

Appendix B

GAMMA RADIATION IN AND AROUND NAGASAKI AND HIROSHIMA, JAPAN

20 September to 1 October 1945

**GAMMA RADIATION AT HIROSHIMA**  
3 to 7 October, 1945

| <u>GRID</u><br><u>COORDINATES*</u> | <u>LOCATION</u>   | <u>READING MILLI-ROENTGENS</u><br><u>PER HOUR</u> |
|------------------------------------|---|---|
| 5.0-5.2                            | Starting at road intersection<br>going south at 150 yd. intervals<br>to intersection. (6.5-5.4) | .1  |
|                                    |   | .1  |
|                                    |   | .03   |
|                                    |   | .02   |
|                                    |   | .02   |
|                                    |   | .02   |
|                                    |   | .01   |
|                                    |   | .02   |
|                                    |   | .02   |
|                                    |   | .02   |
| 5.0-5.3                            | Starting at road intersection<br>going south at 150 yd. intervals<br>to intersection. (6.5-5.7) | .09   |
|                                    |   | .09   |
|                                    |   | .05   |
|                                    |   | .05   |
|                                    |   | .03   |
|                                    |   | .02   |
|                                    |   | .02   |
|                                    |   | .02   |
|                                    |   | .02   |
|                                    |   | .02   |
| 4.9-5.9                            | Starting at road intersection<br>going south at 150 yds. intervals                              | .014  |
|                                    |   | .01   |
|                                    |   | .013  |
|                                    |   | .015  |
|                                    |   | .013  |
|                                    |   | .016  |
|                                    |   | .013  |
|                                    |   | .019  |
|                                    |   | .017  |
|                                    |   | .018  |
| 4.7-5.3                            | Monument  | 0.2   |
| 4.9-5.1                            | Pump  | 0.13  |
| 5.2-5.3                            | Coil  | 0.4   |
| 5.0-5.3                            | Lamp Post   | 0.2   |
| 3.5-7.7                            | By Railroad Station   | .006  |
| 3.9-7.3                            | At Bridge   | .006  |
| 4.4-6.5                            | At Bridge   | .006  |
| 3.4-3.5                            | Intersection  | .006  |
| 2.6-3.4                            | Intersection  | .006  |
| 7.0-1.5                            | Near Railroad   | .03   |
| 2.8-10.5                           | Intersection  | .006  |
| 3.6-11.2                           | Near Railroad   | .006  |
| 1.5-8.3                            | Along Road  | .006  |
| 0.8-8.8                            | Intersection  | .006  |
| 2.9-9.2                            | Intersection  | .006  |
| 0.5-4.3                            | Above Reservoir   | .006  |
| 6.5-0.9                            | In Hills  | .01   |
| 7.5-0.7                            | In Hills  | .01   |
| 2.2-4.9                            | In Streets  | .045  |
| 2.2-4.9                            | Along Road  | .025  |

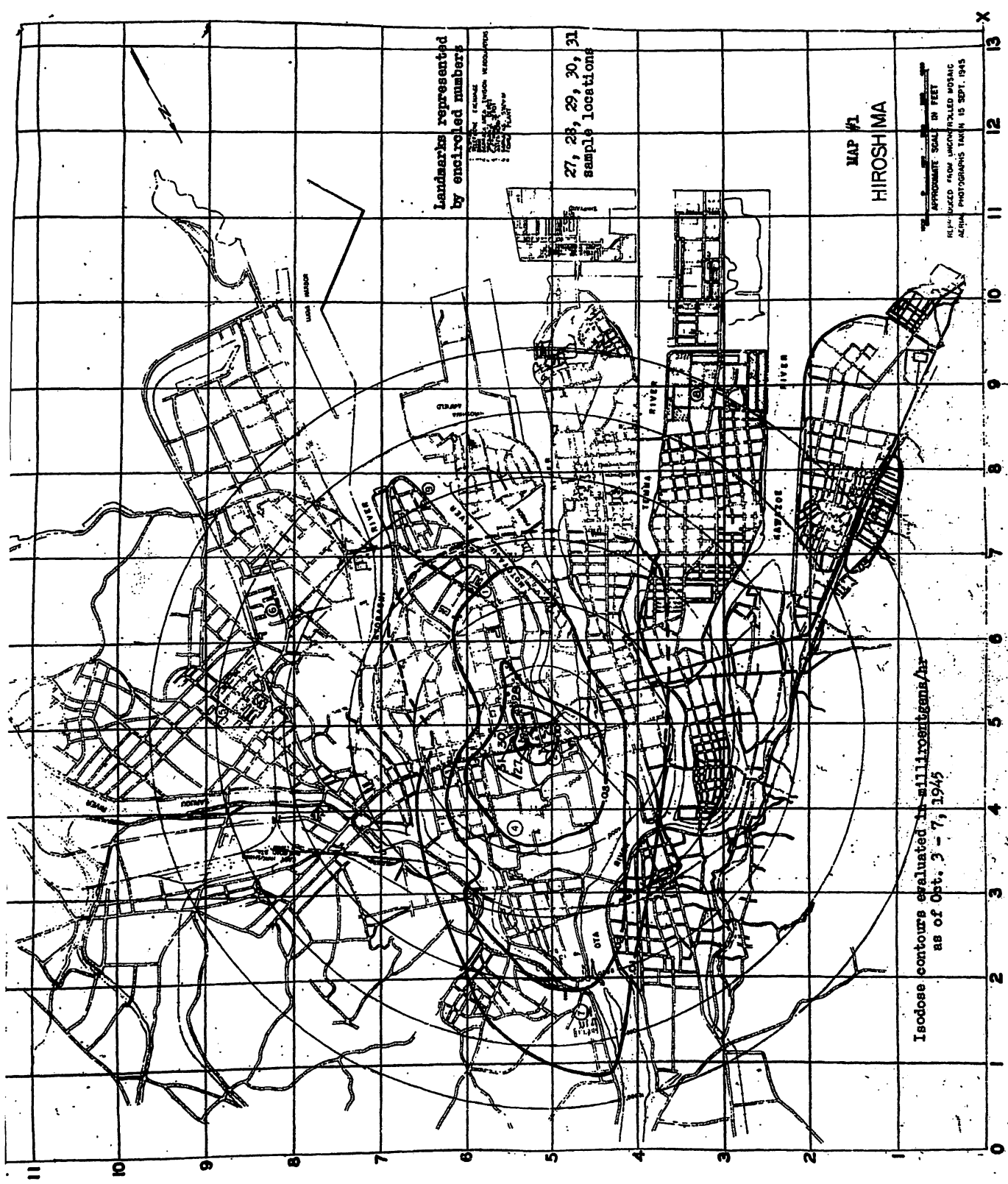
\* Numbers indicate X and Y coordinates on Reference Map.

GRID  
COORDINATES

LOCATION

READING HILLS-ROBERTSON'S  
PER HOUR SA

|         |              |      |
|---------|--------------|------|
| 4.9-4.5 | At Bridge    | .635 |
| 4.9-4.7 | At Bridge    | .07  |
| 4.5-4.3 | Along Road   | .02  |
| 2.9-4.7 | At Bridge    | .025 |
| 4.0-4.2 | Near River   | .02  |
| 4.2-4.3 | Near River   | .03  |
| 2.8-5.7 | Near River   | .025 |
| 3.3-5.7 | Near River   | .02  |
| 3.8-5.5 | Near Castle  | .01  |
| 4.2-5.7 | Intersection | .03  |
| 4.6-5.8 | Intersection | .035 |
| 4.7-5.5 | Intersection | .06  |
| 4.8-4.9 | Intersection | .09  |
| 4.5-4.7 | Near Shrine  | .04  |
| 4.2-5.4 | Near Castle  | .01  |



Isodose contours evaluated in milliroentgens/hr as of Oct. 3 - 7, 1945

INVESTIGATORS: Capt. Barnett & Pvt. Humphreys  
AREA: Road 9  
DATE: 21 September 1945  
INSTRUMENT: Victoreen (Model # not specified)  
MAP: Nagasaki Prefecture

No written data are available. In a verbal communication, Capt. Barnett indicated that the radioactive intensity dropped in a direct proportion with the distance travelled from 40 counts/minute, at the Torpedo Works, to 25 counts/minute (background count) at the northern most point where the road reached the sea.

**INVESTIGATORS:** Col. Warren & Capt. Youngs  
**AREA:** East Side Urakami-Gawa, Main North-South Road from Nagasaki Station to Mitsubishi Torpedo Works  
**DATE:** 22 September 1945  
**INSTRUMENT:** Victoreen (263-10)  
**MAP:** Nagasaki City

| <u>SITE</u><br><u>COORDINATES</u> | <u>DESCRIPTION</u>             | <u>GAMMA RAY</u><br><u>INTENSITY</u> |              |
|-----------------------------------|--------------------------------|--------------------------------------|--------------|
|                                   |                                | <u>COUNTS/MIN</u>                    | <u>MR/HR</u> |
| E-80, 3.85                        | Railroad Station               | 30                                   | .002         |
| E-55, 4.35                        | Kyushu Gas Co.                 | 48                                   | .01          |
| E-05, 4.30                        | Mitsubishi Steel Works         | 72                                   | .018         |
| D-92, 6.16                        | Near Baseball Field            | 240***                               | >0.07        |
| D-85, 6.50                        | Steps to Prison *              | 240***                               | >0.07        |
| D-97, 6.75                        | Top of Prison Hill **          | 600***                               | >0.07        |
| D-80, 6.90                        | Freight Yards                  | 30                                   | .002         |
| D-82, 7.12                        | 0.1 mi. North of Freight Yards | 50                                   | .009         |
| D-90, 7.78                        | Torpedo Works                  | 30                                   | .002         |
| D-65, 8.50                        | Northwest of Torpedo Works     | 30                                   | .002         |
| E-05, 7.73                        | Torpedo Works                  | 30                                   | .002         |
| E-20, 8.17                        | Torpedo Works                  | 30                                   | .002         |
| F-15, 3.73                        | Near City Hall                 | 30                                   | .002         |

- \* Obtained Human and Horse Bones
- \*\* Obtained Human Skull
- \*\*\* Estimated from the pitch of ear phones

**INVESTIGATORS:** Lt. Collins & Capt. Youngs  
**AREA:** Around Prison Hill  
**DATE:** 23 September 1945  
**INSTRUMENT:** Victoreen (263-10)  
**MAP:** Nagasaki City

| <u>SITE<br/>COORDINATES</u> | <u>DESCRIPTION</u> | <u>GAMMA RAY<br/>INTENSITY</u> |              |
|-----------------------------|--------------------|--------------------------------|--------------|
|                             |                    | <u>COUNTS/MIN</u>              | <u>MR/HR</u> |
| D-80, 6.72                  | On Road            | 200+                           |              |
| D-80, 6.83                  | On Road            | 83                             | .021         |
| D-73, 6.83                  | On Railroad        | 78                             | .02          |
| D-72, 6.95                  | Railroad Bridge    | 60                             | .013         |
| D-55, 6.85                  | On Bridge          | 47                             | .008         |
| D-46, 6.90                  | On Bridge          | 54                             | .011         |
| D-61, 6.51                  | River Bank         | 96                             | .027         |
| D-55, 6.57                  | River Bank         | 83                             | .022         |
| D-54, 6.70                  | River Bank         | 73                             | .018         |
| D-68, 6.58                  | Road Intersection  | 200+                           | >0.07        |
| D-75, 6.70                  | On Railroad        | 150+                           | >0.05        |

**INVESTIGATORS:** Capt. Youngs, Lt. Collins, Lt. Tybout  
**AREA:** Around Prison Hill  
**DATE:** 23 September 1945  
**INSTRUMENT:** Victoreen (263-10)  
**MAP:** Nagasaki City

| <u>SITE</u><br><u>COORDINATES</u> | <u>DESCRIPTION</u>          | <u>GAMMA RAY</u><br><u>INTENSITY</u> |              |                         |
|-----------------------------------|-----------------------------|--------------------------------------|--------------|-------------------------|
|                                   |                             | <u>SCALE</u>                         | <u>DEFL.</u> | <u>COUNTS/MIN MR/HR</u> |
| D-9, 6.7                          | Prison                      | 3                                    | 7            | 0.17                    |
| E-35, 6.83                        | School Building             |                                      |              | 50 .009                 |
| E-27, 6.81                        | Open Terrain                |                                      |              | 52 .01                  |
| E-18, 6.80                        | Open Terrain                |                                      |              | 55 .012                 |
| E-37, 6.75                        | Creek Bank                  |                                      |              | 75 .018                 |
| E-15, 6.74                        | Creek Bank                  |                                      |              | 85 .022                 |
| E-06, 6.62                        | Creek Bank & Prison Wall    |                                      |              | 140 .04                 |
| D-93, 6.55                        | Creek Bank & Prison Wall    |                                      |              | 170 .055                |
| D-91, 6.49                        | Bridge                      |                                      |              | 150 .047                |
| D-78, 6.42                        | Railroad Crossing           |                                      |              | 200+ .07                |
| D-80, 6.45                        | Bottom of Prison Steps      |                                      |              | 140 .04                 |
| E-13, 6.55                        | Road Intersection to Church |                                      |              | 105 .03                 |
| E-29, 6.62                        | Bridge Near Church          |                                      |              | 59 .013                 |
| E-35, 6.68                        | Catholic Church             |                                      |              | 42 .007                 |
| E-18, 6.47                        | Road Intersection           |                                      |              | 40 .006                 |



**INVESTIGATORS:** Lt. Collins & Lt. Tybout  
**AREA:** Road 11  
**DATE:** 24 September 1945  
**INSTRUMENT:** Victoreen (263-10)  
**MAP:** Nagasaki Prefecture

| <u>SITE,</u><br><u>SPEEDOMETER RDG.</u> | <u>DESCRIPTION</u>  | <u>GAMMA RAY</u><br><u>INTENSITY</u> |              |
|---|---|--------------------------------------|--------------|
|   |   | <u>COUNTS/MIN</u>                    | <u>MR/HR</u> |
| 561.8                                   | Intersection of N-S Highway with<br>Urakami-Gawa River and Street<br>Railway. | 30                                   | .002         |
| 562.0                                   | Road to Beach Hotel   | 45                                   | .008         |
| 563.1                                   | Road to Beach Hotel   | 41                                   | .006         |
| 564.1                                   | Road to Beach Hotel   | 46                                   | .008         |
| 565.0                                   | Road to Beach Hotel   | 30                                   | .002         |
| 566.1                                   | Road to Beach Hotel   | 25                                   | .000         |
| 566.8                                   | At Hotel  | 25                                   | .000         |

**INVESTIGATORS:** Lt. Tybout & T/4 Hornberger  
**AREA:** West of Urakami-Gawa, Opposite Stadium  
**DATE:** 24 September 1945  
**INSTRUMENT:** Victoreen (263-0)  
**MAP:** Nagasaki City

| <u>SITE<br/>COORDINATES</u> | <u>DESCRIPTION</u>  | <u>GAMMA RAY<br/>INTENSITY</u> |              |
|-----------------------------|---|--------------------------------|--------------|
|                             |   | <u>COUNTS/MIN</u>              | <u>MR/HR</u> |
| D-48, 6.52                  | Bridge along Road to East of Urakami-Gawa.                    | 67                             | .016         |
| D-40, 6.50                  | Base of Road leading to School Building                       | 61                             | .014         |
| D-40, 6.42                  | Top of Drive to School Building                               | 57                             | .012         |
| D-39, 6.51                  | Top of Ridge beside School                                    | 60                             | .012         |
| D-33, 6.40                  | 100 yds. to rear and south of School                          | 43                             | .007         |
| D-20, 6.62                  | Center of Municipal Tenement District                         | 38                             | .003         |
| D-20, 6.72                  | North side of Municipal Tenement District                     | 45                             | .008         |
| D-20, 6.75                  | 3/4 way up Hill, opposite-North side of Tenement District.    | 46                             | .008         |
| D-28, 6.73                  | Nose of Ridge on North side of Municipal Tenement District. * | 35                             | .004         |
| D-44, 6.70                  | Bridge on Road on West Side of River                          | 57                             | .012         |
| D-50, 6.50                  | Road on West side of Urakami-Gawa River                       | 97                             | .027         |
| D-52, 6.12                  | In shadow of face of Quarzy Cliff                             | 70                             | .017         |
| D-44, 6.22                  | Middle of Valley  | 52                             | .01          |

\* At this point, scrubby trees were standing, leaves and twigs all off, brown and brittle, no burns. Timber all dead and brittle whether standing or down.

**INVESTIGATORS:** Lt. Tybont & T/4 Hornberger  
**AREA:** West of Urakami-Gawa, Opposite Stadium  
**DATE:** 24 September 1945  
**INSTRUMENT:** Victoreen (263-0)  
**MAP:** Nagasaki City

| <u>SITE<br/>COORDINATES</u> | <u>DESCRIPTION</u>   | <u>GAMMA RAY<br/>INTENSITY</u> |              |
|-----------------------------|--|--------------------------------|--------------|
|                             |  | <u>COUNTS/MIN</u>              | <u>MR/HR</u> |
| D-38, 6.21                  | Middle of Valley   | 43                             | .007         |
| D-46, 6.39                  | Intersection of entrance of Valley                                       | 63                             | .015         |
| D-40, 6.33                  | Halfway up narrow Valley   | 49                             | .01          |
| D-48, 6.43                  | Center of flat area between School,<br>River and Quarry                  | 60                             | .013         |
| D-70, 5.90                  | Roadway along Urakami-Gawa opposite<br>upper end of Steel Plant          | 49                             | .01          |
| D-60, 5.94                  | Base of Hill below School  | 52                             | .01          |
| D-57, 6.20                  | West of Urakami-Gawa and along Road<br>by Cliff                          | 71                             | .018         |
| D-59, 6.03                  | Corner of School toward Stadium  | 80                             | .023         |
| D-57, 6.08                  | Northwest corner of School in center<br>of Pocket 50' Diameter, 20' deep | 87                             | .023         |
| D-60, 5.98                  | South end of Field beside School   | 54                             | .011         |
| D-53, 5.89                  | End of lane from School  | 35                             | .004         |
| D-50, 6.02                  | Road behind School, 30 ft. lower<br>than School                          | 45                             | .0075        |
| D-75, 5.90                  | Road Intersection (not shown on Map)                                     | 43                             | .007         |

INVESTIGATORS: Lt. Tybout & T/4 Hornberger  
 AREA: Stadium and North Mitsubishi Steel Plant  
 DATE: 24 September 1945  
 INSTRUMENT: Victoreen (263-0)  
 MAP: Nagasaki City

| <u>SITE</u><br><u>COORDINATES</u> | <u>DESCRIPTION</u>                  | <u>GAMMA RAY</u><br><u>INTENSITY</u> |              |
|-----------------------------------|-------------------------------------|--------------------------------------|--------------|
|                                   |                                     | <u>COUNTS/MIN</u>                    | <u>MR/HR</u> |
| D-79, 6.52                        | Main Road                           | 130                                  | .040         |
| D-82, 6.18                        | Railroad Bridge over Stream         | 120                                  | .035         |
| D-70, 6.32                        | On North of Track at Stadium        | 150                                  | .047         |
| D-70, 6.16                        | On South of Track at Stadium        | 108                                  | .032         |
| D-80, 6.00                        | North end Steel Mills on Open Drive | 62                                   | .014         |
| D-82, 5.90                        | Inside Steel Mill at North end      | 64                                   | .015         |

**INVESTIGATORS:** Capt. Youngs & S/Sgt. Leonard  
**AREA:** West of Zero Point  
**DATE:** 24 September 1945  
**INSTRUMENT:** Victoreen (263-10)  
**MAP:** Nagasaki City

| <u>SITE<br/>COORDINATES</u> | <u>DESCRIPTION</u>           | <u>GAMMA RAY<br/>INTENSITY</u> |              |
|-----------------------------|------------------------------|--------------------------------|--------------|
|                             |                              | <u>COUNTS/MIN</u>              | <u>MR/HR</u> |
| E-22, 6.55                  | Road to Church               | 48                             | .008         |
| E-08, 6.48                  | Hill southeast of Prison     | 90                             | .025         |
| E-12, 6.22                  | Road Intersection            | 85                             | .023         |
| E-18, 6.13                  | Road Intersection            | 65                             | .015         |
| E-23, 6.06                  | Road                         | 43                             | .007         |
| E-28, 6.20                  | Near School                  | 46                             | .008         |
| D-89, 6.13                  | Main North-South Road        | 91                             | .025         |
| E-38, 5.81                  | Medical School               | 39                             | .005         |
| E-45, 6.11                  | Road North of Medical School | 45                             | .0075        |

**INVESTIGATORS:** Lt. Collins & Cpl. Greenwood  
**AREA:** North and Northwest of Prison  
**DATE:** 24 September 1945  
**INSTRUMENT:** Victoreen (263-10)  
**MAP:** Nagasaki City

| <u>SPEEDO. RDG.</u> | <u>DESCRIPTION</u>                                  | <u>GAMMA RAY</u>  |              |
|---------------------|---|-------------------|--------------|
|                     |   | <u>COUNTS/MIN</u> | <u>MR/HR</u> |
| 87.70               | 1st Bridge north of Prison                          | 60                | .0130        |
| 87.88               | 2nd Bridge north of Prison                          | 45                | .0075        |
| 88.20               | On highway-near Bridge southeast of Point #2        | 33                | .0030        |
| 88.37               | Halfway between points 2 & 3                        | 36                | .0040        |
| 88.55               | 2nd Bridge north of Prison                          | 40                | .0055        |
| 88.88               | Highway north of Point 5. Entrance to Torpedo Works | 32                | .0025        |
| 89.20               | Railroad crossing west of Torpedo Works             | 37                | .0045        |
|                     | 200 ft. west of Railroad west of Point 6.           | 27                | .0010        |

INVESTIGATORS: Lt. Tybout & T/5 Hill  
AREA: Stadium and North Mitsubishi Steel Plant  
DATE: 25 September 1945  
INSTRUMENT: Victoreon (263-10)  
MAP: Nagasaki City

| <u>SITE</u><br><u>COORDINATES</u> | <u>DESCRIPTION</u>               | <u>GAMMA RAY</u><br><u>INTENSITY</u> |              |
|-----------------------------------|----------------------------------|--------------------------------------|--------------|
|                                   |                                  | <u>COUNTS/MIN</u>                    | <u>MR/HR</u> |
| D-98, 6.00                        | Along Road                       | 80                                   | .02          |
| E-00, 5.72                        | Along Road                       | 35                                   | .004         |
| E-00, 5.82                        | Road Intersection                | 50                                   | .01          |
| D-82, 5.83                        | Amid Masonery at end of Building | 45                                   | .008         |

**INVESTIGATORS:** Lt. Tybout & Sgt. Hornberger  
**AREA:** Stadium and North Mitsubishi Steel Plant  
**DATE:** 25 September 1945  
**INSTRUMENT:** Victoreen (263-0)  
**MAP:** Nagasaki City

| <u>SITE<br/>COORDINATES</u> | <u>DESCRIPTION</u>   | <u>GAMMA RAY<br/>INTENSITY</u> |              |
|-----------------------------|--|--------------------------------|--------------|
|                             |  | <u>COUNTS/MIN</u>              | <u>MR/HR</u> |
| D-77, 6.53                  | Along Road   | 127                            | .04          |
| B-56, 6.54                  | East Side of Bridge (Bridge not on map)  | 99                             | .03          |
| B-63, 6.21                  | On remains of Building on west side of track. (Stream shown on map between preceding and this reading is not there.) | 79                             | .02          |



**INVESTIGATORS:** Lt. Tybout & Sgt. Herzberger  
**AREA:** Road 1  
**DATE:** 26 September 1945  
**INSTRUMENT:** Victoreca (263-0)  
**MAP:** Nagasaki Prefecture

| MILES<br>OUT | DESCRIPTION   | GAMMA RAY<br>INTENSITY |       |            |       |
|--------------|---|------------------------|-------|------------|-------|
|              |   | SCALE                  | DEPL. | COUNTS/MIN | MR/HR |
| 6.5          | Next to 1st Reservoir on Omura Rd. Distance measured on car meter from Prefectural Bldg. Meter reset to zero. |                        |       |            |       |
| 0.0          | Ground next to Reservoir  |                        |       | 38         | .005  |
| 1.0          | Ground next to Road   |                        |       | 33         | .003  |
| 2.0          | Ground next to Road   |                        |       | 38         | .005  |
| 3.0          | Ground next to Road   | 3                      | 13    | 200+       | .07   |
| 2.7          | Ground next to Road   | 3                      | 5.5   | 130        | .04   |
| 2.5          | Ground next to Road   |                        |       | 120        | .03   |
| 2.3          | Ground next to Road   |                        |       | 65         | .015  |
| 3.7          | Ground next to Road. Between these consistant drops. Pointing East  |                        |       | 54         | .012  |
| 4.1          | Ground next to Road. Consistant increase  | 3                      | 5     |            | .030  |
| 5.0          | In small Village  |                        |       | 140        | .044  |
| 6.0          | Ground by Road. Road pointing N.E.  | 3                      | 4.5   |            | .025  |
| 7.1          | Ground by Road, through Village   |                        |       | 65         | .015  |
| 8.0          | Ground by Road in cut 25' deep  |                        |       | 68         | .016  |
| 9.0          | Ground by Road. Rice Paddies on both sides  |                        |       | 38         | .005  |

**INVESTIGATORS:** Lt. Tybout & Sgt. Hornberger  
**AREA:** Road 1  
**DATE:** 26 September 1945  
**INSTRUMENT:** Victoreen (263-0)  
**MAP:** Nagasaki Prefecture

| <u>MILES</u><br><u>OFF</u> | <u>DESCRIPTION</u>   | <u>GAMMA RAY</u><br><u>INTENSITY</u> |                                |
|----------------------------|--|--------------------------------------|--------------------------------|
|                            |  | <u>SCALE</u> <u>DEFL.</u>            | <u>COUNTS/MIN</u> <u>MR/HR</u> |
| 10.0                       | Ground by Road. Rice Paddies on both sides, outskirts of Village | 50                                   | .010                           |
| 11.0                       | Ground by Road. Rice Paddies on both sides, outskirts of Village | 42                                   | .006                           |
| 13.2                       | Ground by Road. Rural  | 40                                   | .005                           |
| 15.0                       | Ground by Road. Rural  | 37                                   | .0045                          |
| 17.0                       | Dirt Road by Rice Paddies  | 34                                   | .004                           |
| 19.0                       | Dirt Road by Rice Paddy  | 36                                   | .004                           |
| 21.0                       | Ground by Road in Village  | 32                                   | .0025                          |
| 23.0                       | In Omura on dirt road  | 32                                   | .0025                          |

**INVESTIGATORS:** Lt. Tybout & Sgt. Hornberger  
**AREA:** Road 2  
**DATE:** 26 September 1945  
**INSTRUMENT:** Victoreen (263-C)  
**MAP:** Nagasaki Prefecture

| <u>MILES OUT</u> | <u>DESCRIPTION</u>  | <u>GAMMA RAY</u>  |              |
|------------------|---|-------------------|--------------|
|                  |   | <u>COUNTS/MIN</u> | <u>MR/HR</u> |
|                  | Mileage meter was reset to 0.00<br>in village of Ishahaya       |                   |              |
| 1.0              | In middle of Road in town                                       | 32                | .0025        |
| 3.0              | On Road outside town. Paddy on<br>one side                      | 36                | .004         |
| 3.0              | On Road outside town, but at edge<br>of the rice paddy          | 36                | .004         |
| 5.4              | Along side road between paddies                                 | 40                | .0055        |
| 7.0              | Side of road between rice paddies                               | 39                | .005         |
| 8.0              | Side of road between rice paddies,<br>cutting across peninsula. | 37                | .0045        |

**INVESTIGATORS:** Lt. Tybout & Sgt. Hornberger  
**AREA:** Road 3  
**DATE:** 26 September 1945  
**INSTRUMENT:** Victoreen (263-0)  
**MAP:** Nagasaki Prefecture

| <u>MILES OUT</u> | <u>DESCRIPTION</u>   | <u>GAMMA RAY</u>  |              |
|------------------|--|-------------------|--------------|
|                  |  | <u>COUNTS/MIN</u> | <u>MR/HR</u> |
| 9.0              | Side of Road in woods  | 55                | .011         |
| 10.0             | A vista point along cobblestone road. Transmitter station (50KW?) nearby | 63                | .015         |
| 11.0             | Along Dirt Road  | 46                | .008         |
| 12.              | On road in center of village   | 50                | .01          |
| 14.0             | Dirt road behind mountain, steep bank to right                           | 40                | .0055        |
| 16.0             | Gravel Road along hillside   | 37                | .0045        |
| 18.6             | Dirt Road open to Sea halfway up mountain                                | 38                | .005         |
| 20.0             | Along Road open to Sea, Summit of Hill.                                  | 42                | .0065        |
| 4.7              | Road at end of Peninsula open to Sea                                     | 31                | .002         |

INVESTIGATORS: Lt. Tybout & Sgt. Hornberger  
 AREA: Road 4  
 DATE: 26 September 1945  
 INSTRUMENT: Victoreen (263-C)  
 MAP: Nagasaki Prefecture

| <u>MILES OUT</u> | <u>DESCRIPTION</u>                                  | <u>GAMMA RAY</u>  |              |
|------------------|---|-------------------|--------------|
|                  |   | <u>COUNTS/MIN</u> | <u>MR/HR</u> |
| 22.0             | Along gravel road, top of Hill, woods on both sides | 36                | .004         |
| 24.6             | Road in saddle at top of mountain                   | 32                | .0025        |

The section of road between the 20 mi. and 24.6 mi. branched inland and went up a mountain. After 24.6 mi., the road was backtracked to the intersection at the 20 mi. reading and the Seacoast road was taken. The speedometer was reset to 0 at this point.

INVESTIGATORS: Lt. Collins & Cpl. Greenwood  
 AREA: North and Northwest side of Hill leading up to Takano Peak  
 DATE: 26 September 1945  
 INSTRUMENT: Victoreen (263-C)

| <u>SITE<br/>COORDINATES</u> | <u>DESCRIPTION</u>  | <u>GAMMA RAY<br/>INTENSITY</u> |             |              |
|-----------------------------|---|--------------------------------|-------------|--------------|
|                             |   | <u>SCALE</u>                   | <u>DEFL</u> | <u>MR/HR</u> |
| F-25, 7.71                  | On Road   | 3                              | 12          | 0.07         |
| F-1, 7.5                    | Near Bridge on path *   | 3                              | 28          | 0.225        |
| F-1, 7.5                    | Near Bridge 3' from path  | 3                              | 45          | 0.5          |
| F-1, 7.5                    | Near Bridge 12' from path   | 3                              | 30          | 0.25         |
| F-1, 6.88                   | Plateau 2/3 way up hill   | 3                              | 22          | 0.155        |
| F-57, 6.6                   | On hillside near top approxi-<br>mately 80% of trees broken about<br>3 to 5 ft from base. Diameter<br>of fallen trees 4 to 8 in.,<br>height 15 to 25 ft. An occa-<br>sional tree tipped toward blast.**   |                                |             |              |
| F-67, 6.41                  | Top of peak Takano. Trees fallen<br>due East. 60% of trees down on<br>top of hill. About 20% of trees<br>down on East, West and South side<br>of hill. About 50 yds. north of<br>point at 50 ft. lower elevation<br>trees are down in random direc-<br>tions. | 2                              | 20          | 0.58         |
| G-55, 6.09                  | Bridge near Reservoir ***   | 2                              | 30          | 0.87         |
| G-59, 5.81                  | On road 100 yds from Dam from 45°<br>middle of Dam.   | 2                              | 37          | 1.08         |
| G-47, 5.42                  | At east entrance of Shrine  | 3                              | 20          | 0.135        |
| G-39, 5.24                  | Grass plot in town  | 3                              | 6           | 0.035        |

\* Soil Sample #1

\*\* Soil Sample #2

\*\*\* Soil Sample #3

INVESTIGATOR: Lt. Collins  
 AREA: Dam  
 DATE: 26 September 1945  
 INSTRUMENT: Victoreen (263-0)  
 MAP: Nagasaki City

| <u>POINT</u> | <u>DESCRIPTION</u>  | <u>GAMMA RAY INTENSITY</u> |              |              |             |
|--------------|---|----------------------------|--------------|--------------|-------------|
|              |   | <u>SCALE</u>               | <u>DEFL.</u> | <u>MR/HR</u> |             |
| 1            | 2 inc. over water which was 2 ft. deep. Reading taken 2 ft. from Dam      | 3                          | 15           | 0.09         | Shielded    |
|              |   | 3                          | 25           |              | Unshielded* |
| 2            | Over flat concrete Spillway slightly mossy on Spillway. 2" above concrete | 2                          | 22           | 0.60         | Shielded    |
|              |   | 1                          | 14-18        |              | Unshielded  |
| 3            | 2 in. from Spillway wall 7 ft. up   | 2                          | 10           | 0.28         | Shielded    |
|              |   | 2                          | 40           |              | Unshielded  |
| 4            | Center of Dam walk, 2 inc. above concrete. **                             | 1                          | 10           | 1.8          | Shielded    |
|              |   | 1                          | 50           |              | Unshielded  |
| 5            | End of pathway east of Dam, in Grass                                      | 1                          | 10           | 1.8          | Shielded    |
|              |   | 1                          | 15           |              | Unshielded  |

\* No calibration available for Beta radiation

\*\* Soil Sample taken

INVESTIGATORS: Lt. Tybout & Sgt. Hornberger  
 AREA: Road 8  
 DATE: 27 September 1945  
 INSTRUMENT: Victoreen (263-0)  
 MAP: Nagasaki Prefecture

GAMMA RAY  
 INTENSITY  
 COUNTS/MIN MR/HR

| <u>LOCATION</u> | <u>DESCRIPTION</u>   |    |       |
|-----------------|--|----|-------|
| D-80, 7.25      | Mileage set to zero at these coordinates on city map.        |    |       |
| <u>MILEAGE</u>  |  |    |       |
| 0.0             | Fork in concrete road just beyond small ridge                | 43 | .007  |
| 1.7             | On dirt road, near railroad. Pile of granite nearby          | 42 | .007  |
| 2.1             | Cobblestone road, between rice paddies outside of village    | 49 | .009  |
| 3.2             | Cobblestone road between rice paddies                        | 40 | .0055 |
| 4.0             | Dirt road in center of village                               | 48 | .0085 |
| 5.0             | Dirt road, rice paddies on one side, hill on other.          | 43 | .007  |
| 6.1             | Pebble road, rice paddies on one side and woods on the other | 40 | .0055 |
| 8.4             | Side of dirt road in front of House                          | 48 | .0085 |



INVESTIGATORS: S/Sgt. Leonard & Sgt. Hornberger  
 AREA: Tateyama-Cho  
 DATE: 27 September 1945  
 INSTRUMENT: Victoreen (263-0)  
 MAP: Nagasaki City

| SITE<br>COORDINATES | DESCRIPTION           | GAMMA RAY<br>INTENSITY |       |       |
|---------------------|-----------------------|------------------------|-------|-------|
|                     |                       | SCALE                  | DMFL. | MR/HR |
| G-56, 5.88          | Side of Road          | 2                      | 25    | 0.81  |
| G-20, 5.92          | Path through Paddies  | 2                      | 19    | 0.55  |
| G-10, 5.92          | Underbrush            | 2                      | 25    | 0.72  |
| G-03, 5.92          | Underbrush            | 2                      | 12    | 0.35  |
| F-92, 5.91          | Wooded Underbrush     | 2                      | 12    | 0.35  |
| F-80, 5.80          | Wooded Underbrush     | 2                      | 12    | 0.35  |
| F-60, 5.77          | Wooded Underbrush     | 2                      | 12    | 0.35  |
| F-62, 5.45          | Wooded Underbrush     | 2                      | 16    | 0.46  |
| F-25, 5.30          | Open area near Shrine | 2                      | 5     | 0.14  |
| F-18, 5.10          | Path in Rice Fields   | 2                      | 5     | 0.14  |
| F-42, 4.62          | Path in Rice Fields   | 3                      | 7     | 0.04  |

**INVESTIGATORS:** Lt. Tybout & Sgt. Hornberger  
**AREA:** Road 7  
**DATE:** 28 September 1945  
**INSTRUMENT:** Victoreen (363-10)  
**MAP:** Nagasaki Prefecture

| <u>MILEAGE</u> | <u>DESCRIPTION</u>   | <u>GAMMA RAY</u>  |              |
|----------------|--|-------------------|--------------|
|                |  | <u>COUNTS/MIN</u> | <u>MR/HR</u> |
|                | A left turn was made at the fork at the 2.2 mi. point on the road taken on the preceding day by the same monitoring group. |                   |              |
| 3.0            | Dirt road between rice paddies   | 48                | .0085        |
| 4.0            | Road partway up mountain next to gravel road in woods  | 42                | .0065        |
| 5.2            | 1/4 way down opposite side of mountain.  | 68                | .016         |
| 6.4            | 1/2 way down mountain, woods on one side, gravel bank on other   | 56                | .012         |
| 7.5            | At base of mountain along side of gravel road between rice paddies   | 40                | .0055        |
| 8.7            | Road in village  | 48                | .0085        |
| 10.2           | Dirt road between paddies  | 52                | .010         |
| 12.0           | In middle of village   | 62                | .014         |

**INVESTIGATORS:** Lt. Collins & T/5 Hill  
**AREA:** Road 6  
**DATE:** 28 September 1945  
**INSTRUMENT:** Victoreen (263-10)  
**MAP:** Nagasaki Prefecture

| <u>MILEAGE</u> | <u>DESCRIPTION</u>  | <u>GAMMA RAY INTENSITY</u> |              |                         |
|----------------|---|----------------------------|--------------|-------------------------|
|                |   | <u>SCALE</u>               | <u>DEFL.</u> | <u>COUNTS/MIN MR/HR</u> |
| 121.5          | Intersection of Omura & Shimabara Roads                       | 3                          | 7.5          | .19                     |
| 122.0          | Omura & Shimabara Roads                                       | 3                          | 5            | .12 Shielded            |
|                |   | 3                          | 6.5          | Unshielded              |
| 122.5          | Omura & Shimabara Roads                                       | 3                          | 5            | .12                     |
| 123.0          | On highway  | 3                          | 5            | .12                     |
| 123.5          | On highway  | 3                          | 4.5          | .1 Shielded             |
|                |   | 3                          | 5.5          | Unshielded              |
| 123.8          | At water's edge   | 3                          | 4.5          | .1                      |
| 124.5          | On Shore Road   |                            |              | 90 .025                 |
| 126.0          | On highway  | 3                          | 3            | .067 Shielded           |
|                |   | 3                          | 5.5          | Unshielded              |
| 126.5          | Near bridge north and east of 126.0 point                     | 3                          | 4            | .09                     |
| 127.8          |   | 3                          | 2            | .045                    |
| 127.6          | Northern point on highway                                     | 3                          | 1.75         | .04                     |
| 128.4          | East by southeast of 126.0 point                              | 3                          | 1.5          | .035                    |
| 129.0          | Southeast of 126.0 point                                      | 3                          | 2            | .045                    |
| 129.6          |   | 3                          | 1.5          | .035                    |
| 130.5          | Winding road, pine forest                                     | 3                          | 1.5          | .035                    |
| 131.0          | Straight level road (plateau) low rolling hill on either side |                            |              | 74 .019                 |

**INVESTIGATORS:** Lt. Collins & T/5 Hill  
**AREA:** Road 6  
**DATE:** 28 September 1945  
**INSTRUMENT:** Victoreen (263-10)  
**MAP:** Nagasaki Prefecture

| <u>MILEAGE</u> | <u>DESCRIPTION</u>   | <u>GAMMA RAY INTENSITY</u> |                         |            |
|----------------|--|----------------------------|-------------------------|------------|
|                |  | <u>SCALE</u>               | <u>DEFL. COUNTS/MIN</u> |            |
| 131.0          | Straight level road (plateau)<br>low rolling hill on either side | 68                         |                         | Shielded   |
|                |  | 78                         |                         | Unshielded |
| 134.8          |  | 50                         |                         | .009       |
| 135.5          |  | 38                         |                         | .005       |
| 136.1          | Gun position east of 135.5<br>point                              | 40                         |                         | .006       |
| 137.5          | Gun position east of 135.5<br>point                              | 35                         |                         | .002       |
| 138.6          | Gun position east of 135.5<br>point                              | 30                         |                         | .001       |
| 140.2          | Road Junction  | 45                         |                         | .007       |

INVESTIGATORS: Lt. Collins & T/5 Hill  
 AREA: Road 5  
 DATE: 28 September 1945  
 INSTRUMENT: Victoreen (263-10)  
 MAP: Nagasaki Prefecture

| <u>MILEAGE</u> | <u>DESCRIPTION</u>      | GAMMA RAY    |                         | <u>MR/HR</u> |
|----------------|-------------------------|--------------|-------------------------|--------------|
|                |                         | <u>SCALE</u> | <u>DEFL. COUNTS/MIN</u> |              |
| 142.6          | Bridge Nearby           |              | 51                      | .01          |
| 145.2          | Railroad Crossing       |              | 46                      | .009         |
| 146.4          | Railroad Crossing       |              | 54                      | .011         |
| 148.7          | Railroad Crossing       |              | 43                      | .006         |
| 150.0          | Railroad Crossing       |              | 48                      | .009         |
| 150.5          | Railroad Crossing       |              | 51                      | .01          |
| 159.0          | Shimabara               | 3            | 2                       | .03          |
| 159.5          | Fork south of Shimabara | 3            | 2                       | .03          |
| 160.0          | Shore Road              | 3            | 1.5                     | .02          |
| 161.0          | Shore Road              |              | 40                      | .006         |
| 165.0          | Shore Road              |              | 35                      | .002         |

INVESTIGATORS: Sgt. Hornberger & T/5 Hill  
 AREA: Road 10  
 DATE: 29 September 1945  
 INSTRUMENT: Victoreen (263-10)  
 MAP: Nagasaki Prefecture

| <u>MILEAGE</u> | <u>DESCRIPTION</u>  | <u>GAMMA RAY</u>  |              |
|----------------|---|-------------------|--------------|
|                |   | <u>COUNTS/MIN</u> | <u>MR/HR</u> |
|                | Mileage reading opposite Shipbuilding yards was 277.9           |                   |              |
| 279.7          | Melon Patch   | 46                | .0080        |
| 280.8          | Bridge End  | 48                | .0081        |
| 283.3          | Outside Village-heading inland                                  | 37                | .0041        |
| 285.7          | Intersection of roads-northwest and south.                      | 61                | .0130        |
| 286.5          | Edge of Town  | 35                | .0040        |
| 288.0          | Coastal Town  | 30                | .0020        |
| 288.3          | In cut  | 40                | .0050        |
| 288.8          | Proceeding south on Bluff between roads. Antenna north of road. | 40                | .0050        |
| 290.2          | End of road--into foot path which headed inland                 | 42                | .005         |

**INVESTIGATORS:** Lt. Tybout & Sgt. Hornberger  
**AREA:** Road 12  
**DATE:** October 2, 1945  
**INSTRUMENT:** Victoreen (263-10)  
**MAP:** Nagasaki Prefecture

| <u>MILEAGE</u> | <u>DESCRIPTION</u>  | <u>GAMMA RAY</u>  |              |
|----------------|---|-------------------|--------------|
|                |   | <u>COUNTS/MIN</u> | <u>MR/HR</u> |
|                | Mileage was set to zero at the 1st Reservoir on Omura Road. |                   |              |
| 3.7            | Pebble road branching off from Omura Road.                  | 75                | .0185        |
| 4.1            | At entrance to village                                      | 44                | .0070        |
| 4.7            | Just outside village  | 51                | .010         |
| 5.5            | Along dirt road   | 38                | .005         |
| 6.8            | Outskirts of village  | 30                | .002         |

INVESTIGATORS: Lt. Tybout & T/5 Hill  
 AREA: Road 1  
 DATE: 4 October 1945  
 INSTRUMENT: Victoreen (263-10)  
 MAP: Nagasaki Prefecture

| <u>MILEAGE</u> | <u>DESCRIPTION</u>                                    | <u>GAMMA RAY INTENSITY</u> |                               |
|----------------|---|----------------------------|-------------------------------|
|                |   | <u>SCALE</u>               | <u>DEFL. COUNTS/MIN NR/HR</u> |
|                | Speedometer set to zero at first reservoir on Road.   |                            |                               |
| 2.1            | Grass alongside Road                                  |                            | 42 .006                       |
| 2.2            | Grass alongside Road                                  |                            | 50 .009                       |
| 2.3            | Grass alongside Road                                  |                            | 67 .017                       |
| 2.4            | Grass alongside Road                                  | 3                          | 1.3 .025                      |
| 2.5            | Grass alongside Road                                  | 3                          | 1.5 .035                      |
| 2.6            | Alongside asphalt Road                                | 3                          | 2.0 .045                      |
| 2.7            | Alongside asphalt Road                                | 3                          | 2.2 .05                       |
| 2.8            | Alongside asphalt Road                                | 3                          | 2.5 .055                      |
| 2.9            | On grass 1 ft. off Road                               | 3                          | 4.5 .1                        |
| 3.0            | On grass 1 ft. off Road                               | 3                          | 7.0 .175                      |
| 3.1            | In grass 10 ft. off Road                              | 3                          | 7.5 .19                       |
| 3.2            | In grass 10 ft. off Road                              | 3                          | 7.5 .19                       |
| 3.3            | In grass 10 ft. off Road                              | 3                          | 3.5 .076                      |
| 3.4            | In grass 10 ft. off Road                              | 3                          | 2.0 .045                      |
| 3.5            | Alongside Road-steep bank                             | 3                          | 1.5 .035                      |
| 3.6            | Alongside Road-10 ft. into grass                      |                            | 43 .007                       |
| 3.7            | 10 ft. off Road & in grass. Steep banks on both sides |                            | 40 .006                       |
| 3.8            | Alongside Road-steep bank on 1 side.                  |                            | 50 .009                       |



INVESTIGATORS: Lt. Tybout & T/5 Hill  
 AREA: Road 1  
 DATE: 4 October 1945  
 INSTRUMENT: Victoreen (263-10)  
 MAP: Nagasaki Prefecture

| <u>MILEAGE</u> | <u>DESCRIPTION</u>                     | <u>GAMMA RAY INTENSITY</u> |                               |
|----------------|--|----------------------------|-------------------------------|
|                |  | <u>SCALE</u>               | <u>DEFL. COUNTS/MIN MR/HR</u> |
| 3.9            | 10 ft. off Road on bare ground         |                            | 38 .003                       |
| 4.0            | Alongside Road, paddies on side        | 3                          | 1.8 .04                       |
| 4.1            | Alongside Road, 4 ft. into grass       | 3                          | 2.0 .045                      |
| 4.2            | Alongside Road                         | 3                          | 3.0 .067                      |
| 4.3            | Alongside Road                         | 3                          | 4.0 .09                       |
| 4.4            | Minor Road, intersection at this point | 3                          | 5.0 .12                       |
| 4.5            | Alongside Road                         | 3                          | 5.8 .145                      |
| 4.6            | 5 ft. off Road                         | 3                          | 6.0 .15                       |
| 4.7            | 10 ft. off Road in Village             | 3                          | 4.0 .09                       |
| 4.8            | Alongside Road                         | 3                          | 7.5 .19                       |
| 4.9            | 10 ft. off Road near paddy             | 3                          | 5.0 .12                       |
| 5.0            | Alongside Road                         | 3                          | 6.0 .15                       |
| 5.1            | 5 ft. off Road to Ishahaya             | 3                          | 6.5 .16                       |
| 5.2            | Alongside Road                         | 3                          | 4.0 .09                       |
| 5.3            | 20 ft. back on side road               | 3                          | 3.5 .08                       |
| 5.4            | Alongside Road, paddy beyond           | 3                          | 4.0 .09                       |
| 5.5            | Alongside Road, paddy beyond           | 3                          | 3.5 .076                      |
| 5.6            | Alongside Road, paddy beyond           | 3                          | 3.7 .085                      |
| 5.7            | Alongside Road, paddy beyond           | 3                          | 3.3 .075                      |

INVESTIGATORS: Lt. Tybout & #/5 Hill  
 AREA: Road 1  
 DATE: 4 October 1945  
 INSTRUMENT: Victoreen (263-10)  
 MAP: Nagasaki Prefecture

| MILEAGE | DESCRIPTION  | GAMMA RAY INTENSITY |       |            |       |
|---------|--|---------------------|-------|------------|-------|
|         |  | SCALE               | DEFL. | COUNTS/MIN | MR/HR |
| 5.8     | Alongside Road, paddy beyond                             | 3                   | 3.0   |            | .067  |
| 5.9     | Alongside Road, paddy beyond                             | 3                   | 2.5   |            | .055  |
| 6.0     | Alongside Road, paddy beyond                             | 3                   | 2.5   |            | .055  |
| 6.1     | Alongside Road   | 3                   | 2.5   |            | .055  |
| 6.2     | Over ditch alongside Road                                | 3                   | 3.3   |            | .075  |
| 6.3     | Over ditch alongside Road                                | 3                   | 3.3   |            | .075  |
| 6.4     | Alongside Road in deep cut<br>(about 25 ft.), rock sides | 3                   | 2.5   |            | .055  |
| 6.5     | Alongside Road, paddy beyond                             | 3                   | 2.5   |            | .055  |
| 6.6     | Alongside Road   | 3                   | 1.7   |            | .035  |
| 6.7     | Alongside Road, on fill                                  | 3                   | 1.5   |            | .035  |
| 6.8     | Alongside Road, paddy beyond                             | 3                   | 1.0   | 80         | .023  |
| 6.9     | Alongside Road, paddy beyond                             |                     |       | 63         | .015  |
| 7.0     | Three feet off Road                                      |                     |       | 80         | .023  |
| 7.1     | Alongside Road   | 3                   | 1.2   |            | .024  |
| 7.2     | Between cut and building                                 |                     |       | 55         | .012  |
| 7.3     | Aside road, small cut                                    |                     |       | 46         | .008  |
| 7.4     | 10 ft. off road in grass                                 |                     |       | 43         | .007  |

**INVESTIGATORS:** Col. Warren & Capt. Youngs  
**AREA:** East Side Urakami-Gawa, Main North-South Road from Nagasaki Station to Mitsubishi Torpedo Works  
**DATE:** 22 September 1945  
**INSTRUMENT:** Victoreen (263-10)  
**MAP:** Nagasaki City

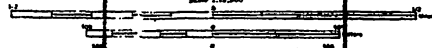
| <u>SITE</u><br><u>COORDINATES</u> | <u>DESCRIPTION</u>             | <u>GAMMA RAY</u><br><u>INTENSITY</u> |              |
|-----------------------------------|--------------------------------|--------------------------------------|--------------|
|                                   |                                | <u>COUNTS/MIN</u>                    | <u>MR/HR</u> |
| E-80, 3.85                        | Railroad Station               | 30                                   | .002         |
| E-55, 4.35                        | Kyushu Gas Co.                 | 48                                   | .01          |
| E-05, 4.30                        | Mitsubishi Steel Works         | 72                                   | .018         |
| D-92, 6.16                        | Near Baseball Field            | 240***                               | >0.07        |
| D-85, 6.50                        | Steps to Prison *              | 240***                               | >0.07        |
| D-97, 6.75                        | Top of Prison Hill **          | 600***                               | >0.07        |
| D-80, 6.90                        | Freight Yards                  | 30                                   | .002         |
| D-82, 7.12                        | 0.1 mi. North of Freight Yards | 50                                   | .009         |
| D-90, 7.78                        | Torpedo Works                  | 30                                   | .002         |
| D-65, 8.50                        | Northwest of Torpedo Works     | 30                                   | .002         |
| E-05, 7.73                        | Torpedo Works                  | 30                                   | .002         |
| E-20, 8.17                        | Torpedo Works                  | 30                                   | .002         |
| F-15, 3.73                        | Near City Hall                 | 30                                   | .002         |

- \* Obtained Human and Horse Bones
- \*\* Obtained Human Skull
- \*\*\* Estimated from the pitch of ear phones

PRELIMINARY UNCORRECTED EDITION 7 RESTRICTED

# NAGASAKI NAGASAKI PREFECTURE, KYUSHU, JAPAN

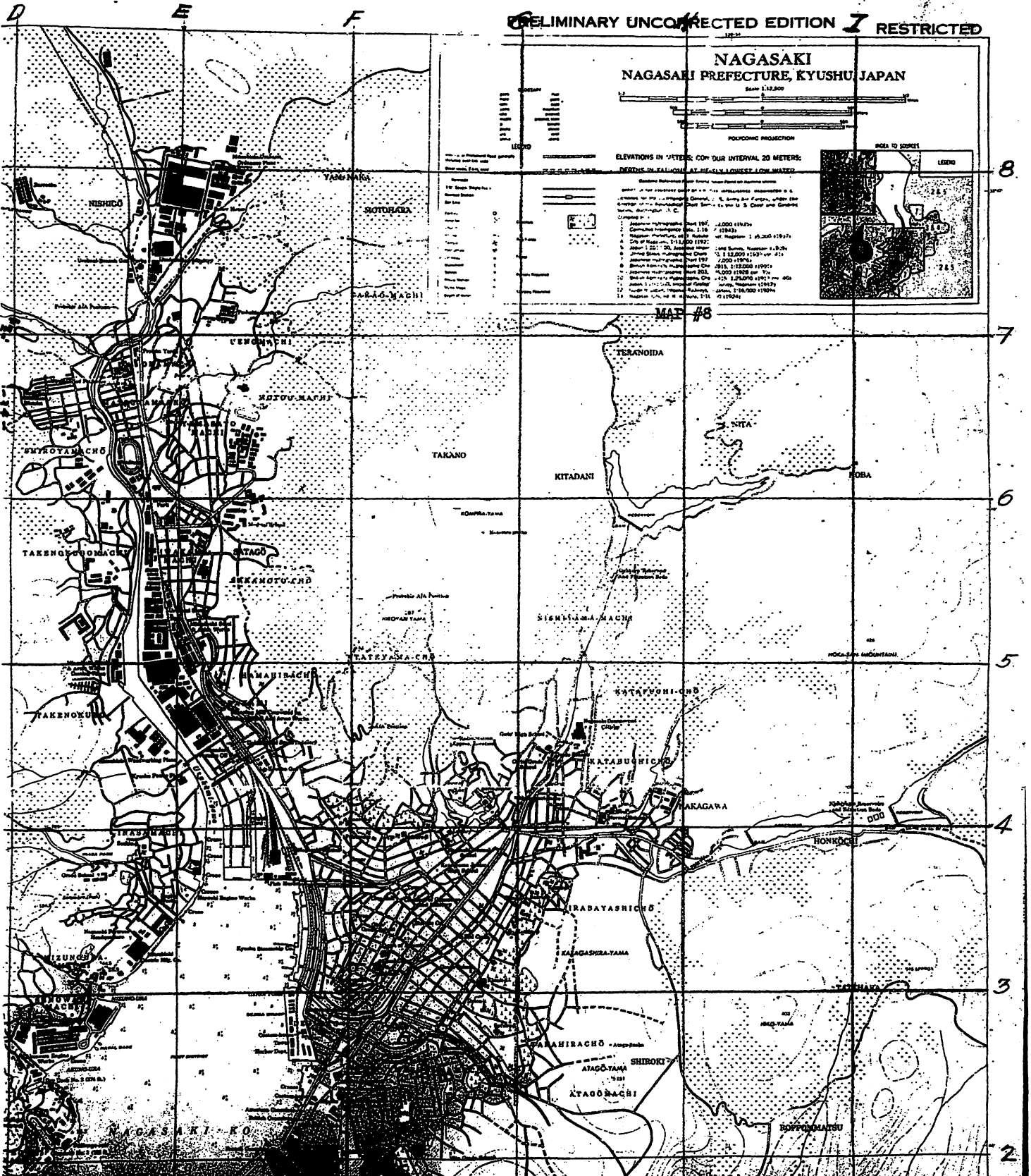
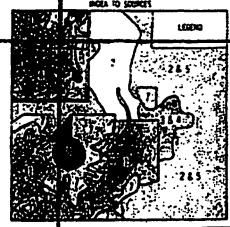
Scale 1:12,500



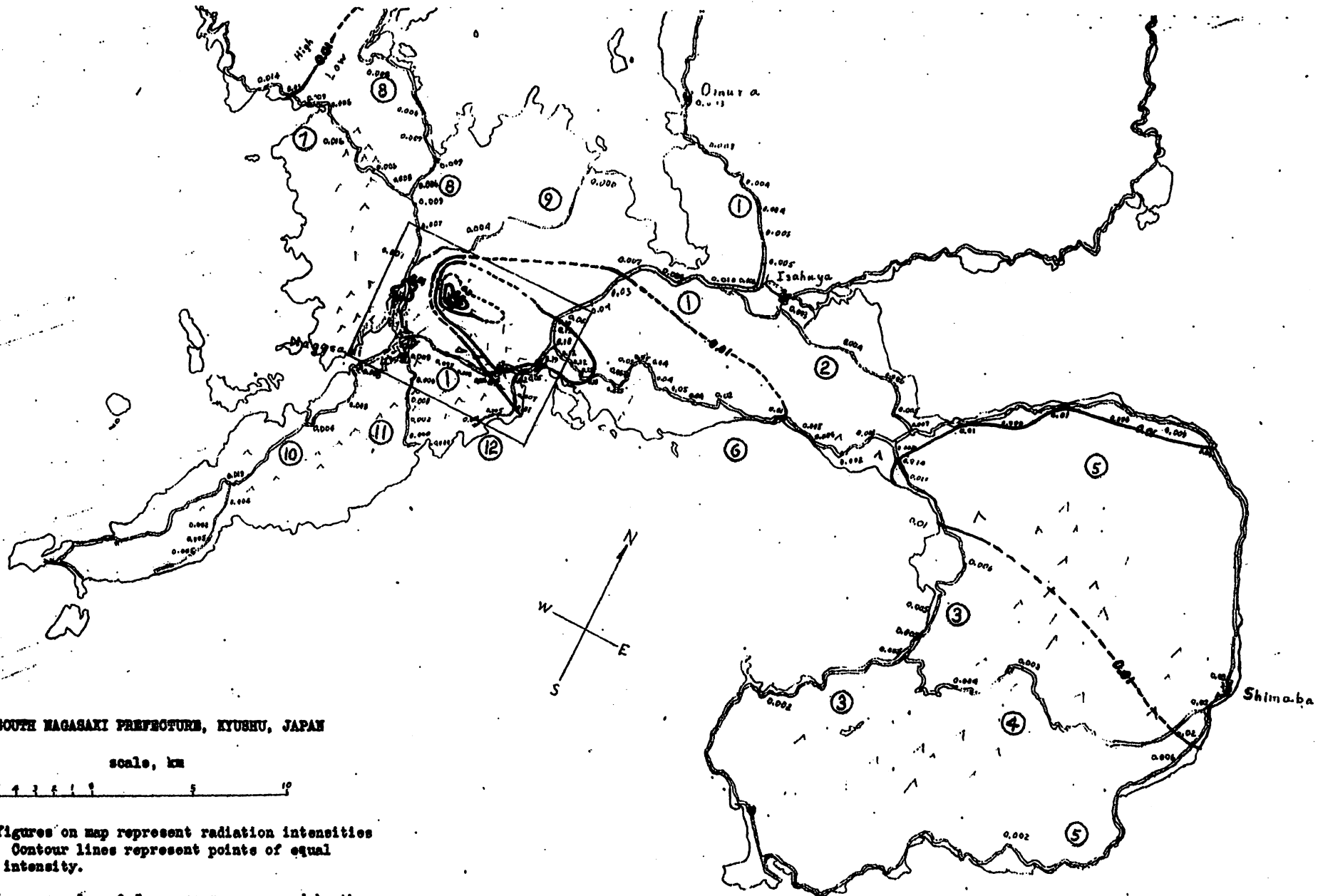
POUNDS TO METERS

ELEVATIONS IN METERS; CONTOUR INTERVAL 20 METERS;  
DEPRESSIONS IN FATHOMS AT REGULAR 100-FEET INTERVALS

- 1. Japanese Topographic Scale 1:50,000 (1947)
- 2. Japanese Topographic Scale 1:100,000 (1943)
- 3. Japanese Topographic Scale 1:250,000 (1927)
- 4. City of Nagasaki, 1:11,000 (1952)
- 5. Japan Survey, 1:50,000 (1952)
- 6. Japan Survey, 1:100,000 (1952)
- 7. Japan Survey, 1:250,000 (1952)
- 8. Japan Survey, 1:500,000 (1952)
- 9. Japan Survey, 1:1,000,000 (1952)
- 10. Japan Survey, 1:2,500,000 (1952)
- 11. Japan Survey, 1:5,000,000 (1952)
- 12. Japan Survey, 1:10,000,000 (1952)
- 13. Japan Survey, 1:20,000,000 (1952)
- 14. Japan Survey, 1:40,000,000 (1952)



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**SOUTH NAGASAKI PREFECTURE, KYUSHU, JAPAN**

scale, km



All figures on map represent radiation intensities in mr/hr. Contour lines represent points of equal radiation intensity.

Map is an overlay of Japanese map prepared by the Nagasaki Prefectural Government in 1932.

Enlarged inset on following page.

- Contour line
- Estimated Contour
- Road
- Mountains (1000-3000 ft. high)

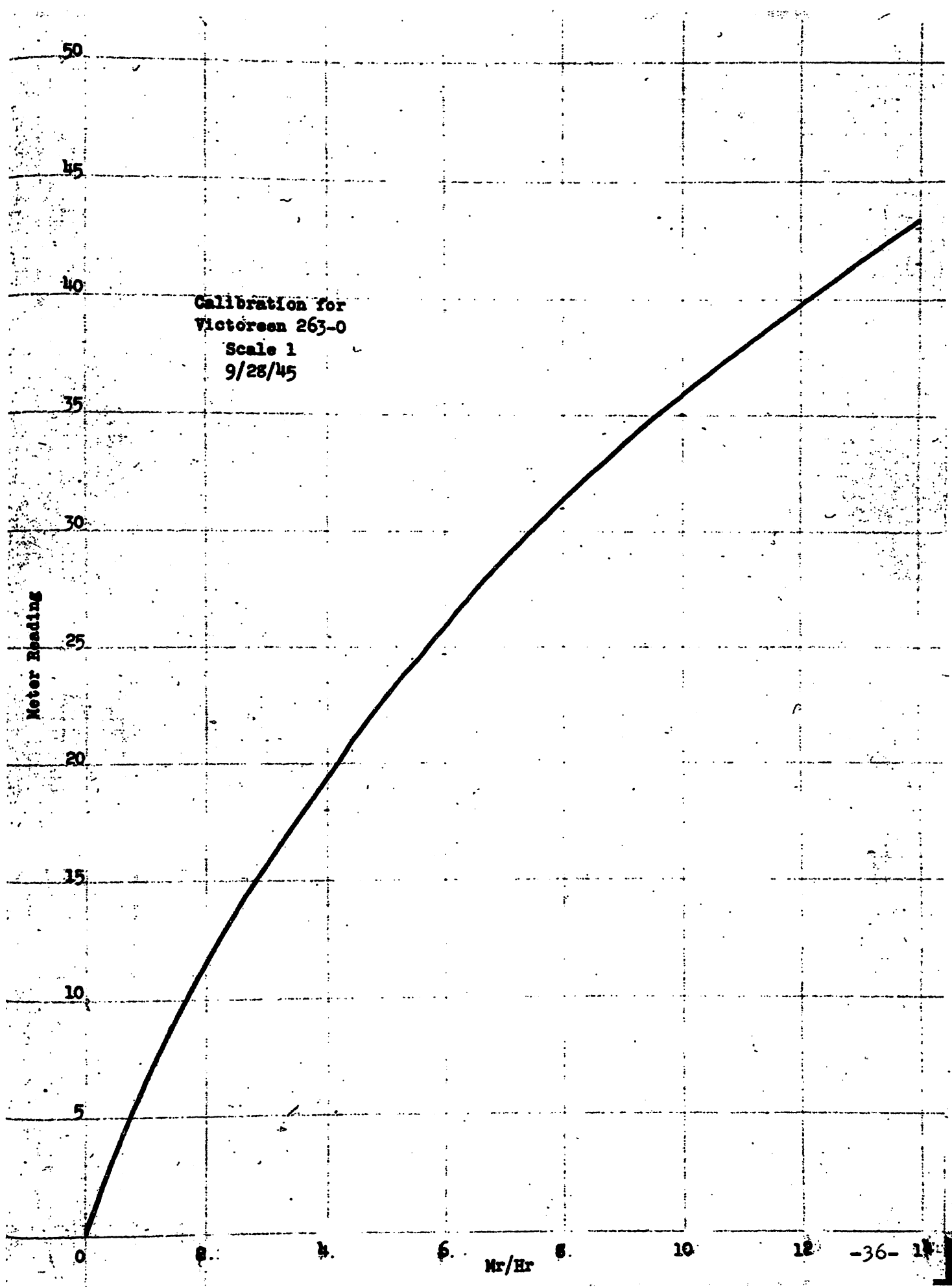
MAP #9

Calibration for  
Victoreen 263-0  
Scale 1  
9/28/45

Meter Reading

Mr/Hr

-36- 17

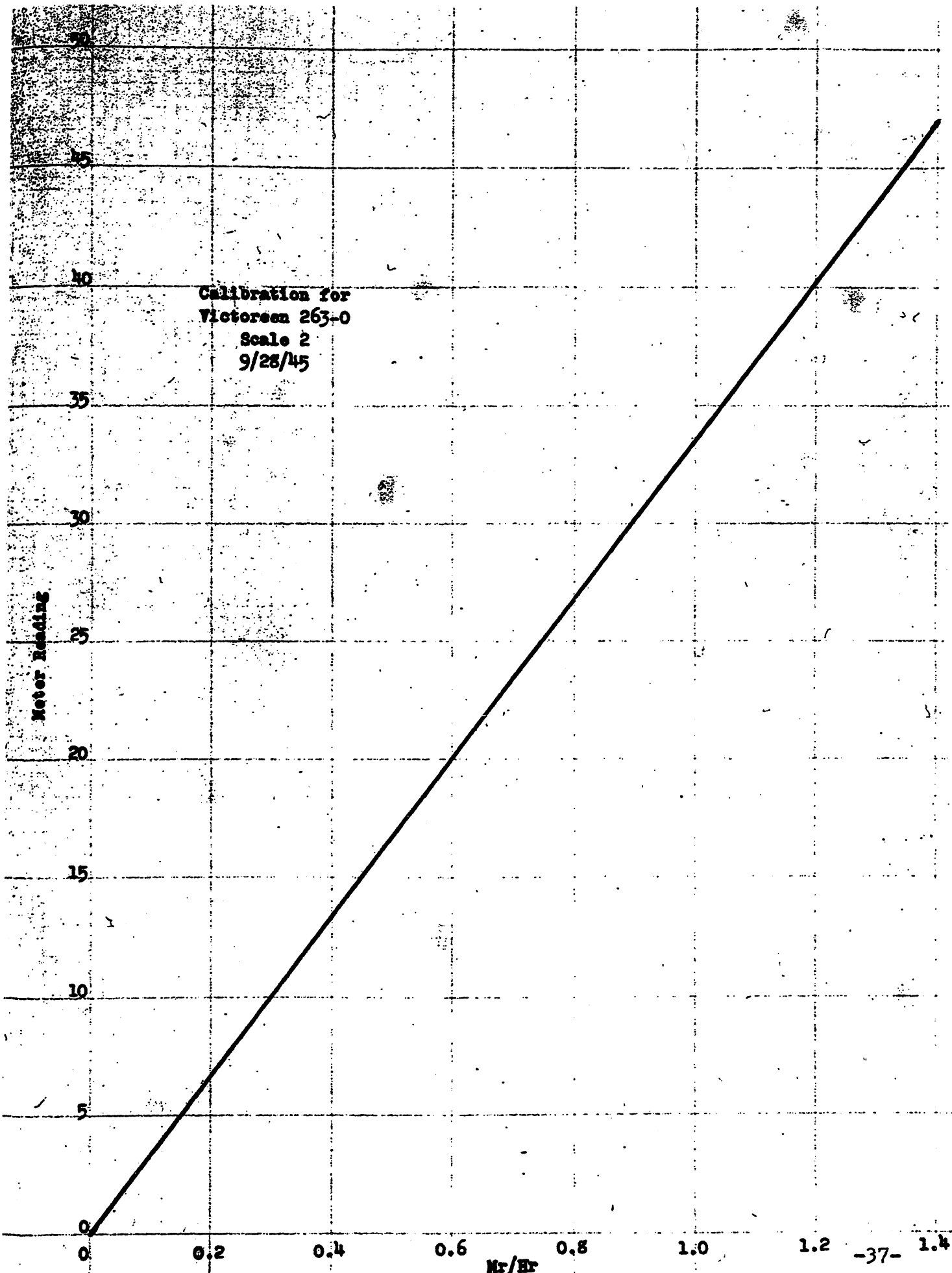


Calibration for  
Victoreen 263-0  
Scale 2  
9/28/45

Meter Reading

Mr/Hr

-37- 1.4



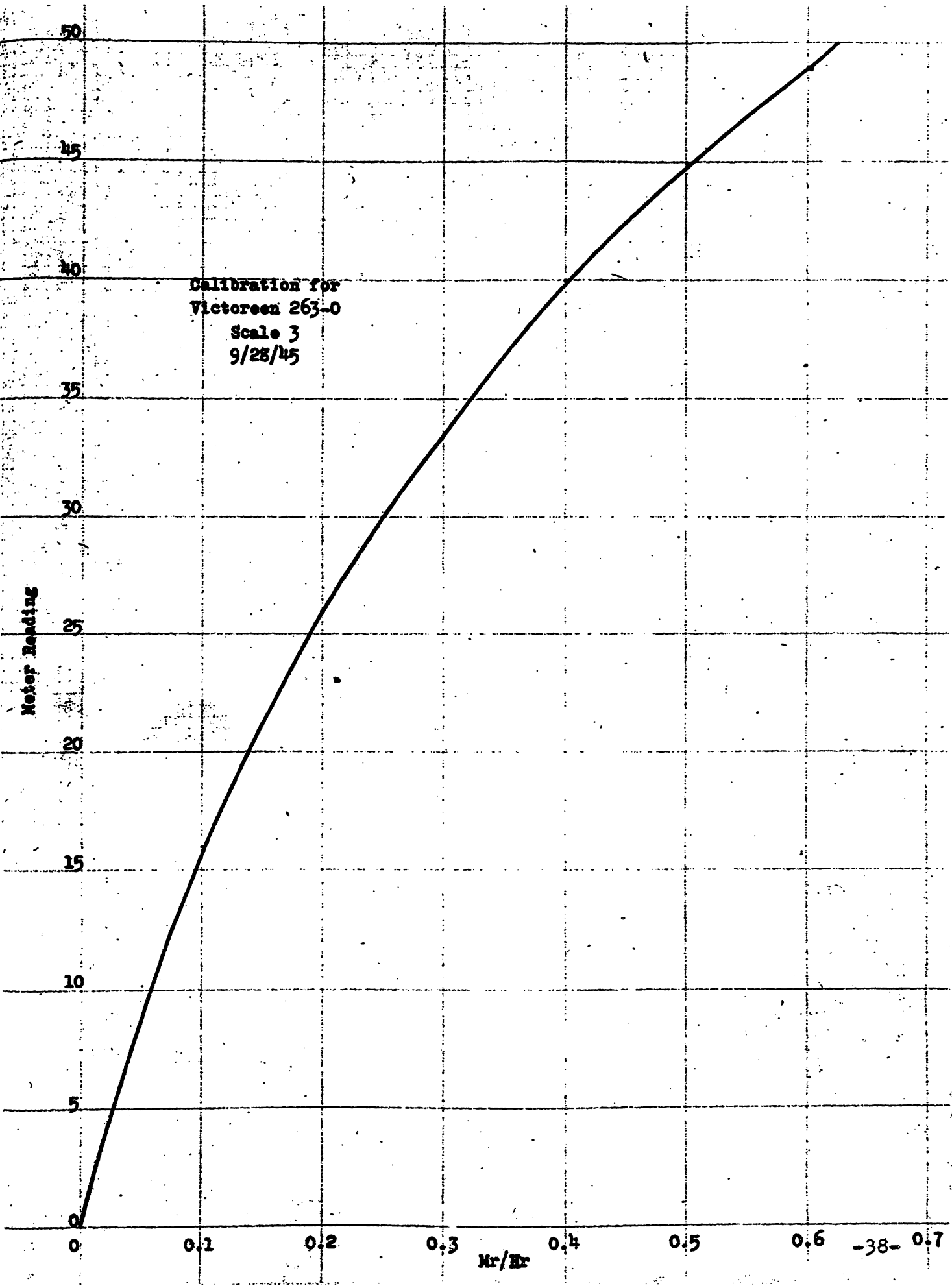
Calibration for  
Victoreen 263-0  
Scale 3  
9/28/45

Meter Reading

50  
45  
40  
35  
30  
25  
20  
15  
10  
5  
0

0 0.1 0.2 0.3 0.4 0.5 0.6 -38- 0.7

Mr/Er

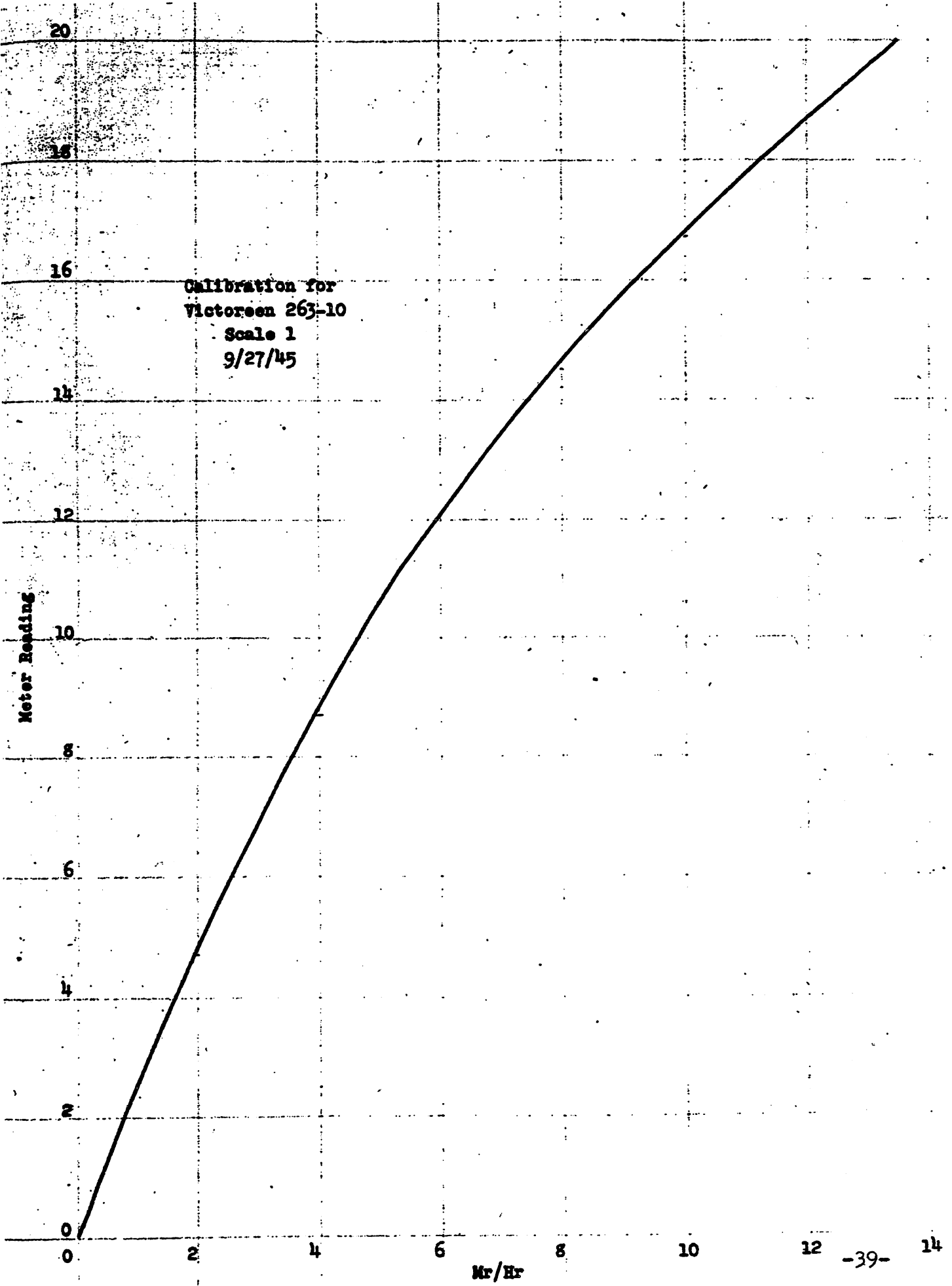




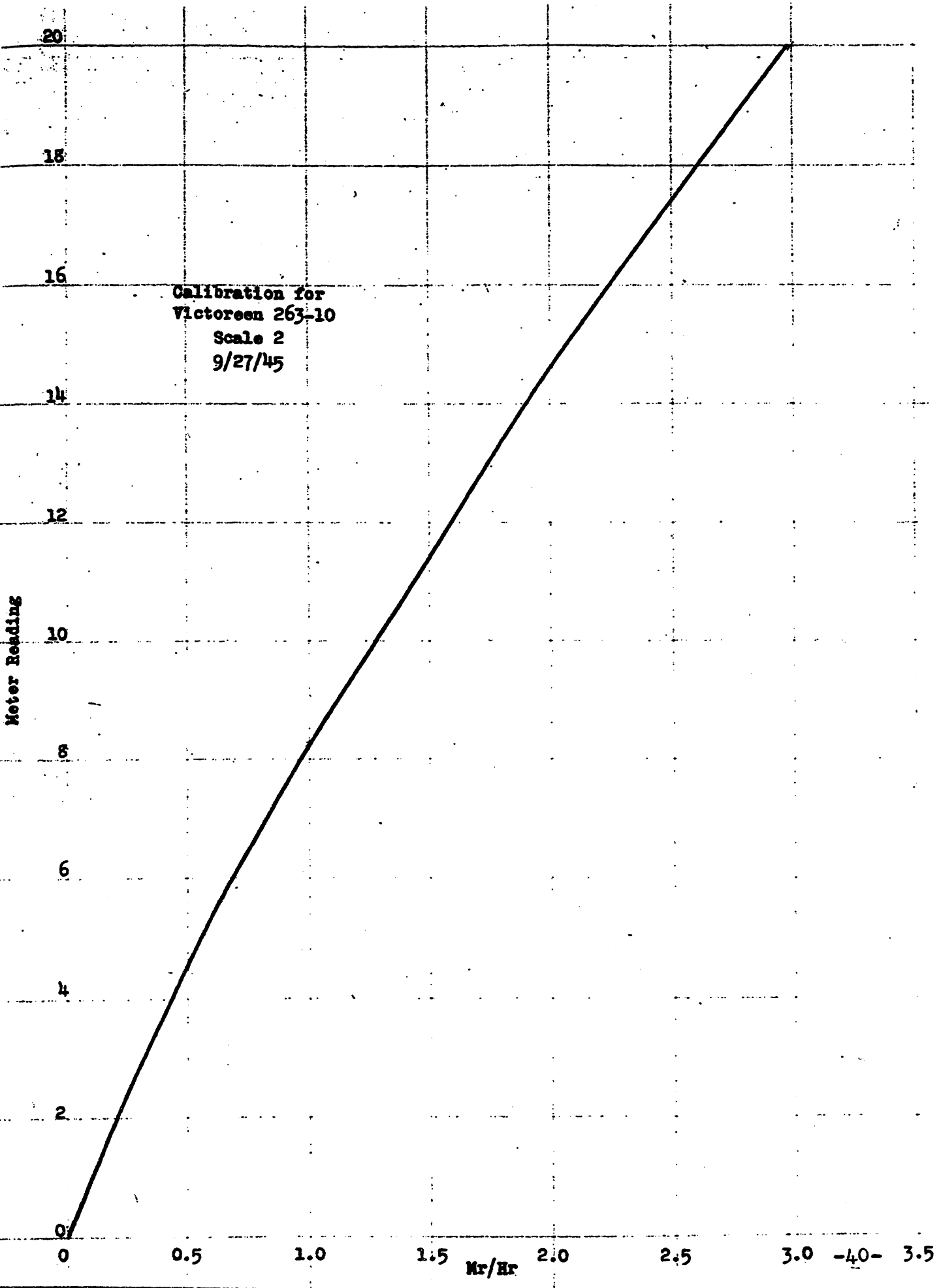
Calibration for  
Victoreen 263-10  
Scale 1  
9/27/45

Meter Reading

Mr/Hr



Calibration for  
Victoreen 263-10  
Scale 2  
9/27/45



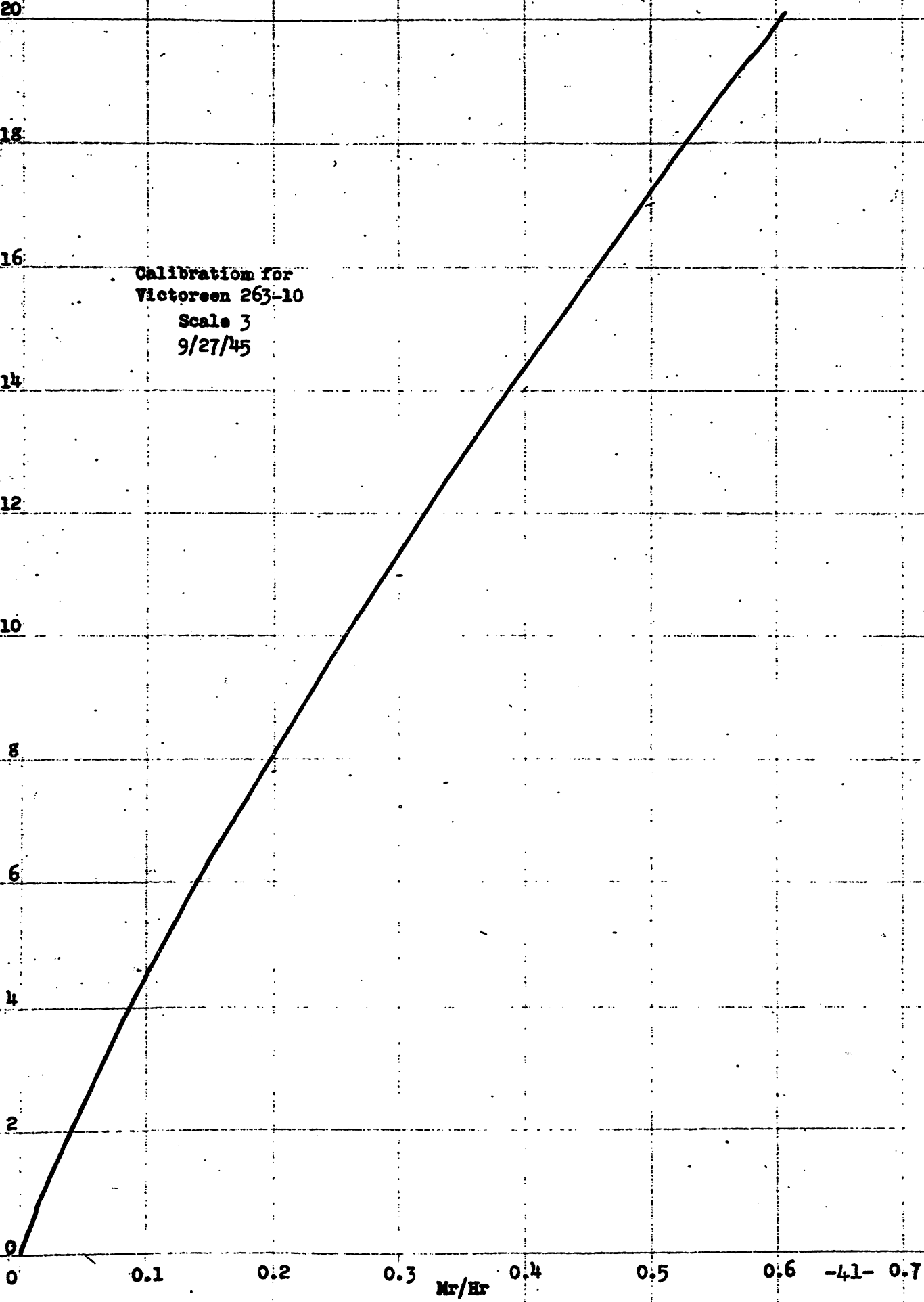
Meter Reading

20  
18  
16  
14  
12  
10  
8  
6  
4  
2  
0

Calibration for  
Victoreen 263-10  
Scale 3  
9/27/45

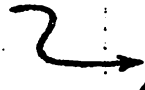
Mr/Hr

0.1 0.2 0.3 0.4 0.5 0.6 -41- 0.7



Calibration for  
Victoreen 263-10  
Victoreen 263-0  
9/27/45

Background  
subtracted



Counts/Minute

200  
180  
160  
140  
120  
100  
80  
60  
40  
20  
0

0 0.01 0.02 0.03 0.04 0.05 0.06 -42- 0.07  
Mr/Hr

