

Wanishi Iron Works - continued.

45. Office

46. Open hearth repair shop

47-50 Storage

51-63 Storage

64. Carpenter shop

65-75 Storage

76. Dock storage area

- | | | |
|-------|--------------|---|
| ✓ 77. | Naka Section | Sintering Plant |
| ✓ 78. | " " | Dock, Ore and Limestone storage |
| 79. | " " | Blast Furnaces 1, 2, 3 |
| ✓ 80. | " " | Power Plant |
| ✓ 81. | " " | By-Products Plants |
| ✓ 82. | " " | Coke Oven Batteries |
| 83. | " " | Coal Washing Plant |
| ✓ 84. | " " | Coal Storage |
| ✓ 85. | Wanishi | Ore Roasting Plant |
| 86. | " " | Storage Offices, Workmens Rest and Lunch Room |
| 87. | " " | Power House |
| 88. | " " | Blast Furnaces 1,2,3,4, |
| 89. | " " | Sintering Plant and Conveyor Yard |
| 90. | " " | Ore storage |
| 91. | " " | Office and workemens building area |
| 92. | " " | By-Products Plants |
| 93. | " " | Coke Oven Batteries 1,2,3,4. |
| 94. | " " | R.R. Storage yards |
| 95. | " " | Car Treating Building |

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90.3-379

MURORAN - WANISHI IRON WORKS

Bldg. No.	Name	No. Hits	Damage	SQ. FT. Roof area Damage
2	Handling and Storage	1	Cratering Hit	(P) 1000'
3	Light & Midium Rolling Mill	1	N.M.	(P) 180'
5	Continous Billit Mill	3	3 cratering hits	(S)
7	Wire rod mill	2	Cratering hits	(P) Roof Rep. 60%
9	Open hearth furnace	4	D.H. (S) 2 waste-heat boiler bldgs.	2500' 2100' 900'
12	Brick Storage	2	1 N.M. (S)	2464
21	Machine Shop	1	D.H. (P)	11000'
22	Forge shop	1	D.H. (S)	3800
33	Plate shop	1	cratering hit (P)	Roof repaired
36	Garage	1	Been repaired (S)	1000'
45	Open hearth office blduing	?	Site cleared (S)	2000' Concurr
54	Brick storage #2	1	D.H. (S)	2500'
64	Saw Mill Carpenter Shop	2	Cratering hit	Repaired
76	Dock Crane	2	2 N.M.	
77	Naka Section Sentering Plant	1	(S)	
78	Naka Section Ore & Limestone Stor.	2	No damage	
79	Naka Section Blast Furnaces 1,2,3	14	(S) Furnace out -	Water supply cut off.
80	Naka Section Power Plant	3	(S)	
81	Naka Section By-products plant	3	Open storage area	
82	Naka Section Coke oven battery	8	(S) Gas lines, conveyers, none to ovens.	
83	Naka Section Coal washing plant	2	(S) 1 D.H. Conveyer lines	
84	Naka Section Coal Storage	2	Tracks, wooden buildings	
85	Wanishi Section Ore Roasting Pl.	7	2 D.H.	
86	Wanishi Section Storage, Offices	14	No major structural Damage	
87	Wanishi Section Power House	2	1 D.H.	
88	Wanishi Section Blast Furnaces 1, 2., 3, 4	4	2 D.H.	
89	Wanishi Section Sentering Plant & Conveyor farm YARD	3	2 D.H.	2700
90	Wanishi Section Ore Storage	3	Tracks	
91	Wanishi Section Office, Workman building Area.	10	1 office bldg., garage building	
92	Wanishi Section By-products pl.	2	Frag. damage	
93	Wanishi Section Coke Ovens 1,2,3,4	3	D.H.	
94	Wanishi Section RR Storage Yard	5	Tracks	
	Wanishi Section Car Treating Bldg.	1	1 D.H. (S)	
96A	Wanishi Workers housing area	2	2 buildings destroyed	
	Others		100% 50% Under 50%	
	Nakajima	47	184 187	284 Workers Houses
	Wanishi	9	15 47	38 Workers Houses
	Nakajima		3 0	3 Apt. House
	Wanishi		1 0	0 Apt. House

U-REPORT *68

D.H. DIRECT HIT
N.M. NEAR MISS

(S) - STRUCTURAL DAMAGE
(P) SUPERFICIAL

90.3-379

UX-45

MURORAN - WANISHI IRON WORKS

Bldg. No.	Name	No. Hits	Damage	(sq. ft.) Roof area Damage
2	Handling and Storage	1	Cratering Hit	(P) 1000'
3	Light & Midium Rolling Mill	1	N.M.	(P) 180'
5	Continous Billit Mill	3	3 cratering hits	(S)
7	Wire rod mill	2	Cratering hits	(P) Roof Rep. 60%
9	Open hearth furnace	4	D.H. (S) 2 waste-heat boiler bldgs.	2500' 2100' 900'
12	Brick Storage	2	1 N.M. (S)	2464
21	Machine Shop	1	D.H. (P)	11000'
22	Forge shop	1	D.H. (S)	3800
33	Plate shop	1	cratering hit (P)	Roof repaired
36	Garage		Been repaired (S)	1000'
45	Open hearth office blduing	?	Site cleared (S)	2000' Concern
54	Brick storage #2	1	D.H. (S)	2500'
64	Saw Mill Carpenter Shop	2	Cratering hit	Repaired
76	Dock Crane	2	2 N.M.	
77	Naka Section Sentering Plant	1	(S)	
78	Naka Section Ore & Limestone Stor.	2	No damage	
79	Naka Section Blast Furnaces 1,2,3	14	(S) Furnace out -	Water supply cut off.
80	Naka Section Power Plant	3	(S)	
81	Naka Section By-products plant	3	Open storage area	
82	Naka Section Coke oven battery	8	(S) Gas lines, conveyers, none to ovens.	
83	Naka Section Coal washing plant	2	(S) 1 D.H. Conveyer lines	
84	Naka Section Coal Storage	2	Tracks, wooden buildings	
85	Wanishi Section Ore Roasting Pl.	7	2 D.H.	
86	Wanishi Section Storage, Offices	14	No major structural Damage	
87	Wanishi Section Power House	2	1 D.H.	
88	Wanishi Section Blast Furnaces 1, 2., 3, 4	4	2 D.H.	
89	Wanishi Section Sentering Plant & Conveyor Plant YARD	3	2 D.H.	2700
90	Wanishi Section Ore Storage	3	Tracks	
91	Wanishi Section Office, Workman building Area.	10	1 office bldg., garage building	
92	Wanishi Section By-products pl.	2	Frag. damage	
93	Wanishi Section Coke Ovens 1,2,3,4	3	D.H.	
94	Wanishi Section RR Storage Yard	5	Tracks	
	Wanishi Section Car Treating Bldg.		1 D.H. (S)	
96A	Wanishi Workers housing area	2	2 buildings destroyed	
	Others		100% 50% Under 50%	
	Nakajima	47	184 187	284 Workers Houses
	Wanishi	9	15 47	38 Workers Houses
	Nakajima		3 0	3 Apt. House
	Wanishi		1 0	0 Apt. House

WANISHI IRON WORKS

UX-45

1. Finished storage
2. Finished storage
3. Light and medium bar mill
4. Storage
5. Billet mill
6. Storage
7. Wire rod mill
8. Blooming mill
9. Open hearth furnaces and soaking pits (a) & (b): Waste heat boiler houses
- 10 - 19. Store-houses, offices, and recreational buildings
20. Repair shop
21. Roll-cutting shop
22. For ing shop
- 23-29 Offices and stores
30. Storage
31. Mold shop
32. Casting
33. Plate works
34. Electric furnace
35. Auto repair
36. Garage
37. Rest room
38. Stores
39. Locomotive storage
- 40-44. Storage

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U-X-45

MURORAN - WANISHI IRON WORKS

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				Roof area	Damage
2	Handling and Storage	1	Cratering Hit	(P) 1000'	
3	Light & Midium Rolling Mill	1	N.M.	(P) 180'	
5	Continous Billit Mill	3	3 cratering hits	(S)	
7	Wire rod mill	2	Cratering hits	(P) Roof Rep. 60%	
9	Open hearth furnace	4	D.H. (S) 2 waste-heat boiler bldgs.	2500' 2100' 900'	
12	Brick Storage	2	1 N.M. (S)	2464	
21	Machine Shop	1	D.H. (P)	11000'	
22	Forge shop	1	D.H. (S)	3800	
33	Plate shop	1	cratering hit (P)	Roof repaired	
36	Garage		Been repaired (S)	1000'	
45	Open hearth office blduing	?	Site cleared (S)	2000' Concern	
54	Brick storage #2	1	D.H. (S)	2500'	
64	Saw Mill Carpenter Shop	2	Cratering hit	Repaired	
76	Dock Crane	2	2 N.M.		
77	Naka Section Sentering Plant	1	(S)		
78	Naka Section Ore & Limestone Stor.	2	No damage		
79	Naka Section Blast Furnaces 1,2,3	14	(S) Furnace out -	Water supply cut off.	
80	Naka Section Power Plant	3	(S)		
81	Naka Section By-products plant	3	Open storage area		
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84	Naka Section Coal Storage	2	Tracks, wooden buildings		
85	Wanishi Section Ore Roasting Pl.	7	2 D.H.		
86	Wanishi Section Storage, Offices	14	No major structural Damage		
87	Wanishi Section Power House	2	1 D.H.		
88	Wanishi Section Blast Furnaces 1, 2., 3, 4	4	2 D.H.		
89	Wanishi Section Sentering Plant & Conveyor farm (yard)	3	2 D.H.	2700	
90	Wanishi Section Ore Storage	3	Tracks		
91	Wanishi Section Office, Workman building Area.	10	1 office bldg., garage building		
92	Wanishi Section By-products pl.	2	Frag. damage		
93	Wanishi Section Coke Ovens 1,2,3,4	3	D.H.		
94	Wanishi Section RR Storage Yard	5	Tracks		
	Wanishi Section Car Treating Bldg.		1 D.H. (S)		
96A	Wanishi Workers housing area	2	2 buildings destroyed		
	Others		100% 50% Under 50%		
	Nakajima	47	184 187	284	Workers Houses
	Wanishi	9	15 47	38	Workers Houses
	Nakajima		3 0	3	Apt. House
	Wanishi		1 0	0	Apt. House



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WAWUSHI
IRON WORKS
MEMORANDUM

U.S. PHOTO ENLARGEMENT
#3

WANISHI IRON WORKS - 90.3-379
MURORAN, HOKKAIDO.
Coke, Iron and Steel Manufacture.

Subjects Investigated.

- a. Functional Analysis.
 1. Published material on older portion of plant, but suitable for checking.
 2. Complete F/A obtained.
 3. Published data based on older plans and substantially correct.
- b. Structural Analysis.
 1. As above.
 2. Structural data obtained only on damaged buildings.
 3. No conclusions at this time.
- c. Damage Assessment.
 1. Surface bombardment - HE
 2. Bulk of data with Capt. CHAPIN'S Physical Damage party. Can be obtained at a later date. Data is very complete, considered suitable for checking.
 3. None at this time.

WANISHI IRON WORKS - 90.3-379
MURORAN, HOKKAIDO.
Coke, Iron and Steel Manufacture.

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WANISHI IRON WORKS - 90.3-379
MURORAN, HOKKAIDO.
Coke, Iron and Steel Manufacture.

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c. Damage Assessment.

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3. None at this time.