

Additional file 1. List of taxa recognized as non-edible

Scientific name	Local name in Spanish, Nahuatl or both	Community ^a	Edibility ^b
<i>Agaricus sylvicola</i> (Vittad.) Peck	<i>Pipilo</i>	FJM	Edible
<i>Agaricus</i> sp. 1	<i>I-tlatla in āyoh-tzin</i>	SIBS	?
<i>Calvatia</i> sp. 1	<i>Chiteboro de veneno</i>	SIBS	?
<i>Chlorophyllum molybdites</i> (G. Mey.) Masee	<i>Estiércol-nanacatl</i> <i>Totolita</i>	SIBS	Toxic
<i>Coprinus</i> sp. 1	<i>Hongo de veneno, hongo venenoso</i>	SIBS	Toxic
<i>Cystoderma</i> aff. <i>Amianthinum</i> (Scop.) Fayod	<i>Cuerudo</i> <i>Comalito</i>	FJM	Non-edible
<i>Lycoperdon perlatum</i> Pers.	<i>Chiteburo de veneno rojito</i>	SIBS	Edible
<i>Lycoperdon</i> sp. 1	<i>Panza de sabino venenoso</i>	FJM	?
<i>Amanita</i> aff. <i>cinereoconia</i> G.F. Atk.	<i>Ángel venenoso</i> <i>Blanco venenoso</i> <i>Citlal-nanacatl blanco</i> <i>Hongo blanco de veneno, hongo blanco venenoso</i>	FJM SIBS	Non-edible
<i>A. franchetii</i> (Boud.) Fayod	<i>Amantecado amarillo</i> <i>Amantecado venenoso</i> <i>Amarillo</i> <i>Citlal-nanacatl café</i> <i>Ojo de venado</i> <i>Tōtol-te-nanacatl</i> <i>Venado</i> <i>Yema prieta</i>	FJM SIBS	Toxic
<i>A. fulva</i> Fr.	<i>Cuah-tlamanil de veneno</i>	SIBS	Edible
<i>A. gemmata</i> (Fr.) Bertill.	<i>I-tlatla in huevo-nanacatl</i>	SIBS	Toxic

Additional file 1. List of taxa recognized as non-edible

Scientific name	Local name in Spanish, Nahuatl or both	Community ^a	Edibility ^b
<i>A. pantherina</i> Gonnermann & Rabenhorst	<i>Cītlal-nanacatl blanco</i>	FJM SIBS	Toxic
	<i>Mantecado venenoso</i>		
	<i>Mantequilla venenosa/o</i>		
	<i>Venado</i>		
<i>A. pantherina</i> Gonnermann & Rabenhorst	<i>Cītlal-nanacatl blanco</i>	FJM SIBS	Toxic
	<i>Mantecado venenoso</i>		
	<i>Mantequilla venenosa/o</i>		
	<i>Venado</i>		
<i>A. rubescens</i> Pers	<i>Cītlal-nanacatl</i>	SIBS	Edible
	<i>Cuah-tlamanil de veneno</i>		
	<i>I-tlatla in cītlal-nanacatl</i>		
	<i>Mantecada/o</i>		
	<i>Xo-pitzāhuac</i>		
<i>A. rubescens</i> Pers	<i>Cītlal-nanacatl</i>	SIBS	Edible
	<i>Cuah-tlamanil de veneno</i>		
	<i>I-tlatla in cītlal-nanacatl</i>		
	<i>Mantecada/o</i>		
	<i>Xo-pitzāhuac</i>		
<i>A. xylinivolva</i> Tulloss, Ovrebo & Halling	<i>Hongo blanco de veneno/venenoso</i>	FJM	Non-edible
	<i>I-tlatla in huevo nanacatl</i>	SIBS	
	<i>Xo-tomāhuatl</i>		
<i>Amanita</i> sp. 1	<i>Mantecado venenoso</i>	FJM	?
<i>Amanita</i> sp. 2	<i>Yema blanca</i>	FJM	?
	<i>Iztāc nanacatl de veneno</i>		
<i>Amanita</i> sp. 3	<i>Cuah-tlamanil-tzin malo</i>	SIBS	?
<i>Amanita</i> sp. 4	<i>Cītlal-nanacatl</i>	SIBS	?

Additional file 1. List of taxa recognized as non-edible

Scientific name	Local name in Spanish, Nahuatl or both	Community ^a	Edibility ^b
<i>Auriscalpium vulgare</i> Gray	<i>Hongo blanco de veneno/so</i>	FJM	Non-edible
<i>Guepinia helvelloides</i> (DC.) Fr.	<i>Hongo de veneno/so</i>	SIBS	Edible
<i>Phellodon niger</i> (Fr.) P. Karst	<i>Hongo azul de palo venenoso</i>	FJM	Non-edible
<i>Sarcodon</i> sp. 1	<i>I-tlatla in tlalpiltzal</i> <i>Tlalpiltzal de veneno</i>	SIBS	?
<i>Boletus</i> aff. <i>bicolor</i> Raddi	<i>I-tlatla in xo-tomāh</i> <i>Xo-tomāh rabia</i>	SIBS	Edible
<i>Boletus parasitado</i>	<i>Volcancito</i>	FJM	Non-edible
<i>Boletus</i> sp. 1	<i>Panté cimarrón de veneno</i>	FJM	?
<i>Suillellus subvelutipes</i> (Peck) Murrill	<i>Hongo-rado</i> <i>Xo-tomāh de veneno</i> <i>Xo-tomāh-rabia</i>	FJM SIBS	Edible
<i>Xerocomellus chrysenteron</i> (Bull.) Šutara	<i>Xo-tomāh-rabia</i> <i>Hongo-rado</i> <i>Panté cimarrón de veneno</i>	FJM SIBS	Edible
<i>Clavariadelphus truncatus</i> Donk	<i>Bate</i>	SIBS	Edible
<i>Clavulina</i> sp. 1	<i>Escobeta venenosa</i>	FJM	?
<i>Clavulina</i> sp. 2	<i>Escobeta venenosa</i>	FJM	?
<i>Cortinarius</i> sp. 1	<i>Amargoso venenoso</i>	FJM	?
<i>Cortinarius</i> sp. 2	<i>Panté venenoso</i>	FJM	?
<i>Cortinarius</i> sp. 3	<i>Xōlētl de veneno</i>	SIBS	?
<i>Cortinarius</i> sp. 4	<i>Cācāx-nanacatl de veneno</i> <i>Galleta-nanacatl</i>	SIBS	?
<i>Cortinarius</i> sp. 5	<i>Galleta-nanacatl</i>	SIBS	?
<i>Cortinarius</i> sp. 6	<i>Hongo morado de veneno</i>	SIBS	?

Additional file 1. List of taxa recognized as non-edible

Scientific name	Local name in Spanish, Nahuatl or both	Community ^a	Edibility ^b
<i>Cortinarius</i> sp. 7	<i>Estiercol-nanacatl</i>	SIBS	?
<i>Cortinarius</i> sp. 8	<i>Xocoyolin de veneno</i>	SIBS	?
<i>Hemistropharia albocrenulata</i> (Peck) Jacobsson & E. Larss.	<i>Hongo de veneno/so</i>	SIBS	Non-edible
<i>Entoloma</i> sp. 1	<i>I-tlatla in xōlētl</i>	SIBS	?
<i>Geastrum saccatum</i> Fr.	<i>I-tlatla in chiteboro</i>	SIBS	Non-edible
<i>Ramaria abietina</i> (Pers.) Quél.	<i>I-tlatla in xelhuāz</i>	SIBS	Non-edible
<i>R. gracilis</i> (Pers.) Quél.	<i>Una de ratón, Xelhuāz de veneno</i>	SIBS	Edible
<i>Helvella macropus</i> (Pers.) P. Karst.	<i>Cuā-te-cax-nanacatl</i>	SIBS	Non-edible
<i>Helvella</i> sp. 1	<i>Cola</i>	SIBS	?****
<i>Laccaria trichodermophora</i> G.M. Muell.	<i>Xocoyulado venenoso</i>	FJM	Edible
	<i>Hongo de veneno/so</i>	SIBS	
<i>Hygrocybe</i> sp. 1	<i>Clavitos</i>	FJM	?
<i>Hygrophorus purpurascens</i> (Alb. & Schwein.) Fr	<i>Camarón</i>	FJM	Edible
<i>Hygrophorus russula</i> (Schaeff.) Kauffman	<i>Hongo venenoso</i>	FJM	Edible
<i>Hygrophorus</i> sp. 1	<i>Iztāc nanacatl de veneno</i>	SIBS	?
<i>Hygrophoropsis aurantiaca</i> (Wulfen) Maire	<i>Camarón</i>	FJM	Edible
	<i>Brindis</i>	SIBS	
	<i>I-tlatla in te-cōzah</i>		
	<i>Te-cōzah cimarrón</i>		
	<i>Te-cōzah de veneno</i>		
	<i>Te-cōzah de veneno/sa</i>		
	<i>Tlapal-te-cōzah de veneno</i>		

Additional file 1. List of taxa recognized as non-edible

Scientific name	Local name in Spanish, Nahuatl or both	Community ^a	Edibility ^b
<i>Coltricia</i> sp. 1	<i>Ocō-xālito de veneno/so</i>	FJM	Non-edible
<i>Trametes</i> sp. 1	<i>Cucharita</i> <i>Hongo de palo de veneno</i>	FJM	Non-edible
<i>Inocybe</i> sp. 1	<i>Hongo venenoso</i>	FJM	?
<i>Inocybe</i> sp. 2	<i>Hongo venenoso</i>	FJM	?
<i>Inocybe</i> sp. 3	<i>Xōlētl de burro</i>	FJM	?
<i>Lyophyllum</i> gpo. <i>decastes</i>	<i>Xōlētl de veneno</i>	SIBS	Edible
<i>Lyophyllum</i> sp. 1	<i>Hongo venenoso</i>	FJM	?
<i>Lyophyllum</i> sp. 2	<i>Clavo</i> <i>Hongo blanco de veneno/venenoso</i> <i>Ruleta</i>	FJM	?
<i>Lyophyllum</i> sp. 3	<i>Hongo venenoso</i>	FJM	?
<i>Gymnopus dryophilus</i> (Bull.) Murrill	<i>Sombrerito</i> <i>Xōlētl de veneno</i>	SIBS	Edible
<i>Rhodocollybia butyracea</i> (Bull.) Lennox.	<i>Hongo de veneno/so</i>	SIBS	Edible
<i>R. maculata</i> (Alb. & Schwein.) Singer	<i>Camarón</i> <i>Hongo de veneno/so</i> <i>Naranja</i> <i>Paloma</i> <i>Señorita venenosa</i>	FJM SIBS	Non-edible
<i>Hohenbuehelia</i> sp. 1	<i>Hongo de veneno/so</i>	SIBS	?
<i>Psathyrella candolleana</i> (Fr.) Maire	<i>Roto</i>	FJM	Edible

Additional file 1. List of taxa recognized as non-edible

Scientific name	Local name in Spanish, Nahuatl or both	Community ^a	Edibility ^b
<i>Psathyrella</i> sp. 1	<i>Clavo de oyamel</i> <i>Xōlētl de veneno</i>	FJM	?
<i>L. mexicanus</i> A. Kong & Estrada	<i>Cuā-te-cax de veneno I-tlatla in cuā-te-cax</i>	SIBS	Non-edible
<i>Lactarius luculentus</i> Burl	<i>Chīl-nanacatl de veneno</i>	SIBS	Non-edible
<i>L. smithii</i> Montoya & Bandala	<i>Camarón</i> <i>Corneta venenosa</i>	FJM	Non-edible
<i>L. vinaceorufescens</i> A.H. Sm	<i>Chīl-nanacatl de veneno-I-tlatla in chīl-nanacatl</i> <i>Enchilado cimarrón</i>	FJM SIBS	Toxic
<i>Russula densifolia</i> Secr. ex Gillet	<i>Corneta venenosa</i>	FJM	Non-edible
<i>R. emética</i> (Schaeff.) Pers.	<i>Hongo de veneno/so</i>	SIBS	Toxic
<i>R. hydrophila</i> Horniček	<i>Brindis</i>	SIBS	Non-edible
<i>R. romagnesiana</i> Shaffer	<i>Corneta blanca malo</i>	FJM	Edible
<i>R. viscida</i> Kudřna	<i>Brindis</i>	SIBS	Non-edible
<i>R. xerampelina</i> (Schaeff.) Fr.	<i>Brindis moradito</i> <i>Camarón, Moradito, Paloma</i> <i>Señorita venenosa</i> <i>Tiilnanácatl</i>	FJM SIBS	Edible
<i>Russula</i> sp. 1	<i>Cuā-te-cax de veneno</i>	SIBS	?
<i>Russula</i> sp. 2	<i>Hongo de veneno/so</i>	SIBS	?
<i>Agrocybe</i> sp. 1	<i>Hongo de palo de veneno</i> <i>Ocō-xālito blanco</i>	FJM	?
<i>Hypholoma fasciculare</i> Masee	<i>Amarillo</i> <i>I-tlatla in tetecuín</i>	FJM SIBS	Toxic

Additional file 1. List of taxa recognized as non-edible

Scientific name	Local name in Spanish, Nahuatl or both	Community ^a	Edibility ^b
	<i>Ojo de venado</i>		
	<i>Pata de gallina venenosa</i>		
<i>Hypholoma</i> sp. 1	<i>Hongo de mata venenoso</i>	FJM	?
<i>Pholiota highlandensis</i> (Peck) Singer	<i>Ocō-xālito café</i>	FJM	Toxic
	<i>Ocō-xālito de veneno/venenoso</i>		
<i>P. lenta</i> (Pers.) Singer	<i>Patita de pájaro</i>	FJM	Edible
<i>Pholliota</i> sp. 1	<i>Xōlētl de veneno</i>	FJM	?
<i>Pholliota</i> sp. 2	<i>Hongo venenoso</i>	FJM	?
<i>Suillus pseudobrevipes</i> A.H. Sm. & Thiers	<i>Popozoh de veneno</i>	FJM	Edible
<i>S. tomentosus</i> (Kauffman) Singer	<i>Pancita venenosa</i>	FJM	Edible
	<i>Panza cimarrón</i>		
<i>Clitocybe aff. crispa</i> H.E. Bigelow & A.H. Sm.	<i>Trompeta venenosa</i>	FJM	Non-edible
<i>Infundibulicybe gibba</i> (Pers.) Harmaja	<i>I-tlatla in esquilon</i>	SIBS	Edible
<i>C. odora</i> (Bull.) P. Kumm.	<i>Esquilon-nā-nanacatl</i>	SIBS	Edible
<i>Clitocybe</i> sp. 1	<i>Ocō-xālito de veneno/so</i>	FJM	?
<i>Clitocybe</i> sp. 2	<i>Hongo de veneno/so</i>	FJM	?
<i>Lepista nuda</i> (Bull.) Cooke	<i>Hongo de veneno/so</i>	SIBS	Edible
<i>Leucopaxillus</i> sp. 1	<i>Xōlētl de veneno</i>	SIBS	?
<i>Tricholoma virgatum</i> (Fr.) P. Kumm	<i>Amargo</i>	FJM	Non-edible
	<i>I-tlatla in caylita</i>	SIBS	
<i>Tricholoma</i> sp. 1	<i>Iztāc nanacatl de veneno</i>	SIBS	?
<i>Tricholoma</i> sp. 2	<i>Hongo de veneno/so</i>	SIBS	?

^a FJM Francisco Javier Mina, SIB San Isidro Buensuceso

^b Based on information from the literature.

? Edibility unknown.

Additional file 2. Cultural importance of non-edible mushrooms in Francisco Javier Mina

Scientific name	Traditional name Ethnotaxon	Mention frequency		Mention order	
		M.N.	% M.	NV.MO	ROV
<i>Amanita muscaria</i>	ajonjolinado	25	80.64%	19 (1 st) 3 (2 nd) 3 (4 th)	21.25
<i>Pholiota</i> sp. 1 <i>Psathyrella</i> sp. 1	xolete de veneno	9	29.03%	3 (2 nd) 2 (3 rd) 2 (4 th) 2 (5 th)	3.06
<i>Neoboletus erythropus</i>	hongo-rado	7	22.58%	2 (1 st) 2 (2 nd) 2 (3 rd) 1 (4 th)	3.92
<i>Tricholoma equestre</i>	amargoso	6	19.35%	1 (1 st) 1 (2 nd) 2 (4 th) 1 (6 th) 1 (7 th)	2.31
<i>Suillus pseudobrevipes</i> <i>S. tomentosus</i>	popozoh venenoso	6	19.35%	1 (2 nd) 3 (3 rd) 1 (4 th)	1.95

Scientific name	Traditional name Ethnotaxon	Mention frequency		Mention order	
		M.N.	% M.	NV.MO	ROV
				1 (5 th)	
<i>Boletus</i> sp.1 <i>Xerocomellus</i> <i>chrysenteron</i>	panté venenoso	5	16.13%	3 (2 nd)	2
<i>Clavulina</i> sp. 1 y sp 2	escobeta de veneno	5	16.13%	2 (4 th)	
				1 (1 st)	1.71
				1 (3 rd)	
				1 (7 th)	
				1 (8 th)	
				1 (9 th)	
<i>Gyromitra ínfula</i>	orejas de padre	5	16.13%	1 (1 st)	1.49
				1 (4 rd)	
				1 (8 th)	
				1 (9 th)	
<i>R. xerampelina</i>	señoritas de veneno	5	16.13%	1 (3 rd)	1.14
				2 (4 th)	
				1 (6 th)	
				1 (7 th)	
<i>A. aff. cinereoconia</i> <i>A. xylini involva</i> <i>Lyophyllum</i> sp. 2	hongo blanco venenoso	5	16.13%	1 (4 th)	0.86
				1 (5 th)	
				1 (6 th)	
				1 (7 th)	
				1 (10 th)	
<i>L. vinaceorufescens</i>	enchilado malo	4	12.90%	1 (1 st)	1.56
				1 (4 th)	
				1 (6 th)	
				1 (7 th)	

Scientific name	Traditional name Ethnotaxon	Mention frequency		Mention order	
		M.N.	% M.	NV.MO	ROV
<i>Lactarius mexicanus</i>	corneta de veneno	4	12.90%	1 (2 nd) 1 (3 rd) 1 (4 th) 1 (6 th)	1.25
<i>A. pantherina</i>	venadito venenoso	3	9.68%	2 (2 nd) 1 (7 th)	1.14
<i>Hygrocybe</i> sp. 1	clavito malo	3	9.68%	3 (5 th)	0.6

MN: Mentions Number, % M: Mention proportion, NV MO.: Number of times mentioned in each order of mention, ROV: Ordinal value of rank

Additional file 3. Cultural importance of non-edible mushrooms in San Isidro Buensuceso

Scientific name	Traditional name	Mention frequency		Mention order	
	Ethnotaxon	M.N.	% M.	NV.OM.	OVR
<i>Boletus aff. bicolor</i>	xo-tomāh-rabia	47	78.33%	16 (1 st)	26.82
<i>Neoboletus erythropus</i>				12 (2 nd)	
<i>Xerocomellus chrysenteron</i>				7 (3 rd)	
				6 (4 th)	
				4 (5 th)	
				1 (6 th)	
				1 (15 th)	
<i>A. muscaria</i>	cītlal-nanacatl	40	66.67%	25 (1 st)	30.79

				8 (2 nd)	
				3 (3 rd)	
				1 (4 th)	
				2 (5 th)	
				1 (7 th)	
<i>Sarcodon</i> sp. 1	tlalpiltzal de veneno	27	45%	3 (1 st)	9.87
				6 (2 nd)	
				5 (3 rd)	
				2 (4 th)	
				3 (5 th)	
				3 (6 th)	
				2 (7 th)	
				2 (9 th)	
				1 (11 th)	
<i>Suillus</i> spp.	popozoh de veneno	18	30%	3 (1 st)	7.72
				5 (2 nd)	
				4 (3 rd)	
				1 (5 th)	
				2 (6 th)	
				1 (7 th)	
				2 (8 th)	
<i>Ramaria abietina</i> <i>R. gracilis</i>	xelhuāz nanacatl de veneno	18	30%	2 (3 rd)	3.79
				6 (4 th)	
				5 (5 th)	
				2 (6 th)	
				1 (7 th)	
				1 (12 th)	
				1 (14 th)	
<i>L. mexicanus</i>	cuā-te-caxnanacatl de veneno	13	21.67%	2 (2 nd)	3.39
				2 (3 rd)	
				5 (4 th)	

				2 (7 th)	
				1 (10 th)	
				1 (12 th)	
<i>Hygrophoropsis aurantiaca</i>	te-cōzah de pitzō-nanacatl	11	18.33%	1 (1 st)	3.78
				2 (2 nd)	
				3 (3 rd)	
				1 (4 th)	
				1 (6 th)	
				2 (8 th)	
				1 (9 th)	

Scientific name	Ethnotaxon	Frequency of mention		Order of mention	
		N.M.	% M.	NV.OM.	OVR
<i>Agaricus</i> sp. 1	āyoh-tzin de veneno / estiercolnanacatl	7	11.66%	1 (1 st)	1.83
<i>Chlorophyllum molybdites</i>				1 (4 th)	
				1 (5 th)	
				1 (7 th)	
				2 (11 th)	
				1 (16 th)	
<i>C. odora</i>	esquilon-nā-nanacatl de veneno	6	10%	1 (1 st)	2.24
				1 (2 nd)	
				1 (4 th)	
				1 (5 th)	
				1 (6 th)	
				1 (8 th)	
<i>L. vinaceorufescens</i>	chīl-nanacatl de pitzō-nanacatl / chīl-nanacatl de veneno	6	10%	1 (3 rd)	1.1
				2 (4 th)	
				1 (7 th)	

1 (13th)

1 (20th)

M.N.: Mentions Number, % *M.*: Mention proportion, *NV.MO.*: Number of times mentioned in each order of mention, *ROV*: Ordinal value of rank.