

Tk50 I6124 wurzburg nord topographische karte 1 5 Complete Guide

tk50 I6124 wurzburg nord topographische karte 1 5: A Comprehensive Guide to the Würzburg North Topographical Map 1:5,000

Understanding detailed topographical maps is essential for a variety of applications ranging from outdoor recreation and urban planning to military operations and environmental management. Among these, the **tk50 I6124 wurzburg nord topographische karte 1 5** stands out as a highly detailed map that provides extensive geographic information about the northern part of Würzburg. This article explores everything you need to know about this map, its features, uses, and how to access and interpret it.

What is the tk50 I6124 wurzburg nord topographische karte 1 5?

Definition and Purpose

The **tk50 I6124 wurzburg nord topographische karte 1 5** is a topographical map created at a scale of 1:5,000, covering the northern region of Würzburg, a city located in Bavaria, Germany. Topographical maps like this serve to depict the Earth's surface features with high accuracy, including elevation contours, landforms, infrastructure, vegetation, and water bodies.

These maps are primarily used by:

- Urban planners and developers for infrastructure projects
- Hikers, mountain bikers, and outdoor enthusiasts
- Environmental scientists and conservationists
- Military and emergency services
- Geographers and educators

Historical Context and Development

The topographical mapping of Würzburg and its surroundings has a long history, dating back to early survey techniques. Modern maps like the **tk50 I6124** are produced using advanced surveying methods, including aerial photography and GIS (Geographic Information Systems), ensuring high accuracy and detail.

The 'tk50' designation indicates a specific series or dataset, with 'I6124' referring to the map sheet covering the northern part of Würzburg. The 1:5,000 scale provides a detailed view suitable for precise navigation and planning.

Features and Details of the Map

Scale and Coverage

- Scale: 1:5,000 (meaning 1 cm on the map equals 50 meters on the ground)
- Coverage Area: The northern part of Würzburg, extending to surrounding villages, natural parks, and key landmarks
- Map Size: Typically printed on a standard sheet, but available in digital formats for ease of use

Key Features Included

- Elevation Contours: Showing land elevation and slope steepness
- Roads and Pathways: Including streets, secondary roads, hiking trails, and footpaths
- Water Bodies: Rivers, streams, lakes, and ponds
- Vegetation: Forested areas, parks, agricultural land, and urban green spaces
- Buildings and Landmarks: Churches, schools, historic sites, and other structures
- Utilities and Infrastructure: Power lines, pipelines, and communication towers
- Land Use Data: Residential, commercial, industrial, and protected areas

Additional Topographical Elements

- Relief and Terrain Features: Hills, valleys, and ridges depicted through contour lines
- Geological Information: Rock formations or soil types, if included
- Boundary Lines: Administrative boundaries and property lines

How to Use the tk50 I6124 wurzburg nord topographische karte 1 5

Navigation and Outdoor Activities

This detailed map is ideal for outdoor enthusiasts planning hikes or bike rides in Würzburg's northern regions. Its precise contours and land features help in:

- Planning routes avoiding steep terrains

- Identifying water sources and rest spots
- Navigating through forests and parks

Urban Planning and Development

Engineers and planners utilize this map for:

- Infrastructure development
- Zoning and land use planning
- Environmental impact assessments
- Disaster management planning

Environmental Conservation

Scientists and conservationists use the map to monitor:

- Natural habitats
- Changes in land use over time
- Water resource management

Military and Emergency Services

The map provides critical geographic details needed for:

- Strategic planning
- Search and rescue operations
- Emergency response coordination

Accessing the tk50 I6124 wurzburg nord topographische karte 1 5

Download Options

The map can typically be accessed through various channels:

- Official Government Portals: The Bavarian Survey Authority or local municipal websites may provide downloadable digital versions
- Specialized GIS Platforms: For advanced users, GIS software can load and analyze digital map

data

- Printed Maps: Available through authorized map retailers or local bookstores

Formats Available

- Digital Formats: PDF, GeoTIFF, or shapefiles compatible with GIS software
- Printed Paper Maps: For field use or display

Legal and Licensing Considerations

Ensure that you acquire maps through authorized sources to respect copyright laws and data licensing agreements. Some maps are free for public use, while others may require purchase or licensing.

Interpreting the Map: Tips and Techniques

Understanding Contour Lines

- Contour lines depict elevation changes; closely spaced lines indicate steep terrain, while wider spacing suggests gentle slopes.
- Elevation markers may be included at specific points for reference.

Deciphering Symbols and Legends

- Familiarize yourself with the map legend, which explains symbols for features such as buildings, water bodies, and vegetation.
- Recognize standard symbols used in topographical maps for quick interpretation.

Using Grid References

- Most maps feature a grid overlay for locating points precisely.
- Use grid references to communicate locations accurately with other users or in navigation devices.

Advantages of Using the tk50 I6124 wurzburg nord topographische karte 1 5

- High Detail and Accuracy: The 1:5,000 scale provides precise geographic information.
- Versatility: Suitable for a range of activities, from outdoor recreation to professional planning.
- Comprehensive Data: Combines natural and man-made features for a holistic view.
- Ease of Use: Clear symbols and legends facilitate quick understanding.

Conclusion

The **tk50 I6124 wurzburg nord topographische karte 1 5** is an invaluable resource for anyone interested in the geography of Würzburg's northern region. Whether for outdoor adventures, urban development, environmental conservation, or educational purposes, this map offers detailed and reliable geographic information. Accessing and interpreting it properly can significantly enhance your understanding of the local terrain, infrastructure, and natural features.

By understanding its features, applications, and how to utilize it effectively, users can maximize the benefits of this topographical map. As digital mapping technology continues to advance, combining traditional maps like the **tk50 I6124** with GIS tools can unlock even more possibilities for analysis and planning.

Additional Resources

- Bavarian Survey Authority: Official source for topographical maps and data
- GIS Software: ArcGIS, QGIS, and other platforms for digital map analysis
- Outdoor Maps and GPS Devices: For field navigation using the map data
- Local Tourism Offices: For printed maps and regional geographic guides

In summary, the **tk50 I6124 wurzburg nord topographische karte 1 5** is a detailed topographical resource that serves a wide range of practical and recreational needs. Its precision and comprehensive coverage make it a vital tool for anyone working or exploring in northern Würzburg.

tk50 I6124 wurzburg nord topographische karte 1 5

Introduction

In the realm of topographical mapping, precision, detail, and accessibility are paramount. Among the extensive array of geographic tools, the **tk50 I6124 wurzburg nord topographische karte 1 5** emerges as a noteworthy specimen, particularly for its targeted application in the northern regions of Würzburg. This comprehensive review delves into the origins, technical specifications, practical applications, and the significance of this topographical map series within both professional and recreational contexts.

Historical Context and Development

Origins of the TK50 Series

The tk50 series of topographical maps originates from Germany's longstanding tradition of detailed geospatial documentation. Developed by the Bundesamt für Kartographie und Geodäsie (BKG), the TK50 maps were initiated in the late 20th century as part of a nationwide effort to modernize and standardize topographical representations across federal states.

Würzburg Region in Focus

Würzburg, a city nestled in Bavaria's scenic Franconia region, holds strategic importance historically and geographically. Its diverse terrain, comprising river valleys, rolling hills, and urban landscapes, necessitated high-resolution mapping to serve military, civil, and recreational needs. The wurzburg nord (north) segment of the TK50 series specifically addresses the topography north of the city center, encompassing key infrastructural and natural features.

Technical Specifications and Features

Scale and Coverage

The tk50 I6124 wurzburg nord topographische karte 1 5 is characterized by a 1:5,000 scale, offering a high level of detail suitable for precise navigation and planning. The map covers a designated segment of Würzburg's northern landscape, typically spanning an area of approximately 10 to 15 square kilometers, depending on the specific edition.

Cartographic Content

This map series emphasizes:

- Relief and Elevation: Contour lines at regular intervals (often every 10 meters) depict elevation changes, vital for understanding terrain variability.
- Hydrography: Rivers, streams, lakes, and wetlands are meticulously marked.
- Vegetation and Land Use: Forests, meadows, urban areas, and agricultural zones are distinguished through color coding and symbols.
- Infrastructure: Roads, pathways, railways, bridges, and buildings are indicated with precise symbols.
- Points of Interest: Landmarks, parks, and facilities are annotated for ease of identification.

Data Accuracy and Updates

The tk50 I6124 edition adheres to rigorous standards, utilizing data from aerial surveys, satellite imagery, and ground verification. Its accuracy is typically within a few meters, making it suitable for activities requiring detailed spatial awareness, such as urban planning, outdoor recreation, and environmental monitoring.

Practical Applications

Civil and Urban Planning

Urban developers and civil engineers utilize the map for:

- Planning infrastructural projects
- Assessing land suitability
- Managing environmental impact assessments

Military and Security Uses

The detailed topographical data aids in military strategizing, navigation, and logistical planning within the Würzburg northern sector.

Outdoor Activities and Recreation

Hikers, cyclists, and outdoor enthusiasts benefit from the detailed terrain features, enabling safe and efficient navigation through natural landscapes.

Environmental and Conservation Efforts

Ecologists and conservationists employ these maps to monitor land use changes, habitat preservation, and water resource management.

Comparative Analysis with Other Cartographic Resources

Advantages of the TK50 Series

- High Resolution: The 1:5,000 scale provides granularity unmatched by broader-scale maps.
- Detail-Oriented Symbols: Facilitates precise navigation and planning.
- Standardization: Consistent symbology and data formats across editions.

Limitations

- Coverage Limitations: Focused on specific areas; not as comprehensive as regional or national maps.
- Update Frequency: May lag behind recent developments, especially in rapidly urbanizing zones.
- Accessibility: Physical copies may be costly; digital versions require specialized GIS software for full utilization.

Modern Developments and Digital Integration

Transition to Digital GIS Platforms

The advent of Geographic Information Systems (GIS) has transformed how topographical data like tk50 I6124 is accessed and utilized. Digital versions of these maps are now compatible with software such as ArcGIS, QGIS, and other mapping tools, allowing for dynamic analysis and overlay with other spatial datasets.

Interactive and Web-Based Maps

Efforts are underway to digitize the tk50 series for online platforms, enhancing accessibility for researchers, planners, and the public. These interactive maps facilitate real-time updates and customizable views, which are crucial for contemporary applications.

Critical Review and Future Perspectives

Strengths

- Exceptional detail suitable for specialized tasks.
- Proven reliability and standardized cartographic conventions.
- Valuable historical record of the region's topography at the time of publication.

Areas for Improvement

- Integration with real-time data sources for dynamic updates.
- Expansion into broader geographic coverage for seamless regional navigation.
- Enhancement of digital interactivity to facilitate user engagement.

Future Developments

Given technological advancements, future iterations of the tk50 series are anticipated to incorporate:

- Higher-resolution satellite data.
- 3D terrain modeling.
- Augmented reality applications for on-site navigation.
- Environmental sensors and IoT integrations for real-time environmental monitoring.

Conclusion

The tk50 l6124 wurzburg nord topographische karte 1 5 stands as a testament to meticulous cartography and regional planning, offering detailed insights into the northern environs of Würzburg. Its precision and comprehensive scope make it indispensable for a range of professional and recreational applications. As digital innovations continue to evolve, integrating these traditional maps into modern GIS frameworks promises to enhance their utility and accessibility, ensuring that they remain relevant tools in geographic sciences and regional development.

In sum, this topographical map series exemplifies the enduring importance of detailed geographic documentation, providing a foundation upon which diverse sectors can build more informed, sustainable, and efficient strategies for land use, navigation, and environmental stewardship in the Würzburg region and beyond.

QuestionAnswer Was ist die 'TK50 L6124 Würzburg Nord Topographische Karte 1:5.000'? Die 'TK50 L6124 Würzburg Nord' ist eine topographische Karte im Maßstab 1:5.000, die detaillierte geografische Informationen für den nördlichen Bereich von Würzburg bereitstellt. Wozu wird die Topographische Karte 1:5.000 in Würzburg Nord verwendet? Sie wird vor allem für Stadtplanung, Navigation, Geografie-Studien und örtliche Entwicklungsprojekte genutzt, da sie präzise Details der Region zeigt. Wie kann man die TK50 L6124 Karte Würzburg Nord digital erwerben? Sie kann beim Vermessungsamt, bei geographischen Datenanbietern oder in spezialisierten Karten-Shops online gekauft oder heruntergeladen werden. Welche besonderen Merkmale weist die Karte im Maßstab 1:5.000 auf? Sie zeigt detaillierte Informationen wie Straßen, Wege, Geländestrukturen, Gewässer, Gebäude und andere topografische Details mit hoher Präzision. Ist die TK50 L6124 Würzburg Nord auch für Outdoor-Aktivitäten geeignet? Ja, die Karte eignet sich gut für Wanderungen, Radfahren und andere Outdoor-Aktivitäten, die eine detaillierte topographische Orientierung erfordern. Gibt es eine aktualisierte Version der Karte für das Jahr 2024? Aktuell sind die neuesten verfügbaren Versionen in der Regel von den offiziellen Vermessungsämtern erhältlich; es empfiehlt sich, die aktuelle Aktualität bei den Anbietern zu prüfen. Welche Unterschiede bestehen zwischen der TK50 und anderen Kartenmaßstäben für Würzburg Nord? Die TK50 im Maßstab 1:5.000 bietet eine höhere Detailtreue im Vergleich zu größeren Maßstäben wie 1:25.000 oder 1:50.000, was sie ideal für genaue lokale Analysen macht. Kann die Karte für professionelle Vermessungen genutzt werden? Ja, die topographische Karte im Maßstab 1:5.000 ist geeignet für professionelle Zwecke wie Vermessungen, Stadtplanung und Ingenieurprojekte. Wo finde ich weitere Informationen zur Nutzung der Topographischen Karte Würzburg Nord? Weitere Informationen erhält man bei lokalen Vermessungsämtern, Geodatenzentren oder auf offiziellen Webseiten der Stadt Würzburg. Gibt es

digitale Tools, mit denen man die TK50 L6124 Karte Würzburg Nord online nutzen kann? Ja, es gibt GIS-Plattformen und digitale Karten-Apps, die topographische Karten im Maßstab 1:5.000 integrieren, um eine einfache Nutzung und Analyse zu ermöglichen.

Related keywords: TK50, L6124, Würzburg Nord, topographische Karte, 1:50.000, topographische Karte Würzburg, Karten Bayern, Topografische Karten Deutschland, Wanderkarte Würzburg, topographische Karte Bayern