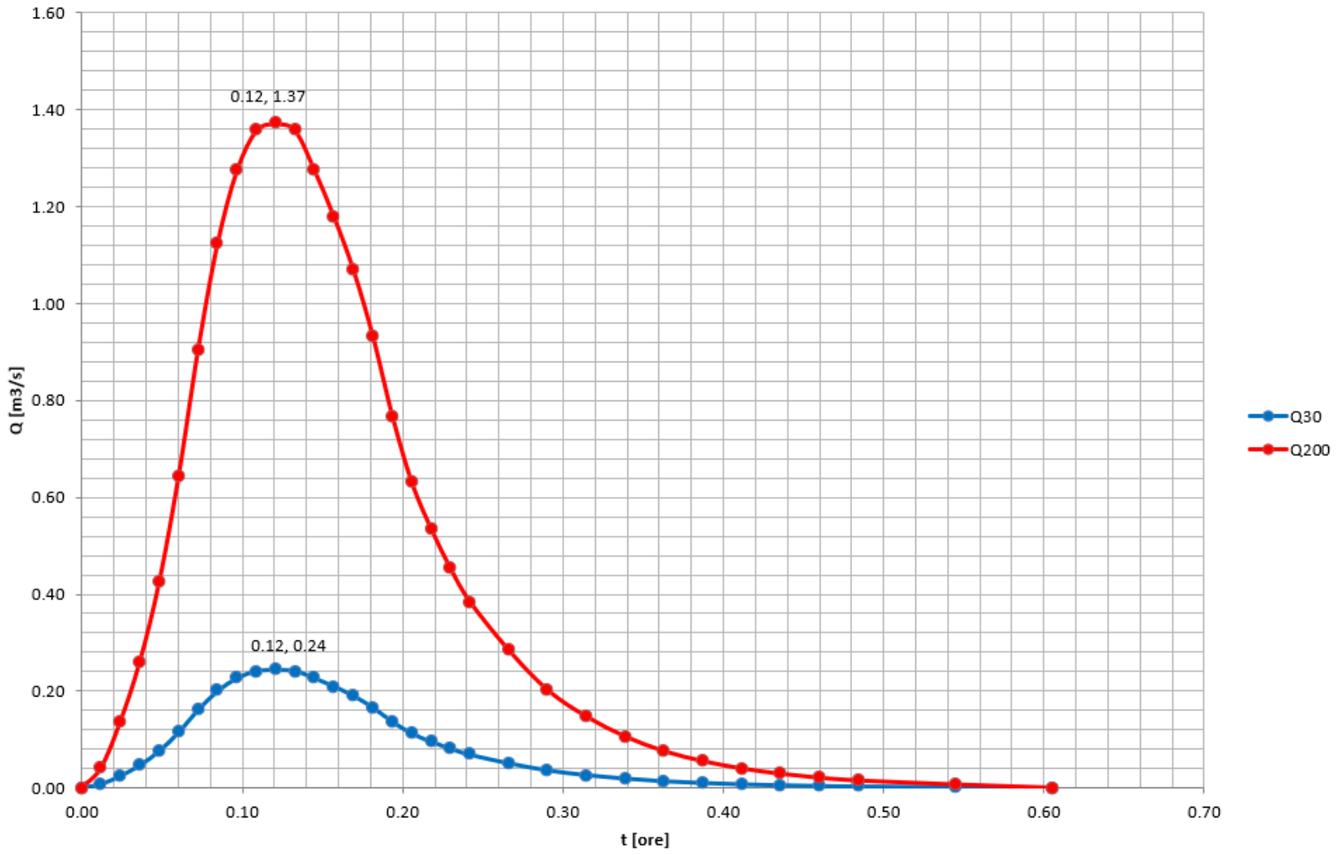
	a	n	t_l [ore]	$t_p=t_c$ [ore]	t_a [ore]	h(t_c)	V[mm]	Q_p [m^3/s]
T30	35.02	0.372	0.06	0.10	0.11	14.98	1.11	0.11
T200	64.05	0.372				27.39	6.55	0.63



BACINO 3																
PARAMETRI MORFOMETRICI																
VERSANTE															ASTA PRINCIPALE	
Superficie		quote				pendenze				SCS				ϕ	lunghezza	pendenza media
		min	max	range	media	min	max	range	media							
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%	CN_{II}	CN_{III}	S_{II}	S_{III}		km	m/m
114115.54	0.11	260.56	368.86	108.30	318.71	2.32	68.27	65.95	24.61	73.67	86.68	90.76	39.03	0.31	0.420	25.78%

t(h)	Q30	Q200
0.00	0.00	0.00
0.01	0.01	0.04
0.02	0.02	0.14
0.04	0.05	0.26
0.05	0.08	0.42
0.06	0.11	0.64
0.07	0.16	0.90
0.08	0.20	1.12
0.10	0.23	1.27
0.11	0.24	1.36
0.12	0.24	1.37
0.13	0.24	1.36
0.15	0.23	1.27
0.16	0.21	1.18
0.17	0.19	1.07
0.18	0.17	0.93
0.19	0.14	0.77
0.21	0.11	0.63
0.22	0.09	0.53
0.23	0.08	0.45
0.24	0.07	0.38
0.27	0.05	0.28
0.29	0.04	0.20
0.31	0.03	0.15
0.34	0.02	0.11
0.36	0.01	0.08
0.39	0.01	0.05
0.41	0.01	0.04
0.44	0.01	0.03
0.46	0.00	0.02
0.48	0.00	0.02
0.55	0.00	0.01
0.61	0.00	0.00

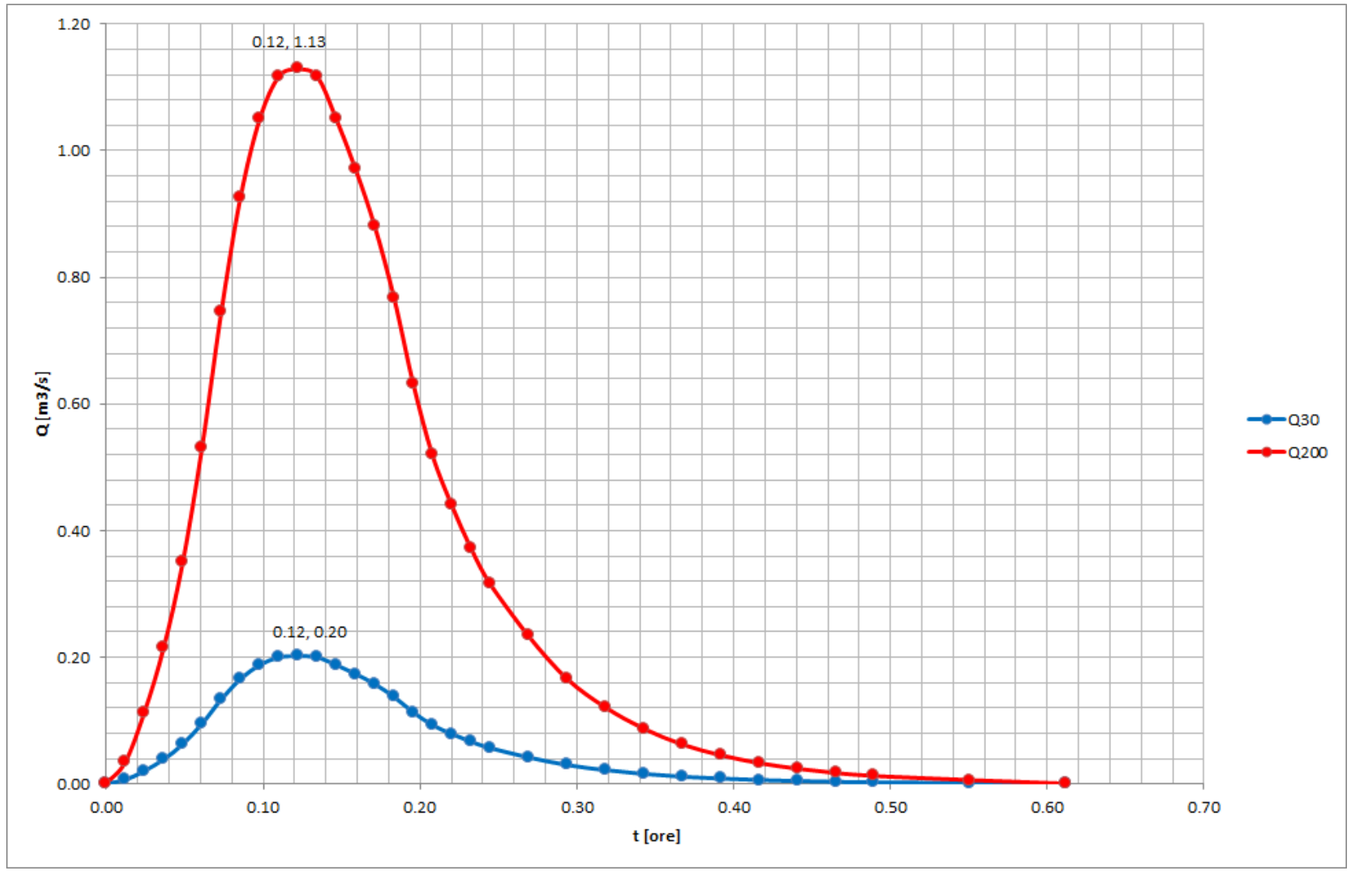
	a	n	t_l [ore]	$t_p=t_c$ [ore]	t_a [ore]	h(t_c)	V[mm]	Q_p [m^3/s]
T30	35.02	0.372	0.07	0.11	0.12	15.41	1.24	0.24
T200	64.05	0.372				28.19	6.99	1.37



BACINO 4																
PARAMETRI MORFOMETRICI																
VERSANTE															ASTA PRINCIPALE	
Superficie		quote				pendenze				SCS				ϕ	lunghezza	pendenza media
		min	max	range	media	min	max	range	media							
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%	CN_{II}	CN_{III}	S_{II}	S_{III}		km	m/m
94152.90	0.09	265.84	401.59	135.75	335.38	4.26	74.18	69.92	24.09	73.67	86.68	90.76	39.03	0.31	0.420	32.32%

t(h)	Q30	Q200
0.00	0.00	0.00
0.01	0.01	0.03
0.02	0.02	0.11
0.04	0.04	0.21
0.05	0.06	0.35
0.06	0.09	0.53
0.07	0.13	0.75
0.09	0.17	0.93
0.10	0.19	1.05
0.11	0.20	1.12
0.12	0.20	1.13
0.13	0.20	1.12
0.15	0.19	1.05
0.16	0.17	0.97
0.17	0.16	0.88
0.18	0.14	0.77
0.20	0.11	0.63
0.21	0.09	0.52
0.22	0.08	0.44
0.23	0.07	0.37
0.24	0.06	0.32
0.27	0.04	0.23
0.29	0.03	0.17
0.32	0.02	0.12
0.34	0.02	0.09
0.37	0.01	0.06
0.39	0.01	0.05
0.42	0.01	0.03
0.44	0.00	0.02
0.47	0.00	0.02
0.49	0.00	0.01
0.55	0.00	0.01
0.61	0.00	0.00

	a	n	t_l [ore]	$t_p=t_c$ [ore]	t_a [ore]	h(t_c)	V[mm]	Q_p [m^3/s]
T30	35.02	0.372	0.07	0.11	0.12	15.47	1.26	0.20
T200	64.05	0.372				28.30	7.06	1.13



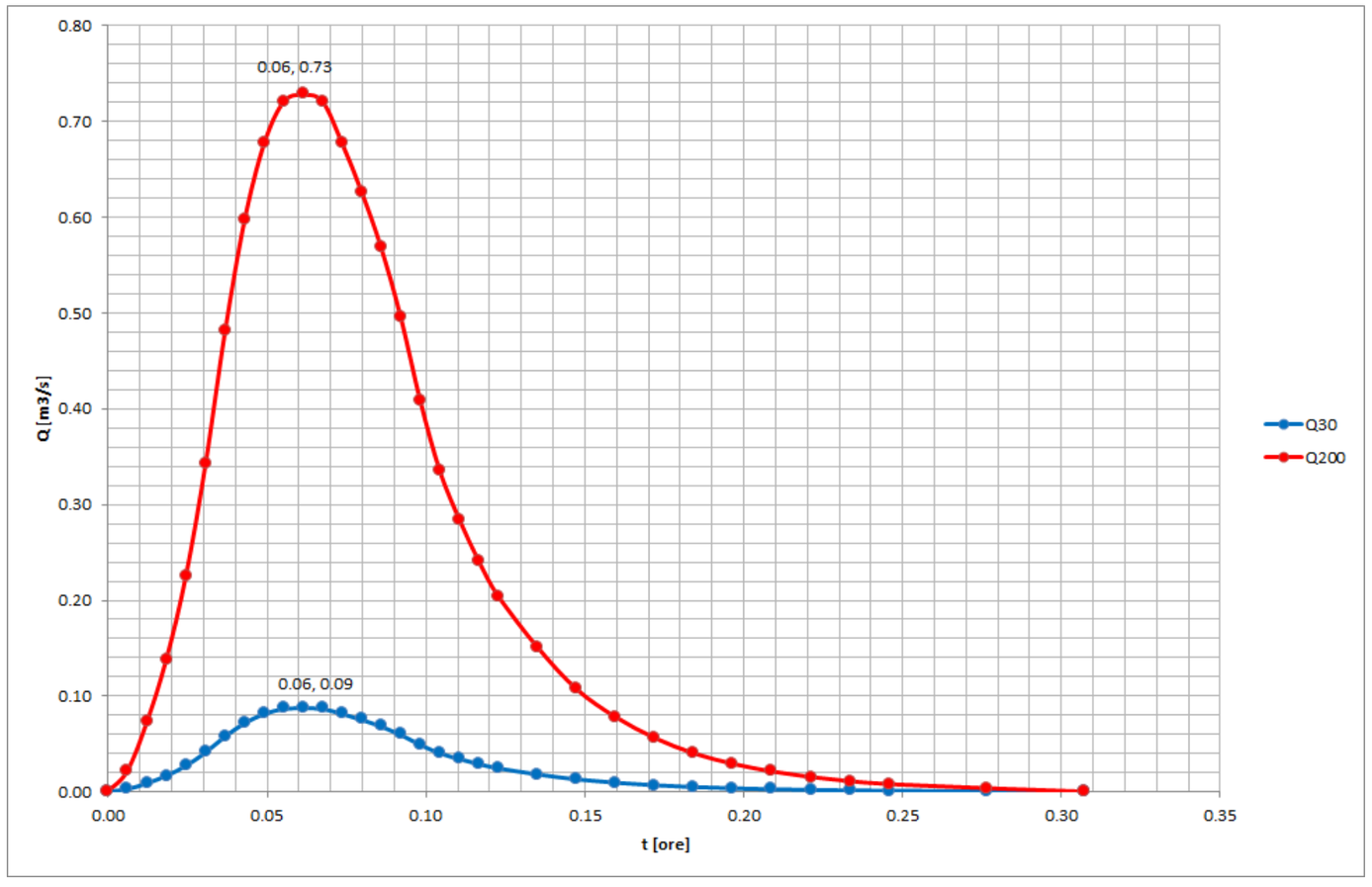
BACINO 5

PARAMETRI MORFOMETRICI

VERSANTE														ASTA PRINCIPALE	
Superficie		quote				pendenze				SCS				ϕ	lunghezza	pendenza media
		min	max	range	media	min	max	range	media							
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%	CN_{II}	CN_{III}	S_{II}	S_{III}		km	m/m
53352.72	0.05	284.05	393.68	109.63	344.14	2.70	96.00	93.30	25.18	74.55	87.20	86.71	37.29	0.33	0.187	58.68%

t(h)	Q30	Q200
0.00	0.00	0.00
0.01	0.00	0.02
0.01	0.01	0.07
0.02	0.02	0.14
0.02	0.03	0.23
0.03	0.04	0.34
0.04	0.06	0.48
0.04	0.07	0.60
0.05	0.08	0.68
0.06	0.09	0.72
0.06	0.09	0.73
0.07	0.09	0.72
0.07	0.08	0.68
0.08	0.08	0.63
0.08	0.08	0.63
0.09	0.07	0.57
0.09	0.06	0.50
0.10	0.05	0.41
0.10	0.04	0.33
0.11	0.03	0.28
0.12	0.03	0.24
0.12	0.02	0.20
0.14	0.02	0.15
0.15	0.01	0.11
0.16	0.01	0.08
0.17	0.01	0.06
0.18	0.00	0.04
0.20	0.00	0.03
0.21	0.00	0.02
0.22	0.00	0.02
0.23	0.00	0.01
0.25	0.00	0.01
0.28	0.00	0.00
0.31	0.00	0.00

	a	n	t_l [ore]	$t_p=t_c$ [ore]	t_a [ore]	$h(t_c)$	V[mm]	Q_p [m³/s]
T30	35.02	0.372	0.03	0.06	0.06	11.97	0.49	0.09
T200	64.05	0.372				21.90	4.03	0.73



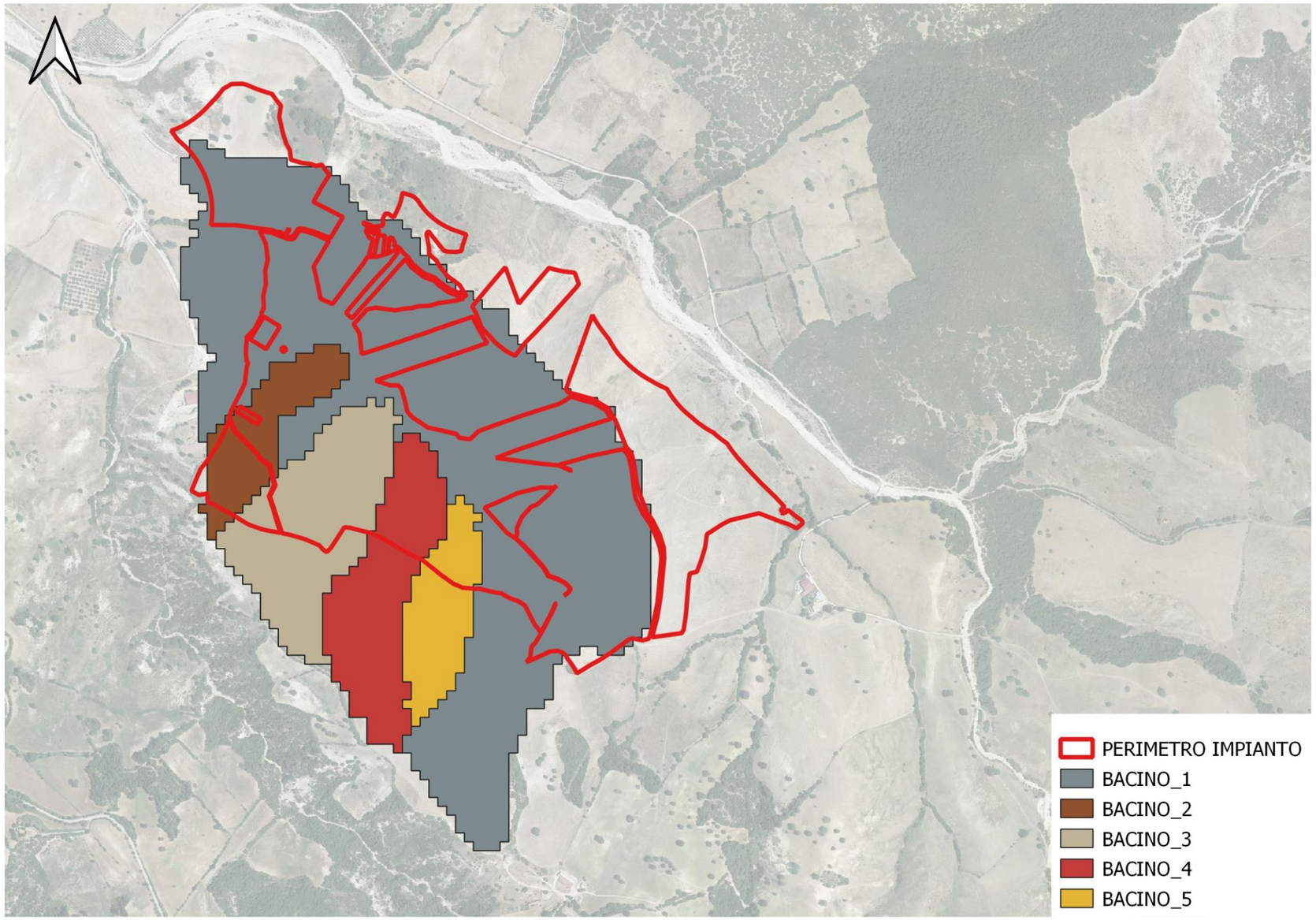


Figura 1 – Perimetrazione Bacini idrografici

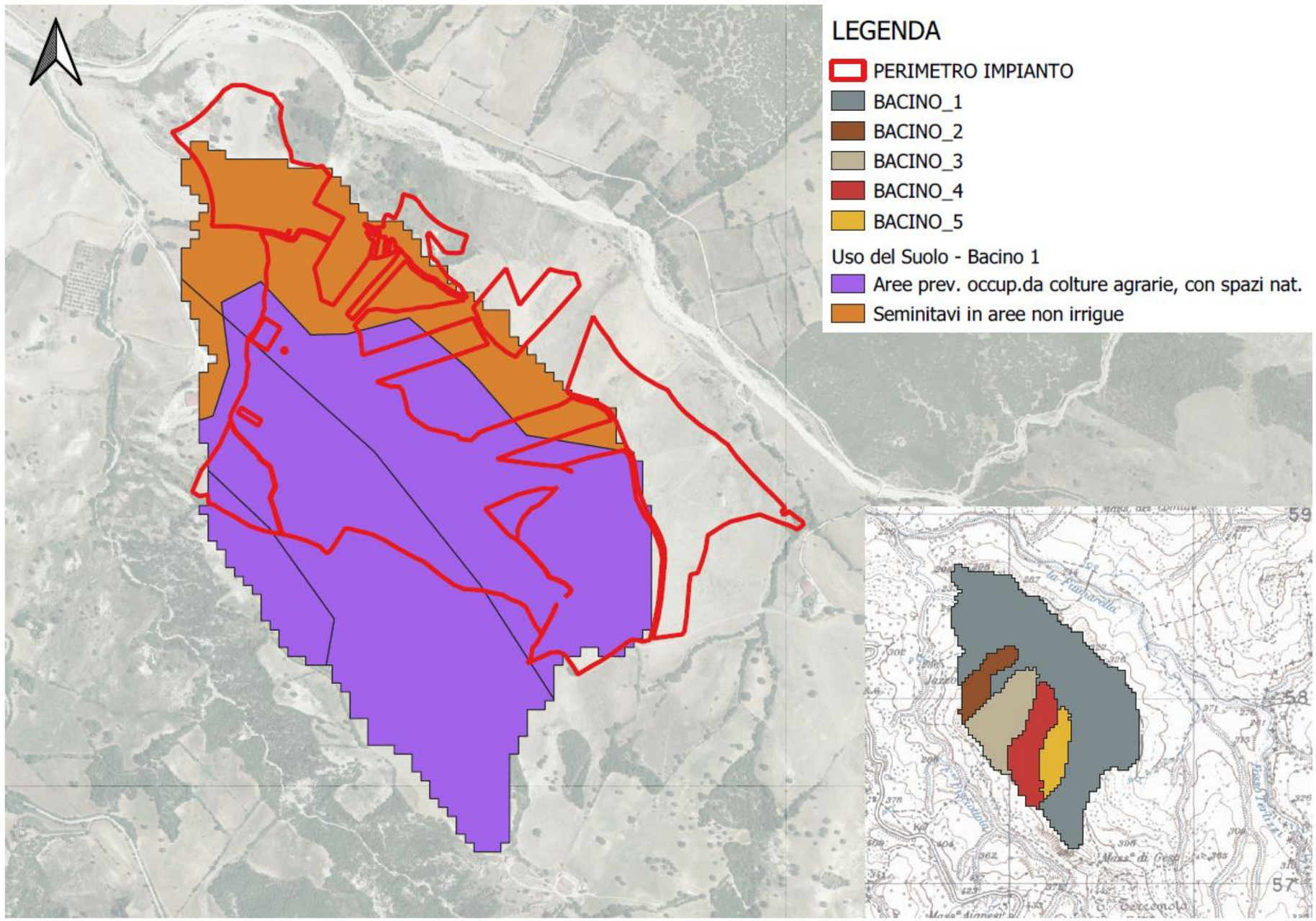


Figura 2: Uso del suolo Bacino 1

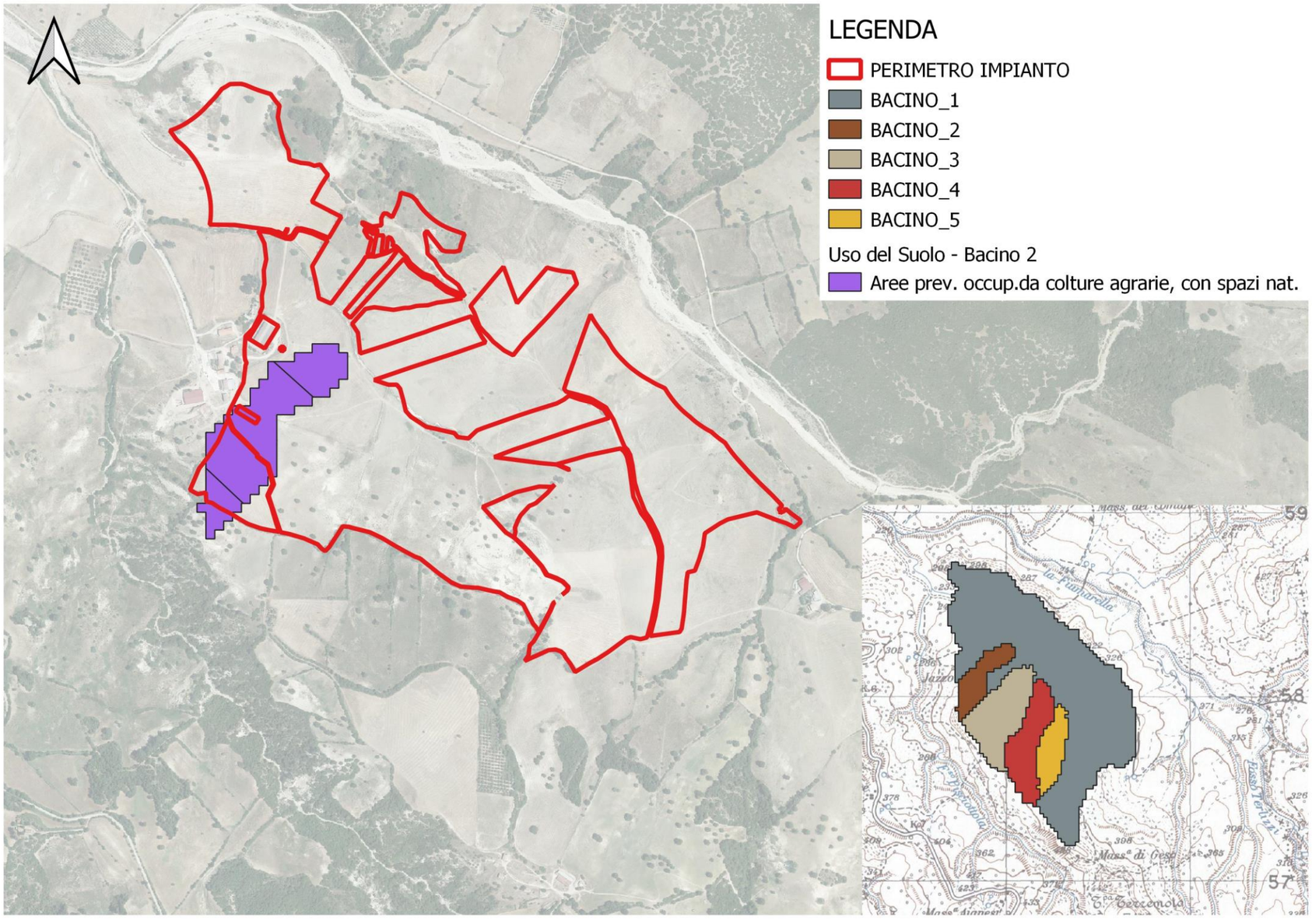


Figura 3: Uso del suolo Bacino 2

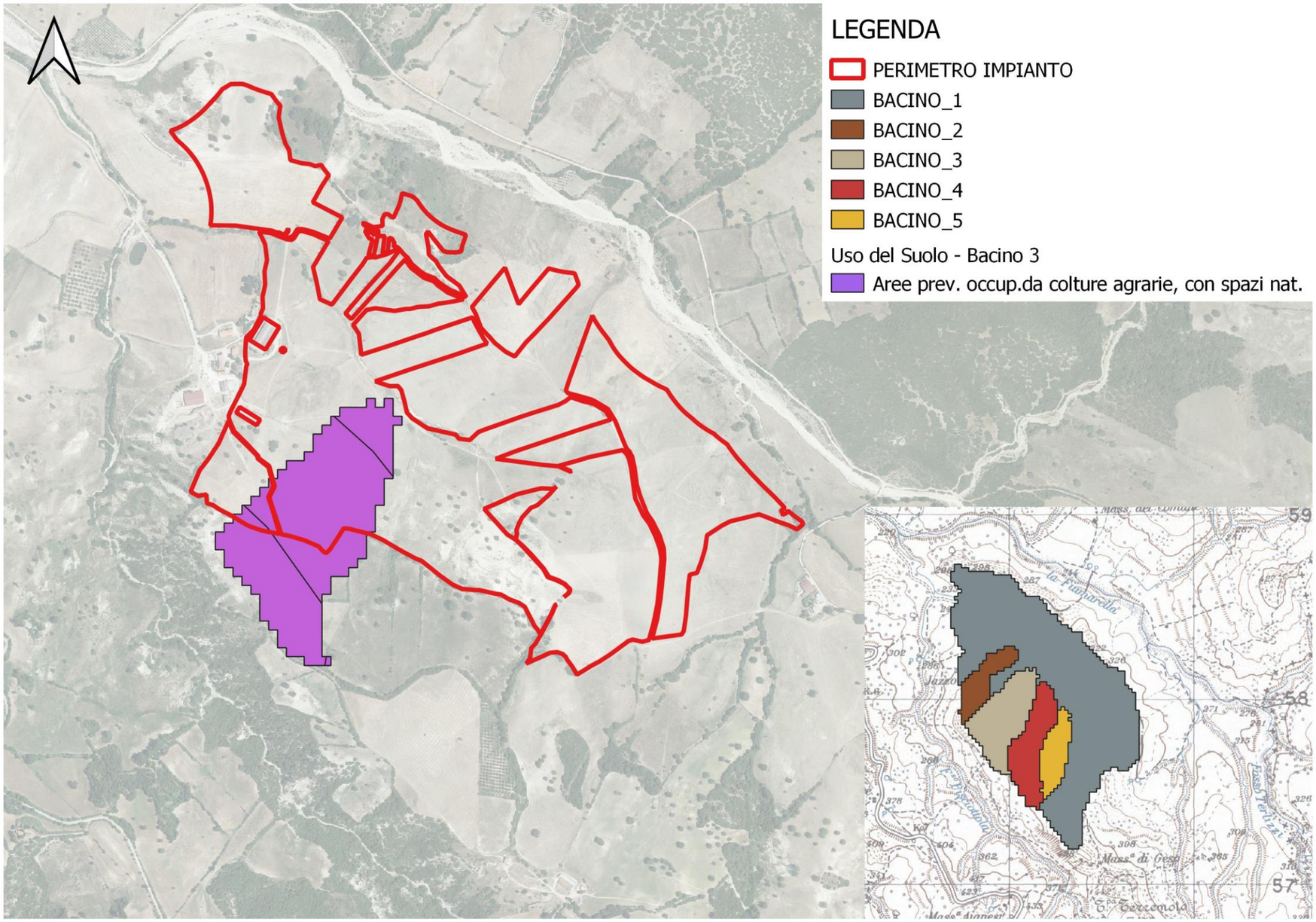


Figura 4: Uso del suolo Bacino 3

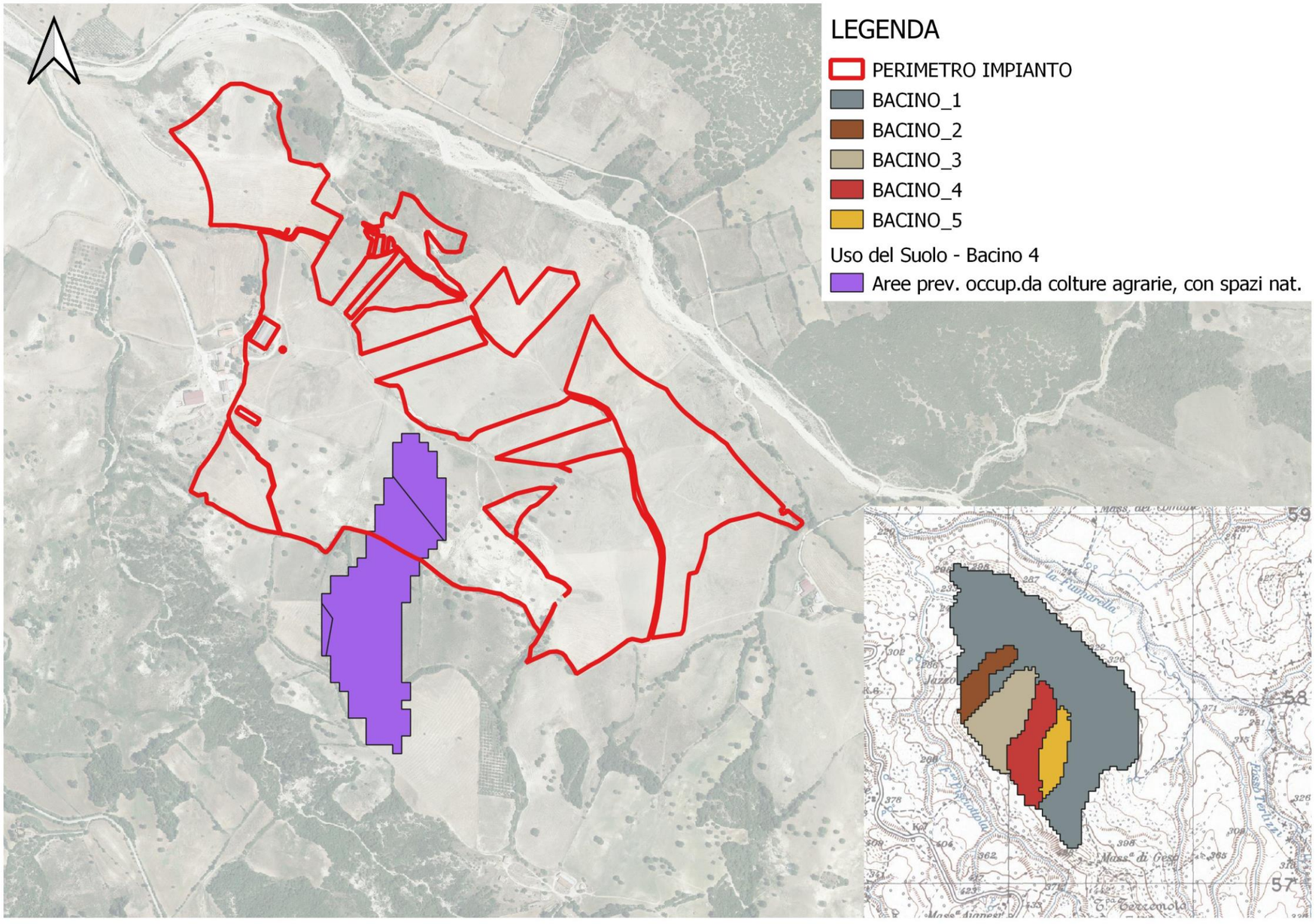


Figura 5: Uso del suolo Bacino 4

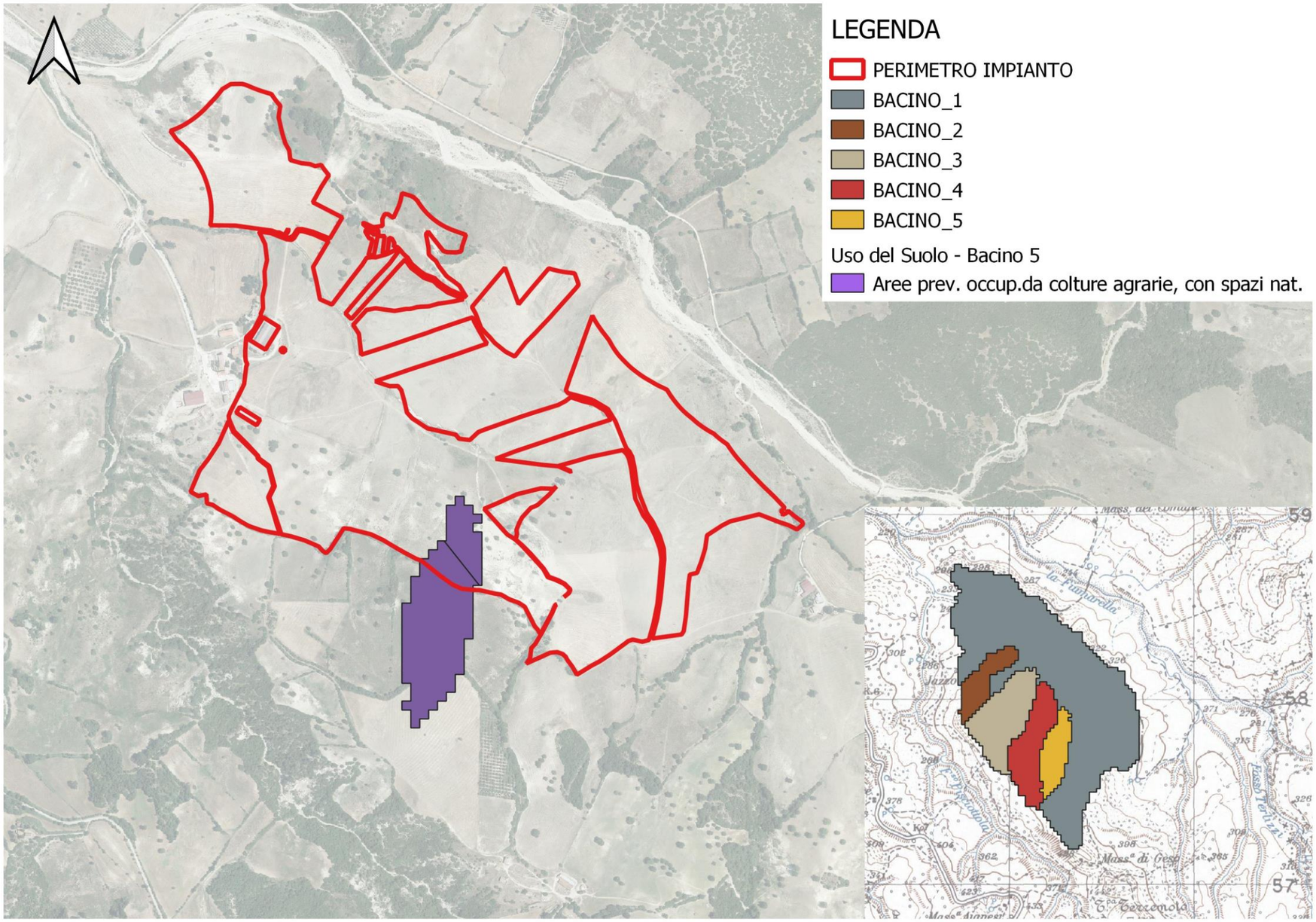


Figura 6: Uso del suolo Bacino 5

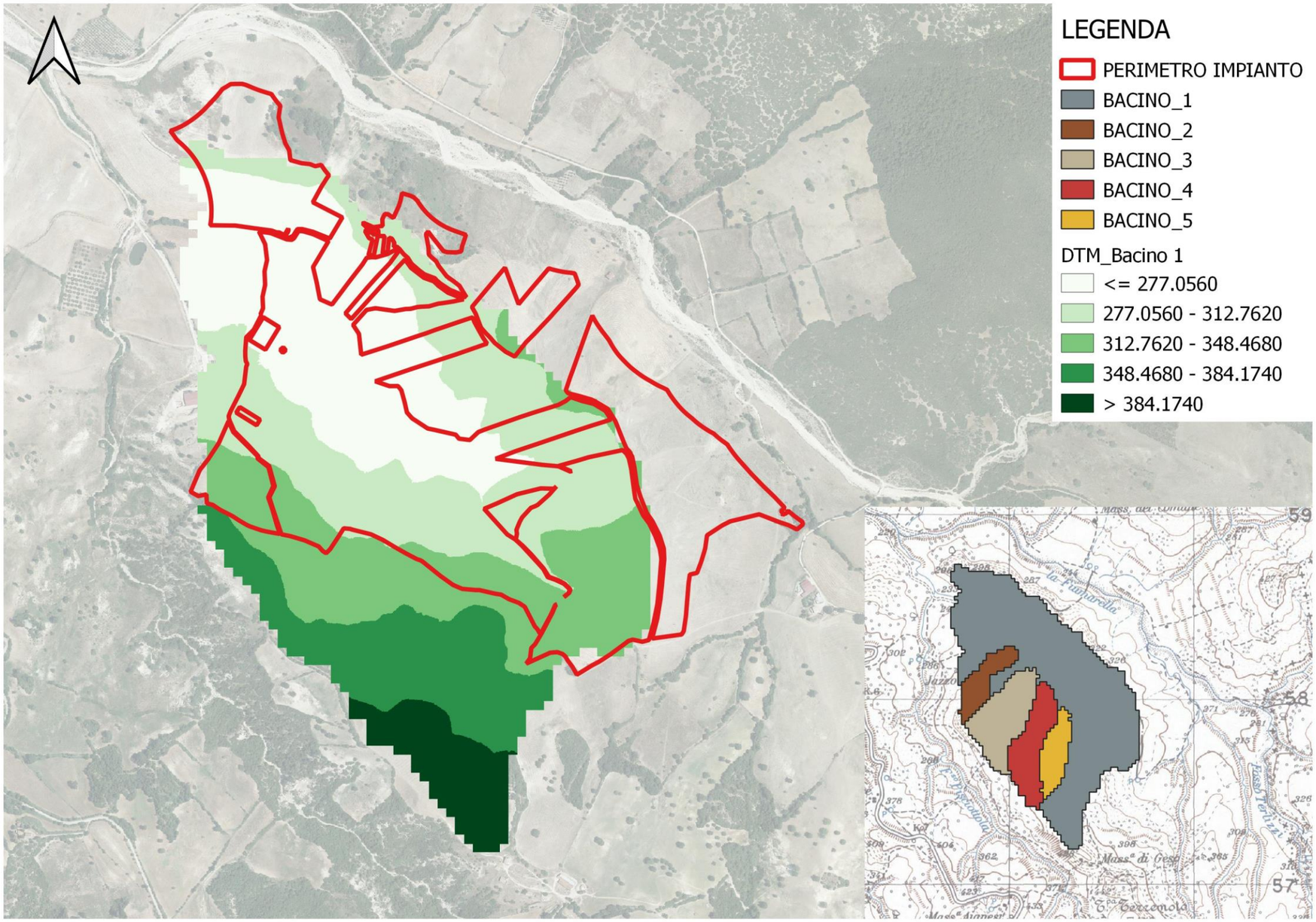


Figura 7: DTM Bacino 1

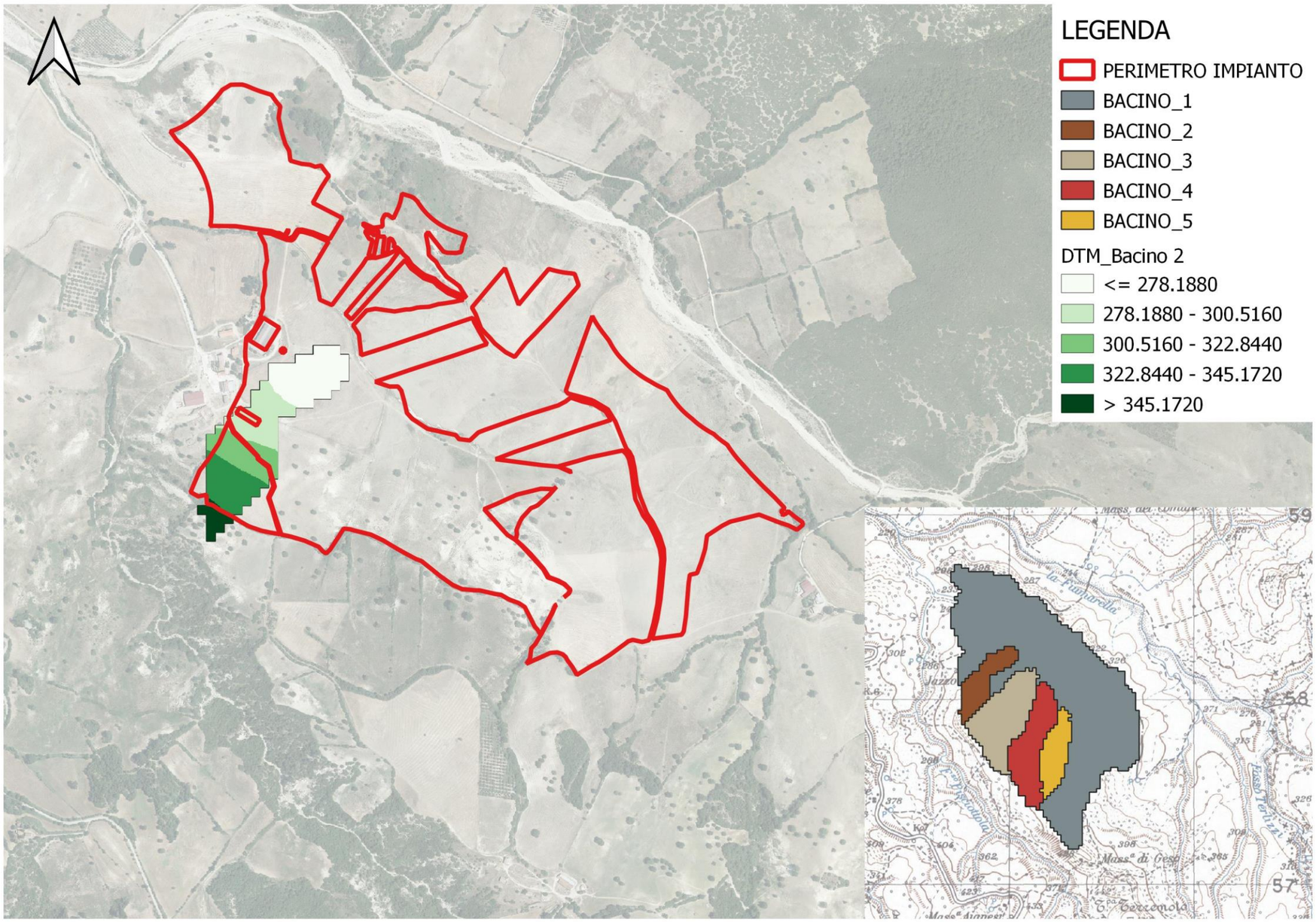


Figura8: DTM Bacino 2

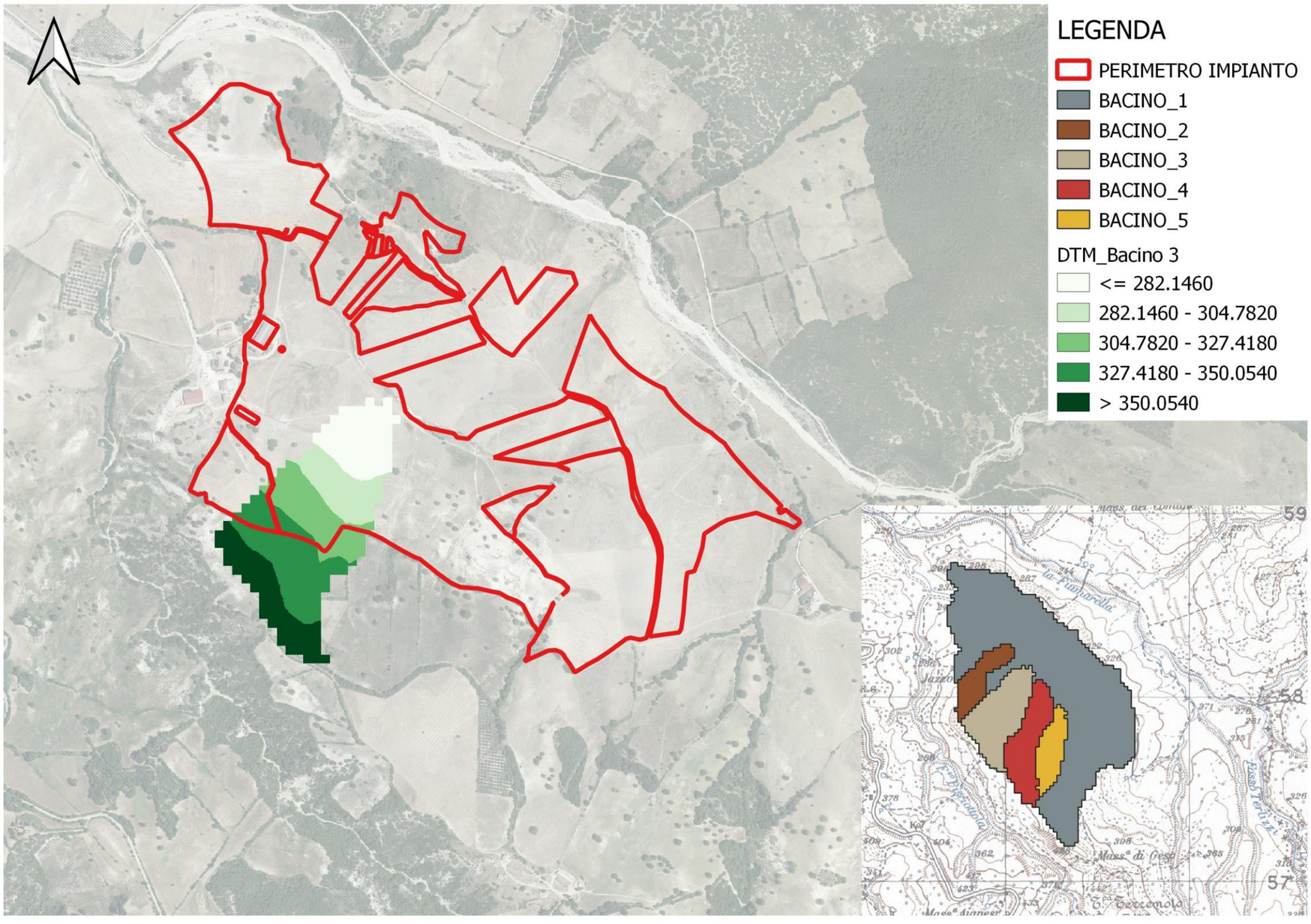


Figura 9: DTM Bacino 3

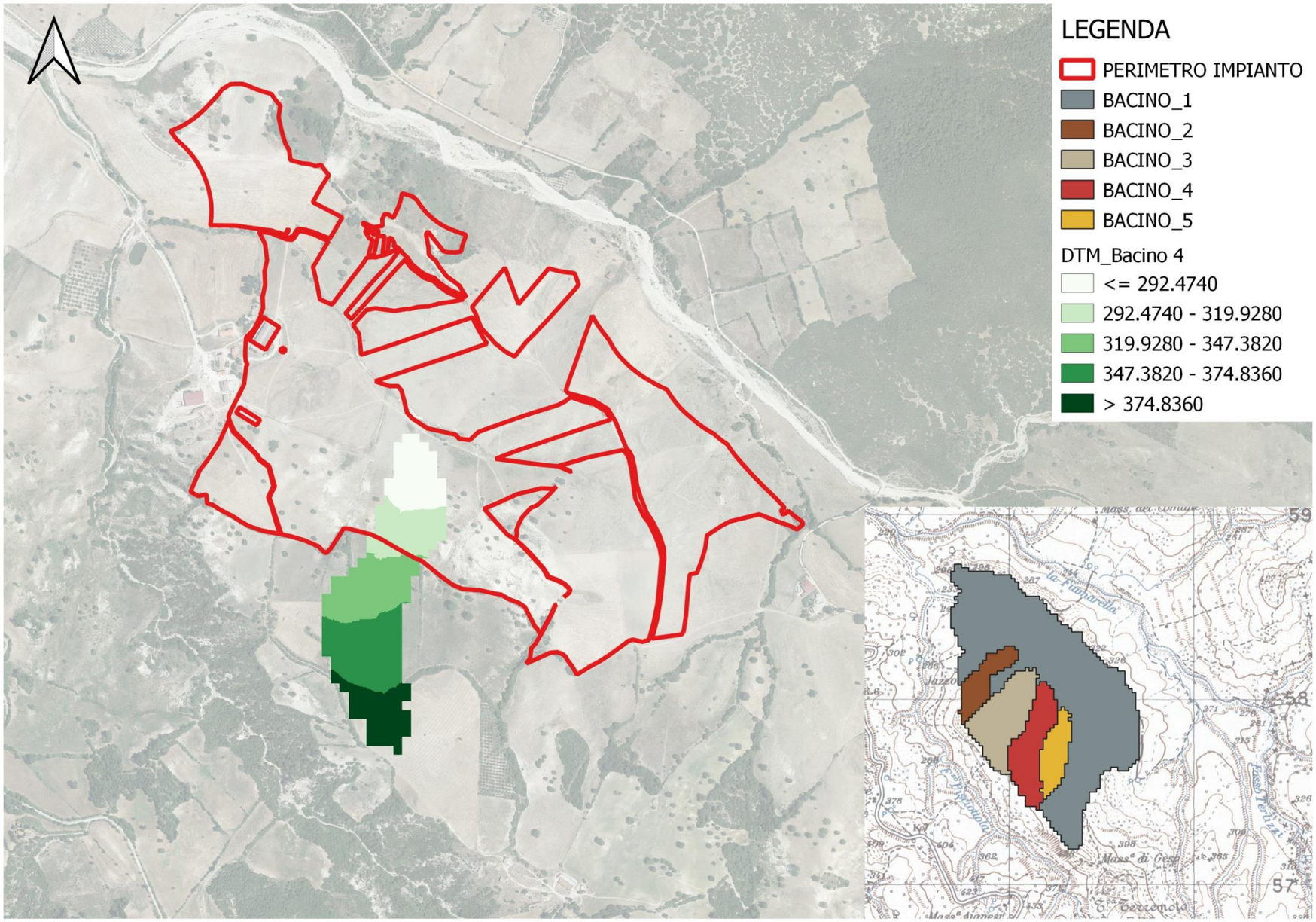


Figura 10: DTM Bacino 4

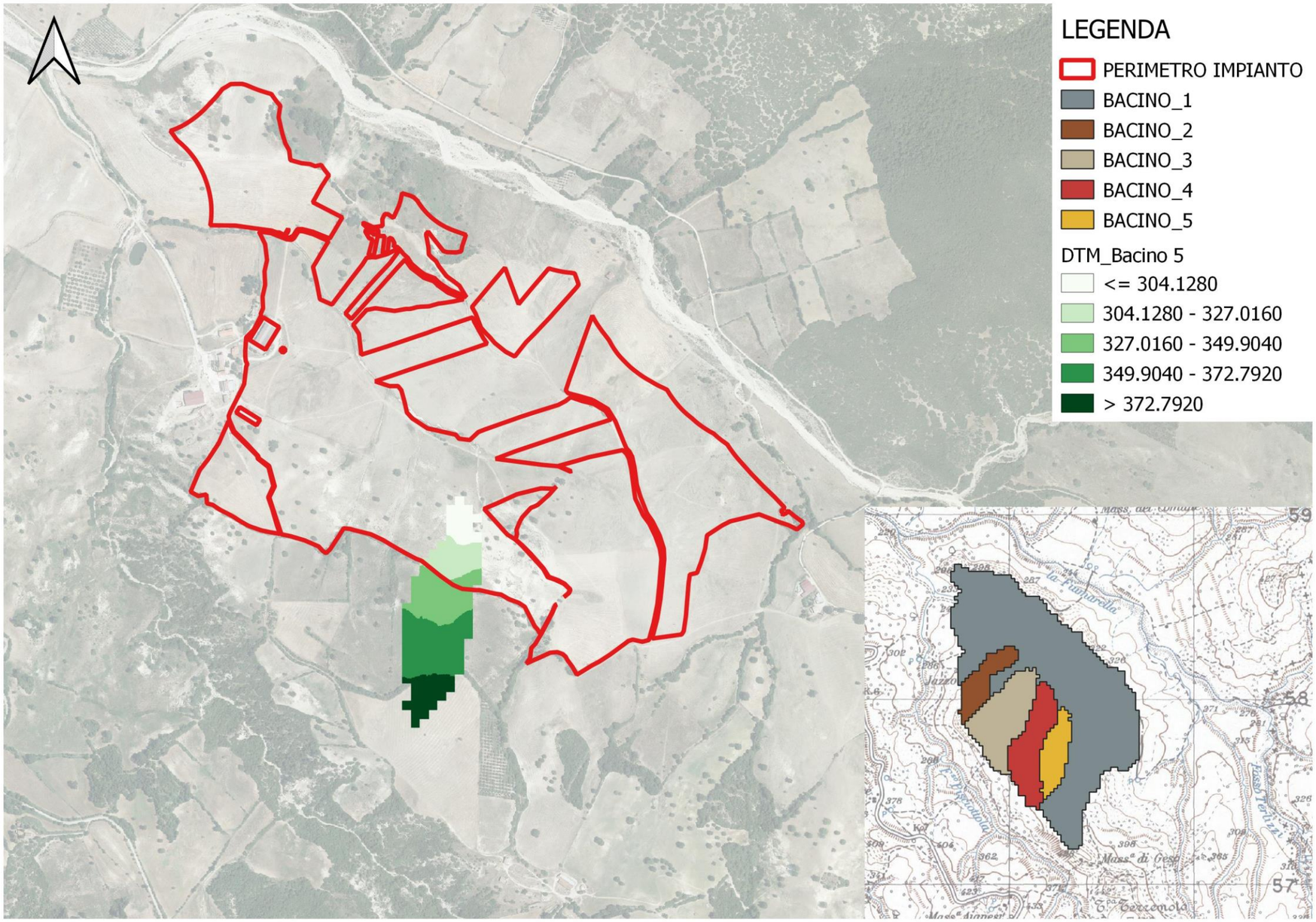


Figura 11: DTM Bacino 5

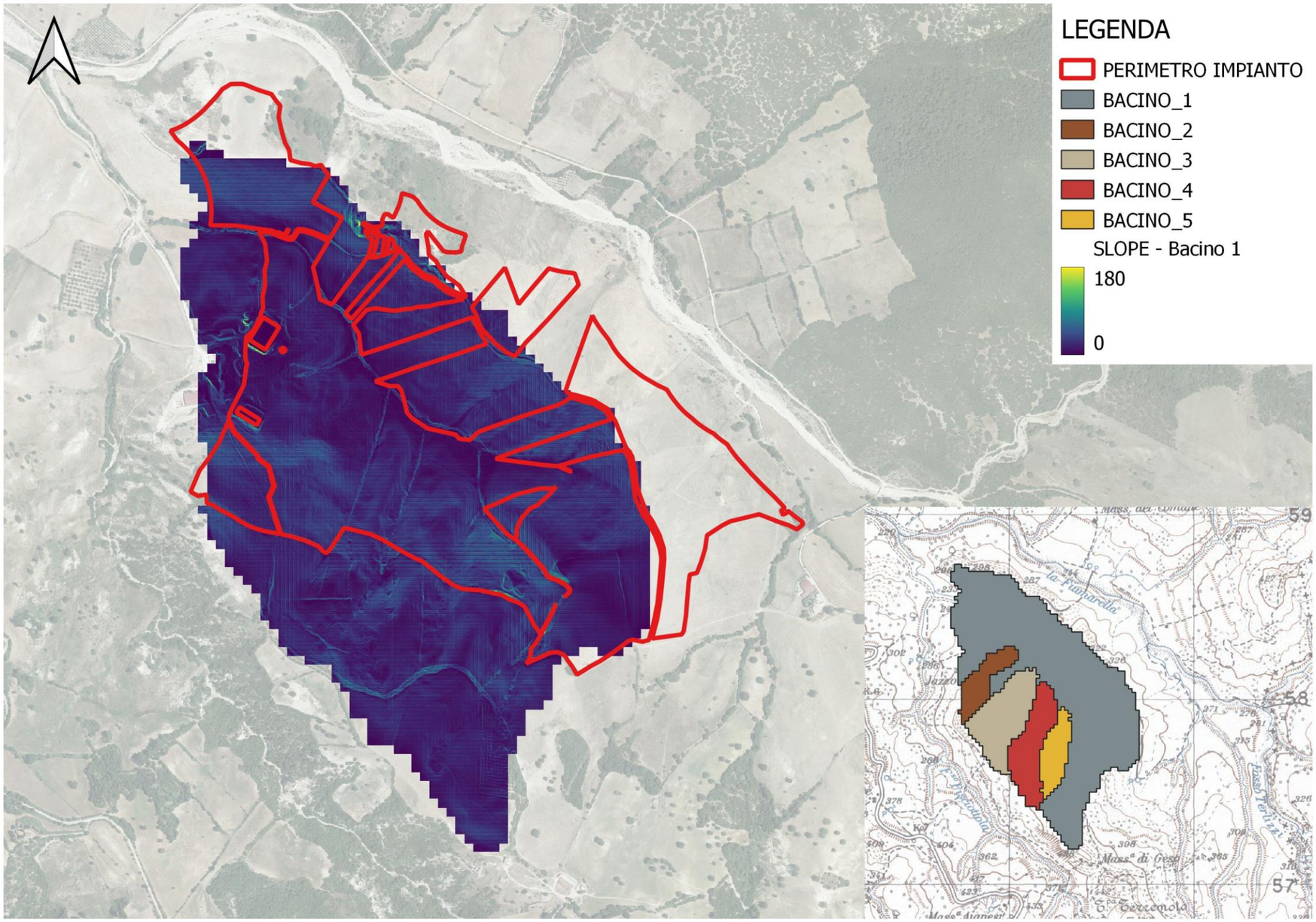


Figura 12: SLOPE Bacino 1

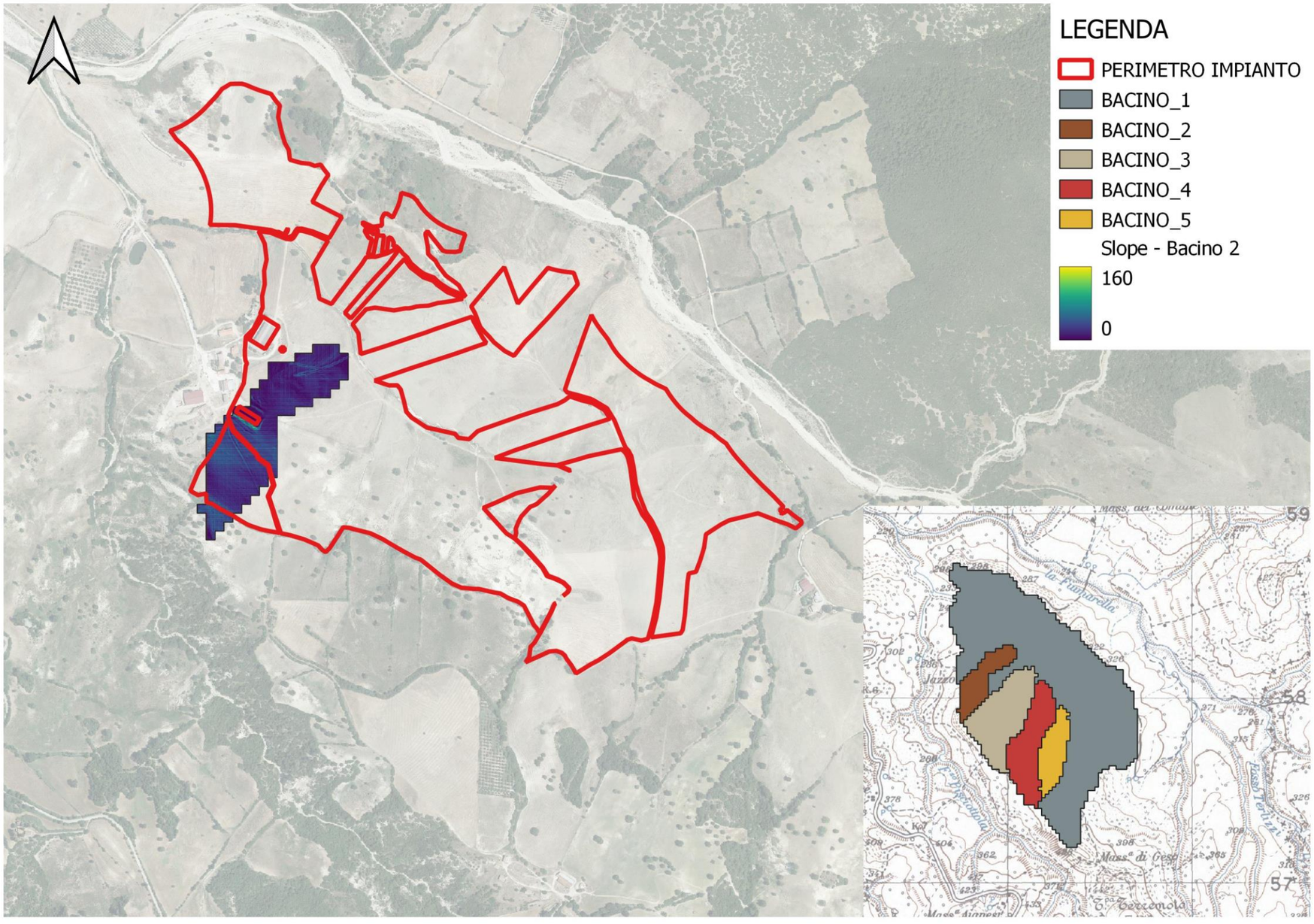


Figura 13: SLOPE Bacino 2

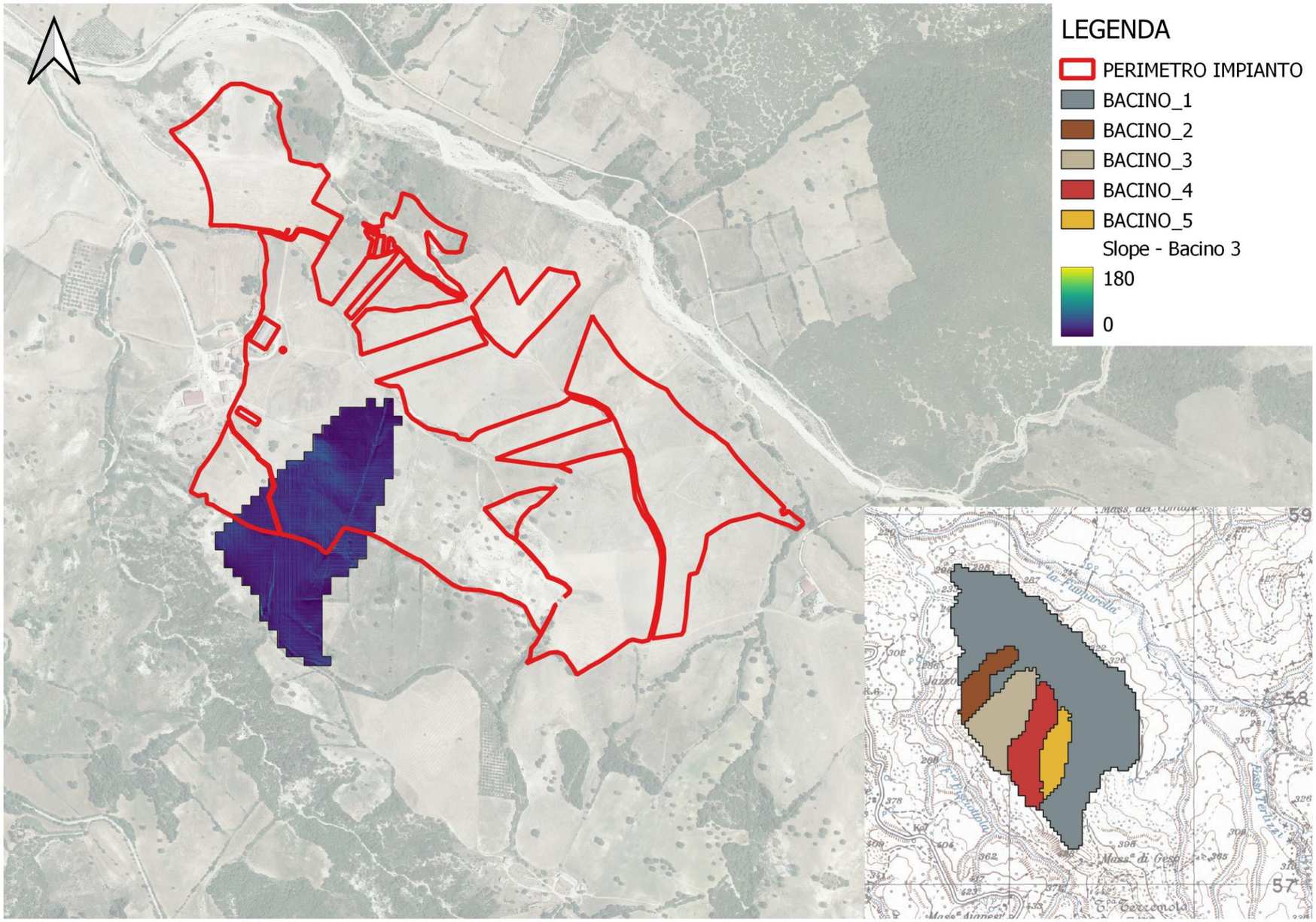


Figura 14: SLOPE Bacino 3

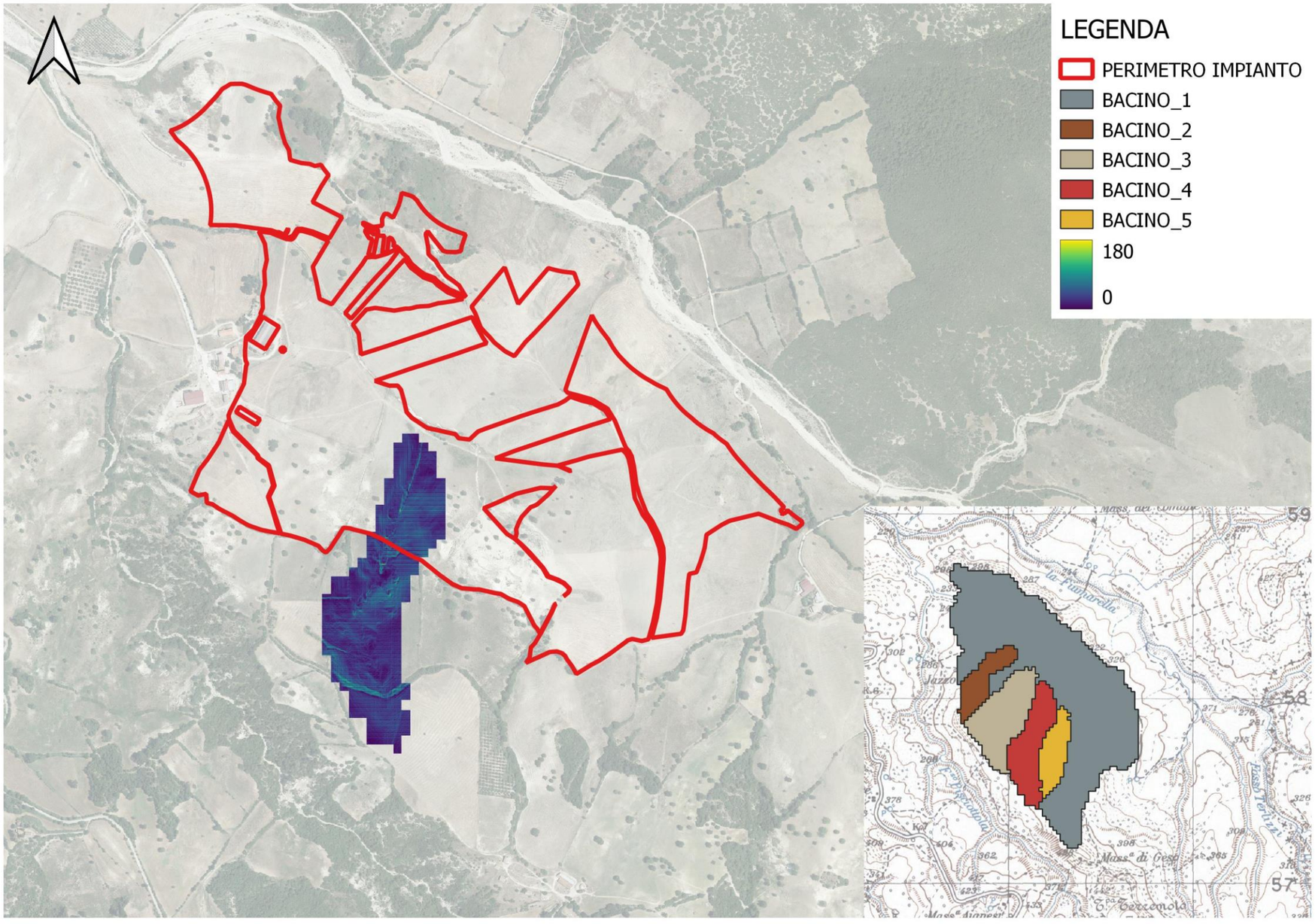


Figura 15: SLOPE Bacino 4

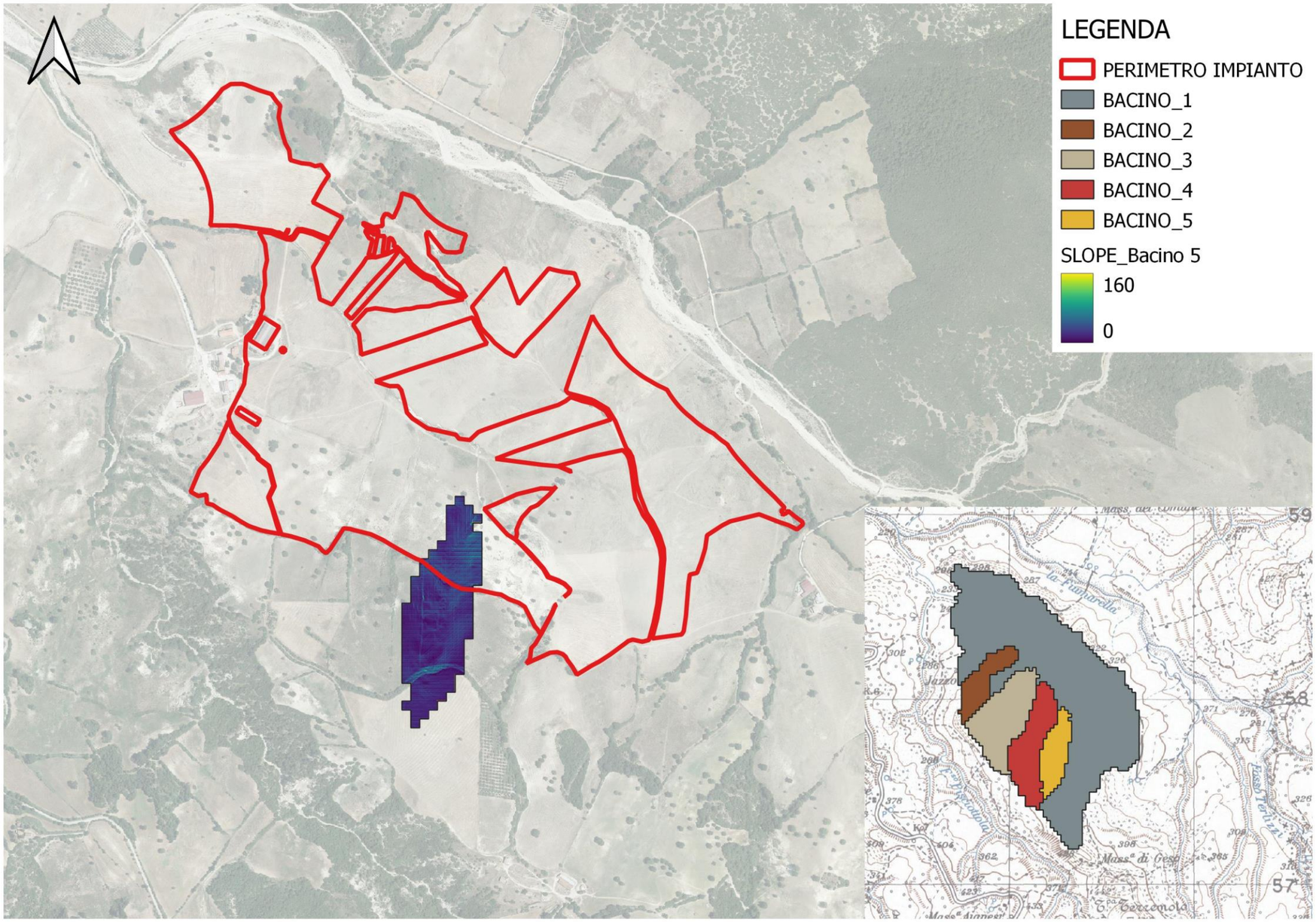


Figura 16: SLOPE Bacino 5