

|   | Page |
|---|------|
| New York, district office locations and addresses.....  | iii  |
| Preface .....   | iv   |
| List of surface-water stations, in downstream order, for which records are published in this volume ..... | viii |
| List of crest-stage partial record stations, in downstream order .....                                    | x    |
| List of ground-water wells, by county, for which records are published in this volume .....               | xii  |
| List of discontinued surface-water discharge or stage-only stations .....                                 | xiii |
| List of discontinued surface-water-quality stations .....   | xvii |
| List of discontinued crest-stage partial record stations.....   | xix  |
| Introduction.....   | 1    |
| Cooperation.....  | 1    |
| Summary of hydrologic conditions.....   | 2    |
| Surface water .....   | 2    |
| Water quality.....  | 3    |
| Ground water .....  | 4    |
| Downstream order and station number .....   | 8    |
| Numbering system for wells and miscellaneous sites .....  | 8    |
| Special networks and programs .....   | 8    |
| Explanation of stage and water discharge records.....   | 9    |
| Data collection and computation .....   | 9    |
| Data presentation .....   | 10   |
| Station manuscript.....   | 10   |
| Peak discharge greater than base discharge .....  | 11   |
| Data table of daily mean values .....   | 11   |
| Statistics of monthly mean data .....   | 11   |
| Summary statistics.....   | 12   |
| Identifying estimated daily discharge.....  | 13   |
| Accuracy of field and computed results .....  | 13   |
| Other data records available .....  | 13   |
| Explanation of precipitation records.....   | 13   |
| Data collection and computation .....   | 13   |
| Data presentation .....   | 13   |
| Explanation of water-quality records.....   | 14   |
| Collection and examination of data .....  | 14   |
| Water analysis.....   | 14   |
| Surface-water-quality records.....  | 14   |
| Classification of records .....   | 14   |
| Accuracy of the records .....   | 14   |
| Arrangement of records .....  | 14   |
| On-site measurements and sample collection.....   | 15   |
| Water temperature .....   | 15   |
| Sediment .....  | 15   |
| Laboratory measurements.....  | 15   |
| Data presentation .....   | 15   |
| Remark codes.....   | 16   |
| Water quality-control data .....  | 16   |
| Blank samples .....   | 17   |
| Reference samples.....  | 17   |
| Replicate samples .....   | 17   |
| Spike samples.....  | 17   |
| Explanation of ground-water-level records .....   | 17   |
| Site identification numbers .....   | 17   |
| Data collection and computation .....   | 18   |
| Data presentation .....   | 18   |
| Water-level tables.....   | 19   |
| Hydrographs .....   | 19   |
| Ground-water-quality data.....  | 19   |
| Data collection and computation .....   | 19   |
| Laboratory Measurements.....  | 19   |

|  |     |
|--|-----|
| Access to USGS water data .....  | 19  |
| Definition of terms.....   | 20  |
| Bibliography of recent reports relevant to western New York .....        | 34  |
| Publications on Techniques of Water-Resources Investigations .....       | 35  |
| Station records, surface water.....                                      | 44  |
| Discharge at partial-record stations and miscellaneous sites.....        | 242 |
| Crest-stage partial-record stations .....                                | 242 |
| Miscellaneous sites .....  | 250 |
| Analyses of samples collected at water-quality miscellaneous sites ..... | 251 |
| Station records, ground water .....                                      | 274 |
| Ground-water levels.....   | 274 |
| Quality of ground water.....   | 316 |
| Station records, quantity of precipitation.....                          | 344 |
| Chemical quality of precipitation .....                                  | 345 |
| Index .....  | 347 |

## ILLUSTRATIONS

|        |  |     |
|--------|--|-----|
| Figure | 1. Comparison of daily discharge at Susquehanna River at Conklin during 2003 water year<br>with median discharge for period 1952-2000 .....            | 5   |
|        | 2. Comparison of daily discharge at Allegheny River at Salamanca during 2003 water year<br>with median discharge for period 1952-2000 .....            | 6   |
|        | 3. Comparison of ground-water levels at selected observation wells in New York during 2003<br>water year with median levels for period of record ..... | 7   |
|        | 4. System for numbering wells .....  | 8   |
|        | 5. Map showing location of gaging stations and observation wells in western New York .....   | 38  |
|        | 6. Map showing location of gaging stations and observation wells in Erie and Niagara<br>Counties .....   | 40  |
|        | 7. Map showing location of gaging stations and observation wells in Monroe County.....   | 41  |
|        | 8. Map showing location of gaging stations and observation wells in Onondaga County .....  | 42  |
|        | 9. Map showing location of public water-supply sites sampled for pesticide analysis .....  | 266 |
|        | 10. Map showing location of community water-supply wells sampled for pesticide analysis.....   | 316 |
|        | 11. Map showing location of water-supply wells sampled in the Chemung River basin.....   | 321 |

## TABLES

|       |  |                            |
|-------|--|----------------------------|
| Table | 1. Mean discharge for water year 2003 and mean annual discharges for the period of<br>record, for selected streams .....             | 2                          |
|       | 2. Monthly mean discharge for water year 2003 as percentage of period of record<br>monthly median discharge, at selected sites ..... | 3                          |
|       | 3. Factors for converting inch-pound units to International System Units (SI)  | inside<br>of back<br>cover |

NOTE.--Data for partial-record stations and miscellaneous sites for both surface-water discharge and quality are published in separate sections of the data report. See reference at the end of this list for page numbers for these sections.

[Letters after station name designate type of data collected: (d) discharge, (c) chemical, (b) biological, (m) microbiological, (n) nutrient, (p) pesticide, (pr) precipitation, (t) water temperature, (s) sediment, (e) elevation, gage heights, or contents]

|  | Station number | Page |
|--|----------------|------|
| <b>NORTH ATLANTIC SLOPE BASINS</b>                           |                |      |
| <b>SUSQUEHANNA RIVER BASIN</b>                               |                |      |
| Susquehanna River:   |                |      |
| Ouleout Creek at East Sidney (d)                             | 01500000       | 47   |
| Unadilla River:  |                |      |
| Unadilla River at Rockdale (d)                               | 01502500       | 49   |
| Susquehanna River at Conklin (d)                             | 01503000       | 51   |
| Tioughnioga River at Cortland (d)                            | 01509000       | 53   |
| Otselic River at Cincinnatus (d)                             | 01510000       | 55   |
| Chenango River near Chenango Forks (d)                       | 01512500       | 57   |
| Susquehanna River near Waverly (d)                           | 01515000       | 59   |
| Canisteo River at Arkport (d)                                | 01521500       | 65   |
| Canacadea Creek near Hornell (d)                             | 01523500       | 63   |
| Canisteo River below Canacadea Creek, at Hornell (d)         | 01524500       | 65   |
| Tuscarora Creek above South Addison (d)                      | 01525981       | 67   |
| Tioga River near Erwins (d)                                  | 01526500       | 69   |
| Cohocton River:  |                |      |
| Cohocton River at Avoca (d)                                  | 01527500       | 71   |
| Cohocton River near Campbell (d)                             | 01529500       | 71   |
| Chemung River at Corning (d)                                 | 01529950       | 75   |
| Newtown Creek at Elmira (d)                                  | 01530500       | 77   |
| Chemung River at Chemung (d)                                 | 01531000       | 79   |
| Lakes and Reservoirs in Susquehanna River basin (e)          |                | 59   |
| <b>OHIO RIVER BASIN</b>                                      |                |      |
| <b>ALLEGHENY RIVER BASIN</b>                                 |                |      |
| Allegheny River (head of Ohio River) at Salamanca (d)        | 03011020       | 84   |
| Cassadaga Creek 86   |                |      |
| Chautauqua Lake (head of Chadakoin River) at Bemus Point (e) | 03013946       | 86   |
| Chadakoin River at Falconer (d)                              | 03014500       | 87   |
| Lakes in Allegheny River basin (d)                           |                | 88   |
| <b>ST. LAWRENCE RIVER BASIN</b>                              |                |      |
| Lake Erie:   |                |      |
| STREAMS TRIBUTARY TO LAKE ERIE                               |                |      |
| Cattaraugus Creek at Gowanda (d)                             | 04213500       | 90   |
| Buffalo Creek (head of Buffalo River) at Gardenville (d)     | 04214500       | 92   |
| Cayuga Creek near Lancaster (d)                              | 04215000       | 94   |
| Buffalo River:   |                |      |
| Cazenovia Creek at Ebenezer (d)                              | 04215500       | 96   |
| Lake Erie at Buffalo (e)                                     | 04215900       | 98   |
| Niagara River at Buffalo (d) 04216000                        |                | 99   |
| Black Rock Canal at Black Rock Lock, Buffalo (e)             | 04216218       | 101  |
| Niagra River at Black Rock Lock, Buffalo (e)                 | 04216220       | 102  |
| STREAMS TRIBUTARY TO NIAGARA RIVER                           |                |      |
| Tonawanda Creek at Attica (d)                                | 04216418       | 103  |
| Tonawanda Creek at Batavia (d)                               | 04217000       | 105  |
| Tonawanda Creek at Rapids (d)                                | 04218000       | 107  |
| Ellicott Creek below Williamsville (d)                       | 04218518       | 109  |
| Erie Barge Canal at Lock 30, Macedon (d)                     | 04219000       | 111  |
| <b>ST. LAWRENCE RIVER MAIN STEM</b>                          |                |      |
| Lake Ontario:  |                |      |
| STREAMS TRIBUTARY TO LAKE ONTARIO                            |                |      |
| Northrup Creek at North Greece (d,c,n,t)                     | 0422026250     | 112  |
| Genesee River at Wellsville (d)                              | 04221000       | 117  |
| Genesee River at Portageville (d)                            | 04223000       | 119  |

**SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE  
PUBLISHED IN THIS VOLUME--Continued**

|   | Station number | Page |
|---|----------------|------|
| ST. LAWRENCE RIVER BASIN--Continued                                       |                |      |
| ST. LAWRENCE RIVER MAIN STEM--Continued                                   |                |      |
| Lake Ontario:--Continued  |                |      |
| STREAMS TRIBUTARY TO LAKE ONTARIO--Continued                              |                |      |
| Mount Morris Lake near Mount Morris (e) . . . . .                         | 04224000       | 121  |
| Canaseraga Creek at Dansville (d) . . . . .                               | 04224775       | 122  |
| Canaseraga Creek at Shakers Crossing (d) . . . . .                        | 04227000       | 124  |
| Genesee River near Mount Morris (d) . . . . .                             | 04227500       | 126  |
| Conesus Lake near Lakeville (e) . . . . .                                 | 04227980       | 128  |
| Conesus Creek near Lakeville (d) . . . . .                                | 04227995       | 129  |
| Genesee River at Avon (d) . . . . .                                       | 04228500       | 131  |
| Honeoye Creek at Honeoye Falls (d,c,n) . . . . .                          | 04229500       | 133  |
| Oatka Creek at Warsaw (d) . . . . .                                       | 04230380       | 136  |
| Oatka Creek at Garbutt (d,c,n) . . . . .                                  | 04230500       | 138  |
| Genesee River at Ballantyne Bridge near Mortimer (e) . . . . .            | 04230650       | 142  |
| Black Creek at Churchville (d,c,n) . . . . .                              | 04231000       | 143  |
| Genesee River at Rochester (d) . . . . .                                  | 04232000       | 146  |
| Irondequoit Creek at Railroad Mills near Fishers (d,c,n,t) . . . . .      | 04232034       | 148  |
| Allen Creek:  |                |      |
| East Branch Allen Creek at Pittsford (d,c,n,t) . . . . .                  | 0423204920     | 153  |
| Allen Creek near Rochester (d,c,n,t) . . . . .                            | 04232050       | 157  |
| Irondequoit Creek above Blossom Road (d,c,n,t) . . . . .                  | 0423205010     | 161  |
| Irondequoit Creek at Empire Boulevard, Rochester (d,c,n,t) . . . . .      | 0423205025     | 165  |
| Seneca River (head of Oswego River):                                      |                |      |
| Seneca Lake at Watkins Glen (e) . . . . .                                 | 04232400       | 172  |
| Keuka Lake Outlet at Dresden (d) . . . . .                                | 04232482       | 173  |
| Cayuga Inlet near Ithaca (d) . . . . .                                    | y04233000      | 175  |
| Sixmile Creek at Brooktondale (d) . . . . .                               | 04233286       | 177  |
| Sixmile Creek at Bethel Grove (d,s) . . . . .                             | 04233300       | 180  |
| Cayuga Inlet (Cayuga Lake) at Ithaca (e) . . . . .                        | 04233500       | 184  |
| Virgil Creek at State Highway 13 at Dryden (d) . . . . .                  | 0423368620     | 185  |
| Fall Creek near Ithaca (d) . . . . .                                      | 04234000       | 189  |
| Clyde River:  |                |      |
| Great Brook below Victor (d) . . . . .                                    | 04234232       | 191  |
| Canandaigua Lake at Canandaigua (e) . . . . .                             | 04234500       | 194  |
| Canandaigua Outlet at Chapin (d) . . . . .                                | 04235000       | 195  |
| Flint Creek at Phelps (d) . . . . .                                       | 04235250       | 197  |
| Owasco Lake near Auburn (e) . . . . .                                     | 04235396       | 197  |
| Owasco Outlet at Genesee Street, Auburn (d) . . . . .                     | 04235440       | 201  |
| Seneca River near Port Byron (d) . . . . .                                | 04235600       | 203  |
| Seneca River, mouth at State Ditch near Jordan (e) . . . . .              | 04237411       | 205  |
| Seneca River at Baldwinsville (d) . . . . .                               | 04237500       | 206  |
| Onondaga Creek (head of Onondaga Lake Outlet):                            |                |      |
| Tributary #6 below main mudboil depression area, Tully (d,c,s) . . . . .  | 04237946       | 208  |
| Onondaga Creek near Cardiff (d) . . . . .                                 | 04237962       | 212  |
| Onondaga Creek at Dorwin Avenue, Syracuse (d) . . . . .                   | 04239000       | 215  |
| Onondaga Creek at Spencer Street, Syracuse (d) . . . . .                  | 04240010       | 217  |
| Harbor Brook at Syracuse (d) . . . . .                                    | 04240100       | 219  |
| Harbor Brook at Hiawatha Boulevard, Syracuse (d) . . . . .                | 04240105       | 221  |
| Ley Creek at Park Street, Syracuse (d) . . . . .                          | 04240120       | 223  |
| Otisco Lake:  |                |      |
| Spafford Creek:   |                |      |
| Spafford Creek tributary near Sawmill Road near Spafford (d,pr) . . . . . | 0424014980     | 225  |
| Ninemile Creek near Marietta (d) . . . . .                                | 04240180       | 230  |
| Ninemile Creek at Lakeland (d) . . . . .                                  | 04240300       | 232  |
| Onondaga Lake at Liverpool (e) . . . . .                                  | 04240495       | 234  |
| Oneida River (Oneida Lake):   |                |      |
| Oneida Creek at Oneida (d) . . . . .                                      | 04243500       | 235  |
| ST. LAWRENCE RIVER BASIN--Continued                                       |                |      |
| ST. LAWRENCE RIVER MAIN STEM--Continued                                   |                |      |

**SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE  
PUBLISHED IN THIS VOLUME--Continued**

|   | Station number | Page |
|---|----------------|------|
| Lake Ontario:--Continued  |                |      |
| STREAMS TRIBUTARY TO LAKE ONTARIO--Continued                        |                |      |
| Oswego River:   |                |      |
| Meadow Brook at Hurlburt Road, Syracuse (d) .....                   | 04245236       | 237  |
| Oneida Lake at Brewerton (e) .....                                  | 04246000       | 239  |
| Oneida River near Euclid (d) .....                                  | 04247000       | 240  |
| Oswego River at Lock 7, Oswego (d) .....                            | 04249000       | 242  |
| Lakes and reservoirs in streams tributary to Lake Ontario (e) ..... |                |      |

\*       \*       \*       \*       \*       \*       \*       \*

**CREST-STAGE PARTIAL RECORD STATIONS, IN DOWNSTREAM ORDER,  
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME**

|   | Station<br>number | Page |
|---|-------------------|------|
| NORTH ATLANTIC SLOPE BASINS                     |                   |      |
| SUSQUEHANNA RIVER BASIN                         |                   |      |
| Susquehanna River:                              |                   |      |
| Little Elk Creek at Westford .....              | 01497805          | 242  |
| Susquehanna River at Unadilla .....             | 01500500          | 242  |
| Susquehanna River at Bainbridge .....           | 01502632          | 242  |
| Susquehanna River at Windsor .....              | 01502731          | 242  |
| Chenango River at Eaton .....                   | 01503980          | 243  |
| Chenango River at Sherburne .....               | 01505000          | 243  |
| Chenango River at Greene .....                  | 01507000          | 243  |
| Tioughnioga River at Lisle .....                | 01509520          | 243  |
| Otseic River:                                   |                   |      |
| Merrill Creek Tributary near Texas Valley ..... | 01510610          | 243  |
| Tioughnioga River at Itaska .....               | 01511500          | 243  |
| Susquehanna River at Vestal .....               | 01513500          | 244  |
| Susquehanna River at Owego .....                | 01513831          | 244  |
| Owego Creek near Owego .....                    | 01514000          | 244  |
| Catatonk Creek near Owego .....                 | 01514801          | 244  |
| Chemung River:                                  |                   |      |
| Tioga River at Lindley .....                    | 01520500          | 244  |
| Canisteo River:                                 |                   |      |
| Big Creek near Howard .....                     | 01521596          | 245  |
| Canadadea Creek at Alfred .....                 | 01522075          | 245  |
| Canisteo River at West Cameron .....            | 01525500          | 245  |
| Cohocton River at Bath .....                    | 01528320          | 245  |
| Cuthrie Run near Big Flats .....                | 01530301          | 245  |
| Chemung River at Elmira .....                   | 01530332          | 246  |

\*       \*       \*       \*       \*       \*       \*       \*

**OHIO RIVER BASIN**

**ALLEGHENY RIVER BASIN**

Allegheny River (head of Ohio River):

Olean Creek:

    Ischua Creek:

        Ischua Creek tributary near Machias .....

03010734

246

Cassadaga Creek:

    Ball Creek at Stow .....

03013800

246

\*       \*       \*       \*       \*       \*       \*       \*

**SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE  
PUBLISHED IN THIS VOLUME--Continued**

|  | Station number | Page |
|--|----------------|------|
| <b>CREST-STAGE PARTIAL RECORD STATIONS, IN DOWNSTREAM ORDER,<br/>FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--Continued</b> |                |      |
| <b>ST. LAWRENCE RIVER BASIN</b>  |                |      |
| Lake Erie:   |                |      |
| STREAMS TRIBUTARY TO LAKE ERIE   |                |      |
| Canadaway Creek at Fredonia.....   | 04213376       | 246  |
| STREAMS TRIBUTARY TO NIAGARA RIVER   |                |      |
| Niagara River:   |                |      |
| Tonawanda Creek:   |                |      |
| Little Tonawanda Creek at Linden.....  | 04216500       | 246  |
| <b>ST. LAWRENCE RIVER MAIN STEM</b>  |                |      |
| Lake Ontario:  |                |      |
| STREAMS TRIBUTARY TO LAKE ONTARIO  |                |      |
| Johnson Creek near Lyndonville .....   | 04219900       | 247  |
| Genesee River:   |                |      |
| Canaseraga Creek:  |                |      |
| Stony Brook tributary at South Dansville .....   | 04224807       | 247  |
| Bear Creek at Ontario .....  | 042320578      | 247  |
| Seneca River (head of Oswego River):   |                |      |
| Catharine Creek at Montour Falls.....  | 04232200       | 247  |
| Seneca Lake:   |                |      |
| Kendig Creek near MacDougall.....  | 04232630       | 247  |
| Cayuga Lake:   |                |      |
| Cayuga Inlet at Ithaca.....  | 04233255       | 248  |
| Coy Glen Creek at Ithaca.....  | 04233258       | 248  |
| Trumansburg Creek near Trumansburg .....   | 0423403092     | 248  |
| Clyde River:   |                |      |
| Mud Creek:   |                |      |
| Schaeffer Creek near Canandaigua .....   | 04234138       | 248  |
| Mud Creek at East Victor .....   | 04234200       | 248  |
| Canandaigua Outlet:  |                |      |
| Canandaigua Outlet tributary near Alloway .....  | 04235255       | 249  |
| Oneida River (Oneida Lake):  |                |      |
| Oneida Creek .....   |                |      |
| Chittenango Creek:   |                |      |
| Limestone Creek:   |                |      |
| Butternut Creek near Jamesville.....   | 04245200       | 249  |
| Scriba Creek near Constantia.....  | 04245840       | 249  |
| Catfish Creek at New Haven .....   | 04249050       | 249  |
| *       *  | *              | *    |
| Discharge at partial-record stations and miscellaneous sites.....  |                | 242  |
| Miscellaneous sites .....  |                | 250  |
| Analyses of samples collected at water-quality miscellaneous sites .....   |                | 251  |
| Statewide pesticide monitoring project- Public water-supply intake sites in western New York                                   |                | 265  |
| *       *  | *              | *    |

GROUND-WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE  
PUBLISHED IN THIS VOLUME

xii

|  | Station number        | Page |
|--|-----------------------|------|
| Allegany County 277  |                       |      |
| Local well number Ag 261 .....   | 421512077472801 ..... | 277  |
| Local well number Ag 262 .....   | 421544078021301 ..... | 279  |
| Broome County 281  |                       |      |
| Local well number Bm 128 .....   | 421138075511301 ..... | 281  |
| Local well number Bm 129 .....   | 421157075535401 ..... | 283  |
| Cattaraugus County 285   |                       |      |
| Local well number Ct 121 .....   | 420530078445201 ..... | 285  |
| Chautauqua County 287  |                       |      |
| Local well number Cu 10 .....  | 420815079121401 ..... | 287  |
| Chemung County 289   |                       |      |
| Local well number Cm 622 .....   | 420828076484601 ..... | 289  |
| Chenango County 291  |                       |      |
| Local well number Cn 12 .....  | 421556075281602 ..... | 291  |
| Cortland County 293  |                       |      |
| Local well number C 998 .....  | 424452076081902 ..... | 293  |
| Genesee County   |                       |      |
| Local well number Gs 5014 .....  | 425913078085501 ..... | 295  |
| Madison County 297   |                       |      |
| Local well number M 178 .....  | 430056075354102 ..... | 297  |
| Monroe County 299  |                       |      |
| Local well number Mo 2 .....   | 430855077304202 ..... | 299  |
| Local well number Mo 3 .....   | 430854077304601 ..... | 300  |
| Local well number Mo 659 .....   | 430932077311501 ..... | 301  |
| Local well number Mo 663 .....   | 430912077313301 ..... | 302  |
| Local well number Mo 664 .....   | 430912077313302 ..... | 303  |
| Local well number Mo 665 .....   | 430928077313802 ..... | 304  |
| Local well number Mo 666 .....   | 430928077313803 ..... | 305  |
| Local well number Mo 667 .....   | 430928077314001 ..... | 306  |
| Local well number Mo 668 .....   | 430928077314002 ..... | 307  |
| Ontario County 308   |                       |      |
| Local well number Ot 900 .....   | 425840077133901 ..... | 308  |
| Local well number Ot 1133 .....  | 425803077151201 ..... | 309  |
| Oswego County  |                       |      |
| Local well number Ow 5013 .....  | 432148076225101 ..... | 311  |
| Local well number Ow 5014 .....  | 432148076225102 ..... | 313  |
| Otsego County 315  |                       |      |
| Local well number Og 23 .....  | 424136075025101 ..... | 315  |
| Steuben County 317   |                       |      |
| Local well number Sb 472 .....   | 422445077203301 ..... | 317  |
| Wyoming County 319   |                       |      |
| Local well number Wo4 .....  | 423743078070802 ..... | 319  |
| *                  *                  *                  *                  *                  *                  *                  * |                       |      |
| Statewide pesticide monitoring project- Community water-supply wells.....  |                       | 318  |
| Quality of ground water in aquifers within the Chemung River basin.....  |                       | 323  |
| Quality of ground water at miscellaneous sites.....  |                       | 341  |
| Quantity of precipitation at miscellaneous sites.....  |                       | 344  |
| Quality of precipitation at miscellaneous sites .....  |                       | 345  |
| *                  *                  *                  *                  *                  *                  *                    |                       |      |