Neolithic settlement at Bylany - essential database

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Introduction

This publication is not a standard professional study. We have attempted to introduce the systematic foundation that was applied during the processing and evaluation of archaeological material from the Bylany 1 site in Bylany near Kutná Hora. The discovery and terrain excavations of the Neolithic settlement at this location was significant on its own accord: it was the first excavation conceived in this manner of a large surface of a Neolithic settlement area with numerous house foundations and adjacent pits (Fig. 19-22). However, the Bylany site became known also for the processing of a large assemblage of archaeological finds using an approach that remains unique to this day.

The team of researchers under the leadership of B. Soudský became pioneers in the application of formalized data processing using a numerical code that was created especially for the needs of processing the finds from Bylany. Each studied artefact characteristic was regarded in this system as an attribute that can be assigned a numerical code of up to three digits. The given method was adapted to automated processing based on the computing technology available at the time – specifically machines for reading punched cards. The technical possibilities of the machine required the rigorous numerical coding of all attributes, something that might seem impractical given the possibilities of today's database software. While the actual formalized descriptive system is undoubtedly obsolete, the great amount of data that was recorded by means of this system (the database contains more than 170 000 entities) makes it still useful. The contemporary significance of the "Bylany code" is also based on the fact that the system of basic descriptive variables was meticulously developed over many years on the basis of empirical knowledge. Therefore, the selection and form of applied descriptors is a good guideline for possible additional related descriptive systems, not only for the Neolithic period.

In this work all of the descriptive attributes of the "Bylany – Essential Database" were collected and decoded. We have attempted to explain individual database fields in words using images and references to literature. The volume also includes a CD containing "Bylany – Essential Database" in MDB format, drawing documentation of finds and features, as well as a vector map of the locality. We chose a structure for the database that was as simple as possible, on the assumption that the user can change the format, e.g. create relational queries (Fig. 23

and 24). Nevertheless, the database and its contents are regarded as a copyrighted work protected by the relevant laws (see below for details).

The authors hope that the work will be understood as a source of data serving for the further study of Neolithic society and culture. The publication can likewise be used for the purposes of university archaeology instruction. On yet another level, this volume can be understood as a contribution to the history of the development of a formalized description of the characteristics of artefacts and their automated processing.

The publication is the result of two grant projects: "*Archeogeografie neolitických sídelních areálů. Mikroprostorová analýza artefaktů*" (*GAČR 404/03/0361*) - (The Archaeogeography of Neolithic Settlements. A Microspatial Analysis of Artefacts" (Czech Science Foundation 404/03/0361)) and "Life on the Neolithic Site of Bylany. Situational Analysis of Artefacts" (Grant Agency of the Academy of Science of the Czech Republic A900.2601). Software for the preparation and processing of data was secured through the project entitled "*Digitální archiv české archeologie*" (*GAČR 1ET200020405*) – (Digital Archive of Czech Archaeology" (Czech Science Foundation 1ET200020405)).

The database system was developed by Mgr. Pavel Vavřín and Ing. Tomáš Fulajtar. Mgr. Markéta Končelová created the illustration appendices and Jana Poupová proofread the text. Many thanks to all of our colleagues who contributed their work and advice.

Use of the database in terms of copyright protection

At this stage, the database is available to parties with a serious interest in using this source. As the document is written in a specific language, it is assumed that those interested in using the database will first familiarize themselves with its structure and other matters related to the database. Due to the size of the database, sufficient knowledge of its structure and content is essential for further use. It is assumed that users will respect the brief license agreement and a certain ethic occupational responsibility, as well as the fact that the work is copyrighted pursuant to Act No. 121/2000 Coll. and is therefore afforded the full protection of this law. Copyright protection of such files as well as databases, particularly databases of symbolic variables, is difficult to enforce from a legal perspective; therefore, respecting the copyright is essentially a matter of ethical research cooperation.

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Autoři díla: Authors of the work: P. Květina, I. Pavlů. P. Květina, I. Pavlů.

Structure of the Bylany – Essential Database

The database contains archaeological information from the Bylany 1 site (areas A, B, F) and is conceived as a bi-level system. Containing a prepared form-type display with basic filters, the basic level of the database is intended for standard users (Fig. 23 and 24). It also includes an interface that connects the database with image documents in PDF format. For more information see the chapter "Instructions for using the CD".

The second, expanded, level of the database is intended for advanced users that can work with all of the tables and create their own queries. Users also have the possibility of using independent vector levels in SHP format (created in ArcGis 9). These can be used to compile a GIS map of the Bylany site, either in the user's own software or by means of a prepared map project and the installation of the included ArcReader 9.2 program. The GIS map can be connected to BY11–BY15 tables to perform spatial analyses.

From the onset, the "Bylany – Essential Database" has been conceived as a combination of a basic card index and an analytical database, functions that are also supported by the structure of the tables. The database contains a total of sixteen basic tables (labelled BY01–BY16) and a series of auxiliary tables (labelled D900–D919). Tables BY01–BY04 offer records of spatial contexts, archaeological finds and their characteristics. The following twelve tables (BY05–BY16) present special records of individual entities (houses, ceramics, chipped (flints) and polished tools (axes and adzes), grinding stones (manos and metates) and chronological segments).

Name of table	Description	Entity
BY01 katalog objektů	Inventory and description of feature (nits)	Spatially demarcated unit (feature or part thereof)
BY02_katalog nálezů keramika	List of ceramic finds	Artefact
BY03_katalog nálezů_nekeramika	List of non-ceramic finds	Artefact
BY04_přehled inventáře	List of bags and their contents (inv. nos.) according to feature	Bag
BY05_KE-LBK-1EV	Primary records of LBK ceramic finds	Artefact (ceramic fragment)
BY06_KE-LBK-2EV	Secondary classification of LBK ceramics	Spatially demarcated unit (feature or part thereof)
BY07_ŠI	Records and typology of chipped tools (flint)	Artefact (chipped tool)
BY08_BI	Records and typology of polished tools	Artefact (polished tool)
BY09_MLÝNY	Records and typology of grinding stones (manos and metates)	Artefact (grinding stone)
BY10_domy datování	Chronology of houses in categories: stage, phase, interval	Ground plan of house

BY11_fáze-interval- kontext	Chronology of features (pits) in categories: phase, stage, interval	Context	
BY12_objekty-celky	Listing and description of archaeological contexts (analytical units)	Context	
	Morphology and typology of	Ground	lion
BY13_DOMY	nouses	house	rela
BY14_KE-LBK-celky	Secondary classification of LBK ceramics according to spatial analytical units	Context	oles corr
BY15_nekeramika-celky	Records of non-ceramic finds, including finds other than LBK ceramics, according to spatial analytical units	Context	Enat
BY16_kontexty GIS v2	Summary of contexts that were vectorized and are part of attached GIS map	Context	
D900 – D919	Auxiliary and system tables		

Table 1. Basic table structure of "Bylany – Essential Database".

The following chapters explain the structure of database tables and the character of individual fields. Variables are explained with a written description or by means of images.

Tabulka BY01_katalog objektů

- Entity: spatially demarcated section (archaeological feature or part thereof).
- Number of entities: 1 888
- Number of fields: 23
- Description: a catalogue of spatially demarcated sections (archaeological features or parts thereof), their attributes (dimensions, fill, presence of finds), circumstances of excavation and relationships with respect to the construction complex of houses ("building complex").

	Field Heading		Description of quality		
2	i	Automatic number classification			
4	OBJ	Feature number (context)	Numerical field		
		Feature section	<u>Finds from one part of feature:</u> 1-a; 2-b; 3-c; 4-d; 5- e; 6-f; 7-g; 8-h; 9-i		
			Finds from two parts of feature: see the coding of layers and parts		
	CAST		Finds from three parts of feature: see the coding of		
	OBJDRUH	Type of feature according to documentation (written)			
	NALEZISTE	Locality	BY1 – Bylany 1 area		
	SEKCE	Locality section	Section A, B, F (Fig. 19-22)		
	SEKTOR	Sector of square grid, 15 x 15 m			
	ROK	Year of excavation			
	VYZKCAST	The feature was only partially excavated	x – yes		
	VYZKCELY	The entire feature was excavated	x – yes		

DELKA_CM	Length in cm	Numerical field
SIRKA_CM	Width in cm	Numerical field
HLOUBKA_CM	Depth in cm	Numerical field
VYPLN_KOD	Schematized fill code (see maps for details)	 Uniform black Uniform brown Black with yellowish soil Brown with yellowish soil Layered With daub (storage pit) With a daub layer or mixed with daub With a charcoal layer or mixed with charcoal Non-uniform, varied at individual depths
NALEZY_ANO	Finds removed	x – yes
NALEZY_NE	Without finds	x – yes
Data concerning spati	al relationships of the feature to it	s surroundings:
IZOL_01	Feature is isolated	x – yes
EEI	Feature belongs to (house number)	House number
EEIII	Feature likely belongs to (house number)	House number
EEII	Feature definitely does not belong to (house number)	House number
EEIV	Feature likely does not belong to (house number)	House number
TABULKA	Reference to page in relevant part of catalogue	
POKRAC_EE	Additional data from external records	

Tabulka BY02_katalog nálezů_keramika

- Entity: artefact
- Number of entities: 76 303
- Number of fields: 35
- Description: catalogue of ceramic archaeological finds with more detailed records of ceramic attributes.
- Literature: Pavlů, I. – Zápotocká, M. – Soudský, O. 1985: Bylany, katalog: section A – part 2. Text. Excavations 1953-1967. Prague
 - Pavlů, I. Zápotocká, M. 1978: Analysis of the Czech Neolithic Pottery. Prague: Institute of Archaeology.

Soudský, B. 1967: Principles of Automatic Data Treatment Applied on Neolithic Pottery. Prague-Stockholm. Manuscript.

Zápotocká, M. 1998: Bestattungsritus des Böhmischen Neolithikums (5500 – 4200 B.C.). Prague: Institute of Archaeology.

Field	Heading	Description of quality
KUL	Culture, period	Period: 1 – Palaeolithic, Mesolithic; 2 – Neolithic; 3 – Eneolithic; 4
		– Bronze Age, Hallstatt A, B; 5 – Hallstatt C, D, La Tene; 6 –
		Rome, Migration Period; 7 – Early Middle Ages; 8 – High Middle
		Ages, Early Modern period
		Neolithic culture: 21 – Starčevo-Criŝs; 22 – Linear Pottery; 23 –
		Bükk; 24 – Tisza; 25 – Lengyel, Moravian Painted; 26 – Stroked
		Pottery, Late Lengyel; 27 – Tiszapolgár

LOKALITA	Locality, cadastre	Code list of cadastres; this concerns Bylany in the basic table
NALEZ	Type of find	Artefacts by material:
		10 Burnt clay
		20 Stone artefacts
		30 Copper artefacts
		40 Iron artefacts
		50 Other artefacts from inorganic materials
		60 Bone artefacts
		70 Daub
		80 Charcoal and organic materials
		90 Other
		<u>Artefacts in detail:</u> 11 – ceramics; 13 – clay spoons; 15 – clay
		wheels; $16 - \text{clay weights}$; $17 - \text{clay spindle whorls}$; $18 - \text{clay}$
		sculpture, 19 – clay pendants,
		21 - chipped tools, $22 -$ polished tools, $25 -$ satustone whetstones, 24 - grinding stones: $25 -$ handstones: $26 -$ stone weights: $27 -$
		stone vessels: $28 -$ stone sculptures: $29 -$ stone pendants:
		61 - bone tools; 62 - bone handles of stone tools; 66 - human
		bones: 67 – shells: 68 – bone sculptures: 69 – bone pendants:
		81 – carbonized macrobotanical remains; 82 – carbonized grains
		Special codes (culture-type feature-type of find): 220011 Linear
		Pottery ceramics; 260011 Stroked Pottery ceramics; 200021
		Neolithic chipped tools; 200022 Neolithic ground polished tools;
		200023 Neolithic whetstones; 200024 Neolithic grinding stones;
		200025 Neolithic handstones; 200070 Neolithic daub; 221200
	Toma of footune	Linear Pottery culture houses
DO	Type of feature	<u>1 ype of locality:</u> $1 - $ settlement; $2 - $ cave; $3 - $ fortified settlement; $4 - $ land lot: 6 inhumation grave: 7 cremation grave
		Eastures in detail: 11 - nit small nit complex of nits: 12 - house:
		13 - sunken-floor house: $14 - $ oven firenlace: $15 - $ granary silo:
		16 – vessel in situ: 17 – trench: 18 – laver: 19 – unintentional
		feature; 10 – field survey
		Inhumation grave in detail: 61 – crouched; 62 – extended; 63 –
		grave with horse; 64 – non-ritual grave; 65 – extended beneath
		burial mound; 66 – crouched beneath burial mound
		<u>Cremation grave:</u> 71 – ritual cremated burial; 72 – ritual cremated
		burial beneath burial mound; $73 - cremated burial added to$
		innumation grave; /4 – cremated burial added to other cremation
		glave Feature in detail: 111 small nit: 112 nit: 113 complex of nite:
		114 - clav-pit: $115 - complex of pits with ovens: 116 - pit-piche$
		117 - well
		Post structures: 121 – house with post hole construction; 122 – post
		hole; 123 – enclosure
		Pyro-structures: 141 – oven; 142 – fireplace; 143 – daub layer; 144
		– burnt destruction
		<u>Trenches:</u> 171 – sacrificial trench; 172 – foundation trench; 173 –
		U-shaped ditch; 174 – V-shaped ditch
		<u>Natural features:</u> 191 – windthrow; 192 – period runoff; 193 –
	Fastura number	recent stream; 194 – recent runori
PUKADI	(order for	
	classification)	
KONTEYT	Feature number =	
NUNILAI	number of the	
	analytical spatial	
	unit	
CAST	Feature section	

	VRST	Mechanical layer	Finds from a single layer: 10-1.; 20-2.; 30-3.; 40-4.; 50-590-9.; 0- unmarked Finds from two layers: See the coding of layers and parts Finds from three layers: See the coding of layers and parts
	b_lok	More detailed localisation	Square grid at feature – individually
	c_kj_domu	Post hole number at house	
1	INV	Inventory number of find	A unique indicator composed of a seven-digit number
	TR	Ceramic class (colour)	<u>Ceramic classes of fine goods:</u> 21 – archaic light grey; 22 – archaic blackish-brown; 23 – archaic ochre; 24 – archaic reddish-blackish-red; 25 – archaic reddish-whitish-grey- red; 31 – standard dark grey; 32 – standard whitish-grey; 41 – standard blackish-reddish-black; 51 – non-standard ochre
			62 – archaic reddish-brown; 63 – archaic blackish-grey; 64 – archaic reddish-whitish-grey- red; 71 – non-standard greyish-black; 72 – non-standard ochre brown; 81 – standard reddish-black
	MAT	Ceramic material (Fig. 1)	<u>Clay and fired decorated ceramics</u> : 10 – muddy soft; 30 – washed soft; 50 – washed hard; 70 – unwashed sandy; 90 – muddy hard <u>Clay and fired undecorated ceramics</u> : 20 - muddy soft; 40 – washed soft; 60 – washed hard; 80 – unwashed sandy; 00 – muddy hard <u>Tempering</u> : 1 – organic admixture; 2 – organic admixture and small stones; 3 – weak organic admixture; 4 – coarse with small stones; 5 – fine with stones; 6 – finely grained; 7 – coarsely grained; 8 – sandy; 9 – other <u>Special additional tempering</u> : 1 – crushed ceramics; 2 – small pieces of graphite; 3 – graphitic clay; 4 – weak mica admixture; 5 – heavy mica admixture
	Р	Surface treatment (Fig. 1)	1 – engobe; 2 – polished engobe; 3 – oxidation red layer; 4 – "wet hand;" 5 – semi-smoothed; 6 – smoothed; 7 – semi-polished; 8 – polished: 9 – other: 0 – damaged surface
	ZA	Preservation state	Basic vessel segments: 10 Whole vessel 20 Part of vessel 30 Rim 40 Bottom 50 Wall 60 Knobs, handles 70 Other Detail of whole vessel: 11 – undamaged vessel; 12 – slightly
			 half of vessel reconstructable ; 15 – more than a half of vessel is a reconstructable <u>Detail of vessel parts:</u> 21 – unconnectable rim, wall or bottom; 22 – rim and wall; 23 – bottom and wall; 24 – larger part of wall
			<u>Rim detail:</u> 31 – rim with reconstructable angle; 32 – rim with unreconstructable angle; 33 – rim with perforated opening; 37 – rim of hollow foot; 38 – rim with secondarily ground break edge <u>Bottom detail:</u> 41 – entire bottom without walls; 42 – bottom with opening or depression in the middle; 43 – bottom with reparation hole; 44 – part of bottom with wall; 45 – centre of bottom without
			 euge; 46 – vessel on full feet; 47 – vessel bottom on hollow foot; 48 – bottom with indented feet; 49 – bottom with indented hollow foot <u>Wall details:</u> 50 – amorphous wall fragment; 51 – wall with distinct profile; 53 – wall with reparation hole; 55 – wall with openings (sieve); 59 – walls from multiple vessels

Image: Solution of the state of the sta			Knobs and	handles detail: 60 – wall with broken off knob or
with wall; 64 – handle without wall; 65 – fragment of knob; 66 – fragment of handle; 67 – wall with broken off handle; 68 – wall with broken off knob; 69 – lugs from rim MM Thickness of creamic wall in rmm Numerical field TVA Shape of ceramic vessel (Fig. 2) Rim angle and shape of wall: 100 Closed rim with angle over 45° (35°) 200 Closed rim between 45° (35°) 200 Closed rim over 45° (35°) 200 Closed shaped hert rims Categories of shapes Categories of shapes Rim angle and shape of wall: 100 Deep conical bowl 20 Bottles and amphorae 30 Spherical and hemispherical vessels 40 Pear-shaped forms 50 Bowls Shape detail: 13 Spherical vessel with rounded upper swell 133 Spherical vessel with rounded upper swell 132 Spherical vessel with rounded upper swell 123 Hemispherical vessel with rounded upper swell 123 Hemispherical vessel with flattened upper swell 241 Hemispherical vessel with flattened upper swell 123 Hemispherical vessel with flattened upper swell (Satreck) 241 Hemispherical vessel with flattened and slightly bent upper swell (Satreck) 250 Slightly Losed bowl 30 Bortle with straight neck 323 Pear-shaped rounded, vessel (Early Linear) 34 Hemispherical vessel with straight ro 333 Hemispherical vessel (Satreck) 350 Bowl with straight rim 440 Boep bowl 350 Bowl with straight rim 441 Slightly pear-shaped, rounded vessel (Early Linear) 343 Pear-shaped, rounded vessel (Early Linear) 344 Pear-shaped, rounded ves			handle; 61	– knob with wall; 62 – knob without wall; 63 – handle
fragment of handle; 67 – wall with broken off handle; 68 – wall with broken off knob; 69 – lugs from rim MM Thickness of ceramic vessel (Fig. 2) Numerical field TVA Shape of ceramic vessel (Fig. 2) Eim angle and shape of wall: 100 Closed rim with angle over 45° (35°) and 0° 200 200 Closed rim between 45° (35°) and 0° 300 300 0° perpendicular rim (10°) for 45° 350 300 0° perpendicular rim (10°) for 0° to 45° 300 300 0° bette said amphorae 30 301 Deep conical bowl 20 302 Bottes and amphorae 30 303 Spherical vessel with rounded upper swell 113 131 Spherical vessel with rounded upper swell 122 132 Spherical vessel with rounded upper swell 232 232 Hemispherical vessel with rounded upper swell 232 233 Hemispherical vessel with flattened upper swell 232 244 Hemispherical vessel with flattened upper swell 232 232 Hemispherical vessel with flattened upper swell 330 <t< td=""><td></td><td></td><td>with wall; 6</td><td>64 – handle without wall; 65 – fragment of knob; 66 –</td></t<>			with wall; 6	64 – handle without wall; 65 – fragment of knob; 66 –
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mm Rim angle and shape of wall: TVA Shape of ceramic vessel (Fig. 2) Rim angle and shape of wall: 100 Closed rim with angle over 45° (35°) and 0° 300 0° perpendicular rim 400 Splayed rim form 0°to 45° 505 505 Splayed rim form 0°to 45° 500 Splayed rim over 45° (40°) 600 Closed S-shaped bent rims Categories of shapes 10 Deep conical bowl 20 Bottles and amptorae 30 Spherical vessel with rounded upper swell 131 Spherical vessel with rounded upper swell 132 Spherical vessel with rounded upper swell 140 Pear-shaped cylindrical 220 Bottle with conical neck 231 231 Hemispherical vessel with flattened upper swell 232 Hemispherical vessel with rounded upper swell 242 Hemispherical vessel with flattened upper swell 231 Hemispherical vessel with flattened upper swell 243 Hemispherical vessel with flattened upper swell 241 Hemispherical vessel with flattened upper swell 243 Hemispherical vessel with flattened upper swell 242 Hemispherical vessel with flattened upper swell		ceramic wall in		
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vessel (Fig. 2) 100 Closed rim with angle over 45° (35°) and 0° 200 Closed rim between 45° (35°) and 0° 300 0° perpendicular rim 400 Splayed rim rom 0°to 45° 500 Splayed rim rom 45° (40°) 600 Closed S-shaped bent rims 201 Deep conical bowl 203 Bottles and amphorae 30 Spherical and hemispherical vessels 40 Pear-shaped forms 50 Bowls Shape detail: 131 131 Spherical vessel with flattened upper swell 222 Hemispherical vessel with flattened upper swell 232 Hemispherical vessel with flattened upper swell 231 Hemispherical vessel with flattened upper swell 232 Hemispherical vessel with flattened upper swell 233 Hemispherical vessel with flattened upper swell 241 Hemispherical vessel with flattened upper swell 233 Hearshaped amphora (Močovice type) 243 Heemispherical vessel with straight rim 342 Hemispherical vessel with straight rim 332 Hemispherical vessel (Močovice type)	TVA	Shape of ceramic	Rim angle	and shape of wall:
 100 Closed rim between 45' (35') and 0° 300 0° perpendicular rim 400 Splayed rim from 0% 45° 500 Splayed rim from 0% 45° 500 Closed S-shaped bent rims Categorics of shapes: 10 Deep conical bowl 20 Bottles and amphorae 30 Spherical and hemispherical vessels 40 Pear-shaped forms 50 Bowls Shape detail: 131 Spherical vessel with rounded upper swell 132 Spherical vessel with flattened upper swell 132 Spherical vessel with flattened upper swell 20 Bottle with conical neck 231 Hemispherical vessel with rounded upper swell 241 Hemispherical vessel with flattened upper swell 241 Hemispherical vessel with flattened upper swell 241 Hemispherical vessel with flattened upper swell 241 Hemispherical bi-conical vessel with flattened upper swell (Early Linear) 242 Hemispherical vessel with flattened upper swell (Early Linear) 243 Hemispherical vessel with flattened upper swell (Sárecká) 250 Sightly closed bowl 310 Deep bowl 320 Bottle with straight neck 323 Pear-shaped rounded vessel (Early Linear) 341 Hemispherical vessel with straight to slightly closed rim 343 Hemispherical vessel with straight rim 341 Bear-shaped rounded vessel (Sárecká) 350 Bowl with straight rim 341 Deep bowl with straight rim 343 Bear-shaped rounded vessel (Sárecká) 350 Bowl with straight rim 410 Deep bowl with slayed rim 423 Bottle with splayed rim 433 Bottle with splayed rim 433 Bottle with splayed rim 433 Bear-shaped, rounded vessel (Early Linear) 344 Bear-shaped, rounded vessel (Sárecká) 350 Bowl with straight rim 410 Deep bowl 310 Bottle with splayed rim 423 Bottle with splayed rim 433 Bottle with splayed rim 433 Bottle with splayed		vessel (Fig. 2)	100	(closed rim with angle over 45° (25°)
 200 Closed Trim Tom O'to 45° 300 O' perpendicular Tim Tom O'to 45° 500 Splayed rim more 45° (40°) 600 Closed S-shaped bent rims Categories of shapes: 10 Dece conical bowl 20 Bottles and amphorae 30 Spherical and hemispherical vessels 40 Pear-shaped forms 50 Bowls Shape detail: 131 Spherical vessel with rounded upper swell 132 Spherical vessel with flattened upper swell 132 Spherical vessel with flattened upper swell 213 Hemispherical vessel with ounded upper swell 221 Hemispherical vessel with rounded upper swell 232 Hemispherical vessel with flattened upper swell 243 Hemispherical vessel with flattened upper swell 244 Hemispherical vessel with flattened upper swell 244 Hemispherical vessel with flattened upper swell (Early Linear) 243 Hemispherical vessel with flattened and slightly bent upper swell (Sarecká) 250 Slightly closed bowl 310 Deep bowl 320 Bottle with straight neck 323 Pear-shaped rounded vessel (Sarecká) 321 Hemispherical vessel with straight rim 341 Slightly pear-shaped rounded vessel (Sarecká) 350 Bowl with straight rim 410 Deep bowl with splayed rim 423 Bottle with splayed rim 434 Guittly pear-shaped rounded vessel (Early Linear) 343 Pear-shaped rounded vessel (Sárecká) 350 Bowl with straight rim 410 Deep bowl 310 Bottle with splayed rim 423 Bottle with splayed rim 433 Bottle with splayed rim 434 Guittly pear-shaped, rounded vessel (Early Linear) 343 Pear-shaped rounded vessel (Sárecká) 350 Bowl with straight rim 410 Deep bowl 300 Bottle with splayed rim 423 Bottle with splayed rim 433 Bottle with splayed rim 445 Bottle with splayed rim 450 Wide conical bowl 50 Wide roun			200	Closed rim between 45° (35°) and 0°
 A 100 Splayed rim from Oto 45° S00 Splayed rim rover 45° (40°) 600 Closed S-shaped bent rims Categories of shapes: 10 Deep conical bowl 20 Bottles and amphorae 30 Spherical and hemispherical vessels 40 Pear-shaped forms 50 Bowls Shape detail: 131 Spherical vessel with flattened upper swell 132 Spherical vessel with rounded upper swell 23 Hemispherical vessel with rounded upper swell 23 Hemispherical vessel with rounded upper swell 241 Hemispherical vessel with flattened upper swell 241 Hemispherical bescel with flattened upper swell 243 Hemispherical bi-conical vessel with flattened upper swell 244 Hemispherical bi-conical vessel with flattened upper swell 243 Hemispherical bi-conical vessel with flattened upper swell 244 Hemispherical bi-conical vessel with flattened upper swell (Early Linear) 243 Hemispherical bi-conical vessel with flattened upper swell (Sárecká) 250 Slightly closed bowl 310 Deep bowl 310 Deep bowl 311 Bightly pear-shaped rounded vessel (Early Linear) 342 Hemispherical vessel with straight to slightly closed rim 332 Hemispherical vessel with straight rim 343 Sightly pear-shaped rounded vessel (Early Linear) 343 Pear-shaped rounded vessel (Early Linear) 343 Bottle with splayed rim 340 Bottle with splayed rim 350 Bowl with straight rim 341 Ozep bowl 350 Bowl with straight rim 341 Sightly pear-shaped rounded vessel (Early Linear) 345 Bottle with splayed rim 361 Deep bowl 370 Bottle with splayed rim 380 Bottle with splayed rim 391 Deep bowl 302 Bottle with splayed rim 313 Sightly pear-shaped, rounded vessel (Early Linear) 314 With S-shaped rim 323 Bottle with Splayed rim 344 Bottle with Splayed rim			300	0° perpendicular rim
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600 Closed S-shaped bent rims 10 Dece conical bowl 20 Bottles and amphorae 30 Spherical and hemispherical vessels 40 Pear-shaped forms 50 Bowls Shape detail 131 131 Spherical vessel with flattened upper swell 142 Spherical vessel with conical neck 231 Hemispherical vessel with flattened upper swell 242 Bottle with conical neck 231 Hemispherical vessel with flattened upper swell 242 Hemispherical vessel with flattened upper swell 252 Hemispherical vessel with flattened upper swell 241 Hemispherical vessel with flattened upper swell 242 Hemispherical vessel with flattened and slightly bent upper swell (Early Linear) 243 Beensbaped amphora (Močovice type) 343 Deep bowl 310 Deep bowl 323 Hemispherical vessel with straight rim 344 Slightly pear-shaped rounded vessel (Early Linear) 342 Slightly pear-shaped rounded vessel (Early Linear) 343 Pear-shaped, rounded vessel (Šárecká) 350<			500	Splayed rim over 45° (40°)
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40 Pear-shaped forms 50 Bowls Shape detail: 131 131 Spherical vessel with rounded upper swell 140 Pear-shaped cylindrical 220 Bottle with conical neck 231 Hemispherical vessel with rounded upper swell 242 Hemispherical vessel with rounded upper swell (Early Linear) 243 Hemispherical vessel with flattened upper swell (Early Linear) 244 Hemispherical vessel with flattened and slightly bent upper swell (Sárecká) 250 Slightly closed bowl 310 Deep bowl 320 Bottle with straight neck 323 Pear-shaped amphora (Močovice type) 314 Hemispherical vessel with straight to slightly closed rim 320 Bottle with straight neck 323 Pear-shaped, rounded vessel (Early Linear) 341 Slightly pear-shaped, rounded vessel (Early Linear) 342 Slightly pear-shaped, rounded vessel (Early Linear) 343 Pear-shaped, rounded vessel (Sárecká) 350 Boutle with splayed rim 421 Bottle with splayed rim and bent upper part 435 Wide bowl (plate)			30	Spherical and hemispherical vessels
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 Linear) with S-shaped rim 633 Pear-shaped, rounded vessel (Šárecká) with S-shaped rim 641 Slightly pear-shaped, rounded vessel (Early Linear) 			632	Slightly pear-shaped, rounded, bi-conical vessel (Early
 633 Pear-shaped, rounded vessel (Šárecká) with S-shaped rim 641 Slightly pear-shaped, rounded vessel (Early Linear) 				Linear) with S-shaped rim
rim 641 Slightly pear-shaped, rounded vessel (Early Linear)			633	Pear-shaped, rounded vessel (Šárecká) with S-shaped
641 Slightly pear-shaped, rounded vessel (Early Linear)				rim
		I	641	Slightly pear-shaped, rounded vessel (Early Linear)

		 with bent upper part and S-shaped rim 642 Slightly pear-shaped, rounded, bi-conical vessel (Early Linear) with bent upper part and S-shaped rim
D	Bottom shape (Fig.	Bottoms:
2	1)	10 Rounded without edges
	,	20 Flat with sharp edge
		30 Flat with rounded edge
		40 Swell with ringlet
		50 Flat indented
		70 Slightly concerve swell
		Fast
		59 Low conical solid
		50 Low, conical, solid
		59 Low, conical, hollow
		69 High, conical, hollow
		79 S-snaped, hollow
		89 3 small cylindrical
		99 4 small cylindrical
PUP	Knobs, lugs (Fig. 3)	<u>Individual:</u> 110-159 – small, rounded; 160-189 – large, rounded; 190 – tubular; 210-239 – cylindrical; 240-249 – code reserve; 250- 289 – button-shaped; 290-299 – code reserve; 310-339 –
		389 – button-shaped, indented on both walls; 340-349 – code reserve; 350-
		reserve; 410-459 – vertical oval, indented on both walls; 460-499 –
		horizontal oval, indented on both walls; 510-559 – vertical oval;
		560-599 – horizontal oval
		Multiple: 600-629 – two of the same type; 630-639 – three of the
		same type; 670-699 – combination of various types on a single
		vessel
		<u>Special:</u> 710-759 – linguiform; 810-839 – zoomorphic; 851, 852 –
		face-shaped; 910-939 – protrusions exceeding the rim; 950-959 –
		unique types
		<u>Variations</u> are typically defined according to the treatment of the
		front surface of the knob, which can be untreated, indented,
		grooved or incised (see graphic code of Pavlů – Zápotocká, 1978).
0	Rim diameter	is measured in mm and grouped in categories: 1-2-3-4-5-6-7-8-
		9
UCH	Handle (Fig. 4)	Size and position:
		10 Small horizontal
		20 Small vertical
		30 Large horizontal
		40 Large vertical
		50 Large linguiform
		60 Oval vertical
		70 Small linguiform, pronged
		80 Special forms
		90 Reserve
		Placement on vessel:
		x1-x3 Unknown
		x4-x6 Aligned
		x7-x9 Zig-zag
		$x \gamma x \gamma z z z z z z z z z z z z z z z z $
		$\frac{1}{10000000000000000000000000000000000$
		or incised
		Broken off handle: 01 – horizontal, 02 – vertical, 03 – unknown
RYTI	Type of engraving	1 – very blunt; 2 – very sharp; 3 – medium blunt; 4 – medium
	and width of line	sharp; 5 – thin; 6 – fine; 7-9 – grooves over 3 mm
10	l echnical	F1g. 5
	decoration of	1

_	ceramics	
t	Incised rims (Fig. 5)	1 – sparsely finger-pressed; 2 – densely finger-pressed; 3 – sparsely nail-pressed; 4 – densely nailed-pressed
LO	Linear and relief decoration of ceramics	Linear decoration: Fig. 17 and 18 Relief decoration: Fig. 5
rek_kur	Recti- or curvilinear type of decoration (Fig. 6)	Determined by the number of lines: $1,2,3,4 = \text{recti}; 5,6,7,8 = \text{curvi}; 9 = \text{line under rim}$
MOTIV	Motif of linear decoration	Fig. 6
VAR	Motif variations	Field was not reviewed
LL	Lines under rim	Fig. 7
HOR	Upper complementary patterns of linear decoration	Fig. 8
DOL	Lower complementary patterns of linear decoration	Fig. 8
2.OR	2 nd ornament, over first (e.g. painted Šárecký over engraved)	Same as with field LOPO, Fig. 17 and 18
U	Interior ornament	Same as with field LOPO, Fig. 17 and 18
KS	Number of pieces	Numerical field
POCJ	Number of units	Numerical field

Note: The table includes all records of ceramics (not only Linear). If material is coded for Stroked ceramics, the code for Linear ceramics was used. A special descriptive system for Stroked ceramics (Zápotocká 1998, 171-177) was developed later and was not applied in this phase on the relevant part of finds from the settlement in Bylany.

Tabulka BY03_katalog nálezů_nekeramika

- Entity: artefact
- Number of entities: 17 654
- Number of fields: 12
- Description: catalogue of non-ceramic archaeological finds and ceramic finds other than LBK ceramics. Also included are special ceramic forms such as spoons and sculptures. Using the "inv" and "obj" reference fields the table can be connected to other tables in the database.
- Literature:

Pavlů, I. – Zápotocká, M. – Soudský, O. 1985: Bylany, katalog: section A – part 2. Text. Excavations 1953 – 1967. Prague.

- Pavlů, I. Zápotocká, M. 1978: Analysis of the Czech Neolithic Pottery. Morphological and chronological structure of projections. Prague: Institute of Archaeology.
- Soudský, B. 1967: Principles of Automatic Data Treatment Applied on Neolithic Pottery. Prague-Stockholm. Manuscript.

Zápotocká, M. 1998:	Bestattungsritus des	s Böhmischen	Neolithikums	(5500 - 4200)	
B.C.). Prague	: Institute of Archae	ology.			

Field	Heading	Description of quality
KUL	Culture, period	Period: 1 – Palaeolithic, Mesolithic; 2 – Neolithic; 3 – Eneolithic; 4 – Bronze Age, Hallstatt A, B; 5 – Hallstatt C, D, La Tene; 6 – Rome, Migration Period; 7 – Early Middle Ages; 8 – High Middle Ages, Early Modern period
		Bükk; 24 – Tisza; 25 – Lengyel, Moravian Painted; 26 – Stroked Pottery, Late Lengyel: 27 – Tiszapolgár
LOKA	Locality, cadastre	Code list of cadastres; this always concerns Bylany in the basic table
NALEZ	Type of find	Artefacts by material:10Burnt clay20Stone artefacts30Copper artefacts40Iron artefacts50Other artefacts from inorganic materials60Bone artefacts70Daub80Charcoal and organic materials90Other
		 11 Ceramics 13 Clay spoons 15 Clay wheels 16 Clay weights 17 Clay spindle whorls 18 Clay sculpture 19 Clay pendants
		Stone artefacts:21Chipped tools (ŠI)22Polished tools (BI)23Sandstone whetstones24Gringding stones25Handstones26Stone weights27Stone vessels28Stone sculpture29Stone pendants
		Bone artefacts: 61 Bone tools 62 Bone handles of stone tools 66 Human bones 67 Shells 68 Bone sculpture 69 Bone pendants
		Additional organic artefacts: 81 Carbonized macrobotanical remains 82 Carbonized grains Special codes (culture-type feature-type of find): 220011 Linear Pottery ceramics; 260011 Stroked Pottery ceramics; 200021 Neolithic chipped tools; 200022 Neolithic polished tools; 200023 Neolithic whetstone; 200024 Neolithic grinding stones; 200025 Neolithic handstones; 200070 Neolithic daub; 221200

		Linear Pottery culture houses
DO	Type of feature	<u>Type of locality:</u> 1 – settlement; 2 – cave; 3 – fortified settlement;
		4 – land lot; 6 – inhumation grave; 7 – cremation grave
		<u>Features in detail:</u> 11 – pit, small pit, complex of pits; 12 – house;
		13 – sunken-floor house; 14 – oven, fireplace; 15 – granary, silo;
		16 – vessel in situ; 17 – trench; 18 – layer; 19 – unintentional
		feature; 10 – field survey
		Inhumation grave in detail: 61 – crouched; 62 – extended; 63 –
		burial mound; 66 – crouched beneath burial mound
		Cremation grave: 71 – ritual cremated burial; 72 – ritual cremated
		burial beneath burial mound; 73 – cremated remains added to
		skeleton grave; 74 – cremated remains added to grave with
		cremated remains
		<u>Feature in detail:</u> 111 – small pit; 112 – pit; 113 – complex of pits;
		114 – clay-pit; 115 – complex of pits with ovens; 116 – pit-niche;
		117 – well
		<u>Post structures:</u> 121 – house with post construction; 122 – post hole; 123 – enclosure
		<u>Pyro-structures:</u> 141 – oven; 142 – fireplace; 143 – daub layer; 144 – burnt destruction
		Trenches: 171 – sacrificial trench; 172 – foundation trench; 173 –
		U-shaped ditch; 174 -V-shaped ditch
		Natural features: 191 – windthrow; 192 – period runoff; 193 –
		recent stream; 194 – recent runoff
PORADI	Feature number	Numerical field
	(order for	
	classification)	
KONTEXT	Feature number =	
	number of the	
	analytical spatial	
CAST	Easture section	
LASI		$\mathbf{F}_{1}^{i} = \frac{1}{2} \mathbf{F}_{1}^{i} + \frac{1}{$
VKSI	Layer	<u>Finds from a single tayer.</u> 10-1.; 20-2.; 30-3.; 40-4.; 50-590-9.;
		Finds from two layers: See the coding of layers and parts
		Finds from three layers: See the coding of layers and parts
D LOV	More detailed	Square grid at feature - individually
D_LUK	localisation	Square grid at reature - marviduany
INIV	Inventory number of	A unique indicator composed of a seven-digit number
TTA A	find	i i angle indicator composed of a seven angle number
POPIS	Written description	
	of find	
KS	Number of pieces	Numerical field

Tabulka BY04 přehled inventáře

- Entity: archaeological feature Number of entities: 1 240 -
- -
- Number of fields: 30 -

1

Description: an inventory of all archaeological finds according to spatial contexts – features; summarisation by inventory number. -

	Field	Heading	Description of quality
9		Automatic number	
1	1	classification	

OBJ	Feature number	Record number of archaeological features	
CAST	Feature section	Symbol "O" = surface of feature	
INVCIS1_OD	Inventory number	Numerical field	
INVCIS1_DO	Inventory number	Numerical field	
INVCIS2_OD	Inventory number	Numerical field	
INVCIS2_DO	Inventory number	Numerical field	
INVCIS3_OD	Inventory number	Numerical field	
INVCIS3_DO	Inventory number	Numerical field	
Summarisation of ce	ramics according to cultura	l determination and dating:	
	Number of LBK		
LNKIND	ceramic units	Numerical field	
	Number of LBK		
LNKKUSU	ceramic fragments	Numerical field	
	Dating in LBK		
ETAPA	chronology	1c, 2a-d, 3a-b, 3-4, 4a-b	
	Number of STK ceramic		
JINA_SIK	fragments	Numerical field	
	Number of other		
JINA_KERA2	ceramic 2	Numerical field	
	Number of other		
JINA_KERA3	ceramic 3	Numerical field	
Number of non-cerai	mic finds:		
KAM_SI	Number of chipped tools	Numerical field	
	Number of polished		
KAM_BI	tools	Numerical field	
KAM_BR	Number of whetstones	Numerical field	
VAN DDC	Number of grinding		
KAM_DKS	stones	Numerical field	
KAM_DRH	Number of handstones	Numerical field	
	Number of		
VAM DDV	indeterminable		
KAM_DKA	handstones	Numerical field	
KAM_DTC	Number of handstones	Numerical field	
	Number of stones		
	without signs of		
KAMENY treatment		Numerical field	
<u>Uther non-ceramic finds (existence only):</u>			
KOSTI	Existence of bones	x – yes; - no; o – not documented	
MAZANICE	Existence of daub	x – yes; - no; o – not documented	
UHLIKY	Existence of charcoal	x – yes; - no; o – not documented	
JINE	Other finds		
POZNAMKA	Note		
TABULKA_OD	Links to illustrations		

Tabulka BY05_KE-LBK-1EV

Entity: Artefact – LBK ceramic fragment

- Number of entities: 68 405
- Number of fields: 30
- Description: Primary evidence of Linear Pottery culture (LBK) ceramic finds. A single ceramic fragment constitutes an entity. The field contains a description of attributes that

are in part identical to table BY02_katalog nálezů_keramika, and in part supplemented with new attributes.

- Literature:
 - Pavlů, I. Zápotocká, M. 1978: Analysis of the Czech Neolithic Pottery.

Morphological and chronological structure of projections. Prague: Institute of Archaeology.

- Pavlů, I. Zápotocká, M. Soudský, O. 1985: Bylany, katalog: section A part 2. Text. Excavations 1953 – 1967. Prague.
- Soudský, B. 1967: Principles of Automatic Data Treatment Applied on Neolithic Pottery. Prague-Stockholm. Manuscript.
- Zápotocká, M. 1998: Bestattungsritus des Böhmischen Neolithikums (5500 4200 B.C.). Prague: Institute of Archaeology.

Field	Heading	Description of quality
OBJ	Feature number	
TR	Ceramic class (colour)	Ceramic classes of fine goods: 21 – archaic light grey; 22 – archaic blackish-brown; 23 – archaic ochre; 24 – archaic reddish-blackish-red; 25 – archaic reddish- whitish-grey- red; 31 – standard dark grey; 32 – standard whitish-grey; 41 – standard blackish-reddish- black; 51 – non-standard ochre <u>Ceramic classes of coarse goods:</u> 61 – archaic reddish- blackish-red; 62 – archaic reddish-brown; 63 – archaic blackish-grey; 64 – archaic reddish-whitish-grey- red; 71 – non-standard greyish-black; 72 – non-standard ochre brown; 81 – standard reddish-black
MAT	Ceramic material (Fig. 1)	<u>Clay and fired decorated ceramics:</u> 10 – muddy soft; 30 – washed soft; 50 – washed hard; 70 – unwashed sandy; 90 – muddy hard <u>Clay and fired undecorated ceramics:</u> 20 - muddy soft; 40 – washed soft; 60 – washed hard; 80 – unwashed sandy; 00 – muddy hard <u>Tempering:</u> 1 – organic admixture; 2 – organic admixture and small stones; 3 – weak organic admixture; 4 – coarse with small stones; 5 – fine with stones; 6 – finely grained; 7 – coarsely grained; 8 – sandy; 9 – other <u>Special additional tempering:</u> 1 – crushed ceramics; 2 – small pieces of graphite; 3 – graphitic clay; 4 – weak mica admixture; 5 – heavy mica admixture
7.\	Preservation state	Basic vessel segments:
		10 Whole vessel 20 Part of vessel 30 Rim 40 Bottom 50 Wall 60 Knobs, handles 70 Other Detail of whole vessel: 11 – undamaged vessel; 12 – slightly damaged vessel: 13 – less than half of vessel seriously damaged; 14 – half of vessel reconstructable ; 15 – more than a half of vessel is a reconstructable Detail of vessel parts: 21 – unconnectable rim, wall or bottom; 22 – rim and wall; 23 – bottom and wall; 24 – larger part of wall Rim detail: 31 – rim with reconstructable angle; 32 –

		rim with unreconstructable angle; 33 – rim with perforated opening; 37 – rim of hollow foot; 38 – rim with secondarily ground break edge
		Bottom detail: 41 – entire bottom without walls; 42 – bottom with opening or depression in the middle; 43 – bottom with reparation hole; 44 – part of bottom with wall; 45 – centre of bottom without edge; 46 – vessel on full feet; 47 – vessel bottom on hollow foot; 48 – bottom with indented feet; 49 – bottom with indented hollow foot
		<u>Wall details</u> : 50 – amorphous wall fragment; 51 – wall with distinct profile; 53 – wall with reparation hole; 55 – wall with openings (sieve); 59 – walls from multiple vessels
		<u>Knobs and handle detail:</u> 60 – wall with broken off knob or handle; 61 – knob with wall; 62 – knob without wall; 63 – handle with wall; 64 – handle without wall; 65 – knob fragment; 66 – handle fragment; 67 – wall with broken off handle; 68 – wall with broken off knob; 69 – lugs from rim
MM	Thickness of ceramic wall in mm	Numerical field
TVA	Shape of ceramic vessel	Rim angle and shape of wall:
	(1 lg. 2)	 100 Closed rim with angle over 45° (35°) 200 Closed rim between 45° (35°) and 0° 300 0° perpendicular rim 400 Splayed rim from 0°to 45° 500 Splayed rim over 45° (40°) 600 Closed S-shaped bent rims
		Categories of shapes:
		10 Deep conical bowl 20 Bottles and amphorae
		30 Spherical and hemispherical vessels
		40 Pear-shaped forms
		50 Bowls
		Shape detail:
		 Spherical vessel with rounded upper swell Spherical vessel with flattened upper swell
		140 Pear-shaped cylindrical
		220 Bottle with conical neck
		231 Hemispherical vessel with rounded upper swell
		232 Hemispherical vessel with weakly flattened upper swell
		241 Hemispherical vessel with flattened upper swell (Early Linear)
		242 Hemispherical bi-conical vessel with flattened upper swell (Farly Linear)
		243 Hemispherical vessel with flattened and slightly bent upper swell (Šárecká)
		250 Slightly closed bowl
		310 Deep bowl
		320 Bottle with straight neck
		323 Pear-shaped amphora (Močovice type)
		331 Hemispherical vessel with straight to
		332 Hemispherical vessel with straight rim
	1	

		341	Slightly pear-shaped rounded vessel (Early Linear)
		342	Slightly pear-shaped, rounded, bi-conical vessel (Early Linear)
		343	Pear-shaped, rounded vessel (Šárecká)
		350	Bowl with straight rim
		410	Deep bowl with splayed rim
		420	Bottle with splayed rim
		423	Bottle with splayed rim and bent upper part
		450	Wide bowl (plate)
		510	Wide conical bowl
		550	Wide rounded bowl
		631	Slightly pear-shaped, rounded vessel (Early Linear) with S-shaped rim
		632	Slightly pear-shaped, rounded, bi-conical vessel (Early Linear) with S-shaped rim
		633	Pear-shaped, rounded vessel (Šárecká) with
		641	S-snaped rim
		041	Linear) with bent upper part and S-shaped
		642	IIII Slightly near-shaped rounded bi-conical
		042	vessel (Early Linear) with bent upper part
			and S-shaped rim
KODTVARU	Simplified shape	Bottoms:	
	categories	1	Bowl
		2	Hemispherical
		3	S-shaped hemispherical
		4	Pear-shaped vessel
		5	Closed bowl
		6	Deep bowl
		/	Wide bowi Elet herei
		0 0	Amphora
PLIPKV	Knobs lugs (Fig. 3)	Multiple [•]	500-629 - two of the same type: 630-639 -
IUIKI	1111000, 1480 (118.0)	three of the	e same type; 670-699 – combination of
		various typ	bes on a single vessel
		Special: 71	10-759 – linguiform; 810-839 – zoomorphic;
		851, 852 -	face-shaped; 910-939 – protrusions
		exceeding	the rim; 950-959 – unique types
		Variations	are typically defined according to the
		untreated	indented grooved or incised (see graphic
		code of Pa	vlů – Zápotocká, 1978).
0	Rim diameter	is measure 4- 5- 6- 7-	d in mm and grouped in categories: 1- 2- 3- 8- 9
UCHA	Handle (Fig. 4)	Size and p	osition:
		10	Small horizontal
		20	Small vertical
		30	Large horizontal
		40	Large vertical
		50	Large linguiform
		60 70	Oval vertical
		70	Small linguitorm, pronged
		80	Special forms
		90 Diagoment	on vessel:
		<u>r lacement</u>	x1-x3 Unknown

			x4-x6 Aligned
			x7-x9 Zig-zag
			x0 Location on vessel
			Other treatment: x1,x4,x7– without treatment; x2,x5,x8
			 grooved or incised
			Broken off handle: 01 - horizontal, 02 - vertical, 03 -
			unknown
	RYTI	Type of engraving and	1 – very blunt; 2 – very sharp; 3 – medium blunt; 4 –
		width of line	medium sharp; 5 – thin; 6 – fine; 7-9 – grooves over 3 mm
	TONAOKRAJI	Technical decoration of rim	 1 – sparsely finger-pressed; 2 – densely finger-pressed; 3 – sparsely nail-pressed; 4 – densely nailed-pressed
	ТО	Technical decoration of ceramics	Fig. 5
	LOPOIII	Linear and relief	Linear decoration: Fig. 17 and 18
		decoration of ceramics	Relief decoration: Fig. 5
	rekti kurvi	Recti- or curvilinear type	<u>Determined by the number of lines:</u> 1,2,3,4 = recti;
	_	of decoration (Fig. 6)	5,6,7,8 = curvi; 9 = line under rim
	LINKYNAOKR	Additional frame lines under rim	Fig. 7
	DOPLNEKHOR	Additional ornament to	Fig. 8
		main ornament	
	KUSU	Number of fragments	Numerical field
	KOMPLEX	Number of construction complex of houses	Numerical field
	IZOL	Isolated context	Unclassified to date
	FAZE	Number of residential phase of chronology from 1986	Numerical field
	OKRDIAMCM	Rim diameter in cm	Numerical field
	ORIFICECM	Amphora neck diameter in cm	Numerical field
	RADSTENYCM	Curve of walls	Numerical field
	MINUSHOR	Estimated volume of upper part	Numerical field
	OBJEMPOC	Calculated volume of vessel	Numerical field
	SKLONOKR	Angle of rim in degrees	Numerical field
1	INV	Inventory number	Numerical field
	CLSHASI	Functional classification code based on shape and size	Fig. 10
	CLSHAVO	Functional classification code based on shape and volume	Fig. 10

Tabulka BY06_KE-LBK-2EV

- Number of entities: 1 708
- Number of fields: 33
- Description: secondary records of Linear Pottery culture (LBK) ceramic finds grouped according to spatial units (archaeological features). Fields contain a quantitative record of ceramic attributes in the form of real numbers.
- Literature:

	Field	Heading	Description of quality	
1	i	Automatic number classification		
OBJ		Feature number	Numerical field	
	CAST	Feature section	See the coding of layers and parts	
	POCET	Number of LBK ceramic specimens	Numerical field	
	SUMALO	Number of linear decorated ceramic specimens	Numerical field	
	SUMAPO	Number of relief decorated ceramic specimens	Numerical field	
	SUMACO	Number of painted ceramic specimens	Numerical field	
	SUMATO	Number of technically decorated ceramic specimens	Numerical field	
	SUMANO	Number of undecorated ceramic specimens	Numerical field	
	JMN	Number of fine ceramics	Numerical field	
	HRB	Number of coarse ceramics	Numerical field	
	Technical execution	on of linear decoration (Fig. 17 and 18	<u>):</u>	
	LOAL12	Alpha 12	Numerical field	
	LOAL13	Alpha 13	Numerical field	
	LOAL20	Alpha 20	Numerical field	
	LOAL30	Alpha 30	Numerical field	
	LOBETA	Beta	Numerical field	
	LOGAMA	Gamma	Numerical field	
	LODE12	Delta 12	Numerical field	
	LODE30	Delta 30	Numerical field	
	LOEP10	Epsilon 10	Numerical field	
	LOEP20	Epsilon 20	Numerical field	
	LOEP00	Epsilon? (not specified in greater detail)	Numerical field	
	LOEP30	Epsilon 30	Numerical field	
	LOTHETA	Theta	Numerical field	
	LOETA	Eta	Numerical field	
	LODZETA	Zeta	Numerical field	
	KOD	Primary record code (1EV)	Fig. 17 and 18	
	Summarisation acc	cording to fragmentation:		
	ZACHCELY	Whole vessel	Numerical field	
	ZACHOKRAJ	Rim fragment	Numerical field	
	ZACHDNO	Bottom fragments	Numerical field	
	ZACHSTENA	Wall fragments	Numerical field	
	PUPKY	Number of knobs	Numerical field	
	UCHA	Number of handles	Numerical field	

Pavlů, I. – Rulf, J. – Zápotocká, M. 1986: Theses on the Neolithic Site of Bylany, Památky archeologické 77, 288-412.

Tabulka BY07 SI

Entity: chipped tool finds (flints)

- Number of entities: 864
- Number of fields: 33
- Description: a list of chipped tool finds, including artefact dimensions, typological classification, localisation in the settlement and other special tracked attributes.
- Literature:

Pavlů, I. 2000: Life on a Neolithic site. Prague: Institute of Archaeology.

- Popelka, M. 1991: Chipped stone industry, In: Pavlů, I. Rulf, J. (eds.), Stone industry from the Neolithic site of Bylany, Památky archeologické 82, 277-304.
- Přichystal, A. 1985: Štípaná industrie z neolitického sídliště v Bylanech (okr. Kutná Hora) z hlediska použitých surovin a jejich provenience, Archeologické rozhledy 37, 481-488.

Tringham, R. 1968 : Chipped stone industry from Bylany. MS.

Zimmermann, A. 1988: Steine, In: Boelicke, U. – von Brandt, D. – Lüning, J. – Stehli, P. – Zimmermann, A. (eds.), Die bandkeramische Siedlungsplatz Langweiler 8, 569-787.

	Field	Heading	Description of quality
	KUL	Culture, period	22 – Linear Pottery culture
	DO	Type of feature	111 – small pit; 112 – pit; 113 – complex of pits; 114 – clay-pit; 115 – complex of pits with ovens; 116 – pit-niche; 121– house with post construction; 141 – oven; 150 – granary, silo; 160 – vessel in situ; 170 – small trench; 191 – windthrow; 192 – period runoff
	OBJ	Feature number	
	KOMPLEX	Number of construction complex of houses	Numerical field
	FAZE	Number of settlement phase according to 1986 chronology	1 - 25
	IZOL	Isolated features outside of construction complex of houses	Numerical field
P	INV	Inventory number	Numerical field
	TYP2	Туре 2	Reduced and revised types: 100 – not a tool; 101 – notch; 110 – flake sraper; 120 – blade scraper; 130 – flake with retouched truncations; 140 – blade with retouched truncations; 150 – borers; 160 – point; 170 – sickle blade; 180 – combination; 181 – core handstone; 190 – retouched blade or flake
	ТҮР	Type 1	See Popelka 1991; 279, Tab. 5
	TYPDS	Length type	Formal types based on the length and width of blades and flakes: 1-8 (Fig. 11)
	TYPVU	Function type	Function types based on the angle of the cutting edge and the height of the tool: $1-6$ – additional working (Fig. 11); 7 – borers; 8 – point; 9 – with burnishing, according to Tringham 1968 (Fig. 11).
	TYPSTY	Stylistic type	Stylistic classification based on the direction and strength of blows in combination with retouching: S1 to S8, according to Zimmerman 1978

PROTOTYP	Prototype	Based on definition: 0 – no, 1 – yes		
FORMA	Form	20 - core; 21 - flake; 22 - blade; 23 - fragment, chip; 29 - not		
	<u> </u>	evaluated		
KURA	Cortex	30 - cortex has not survived; 31 - 0 to 25%; 32 - 25 to 50%; 39 - 50 to		
	Daga	100%		
PAIKA	Dase	40 - 10t evaluated, 41 - 2eto, 42 - 1 blow, 43 - 1000 multiple blows, 44 - 1000 natural-cortex		
BULBUS	Bulb	50 - none: 51 - whole: 52 - nartially preserved or only scar		
POINT	Point of impact	According to the location of the bulb in the sector of the minimal grid.		
10111	I I I I I I I I I I I I I I I I I I I	calculated clockwise: $1 - 0$ to 30° ; $2 - 30$ to 60° ; $3 - 60$ to 90° ; $4 - 90$ to 120° ; $5 - 120$ to 150° ; $6 - 150$ to 180° ; see Zimmerman 1978		
BUTT	Striking (rear)			
	edge	Unclassified to date		
CONE	Percussor	Unclassified to date		
WALLNER	Cracking ripples	Unclassified to date		
BULB	Bulb shape	0 – missing ; 1 – preserved; 2 – traces; 3 - ?; 4 – un-retouched; 9 – not determined		
LESK	Burnished	0 - unknown; 1 - yes; 2 - no		
UDER	Location of bulb	1 - ; 2 - ; 3 - ; 4 - ; 5 - ; 6 - , opposite order from Zimmermann 1988		
	in sectors	(Fig. 11)		
	Flake propagation			
ALFA	angle	Unclassified to date		
	retouched distal			
BETA	end	Unclassified to date		
	Angle of working			
OMEGA	edge	Unclassified to date		
SURPOP	Raw materials 1	See Popelka 1991; 279, Tab. 6		
SURBY	Raw materials 2	1 Baltic 13 Hornstone X		
	(defined by A. Přichystal 1985)	2 Skrsin 14 Becov		
	Thenystar 1965)	4 Limpo-quartzite 16 Chalcedony material		
		5 Porcelanite 17 Radiolarite		
		Bavarian		
		6 hornstone 18 Crystal		
		7 Flint 19 Boskovštejn		
		8 Burnt artefact 20 Sluňák quartzite		
		9 Krakow 21 Hornstone 21		
		10 Swatokrzyžsky 22 Swienciechowsky		
		11 Krumlov 23 Silicite to limno-quartzite		
	т. 4.1	12 Krumlov 2 90, 99 Not identified		
	Length in mm	Numerical field		
SIKKA	Width in mm	Numerical field		
VYSKA	Height in mm	Numerical field		
HMOTNOST	Weight in g	Numerical field		

Tabulka BY08 BI

Entity: polished tool finds (axes and adzes)

- Number of entities: 1 196
- Number of fields: 49
- Description: a list of polished tool finds, including artefact dimensions, typological classification, localisation in the settlement and other special tracked attributes.

- Literature:

1

Pavlů, I. 2000: Life on a Neolithic site. Prague: Institute of Archaeology.

Rulf, J. 1991: Polished stone industry, In: Pavlů, I. – Rulf, J. et al.: Stone industry from the Neolithic site of Bylany, Památky archeologické 77, 304-330.

Velímský, T. 1969: Neolitická broušená kamenná industrie z Bylan. Dissertation manuscript, University of Brno.

Field	Heading	Description of quality
KUL	Culture, period	22 – Linear Pottery culture
NALEZ	Detailed coding of find type	
PODRUHOBJ	Feature detail – reserve for code	
DO	Type of feature	11- pit, small pit, complex of pits; 12 – house; 14 – oven, fireplace; 15 – granary, silo; 17 – small trench; 19 – unintentional feature
OBJ	Feature number	
CAST	Feature section	
VRST	Layer	See the coding of layers and sections
KOMPLEX	Number of construction complex of houses	
FAZE	Number of settlement phase according to 1986 chronology	1 - 25
DAT	Number of settlement phase according to 1986 chronology, including isolated pits	1 - 25
IZOL	Number of feature that is isolated without relationship to construction complex of houses	
INV	Inventory number	
Dimensions of gro	und tools:	
ZAD	Preserved length of artefact	1 – fragment: measurement is incomplete; 2 – artefact is chipped off; measurement is inaccurate; 3 – completely preserved: measurement is precise
AD	Absolute length in mm	Numerical field
ZAS	Preserved width of artefact	1 – fragment: measurement is incomplete; 2 – artefact is chipped off; measurement is inaccurate; 3 – completely preserved: measurement is precise
AS	Absolute width in mm	Numerical field
ZAV	Preserved height of artefact	1 – fragment: measurement is incomplete; 2 – artefact is chipped off; measurement is inaccurate; 3 – completely preserved: measurement is precise
AV	Absolute height in mm	Numerical field
ISIRKDEL	Width/length index	Numerical field
IVYSKSIR	Height/width index	Numerical field
ALFA	Angle of edge height (massiveness of edge)	Numerical field
BETA	Angle of edge grounding (relief grounding)	Numerical field
GAMA	Angle of edge	Numerical field
DELTA	Angle of edge gradient from profile	Numerical field
THET	Angle of edge gradient from plan	Numerical field

	view	
OMEG	Angle of side convergency	Numerical field
Boring:		1
PROVD1	Diameter of bore d1	Numerical field
PROVD2	Diameter of bore d2	Numerical field
Battle axes:	1	
DOSTRI	Length of cutting edge	Numerical field
Raw materials MATERIAL	Raw materials	16 – actinolite-amphibolitic slate; 21 – amphibolitic slate; 22 – amphibolite, – epidotic amphibolite; 42 – eclogite; 30 – graphitic phyllite, biotite-sericitic phyllite; 30 – graphitic slate; 23 – pelitic slate; according to Velímský 1969
Technology and m	orphology:	
ORPLOCH	relation to the planes of the rock surface	1 – parallel; 2 – oblique; 3 – perpendicular to base
ORSTOPH	Orientation of working traces on the dorsal side of the cutting edge with respect to the lengthwise axis of the artefact	1 – pitched to the right; 2 – pitched to the left; 3 – parallel to the axis – shoe-last adze; 4 – oblique upwards-axe-hammer
ORSTOPD	Orientation of working traces on the side of the cutting edge adjacent to the tool base with respect to the lengthwise axis of the artefact	1 - pitched to the right; 2 – pitched to the left; 3 – parallel to the axis – shoe-last adze; 4 – oblique upwards- axe-hammer
Secondary use of t	<u>ool:</u>	
SEKUND		0 - indeterminable; 1 - as handstone; 2 - as a
Sections:	Secondary use of tool	grinder/handstone 3 – other
SECTION	Shape of tool cross-section	0 – not determined; 1 – higher and lower plano-convex cross-section; 2 – oval; 3 – pointed oval; 4 – bi-convex or rectangular; 5 – trapezoidal; 6 – triangular; 8 – special
EDENFACE	Shape of cutting edge in front profile	0 – not determined; 1 - curved toward back; 2 - slightly curved; 3 - direct; 6 – oblique; 7 – on the plane of the back; 8 – perpendicular cutting edges
EDPTAK	Shape of cutting edge outline from above	0 – not determined; 1 – direct, perpendicular to lengthwise axis; 2 – symmetrically curved; 3 – asymmetrically curved; 4 – direct but bowed; 5 – direct and bowed
BOKPTAK	Shape of outlines of sides from above	0 – not determined; 1 – parallel; 2 – curved; 4 – curved at cutting edge; 5 – convergent toward cutting edge, direct; 6 – convergent, curved; 7 – convergent, curved at base of cutting edge; 8 – convergent, curved at tip of cutting edge
TYLPTAK	Shape of rear outlines from above	0 – not determined; 1 – rounded, symmetrically curved; 2 – asymmetrically curved; 3 – with straight face; 4 – with straight bevelled face; 5 – direct, indented; 6 – direct, indented and bevelled; 8 – pointed
BOKPROF	Side cross-section of tool	0 – not determined; 1 – shoe-last; 2 – symmetrical; 3 – shoe-last, tapered toward back; 4 – symmetrical with tapered back section; 5 – trapezoidal
Weight:		
HMOTNOST	Weight in g	Numerical field

ZACHOVANI Classification: PROTOTYP	Preservation state	 01 - half-finished artefact; 10 - completely preserved artefact; 11 - damaged edges; 12 - damaged back; 13 - damaged sides; 14 - damaged cutting edge and base; 15 - damaged edge and back; 16 - several parts completely destroyed; 19 - secondarily shaped; 21 - broken off back; 22 - broken off edges; 23 - broken off edges and back; 31 - broken off lengthwise half; 32 - one side broken off; 41 - front and rear side broken off; 42 - front part and base broken off; 43 - both front parts broken off; 51 - back and part of sides broken off; 52 - edge and part of sides broken off and cutting edge chipped off; 62 - back broken off and front part of base chipped off; 63 - back broken off and front part of base chipped off; 64 - edge broken off and front part of base chipped off; 66 - edge broken off and front part of base chipped off; 67 - back and edge broken off and front part of cutting edge chipped off; 71 - sides broken off and front cutting edge chipped off; 71 - sides broken off and front part of cutting edge; 82 - back and side partially broken off and front part of base chipped off; 81 - back and side partially broken off and front part of base chipped off; 87 - back and front part of cutting edge; 82 - back and side partially broken off and front part of base chipped off; 87 - back and front part of cutting edge; 82 - back and side partially broken off and front part of base chipped off; 87 - back and front part of cutting edge; 84 - edge and side broken off and front part of base chipped off; 85 - body without sides and front cutting edge; 96 - fragment of base; 96 - fragment with part of polished surface; 99 - fragment without traces of polishing 0 - unspecified; 1 - adzes: length less than or equal to 100 mm and width less than or equal to 100 mm and width less than or equal to 100 mm and width less than or equal to 100 mm and width less than or equal to 100 mm and width less than or equal to 100 mm and width less than or equal to 100 mm and width less than or equal to 100 mm and width less t
		length greater than 100 mm (or 110 mm) = not a prototype; $4 - axes$: width less than or equal to 36 mm; $5 - axes$: width greater than 36 mm; compare TYPDS (Pavlů 2000, 52)
TYPOS	Functional type according to cutting edge	0 – unspecified; 1 –F1: sharp adzes; 2 – F2: blunt adzes; 3 – F3: sharp axes; 4 – F4: blunt
TVDCD	Formal types according to weight	axes; compare Pavlů 2000, 40 0 – unspecified: 1 – adzes: 2 – flat shoe-last
	and length	axes
I Y PDS	length/width index	to 100 mm and width less than or equal to 34 mm; 2 - adzes: length less than or equal to 110 mm and width greater than 34 mm; 3 – length greater than 100 mm (or 110 mm); 4 –

;

		axes: width less than or equal to 36 mm; 5 – axes: width greater than 36 mm
TYPBN	Type of polished artefacts	1 – shoe-last adze; 2 – flat shoe-last axe; 3 – shoe-last axe with perpendicular cutting edge; 4 – pointed tool; 5 – chisel; 6 – unspecified perforated polished artefact; 7 – disc-shaped hammer; 8 – double hammer; 9 – perforated hammer; 10 – perforated hoe; 11 – core drill; 12 – unspecified fragment; 13 – amorphous fragment; 14 – half-finished artefact; 15 – raw material; 16 – other; 20 – cannot be determined, see Rulf 1991
PODTYP	Subtypes of flat shoe-last axe and shoe-last adze	Fig. 12 and 13

Tabulka BY09 MLYNY

Entity: grinding stones (manos and metates)

- Number of entities: 441
- Number of fields: 21
- Description: a list of grinding stones finds, including artefact dimensions, typological classification, localisation in the settlement and other special tracked attributes.
- Literature:

Pavlů, I. 1991: Groundstone artefacts, In: Pavlů, I. – Rulf, J. et al.: Stone industry from the Neolithic site of Bylany, Památky archeologické 77, 330-348.

Pavlů, I. 2000: Life on a Neolithic site. Prague: Institute of Archaeology.

Field	Heading	Description of quality	
KUL	Culture, period	22 – Linear Pottery culture	
DO	Type of feature	11 Pit, small pit, complex of pits	
		12 House	
		13 sunken-floor house	
		14 Oven, fireplace	
		15 Granary, silo	
		16 Vessel in situ	
		17 Small trench	
		18 Layer	
		19 Unintentional feature	
		10 Field survey	
OBJ	Feature number		
CAST	Feature section		
VRST	Mechanical layer	Finds from a single layer: 10-1.; 20-2.; 30-3.; 40-4.;	
		50-590-9.; 0- unmarked	
		Finds from two layers: See the coding of layers and	
		parts	
		<u>Finds from three layers:</u> See the coding of layers and	
		parts	
KOMPLEX	Number of construction		
	Complex of houses	1. 25	
FAZE86	Number of settlement	1 - 25	
	chronology		
IZOI	Number of feature that is		
ILUL	isolated without		

		relationship to a construction complex of houses	
P	INV	Inventory number (a unique indicator composed of a seven-digit number)	Numerical field
	DELKA	Length in cm	Numerical field
	SIRKA	Width in cm	Numerical field
	VYSKA	Height in cm	Numerical field
	VYOPO	Height at the point of the greatest wear on the cross section	Numerical field
	НМОТ	Weight in g	Numerical field
	ТҮР	Type of grinding stone	Fig. 14
	SURBY	Type of grinding stone raw materials	1 – fine-grained limonite; 2 – fine-grained ferruginous; 3 – coarse-grained ferruginous; 4 – fine- grained to solid quartzite; 6 – gneiss (red orthogneiss); 7 – biotite gneiss; 8 – siliceous sandstone; 9 – medium-grained limonite; 10 – muscovite-biotite gneiss (two-mica gneiss); 12 – medium-grained ferruginous; 13 – mica-schistose- gneiss; 16 – green slate; 18 – fine-grained; 19 – medium-grained; 22 – amphibolite; 33 – quartzite; 35 – migmatitic gneiss - migmatite; 37 – mica schist; 39 – tourmaline-muscovite granite; 40 – metaconglomerate with pyrite; 99 – undetermined
	STOPY	Macro-traces of use	visible
	INDEX	Width/height index	Numerical field
	FORMT	Formal classification	11-14 upper stone; 21-24 lower stone (Pavlů 2000, 75)
	FUNKT	Functional classification	Fig. 11
	PROTY	Prototype	Fig. 11

Tabulka BY10 DOMY DATOVANI

Entity: Ground plan of house

- Number of entities: 147
- Number of fields: 4
- Description: the table presents the ground plans of houses with their placement on areas A, B or F, as well as their position within the internal chronology of the settlement (1986 phase and 2000 intervals).

	Field	Heading	Description of quality
1	DUM	House number	Numerical field
	SEKCE	Excavation section	A, B, F (Fig. 19–22)
	FAZE86	Number of settlement phase according to 1986 chronology	1-25
	PERIOD2000	Number of residential interval according to chronology from	
		2000	1-6

Tabulka BY11 FAZE INTERVAL KONTEXT

Entity: archaeological feature

- Number of entities: 686
- Number of fields: 11
- Description: the table of features (contexts) and respective construction complex of houses presents the relation of these variables to the chronology of the settlement (LBK chronology, Bylany internal chronology: 1986 phase and 2000 intervals).

	Field	Heading	Description of quality
	SEKCE	Excavation section in Bylany	A, B, F (Fig. 19–22)
	PORADI	Feature number (context) for automatic classification	Numerical field
	CAST	Feature section (context) according to documentation	
	CELEK	Spatial integrity	Whole = not further divided; sections = sections of a single feature
1	KONTEXT	Feature number (context) – a unique number enabling correlation	Numerical field
	HOUSE	The number of the construction complex of houses to which the feature belongs	<i>Numerical field</i> , $999 = ?, 0 =$ feature does not belong to any house
	DUM	The number of the construction complex of houses to which the feature belongs	IZ = isolated feature, ? = feature likely belongs to house
	STUPEN	LBK chronology stage	1c, 2a-d, 3a-b, 3-4, 4a-b
	FAZE86	Number of settlement phase according to 1986 chronology	1-25
	PERIOD2000	Number of settlement interval phase according to 2000 chronology	1- 6
	poznámka	Note	

Tabulka BY12_objekty-celky

- Entity: spatially demarcated section (archaeological feature or part thereof)
- The "KONTEXT" field is a unique value enabling correlation.
- Number of entities: 1 483
- Number of fields: 24
- Description: a catalogue of spatially demarcated units (of archaeological features or parts thereof), their attributes (dimensions, fill, presence of finds), circumstances of excavation and relationships with respect to the construction complex of houses.

	Field	Heading	Description of quality
	PORADI	Feature number (context) for automatic classification	Numerical field
9	KONTEXT	Feature number (context) – a unique number enabling correlation	Text field
4	CAST	Feature section (context) according to documentation	
	CELEK	Spatial integrity	Whole = not further divided; sections = sections of a single feature
	OBJDRUH	Type of feature according to documentation (written)	

NALEZISTE	Locality, written out or abbreviated	BY1 – Bylany 1 area
SEKCE	Part of locality	Section A, B, F (Fig. 19–22)
SEKTOR	Sector of square grid	
ROK	Year of excavation	
VYZKCAST	The feature was only partially excavated	x - yes
VYZKCELY	The entire feature was excavated	x - yes
DELKA_CM	Length in cm	Numerical field
SIRKA_CM	Width in cm	Numerical field
HLOUBKA_CM	Depth in cm	Numerical field
VYPLN_KOD	Fill code	 Uniform black Uniform brown Black with yellowish soil Brown with yellowish soil Layered with daub (storage pit) with a daub layer or mixed with daub with a charcoal layer or mixed with charcoal Non-uniform, varied at individual depths
NALEZY_ANO	Finds removed	x - yes
NALEZY_NE	Without finds	x - yes
Data concerning spatia	relationships of the feature to its surroundi	ngs:
IZOL_01	Feature is isolated	x - yes
EEI	Feature belongs to (house number)	House number
EEIII	Feature likely belongs to (house number)	House number
EEII	Feature definitely does not belong to (house number)	House number
EEIV	Feature likely does not belong to (house number)	House number
TABULKA	Links to illustrations	
POKRAC EE	Additional data from external records	

Tabulka BY13 DOMY

- Entity: ground plan of house
- Number of entities: 119
- Number of fields: 38
- Description: a list of preserved ground plans of above-ground post structures, including house dimensions, typological classification, dating in the settlement and other special tracked attributes.
- Literature:
 - von Brandt, D. 1988: Häuser, In: Boelicke, U. Brandt, D.v. Lüning, J. Stehli, P. Zimmermann, A. (eds.), Der bandkeramische Siedlungsplatz Langweiler 8, 36-289. Köln: Rheinland-Verlag.
 - Modderman, P. J. R. 1986: On the typology of the house plans and their European setting, Památky archeologické 77, 383-394.
 - Pavlů, I. Rulf, J. Zápotocká, M. 1986: Theses on the Neolithic Site of Bylany. Památky archeologické 77, 288-412.

	Field	Heading	Description of quality
1	DUM	House number	Numerical field
•	PLOCHA	Excavation surface	A, B, F (Fig. 19-22)
	FAZE86	Chronological phase of settlement (1986)	1 - 25; 99 – not dated in phase
	STUPEN	LBK chronology stage	1c, 2a-d, 3a-b, 3-4, 4a-b
	PERIOD2000	Number of settlement interval according to 2000 chronology	1 - 6
	TYPFORM	Type and form of ground plan	1 – one-part ground plan; 2 – two-part; 3 - three- part; 99 – cannot be determined
	TYPMODD86	Ground plan typology (Fig. 9)	2 – type 1; 3 – type 2; 4 – type 3; 6 – probably type 1; 7 – probably type 2; 8 – probably type 3; 9 – type cannot be determined
	CASTDOMU	Existing parts of house	0 – not coded; 1 – N; 2 – M; 3 – S; 4 – N+M; 5 – N+S; 6 – M+S; 7 – N+M+S; 8 - ?house; 9 – not possible to determine. S – northern part, M – middle part, J – southern part (compare von Brandt 1988, 48)
	PRIDAVEK	Connected post structures	0 – not coded; 3 – enclosure; 7 – not certain; 9 – none (compare von Brandt 1988, 49)
	ZLABKYSTEN	Type of wall trench	0 – not coded; 1-; 4-; 5-; 7-; 8-; 12-; 13-; 14-; 19- none; (see von Brandt 1988, 50, Abb. 33)
	PODLOZI	Loess base	0 - not coded; 1 - loess
	PORUSENI	Type and method of disruption	0 – not coded; 2 – excessively deep topsoil; 3 – incomplete topsoil; 5 – erosion; 6 – erosion and earth work; 7 – erosion and later features; 8 – multiple reasons (compare von Brandt 1988, 52)
	NZACH	Preservation of northern part	0 – not coded; 1 – not preserved, but former existence is apparent; 2 – not preserved and it is unclear if it once existed; 3 – completely preserved; 4 – apparently preserved in entirety; 5 – unclear whether preserved in entirety; 6 – incomplete; 9 – not clear whether it involves this part (compare von Brandt 1988, 54)
	NKULU	Number of posts in northern part	Numerical field
	NTROJ	Number of triple post holes in northern part	Numerical field
	NDEDM	Length of northern part in dm	Numerical field
	NSIDM	Width of northern part in dm	Numerical field
	NSUM2	Area of northern part in m ²	Numerical field
	MZACH	Preservation of middle part	0 - not coded; 1 - not preserved, but formerexistence is apparent; 2 - not preserved and it isunclear if it once existed; 3 - completelypreserved; 4 - apparently preserved in entirety; 5 -unclear whether preserved in entirety; 6 -incomplete; 9 - not clear whether it involves thispart (compare von Brandt 1988, 54)
	MKULU	Number of posts in middle part	Numerical field
	MTROJ	Number of triple post holes in middle part	Numerical field
	MDEDM	Length of central part in dm	Numerical field
	MSIDM	Width of central part in dm	Numerical field
	MSUM2	Area of central part in m ²	Numerical field
	SZACH	Preservation of southern part	0 - not coded; $1 - $ not preserved, but former

Incomplete; 9 - not clear whether it invol part (compare von Brandt 1988, 54)SKULUNumber of posts in southern partNumerical fieldSTROJNumber of triple post holes in northern partNumerical fieldSDEDMLength of northern part in dmNumerical fieldSSIDMWidth of northern part in dmNumerical fieldSSUM2Area of northern part in m²Numerical fieldDELKADOverall ground plan length (D1 + D2 + D3) in dmNumerical fieldINDEXLength to width ratioNumerical field	-
SKULUNumber of posts in southern partNumerical fieldSTROJNumber of triple post holes in northern partNumerical fieldSDEDMLength of northern part in dmNumerical fieldSSIDMWidth of northern part in dmNumerical fieldSSUM2Area of northern part in m²Numerical fieldDELKADOverall ground plan length (D1 + D2 + D3) in dmNumerical fieldINDEXLength to width ratioNumerical field	ves this
STROJNumber of triple post holes in northern partNumerical fieldSDEDMLength of northern part in dmNumerical fieldSSIDMWidth of northern part in dmNumerical fieldSSUM2Area of northern part in m²Numerical fieldDELKADOverall ground plan length (D1 + D2 + D3) in dmNumerical fieldINDEXLength to width ratioNumerical field	
SDEDMLength of northern part in dmNumerical fieldSSIDMWidth of northern part in dmNumerical fieldSSUM2Area of northern part in m²Numerical fieldDELKADOverall ground plan length (D1 + D2 + D3) in dmNumerical fieldINDEXLength to width ratioNumerical field	
SSIDMWidth of northern part in dmNumerical fieldSSUM2Area of northern part in m²Numerical fieldDELKADOverall ground plan length (D1 + D2 + D3) in dmNumerical fieldINDEXLength to width ratioNumerical field	
SSUM2Area of northern part in m^2 Numerical fieldDELKADOverall ground plan length $(D1 + D2 + D3)$ in dmNumerical fieldINDEXLength to width ratioNumerical field	
DELKADOverall ground plan length $(D1 + D2 + D3)$ in dmNumerical fieldINDEXLength to width ratioNumerical field	
INDEX Length to width ratio Numerical field	
(AD/S2)	
DEZLABKU Length of foundation trench Numerical field	
ORMDIA Deviation of middle part	
diagonal from north in degrees Numerical field	
ORPDIA Deviation of diagonal of	
in degrees <i>Numerical field</i>	
ORPAXE Deviation of long axis from	
north in degrees Numerical field	
KODFA86 Dating Coded dating into phases in time interval	<u>s:</u> 1 to 7
7 for III to IVb, see Pavlů-Rulf-Zápotock	á 1986
Tab. 31, column 1	
KODET86DatingCoded dating into stages: $13 - Ic; 16 - I/I$ IIa; $22 - IIb; 23 - IIc; 24 - IId; 31 - IIIa;$ $36 - III/IV: 41 - IVa: 42 - IVb: 99 - pate$	I· 21

Tabulka BY14_KE-LBK-celky

- The "KONTEXT" field is a unique value enabling correlation.
- Number of entities: 1 045
- Number of fields: 34
- Description: secondary records of Linear Pottery culture (LBK) ceramic finds grouped according to spatial analytical units (archaeological features). Fields contain a quantitative record of ceramic attributes in the form of real numbers.
- Literature:
 - Pavlů, I. Rulf, J. Zápotocká, M. 1986: Theses on the Neolithic site of Bylany, Památky archeologické 77, 288-412.

	Field	Heading	Description of quality
	PORADI	Feature number (context) for automatic classification	Numerical field
9	KONTEXT	Feature number (context) – a unique number enabling correlation	Text field
4	CAST	Feature section (context) according to documentation	
	CELEK	Spatial integrity	Whole = not further divided; sections = sections of a single feature

POCET	Number of LBK ceramic specimens	Numerical field
LO	Number of linear decorated ceramic specimens	Numerical field
РО	Number of relief decorated ceramic specimens	Numerical field
ТО	Number of technically decorated ceramic specimens	Numerical field
NO	Number of undecorated ceramic specimens	Numerical field
JMN	Number of fine ceramics	Numerical field
HRB	Number of coarse ceramics	Numerical field
Technical execution of	linear decoration (Fig. 17 and 18):	
LOAL12	Alpha 12	Numerical field
LOAL13	Alpha 13	Numerical field
LOAL20	Alpha 20	Numerical field
LOAL30	Alpha 30	Numerical field
LOBETA	Beta	Numerical field
LOGAMA	Gamma	Numerical field
LODE12	Delta 12	Numerical field
LODE30	Delta 30	Numerical field
LOEP10	Epsilon 10	Numerical field
LOEP20	Epsilon 20	Numerical field
LOEP00	Epsilon? (not specified in greater detail)	Numerical field
LOEP30	Epsilon 30	Numerical field
LOTHETA	Theta	Numerical field
LOETA	Eta	Numerical field
LODZETA	Zeta	Numerical field
LOJINE1	Other type of linear decoration	Numerical field
KOD	Primary record code (1EV)	Fig. 17 and 18
Summarisation by segr	nents:	
CELY	Whole vessel	Numerical field
OKRAJ	Rim fragment	Numerical field
DNO	Bottom fragments	Numerical field
STENA	Wall fragments	Numerical field
PUPKY	Number of knobs	Numerical field
UCHA	Number of handles	Numerical field

Tabulka BY15_nekeramika_celky

- The "KONTEXT" field is a unique value enabling correlation.
- Number of entities: 1 130
- Number of fields: 16
- Description: quantitative and dichotomous records of non-ceramic finds grouped according to spatial analytical units (archaeological features). Fields contain a quantitative record of ceramic attributes in the form of real numbers.

Field	Heading	Description of quality
PORADI	Feature number (context) for automatic classification	Numerical field

1	KONTEXT	Feature number (context) – a unique number enabling correlation	Text field
	CAST	Feature par (context) according to documentation	
	CELEK	Spatial integrity	Whole = not further divided; sections = sections of a single feature
	SI	Number of artefacts from the chipped tool category	Numerical field
	BI	Number of artefacts from the polished tool category	Numerical field
	BR	Number of artefacts from the whetstone category	Numerical field
	KA	Number of artefacts from stone category without signs of treatment	Numerical field
	mlyn	Number of artefacts from grinding stone category	Numerical field
	JINA_STK	Number of ceramic pieces dated to Stroked Pottery culture	Numerical field
	JINA_KERA	Number of post-Neolithic ceramic pieces	Numerical field
	KOSTI	Evidence of the presence of animal bones	x – yes; - no; o – not documented
	MAZANICE	Evidence of the presence of daub	x – yes; - no; o – not documented
	UHLIKY	Evidence of the presence of charcoal	x - yes; - no; o - not documented
	JINE	Finds from categories not listed	
	POZNAMKA	Clarification note	

Tabulka BY16_ kontexty GIS v1

- The "KONTEXT" field is a unique value enabling correlation.
- Number of entities: 1 071
- Number of fields: 5
- Description: an overview of contexts located in the GIS vector layer. Of the total number of features in Bylany subjected to archaeological study, only units related to the Linear Pottery culture settlement were included in the GIS in this version.

	Field	Heading
	PORADI	Feature number (context) for automatic classification
9	KONTEXT	Feature number (context) entered in the GIS vector layer – a unique number enabling correlation
4	AREA	Part of locality: Section A, B, F (Fig. 19-22)
	Shape_Length	Feature ground plan in metres
	Shape_Area	Feature area in m ²

Coding of layers and parts of features

Layers

Finds	Finds from a single layer											
Code	10	20	30	40	50	60	70	80	90	0		
Layer	1	2	3	4	5	6	7	8	9	Unmarked		

Find	Finds from two layers																
Code	Layers	Code	Layers	Code	Layers	Code	Layers	Code	Layers	Code	Layers	Code	Layers	Code	Layers	Code	Layers
01	0+1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02	0+2	12	1+2	-	-	-	-	-	-	-	-	•	-	-	-	-	-
03	0+3	13	1+3	23	2+3	-	-	-	-	-	-	-	-	-	-	-	-
04	0+4	14	1+4	24	2+4	34	3+4	-	-	-	-	-	-	-	-	-	-
05	0+5	15	1+5	25	2+5	35	3+5	45	4+5	-	-	-	-	-	-	-	-
06	0+6	16	1+6	26	2+6	36	3+6	46	4+6	56	5+6	-	-	-	-	-	-
07	0+7	17	1+7	27	2+7	37	3+7	47	4+7	57	5+7	67	6+7	-	-	-	-
08	0+8	18	1+8	28	2+8	38	3+8	48	4+8	58	5+8	68	6+8	78	7+8	-	-
09	0+9	19	1+9	29	2+9	39	3+9	49	4+9	59	5+9	69	6+9	79	7+9	89	8+9

Finds	Finds from three layers												
Code	Layers	Code	Layers	Code	Layers	Code	Layers	Code	Layers	Code	Layers		
11	0+1+2	21	0+1+3	31	0+1+(5-9)	41	0+2+(5-9)	51	1+2+3	61	1+4+(5-9)		
-	-	22	0+1+4	32	0+2+3	42	0+3+4	52	1+2+4	62	2+3+4		
-	-	-	-	33	0+2+4	43	0+3+(5-9)	53	1+2+(5-9)	63	2+3+(5-9)		
-	-	-	-	-	-	44	0+4+(5-9)	54	1+3+4	64	2+4+(5-9)		
-	-	-	-	-	-	-	-	55	1+3+(5-9)	65	3+4+(5-9)		
-	-	-	-	-	-	-	-	-	-	66	other comb. of		
-	-	-	-	-	-	-	-	-	-	-	3: 4+5+6		
-	-	-	-	-	-	-	-	-	-	-	to: 7+8+9		

Finds	Finds from four layers											
Code	Layers Code		Layers									
71	0+1+2+3	81	0+2+3+(5-9)									
72	0+1+2+4	82	0+2+4+(5-9)									
73	0+1+2+(5-9)	83	0+3+4+(5-9) to: $0+7+8+9$									
74	0+1+3+4	84	1+2+3+4									
75	0+1+3+(5-9)	85	1+2+3+(5-9)									
76	0+1+4+(5-9)	86	1+2+4+(5-9)									
77	0+2+3+4	87	1+3+4+(5-9)									
-	-	88	2+3+4+(5-9) and other combinations of 4 up to: $6+7+8+9$									

Finds	from five layers	Finds from more					
		layers					
Code	Layers	Code	Layers				
91	0+1+2+3+4	97	with 0, i.e.,				
71	0+1+2+5+4	71	0+n ₂₋₉				
92	(1+1+2+3+(5-9))	98	with 1, i.e.,				
72	0.1.2.5.(5.9)	70	$1 + n_{2-9}$				
93	0+1+2+4+(5-9)	99	other: n ₂₋₉				
94	0+1+3+4+(5-9)	-	-				
95	0+2+3+4+(5-9) and others with 0 up to:	_	_				
,,	0+6+7+8+9	-	-				
96	1+2+3+4+(5-9) up to: $5+6+7+8+9$	-	-				

Parts of feature

Finds from one part of feature:									
Code 1 2 3 4 5 6 7 8 9									
Part	a	b	с	d	e	f	g	h	i

Finds	Finds from two parts of feature														
Code	Part	Code	Part	Code	Part	Code	Part	Code	Part	Code	Part	Code	Part	Code	Part
12	a + b	-	-	-	1	-	-	-	1	-	-	-	-	-	-
13	a + c	23	b + c	-	-	-	-	-	-	-	-	-	-	-	-
14	a + d	24	b + d	34	c + d	-	-	-	-	-	-	-	-	-	-
15	a + e	25	b + e	35	c + e	45	d + e	-	-	-	-	-	-	-	-
16	a+f	26	b + f	36	c + f	46	d + f	56	e + f	-	-	-	-	-	-
17	a + g	27	b + g	37	c + g	47	d + g	57	e + g	67	f + g	-	-	-	-
18	a + h	28	b + h	38	c + h	48	d + h	58	e + h	68	f + h	78	g + h	-	-
19	a + i	29	b + i	39	c + i	49	d + i	59	e + i	69	f+i	79	g + i	89	h + i

Find	ls from	three	e parts	of fea	ture												
Code	Part	Code	Part	Code	Part	Code	Part	Code	Part	Code	Part	Code	Part	Code	Part	Code	Part
11	a+b+c	21	a+b+d	31	a+b+f	41	a+b+i	51	a+c+g	61	a+d+g	71	a+e+i	81	b+c+d	-	-
-	-	22	a+b+e	32	a+b+g	42	a+c+d	52	a+c+h	62	a+d+h	72	a+f+g	82	b+c+e	-	-
-	-	-	-	33	a+b+h	43	a+c+e	53	a+c+i	63	a+d+i	73	a+f+h	83	b+c+f	91	b+d+g
-	-	-	-	-	-	44	a+c+f	54	a+d+e	64	a+e+f	74	a+f+i	84	b+c+g	92	b+d+h
-	-	-	-	-	-	-	-	55	a+d+f	65	a+e+g	75	a+g+h	85	b+c+h	93	b+d+i
-	-	-	-	-	-	-	-	-	-	66	a+e+h	76	a+g+i	86	b+c+i	94	c+d+e
		-	-	-	-	-	-	-	-	-	-	77	a+h+i	87	b+d+e	95	c+d+f
		-	-	-	-	-	-	-	-	-	-	-	-	88	b+d+f	96	c+d+g
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	c+d+h
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	98	c+d+i
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	99	other

Instructions for using the data CD

Insert the enclosed CD into your computer's disk drive. The window that automatically appears allows you to choose whether you want to work with the database, the GIS map, the electronic version of the manual, or connect to *www.bylany.com*.

Database version 1.0

The database system is built on two levels. Containing a prepared form-type display with basic filters, the basic level of the database is intended for standard users (Fig. 23 and 24). The system also includes an interface that connects the database to image documentation in PDF format. In order for the system to work, it is necessary to install the database software Microsoft Access (version 2000 to 2003) and Adobe Acrobat Reader with at least version 6.0 (can be installed from the CD in the "Install Adobe Reader" directory).

The images of finds and archaeological features on the CD in PDF format are copies of the images in Bylany catalogues (Pavlů – Zápotocká 1983; Pavlů – Zápotocká – Soudský 1985; Pavlů – Zápotocká – Soudský 1987). In the case that no drawings exist for a given feature (e.g. the feature did not contain any archaeological finds), a dialogue window will appear with the message "*náhled není k dispozici*" ("no view available").

The second, expanded, level of the database is intended for advanced users and enables work with all of the tables and the creation of queries. In order to work with the database at this level, it is necessary to thoroughly study the meta-data manual.

"Bylany – Essential Database" contains a total of sixteen basic tables (labelled BY01 - BY16) and a series of auxiliary tables (labelled D900 – D919). Tables BY01-BY04 offer basic records of spatial contexts, archaeological finds and their characteristics. The following twelve tables (BY05–BY16) present special records of individual entities (houses, ceramics, chipped and polished tools, grinding stones and chronological segments).

Troubles may arise during the launching of the database from the CD due to the large number of various application versions that may be used. In such case, we recommend downloading the entire :\database directory onto the computer's hard drive. We apologize for any inconveniences this might cause.

GIS map version 1.0

The original map documentation of the archaeological excavations in Bylany was converted into vector digital form. The resulting data is saved in .SHP format with the setup of geographical coordinates for S-JTSK (east-north). The .SHP format is primarily intended for GIS software by the Esri company, but can also be regularly used in other GIS programs.

Upon clicking on the "Mapa GIS verze 1.0" (GIS map version 1.0) icon, users without any GIS software will be prompted to install the ArcReader 9.2 program, which is also included on the CD (install ArcReader92/setup.exe). The start-up file of the Bylany map documentation for this program is "Bylany_GIS_v1.pmf". The use of this software is restricted to non-commercial purposes and is subjected to the licensing rules of Esri, as set forth in the "ArcReaderLicense.pdf" file in the Documentation directory on the CD. The "Bylany_GIS_v1.mxd" project is directly available to users with the full version of ArcGIS 9. Individual files in the GIS directory represent independent map layers, a description of which is presented in table BY16.

The *BY16_kontexty GIS v1* database table contains a list of all archaeological features at the Bylany 1 site (areas A, B, F); the vector layout of these features is included on the GIS map. We expect a reciprocal interconnection between GIS and the databases in tables BY11 – BY15.

File	Layer	Field for correlation with Bylany – Essential Database
BY_domy07	Reconstructed ground plans of houses in areas A, B, F	" <u>House</u> " – ground plan number of house; the field can be connected to the field with the same name in the database tables
	Ground plans of archaeological features of	" <u>Context</u> " – number of archaeological feature (or part thereof); the field can be connected to the field with the same name in
BY_kontexty07	areas A, B, F	the database tables
	Borders of the construction complex of house	
BY_buffer07	within 5 m of the assumed house walls	
BY_kulove jamy	Layout of post holes	
BY_vykopane_plochy	Borders of studied areas A, B, F	
A_ctverce_polygon	Site grid - 15 x 15 m	
B_ctverce_polygon	Site grid - 15 x 15 m	
F_ctverce_polygon	Site grid - 15 x 15 m	
casti_objektu_abf	Description of individual parts of the feature	
BY_hrany prekryti	Edges overlapping spatial elements	
	Features of a natural origin (runoff, windthrow,	
natural_kontexty	trenches, etc.)	
BY_vrstevnice_mikroareal	Contour lines every 2 m	
BY_arealy	Geographic location of Bylany sites	
BY_vodni toky	Water course	
BY_popisy_ploch	Description of individual sites	

Table 2 - Description of GIS map layers

While the publication of the database in CD form offers numerous advantages, it also comes with certain problems. An example is the updating of the database contents and the correction of errors likely to occur in a system of this size. A final solution could therefore be the publication of the entire system on the Internet at *www.bylany.com*.

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List of illustration appendices:

- Fig. 1. Material, tempering and repairs to the surfaces of ceramics (Soudský 1967).
- Fig. 2. Vessel shapes, rim angles, swell and shapes of bottom (Soudský 1967).
- Fig. 3. Knobs and projections on ceramics (Pavlů Zápotocká 1978).
- Fig. 4. Handles on ceramics (Pavlů-Zápotocká 1978).
- Fig. 5. Technical (TO) and relief (PO) decoration of ceramics (Soudský 1967).
- Fig. 6. Motifs and variations of linear ornament (LO).
- Fig. 7. Lines under the rim.
- Fig. 8. Upper and lower supplemental ornamentation.
- Fig. 9. House typology (Modderman 1986).
- Fig. 10. SHASI (shape and size) and SHAVO (shape and volume) codes (Pavlů 2000).
- Fig. 11. Formal and functional classification of chipped tools (Pavlů 2000), the direction of blows on chipped tools (Zimmermann 1978). The functional classification of grinding stones (Pavlů 2000); prototypes of handstones and grinding stones (Pavlů 2000).
- Fig. 12. Classification of shoe-last adzes (Rulf 1991).
- Fig. 13. Classification of flat shoe-last axes (Rulf 1991).
- Fig. 14. Types of grinding stones (Pavlů 1991).
- Fig. 15. Diagram of linear decoration techniques and attributes (Pavlů 2000, 151).
- Fig. 16. Situational analysis of Linear Pottery vessel shapes.
- Fig. 17. Linear ornament techniques (LO: -etic, -emic), part 1 (Pavlů Rulf Zápotocká 1986).
- Fig. 18. Linear ornament techniques (LO: -etic, -emic), part 2 (Pavlů Rulf Zápotocká 1986).
- Fig. 19. Bylany maps of studied areas A, B, F. Archaeological features and reconstructed house ground plans are shown.
- Fig. 20. Bylany area A.
- Fig. 21. Bylany area B.
- Fig. 22. Bylany area F.
- Fig. 23. Instruction for work with database: basic screen.
- Fig. 24. Instruction for work with database: forms.

This publication summarizes the methodological and documentary basis used for processing and evaluating the materials from the Neolithic site of Bylany. It comprises large set of data and information about the archaeological sources and their formal, symbolic and spatial attributes. Owing to the inmense quantity of data collected over the forty years of archaeological research in Bylany, it proved necessary to create a central system allowing for effective use of the recorded data. This metadata manual, together with a compact set consisting of a database, graphic documentation and GIS map published on the enclosed digital data medium, should fulfil this purpose.