

Table 2 List of volcanic units termed "Peperino" and "Piperno" in the official 1:100,000 Geological Map of Italy (a, b, c) and in two basilar volcanological studies of Latium region (d, e), with equivalent nomenclature in the modern literature

From: [The peperino rocks: historical and volcanological overview](#)

a) Sheet 150 - Roma 1:100,000 Geological Map of Italy - Servizio Geologico d'Italia		
Stratigraphic unit	Description	Equivalent unit in modern geologic and archaeological literature
Tufi grigi granulari, stratificati, orizzonte inferiore Granular grey tuffs, stratified, lower horizon	Sometimes lithoid tuff (improperly called "peperino")	Tufo del Palatino (Marra and Rosa 1995 ; Karner et al. 2001a, b); "Cappellaccio", "Tufo granulare grigio" (Lugli 1957 ; Farr et al. 2015)
"Peperini" inferiori lower peperini	Coarse explosion breaches with xenoliths (paleogenic and Mesozoic limestones, leucitic lavas, etc.)	Phreatomagmatic products of Castiglione Crater (Marra et al. 2003); <i>Lapis gabinus</i> (Peperino di Gabii, pietra gabina; Lugli 1957 ; Farr et al. 2015)
	Compact, grey-greenish facies with small allotigenic elements	Distal products of the 2nd Albano eruptive cycle cropping out near Santa Procula (Freda et al. 2006 ; Giaccio et al. 2009)
Manifestazioni eruttive finali Final eruptive episodes	Explosion pyroclastic breaches, with lapilli, leucocrate ejecta, ultrafemic, biotitic pyroxenites; xenoliths of leucitic lavas and of the substrate (Pliocalabrian clays, paleogenic marls and sandstones, Mesozoic metamorphosized limestones); cineritic facies stratified in the upper portion, in layers and banks, ± consolidated (= "peperino", Auct.). From the craters of Ariccia, Albano, Nemi, Castiglione-Osa, Valle Marciana, Prata Porci, Pantano Secco, Pavona and Giuturna	Several phreatomagmatic products of Colli Albani, including "Peperino di Marino" or "Peperino di Albano" (<i>Lapis albanus</i>) (Marra et al. 2003 ; Freda et al. 2006 ; Giordano et al. 2006)

b) Sheet 143 - Bracciano		
1:100,000 Geological Map of Italy - Servizio Geologico d'Italia		
<i>Stratigraphic unit</i>	<i>Description</i>	<i>Equivalent unit in modern geologic literature</i>
"Ignimbrite" (l.s.), Phonolithic-tephritic or trachytic, with a light grey micropumice matrix and various types of inclusions: biotite and pyroxene crystals, pumice of various colours and sizes, fragments of lava of various kinds, frequent limestone and flint, plant remains; of various consistency, now lithoid ("peperino") now inconsistent (pozzolana)		Tufo di Bracciano (Mattias and Ventriglia 1970); "Bracciano pyroclastic flow unit" (de Rita et al. 1993)
c) Sheet 137 - Viterbo		
1:100,000 Geological Map of Italy - Servizio Geologico d'Italia		
<i>Stratigraphic unit</i>	<i>Description</i>	<i>Equivalent unit in modern geologic literature</i>
"Peperino delle alture" Auct	Quartz-latic lava in domes, sometimes latic-quartzitic and trachyte-quartzitic. Massive rocks in various shades of grey, mostly light. Porphyritic, have large sanidine phenocrysts. Frequent irregular fractures and, at the margins of the domes, divisions into blocks	Lave di Canepina (Sheet 345-Viterbo, 1:50,000 Geological Map of Italy-CARG project, in press)
"Peperino tipico"	Quartz-latic ignimbrites, with variations to rhyolites and quartziferous trachytes. Grey, porphyritic rocks, without large phenocrysts. Lenses and bands roughly stratified and agglomeratic. Varying degree of compactness, almost always present flattened pumices. Various lithic inclusions, mainly of "peperino delle alture". Quarried as an ornamental and building stone	Ignimbrite Cimina (e.g. Cimarrelli and de Rita 2006 ; (Sheet 345-Viterbo, 1:50,000 Geological Map of Italy-CARG project, in press)
d) 1:100,000 Geological map in "La regione vulcanica dei Colli Albani" (Fornaseri et al. 1963)		
<i>Stratigraphic unit</i>	<i>Description</i>	<i>Equivalent unit in modern geologic literature</i>
Prodotti di bocche eccentriche Products of peripheral vents	Mainly grey, consisting of a mixture of ashes with abundant ejecta, among which the white calcareous ones are characteristic; if cemented, they are called (locally) "peperini" and include <i>lapis albanus</i> and <i>lapis gabinus</i>	Several phreatomagmatic products of Colli Albani (Marra et al. 2003 ; Freda et al. 2006 ; Giordano et al. 2006)
e) 1:100,000 Geological map in "La regione vulcanica dei Sabatini" (Mattias and Ventriglia 1970)		
PRODOTTI DEL VULCANO CIMINO		
<i>Stratigraphic unit</i>	<i>Description</i>	<i>Equivalent unit in modern geologic literature</i>
"Peperino tipico" del Viterbese	Latitic or quartz-latic ignimbrite; compact greyish lithified sometimes with columnar cracks, with small scoriae and flattened pumice of yellow to blackish colour	Ignimbrite Cimina (e.g. Cimarrelli and de Rita 2006 ; (Sheet 345-Viterbo, 1:50,000 Geological Map of Italy-CARG project, in press)

Peperino delle alture	Lava domes with variable composition, dark alkaline trachytes, dark quartzolites and dark labradorite riodacites, forming the reliefs of M. Cimino, M. Palanzana, M. S. Valentino, etc	Lave di Canepina (Sheet 345-Viterbo, 1:50,000 Geological Map of Italy-CARG project, in press)
PRODOTTI DEL VULCANO DI VICO		
<i>Stratigraphic unit</i>	<i>Description</i>	<i>Equivalent unit in modern geologic literature</i>
"Peperini listati"	Blera, Mignone, Civitella Cesi, etc.; trachytes, lithoid, light grey to dark grey in colour, with lava fragments and abundant flattened black and locally yellow scoriae	"Peperino listato" (Sabatini 1896); "Ignimbrite B" (Locardi 1965) or "Ignimbrite II trachitica" (Bertini et al. 1971) from Vico volcano
PRODOTTI DEI VULCANI SABATINI		
<i>Stratigraphic unit</i>	<i>Description</i>	<i>Equivalent unit in modern geologic literature</i>
"Peperino della Via Flaminia"	Lithoid grey tuff rich in various inclusions	Tufo del Palatino (Karner et al. 2001a, b ; Farr et al. 2015 ; Diffendale et al. 2018)
Tufi stratificati varicolori di Sacrofano	From cineritic to lapillaceous, mainly incoherent. Some levels have a notable thickness, if grey lithoids are locally called "peperini"	Grottarossa Pyroclastic Sequence (Karner et al. 2001a, b ; Farr et al. 2015)
	Grey brownish to purplish tuff, rich in flattened scoria if close to its point of emission ("fiammae"), rounded in the more distant areas. If cemented, locally called "piperno di Mazzano"	Welded facies of Tufo Rosso a Scorie Nere Sabatino (de Rita et al. 1993) or Tufo Grigio Sabatino (Campobasso et al. 1994)
Tufo di Bracciano	Mainly lithoid known locally as "peperino"	"Bracciano pyroclastic flow unit" (de Rita et al. 1993)
	Predominantly lithoid grey tuff , called (locally) "peperino", rich in fragments of lava, scoriae and sedimentary rocks	Phreatomagmatic products of the Baccano crater (Sottili et al. 2010)
	Finely stratified grey tuffs made up of ashes with abundant inclusions of volcanites (lava and scoria) and sedimentary rocks (limestone, marly limestone, etc.) belonging to the underlying Flysch formation. Locally called "peperini", when cemented	Products of the Hydromagmatic centres (Sottili et al. 2010)