

GHQ/SCAP Records (RG 331, National Archives and Records Service)
Description of contents

- (1) Box no. 2809
- (2) Folder title/number: (5)
 Disaster Actions - Tochigi
- (3) Date: Dec. 1949 - Aug. 1950
- (4) Subject:

Classification	Type of record
9450	c

- (5) Item description and comment:
 Tochigi

- (6) Reproduction: Yes No
- (7) Film no.

Sheet no.

(Compiled by *National Diet Library*)

TOCHIGI PREFECTURAL GOVERNMENT

Utsunomiya City, Tochigi prefecture.

Ref. No. 905
1 August 1950

SUBJECT: Report on Typhoon Damage.

TO: Chief,
Headquarters Kanto Civil Affairs Region,
APO 201.
(Attention: Civil Welfare Section)

By the typhoon which visited us on 28 and 29 July, we have suffered damages to a considerable extent in the prefecture and hereby submit the report as attached sheets.

This case was already reported to you through telephone on 31 July.

For Junichi Kodaira
JUNICHI KODAIRA
Governor,
Tochigi Prefecture

JK/Liaison Section/kk-ki



Damages and Its Counter-measures

A. Public works concerns.

Estimated amount of damage: 280.67-million yen

Counter-measures: The damaged places on roads, bridges, rivers, and sand prevention works count 519, for which the national disbursement is expected to restore them, but immediate measures shall be taken to the places where an urgent work is necessary thus leaving nothing to be desired.

B. Forestry concerns.

Estimated amount of damage: 17.96-million yen

Counter-measures: The places where an urgent restoration work is need, such as newly-appeared and enlarged devastated forests, shall be worked to protect the foundation. The places where forest dam beds were buried shall be excavated when rivers receded.

C. Farm concerns.

Estimated amount of damage: 20-million yen

Counter-measures: Prevention of noxious insects and diseases and adjustment of watered fields and dried fields

Total amount of damage: 318.63-million yen

Note: ~~Some~~ change is expected in the amount of damage, because a minute survey is now being carried on.

RAINFALL DAMAGES IN JULY 1950

Disaster & Fire Prevention Section
Tochigi Prefectural Government
(As of 30th July 1950)

Cities and gun-districts Damages	Kawachi	Kamitsuga	Haga	Shimo- tsuga	Shioya	Nasu	South Nasu	Aso	Ashikaga	Utsuno- miya	Sano	Total
Casualties												
Dead												
Missing					1							1
Damage on residences												
Flooded over floor												
Doors		3		3					5			11
No. persons		16		14					25			55
Flooded under floor												
Doors		12		33	61			10	16	16		148
No. persons		48		183	315			33	71	81		731
Total												
Doors		15		36	61			10	21	16		159
No. persons		64		197	315			33	96	81		786
Paddy & up-land field												
Paddy field												
Flooded partially (Cho)	20			80	46.8		30		30			206.8
Over-flooded (Cho)	3	4.0		15			52	15.5	215		11	315.5
Washed away (Cho)					0.9							0.9
Buried under mud (Cho)		3.5			5.3							8.8
Total (Cho)	23	7.5		95	53		82	15.5	245		11	532.0
Upland field												
Flooded partially (Cho)								13.3	13			26.3
Over-flooded		3.0			12.1		20		72			114.1
Buried under mud		0.6			4.2							4.8
Total		3.6			16.3		20	13.3	92			145.2
Damage on road												
National & Pref. highways												
Flooded	Places		6		1	6			7			20
	Extention (m.)		127		20	295			1,350			1,792
Washed away	Places					1						1
	Extention (m.)					10						10
Burst	Places		7				1					8
	Extention (m.)		160				6					166
Buried	Places		3						1			6
	Extention (m.)		80						10			90
City, town & village road												
Flooded	Places								6			6

Total			9.6		16.3		20	13.3	92		4.8
Damage on road											
National & Pref. highways											
Flooded	Places		6		1	6			7		20
	Extention(m.)		127		20	295			1,350		1,792
Washed away	Places					1					1
	Extention(m.)					10					10
Burst	Places		7				1				8
	Extention(m.)		160				6				166
Buried	Places								1		6
	Extention(m.)		80						10		90
City, town & village road											
Flooded	Places										8
	Extention(m.)										8
Washed away	Places					1					2
	Extention(m.)					6		1	20		26
Burst	Places		3								3
	Extention(m.)		56								56
Total											
Flooded	Places		6		1	6			15		28
	Extention(m.)		127		20	295			9,070		9,512
Washed away	Places					2		1			3
	Extention(m.)					16		20			36
Burst	Places		10				1				11
	Extention(m.)		216				6				222
Buried	Places		5						1		6
	Extention(m.)		80						10		90
Damages on bridges											
Bridges on National & Pref. highways											
Washed-away	Places	2	1			4					7
	Extention(m.)		15			238					253
Removed	Places			3					7		10
	Extention(m.)								250		250
Bridges on city, town and villages road											
Washed-away	Places		1								1
	Extention(m.)		10								10
Removed	Places			3		1					4
	Extention(m.)					12					12
Total											
Washed-away	Places	2	2			4					8
	Extention(m.)		25			238					263
Removed	Places			3		1			7		11
	Extention(m.)					12			250		262

(To be continued)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNNDG NO.

775013

(Continued)

Cities and gun-districts Damaged		Kawachi	Kamitsuga	Haga	Shimo-tsuga	Shioya	Nasu	South Nasu	Aso	Ashikaga	Utsunomiya	Sano	Total
Damages on dikes													
Dikes borne by pref. expenditures													
Cut off	Places		12	1	1	8		3					
	Extention (m.)		590	20	30	467		140					25
Collasped down	Places			1	1					2	1		
	Extention (m.)			20	50					5	100		1,247
Dikes borne by cities, towns or villages expenditure													
Cut off	Places											1	1
	Extention (m.)											5	5
Collasp-ed down	Places								1				1
	Extention (m.)								30				30
Total			12	1	1	8		3				1	26
Cut off	Places		590	20	30	467		140				5	1,252
	Extention (m.)			20	50				1	?	1		6
Forest									30	5	100		251
Devastated Acreage (sq.m.)			2										
Rail truck													
Private rail truck													
buried	Places		1										1
	Extention (m.)		5										5

(Continued)

Cities and gun-districts Damaged		Kawachi	Kamitsuga	Haga	Shimo-tsuga	Shioya	Nasu	South Nasu	Aso	Ashikaga	Utsunomiya	Sano	Total	
Damages on dikes														
Dikes borne by pref. expenditures														
Cut off	Places		12	1	1	8		3					25	
	Extention (m.)		590	20	30	467		140					1,247	
Collasped down	Places			1	1					2	1		5	
	Extention (m.)			20	50					51	100		221	
Dikes borne by cities, towns or villages expenditure														
Cut off	Places											1	1	
	Extention (m.)											5	5	
Collasp-ed down	Places								1				1	
	Extention (m.)								30				30	
Total	Places		12	1	1	8		3				1	26	
Cut off	Extention (m.)		590	20	30	467		140				5	1,252	
Collasp-ed down	Places			1	1				1	2	1		6	
	Extention (m.)			20	50				30	51	100		251	
Forest														
Devastated		Acreage (sq.m.)												2
Rail truck														
Private rail truck														
Buried	Places		1											1
	Extention (m.)		5											5

TOCHIGI PREFECTURAL GOVERNMENT

Utsunomiya City, Tochigi prefecture.

Ref. No. 932
5 August 1950

SUBJECT: Investigation into Damage Done by Storm during August
(intermediate)

TO : Chief,
Headquarters Kanto Civil Affairs Region,
APO 201
(Attention: Public Welfare Section)

Attached is the report on the above subject.

Jokichi Kodaira
JOKICHI KODAIRA
Governor,
Tochigi Prefecture

JK/Fire & Disasters Prevention Sect/cy-ki



Investigation into Damage done by storm
during August (intermediate)

As of 1 Aug. '50
at 17:00

Fire & Disasters Prevention Sect.,
Tochigi Prefecture

Cities and gun-districts Damages	Kawachi	Kamitsuga	Haga	Shimotsuga	Shioya	Southern Nasu	Utsunomiya- shi	Kenuma- shi	Total
Damage on residences									
Partially damaged									
Doors							1		1
No. persons							5		5
Flooded over floor									
Doors							1	140	141
No. persons							5	700	705
Flooded under floor									
Doors		60	21	47		1	76	372	577
No. persons		240	105	241		4	324	1,680	2,594
Total									
Doors		60	21	47		1	78	512	719
No. persons		240	105	241		4	334	2,380	3,304
Damage on non-residences									
Flooded over floor									
			14					5	5
Flooded under floor									
			14					20	34
Total									
			14					25	39
Paddy & up-land field									
Paddy field									
Flooded partially (Cho)			200	78					278
Over-flooded (Cho)	0.5	5.0	136.	294.5		93			529
Washed away (Cho)			2						2
Buried under mud (Cho)			2						2
Total									
	0.5	5.0	340.	372.5		93			811
Upland field									
Flooded partially (Cho)			20.	21.					41
Over-flooded (Cho)			2	233.5		5			240.5
Washed away (Cho)			2						2
Buried under mud (Cho)			2						2
Total									
			26	254.5		5			285.5
Damage on road									
National & Pref. highways									
Flooded	Places	2	17	7					26
	Extention (m.)	200	4,550	170					4,920
Burst	Places	3	2	2	1				8
	Extention (m.)	110	20	15	10				155
Buried	Places	2							2
	Extention (m.)	60							

Over-flooded	(One)								240.5
Washed away	(One)								2
Buried under mud	(One)								2
Total	(One)								285.5
Damage on road									
National & Prof. highways									
Flooded	Places	2	17	7					26
	Extention (m.)	200	4,550	170					4,920
Buried	Places	3	2	2	1				8
	Extention (m.)	110	20	15	10				155
Buried	Places	2							2
	Extention (m.)	80							80
City, town & village road									
Flooded	Places		1						1
	Extention (m.)		1,110						1,110
Buried	Places		1				1		2
	Extention (m.)		10				10		20
Total	Places	2	21	7					30
	Extention (m.)	200	5,660	170					6,090
Buried	Places	3	2	2	1		1		10
	Extention (m.)	110	20	15	10		10		155
Buried	Places	2							2
	Extention (m.)	80							80
Damages on bridges highways									
Bridges on National & Prof.									
Washed away	Places	2							2
	Extention (m.)	12							12
Bridges on city, town & villages road									
Washed away	Places		2	2					4
	Extention (m.)		24	90					114
Total	Places	2	2	2					6
	Extention (m.)	12	24	90					126
Damages on dikes									
Dikes borne by prof. expenditures									
Out off	Places	1			1	2			7
	Extention (m.)	680			55	15			780
Dikes borne by cities, towns or villages expenditure									
Out off	Places	3	1				1		5
	Extention (m.)	380	10				20		410
Collaps- ed down	Places						1		1
	Extention (m.)						10		10
Total	Places	3	1		1	2		1	12
	Extention (m.)	380	610	10	55	15		20	1,190
Collaps- ed down	Places						1		1
	Extention (m.)						10		10

(To be continued)

Action

zph

TOCHIGI PREFECTURAL GOVERNMENT

Utsunomiya City, Tochigi prefecture.

Ref. No. 749
19 June 1950

SUBJECT: Report of flood damages

TO : Chief,
Headquarters Kanto Civil Affairs Region,
APO 201
(Attention: Public Welfare Section)

Submitted herein enclosed is on the above
subject as of 17:00, 16 June 1950.

Jukichi Kodaira
JUKICHI KODAIRA
Governor, Tochigi Prefecture

JK/Shobo-Saigai-ka/tt-ki



DAMAGES done by Flood
 during 9 to 14 June

As of 17:00, 16 June 1950

Fire Prevention and Disaster Section,
Tochigi Prefecture

1. On human beings, buildings, paddy and upland field.

Cities and gun-districts	Kawachi	Kamitsuga	Haga	Shimo- tsuga	Shioya	Nesu	Minami- Nesu	Aso	Ashikaga	Utsuno- miya	Tochigi	Sano	Total
Human beings													
Total number of sufferers							1						1
Dead													
Missing													
Seriously injured													
Slightly injured													
Total							1						1
Buildings													
Dwelling houses													
Totally damaged													
No. of doors			3				3						6
No. of sufferers													
Estimated amount of damages													
Washed away													
No. of doors													
No. of sufferers													
Estimated amount of damages													
Partially damaged													
No. of doors			4				3						7
No. of sufferers													
Estimated amount of damages													
Total													
No. of doors			7				6						13
No. of sufferers													
Estimated amount of damages													
Flooded buildings													
Over the floor													
No. of doors			51	3			11		1		169		235
No. of sufferers													
Under the floor													

Over flooded	1		138	30	1		5		24	1		200
	150		28,934	4,200	5,000				14,636	100		53,020
Washed away	1	1	14	1	3	1	2					21
	15	32	32	30	7	3.5	3.5					87.5
Destroyed	1		30	1	1		71					104
	30		279	5	15							329
Land slide on road		2	38			3	21					64
		20	845			340						1,205
Total	3	3	220	32	5	4	99		24	1		393
Estimated amount of damages	195	52	30,058	4,235	5,022	343.5			14,636	100		54,541.5
Bridge												
Intentionally tore down			2	3					8	1		14
Fell down			14									14
Washed away			20		4	1	6		3			34
Destroyed						1	7					8
Submerged		1	2	2								5
Total		1	38	5	4	2	13		11	1		75
Estimated amount of damages												
Dikes												
Cut off	2	6	62	2		4	297	5			1	379
	30	460	425	500		28.6	7,670	103			20	9,236.6
Collapsed down				3		3		2	2			10
				13		70		25	35			143
Total	2	6	62	5		7	297	7	2		1	389
	30	460	425	513		98.6	7,670	128	35		20	9,379.6
Forestry												
Devastated forest		260cho										260 cho
Flooded forestry paths		7,500m										7,500m
Others												
Overflooded railroad tracks			1									1
			50m									50m

Remarks: Upper figures in the columns of destroyed roads and bridges show the number of places, while lower figures in the same columns show the extent.

TOCHIGI PREFECTURAL GOVERNMENT

Utsunomiya City, Tochigi prefecture.

Ref. No. 939
9 August 1950

SUBJECT : Survey of the Damage Caused by
Rainfall (Intermediate Report)

TO : Chief, Headquarters,
Kanto Civil Affairs Region
APO 201
(Attention: Public Welfare Section)

Enclosed is the survey of the damage
caused by rainfall for 3 August thru 6 August,
investigated as of 17:00 7 August.

702
Jukichi Kodaira
JUKICHI KODAIRA
Governor
Tochigi Prefecture

JK/Liaison Sec/kk-kk

Blund
12 Aug 50
1000
AKK

Received
K. L. C. O.
25. 8. 11
TIME

SURVEY OF THE DAMAGE CAUSED BY RAINFALL
For 3 August thru 6 August

(Intermediate report)

As of 17.00 7 August

Fire and Disaster Prevention Section

1. Damage on building

(1) Residence

	Number	Estimated loss (Yen)
Washed away	1	150,000
Flooded over floor	364	3,640,000
Flooded under floor	3,166	6,332,000
Total	3,531	10,122,000

(2) Non-residence

Flooded over floor	58	290,000
Flooded under floor	404	404,000
Total	462	694,000

Total of the damage on building	3,993	10,816,000
---------------------------------	-------	------------

2. Damage on Agricultural land

(1) Paddy field

	CHO	Estimated loss (Yen)
Flooded	3,394.6	84,865,000
Overflooded	2,660.2	66,505,000
Washed away	25.0	625,000
Buried	30.9	772,500
Total	6,110.7	152,767,500

(2) Upland field

Flooded	1,812.3	27,184,500
Overflooded	977.5	14,665,000
Washed away	13.0	195,000
Buried	12.8	192,000
Total	2,721.1	42,236,500

Total of damage on agricultural land	8,831.8	195,004,000
--------------------------------------	---------	-------------

3. Damage on civil engineering installations

	Places	Loss Estimated (Yen)
1. Road	207	63,869,000
2. Bridges	54	76,140,000
3. Rivers	541	572,124,000
(Besides, rivers under management of Construction Ministry) (4)		(27,780,000)
4. Torrential control installation	17	5,820,000
5. Civil engineering installation borne by town or village budget	104	37,696,000
Total	923	755,649,000

GRAND TOTAL¥ 961,469,000

Remarks :

1. This table shows the summed up total of the intermediate reports.
2. This table does not contain the damage on the forests, farm-land engineering concerns and public establishments which are still under investigation.

Tochigi Prefectural Office
of
~~Ippp/Al~~ Japanese Government
Utsunomiya City, Tochigi Pref.

Ref. No. 18
5 January 1950

SUBJECT: Report on the earthquake disaster
TO: Chief,
Headquarters Kanto Civil Affairs Region,
APO 201

With reference to the earthquake disaster occurred on 26 December 49 centering around Imaichi-machi in this prefecture, we appreciate very much for your sympathy and kindness accorded to us.

We enclose herewith the results of our investigation on the damages as of 5 January 50.

Your understanding and continued guidance in that connection will be much appreciated

for Akira Kamei
JUKICHI KODAIRA
Governor,
Tochigi Prefecture

J K/Shogai-ka/tt-hk

Summary of the earthquake damages

As the result of the earthquake which occurred on the morning of 26 December 49 centering around Imaichimachi in Tochigi Prefecture covering two towns and eight villages in its neighborhood, eight persons were killed in addition to one hundred and sixty-five people missing and injured. As for the houses either for living or non-living, the damage reached to the level of six thousand five hundred and seventy-seven including total, half and slight degrees. If the buildings other than the above houses and were slightly damaged be included in counting, total figure of the sufferers comes up to twenty-nine thousand six hundred and eleven persons. The damages re the above are estimated as worth of ¥2,292,285,000. If again the damages on civil engineering, growing land, forestries, railroad facilities and so forth be taken into an account, the total estimate of the damages amounts to ¥2,968,846,780. Such prodigious damages prove to be never recorded in this prefecture. Fortunately amidst the misfortune, however, there caused no fire in the earthquake.

The Governor has been taking lead in working out relief-measures and encouraging the people in the shake-stricken areas, and on the other hand he set up the Earthquake Disaster Provision Headquarters in the Prefecture in parallel with the Earthquake Provision Headquarters Office of the Prefectural Assembly, respectively to be charged with relief and restoration activities on the disaster.

Separately enclosed are the results of our investigation.

ESTIMATED DAMAGES
ON
THE EARTHQUAKE
BROKE OUT ON 26 DEC. 49
IN
TOCHIGI PREFECTURE

As of 5 January 50.

Tochigi Prefecture

Index

1. Human damages (specified in the separate list covering human and housing damages either in living and non-living houses)
2. Damages on facilities
 - (1) Damages on general facilities
 - (2) Damages on public facilities
3. Damages on ----> civil engineering
 - (1) Under supervision of the Prefecture
 - (2) Under supervision of towns and villages
4. Damages on ----> growing land
5. Damages on ----> forestries
6. Damages on ----> city water
7. Damages on railroad
8. Damages on communications facilities
9. Damages on electric facilities
10. Damages on national treasures
11. Synthetic table on damages worth of year
12. Rough picture showing the damages

1. Human damages.

	Total	Breakdown	
		Male	female
Killed	8	4	4
Missing	2	1	1
Injured	163	Severely	Slightly
Total	173	4	158

2. Damages on facilities (Worth of ¥2,292,285,000)

(1) Damages on general facilities.

	Living houses		
	<u>Doors</u>	<u>Worth of yen</u>	<u>Sufferers</u>
Totally destroyed	334	388,930,000	1,668
Half destroyed	3,069	744,185,000	15,352
Slightly destroyed	2,917	256,504,000	12,591
<u>Total</u>	<u>6,320</u>	<u>1,389,619,000</u>	<u>29,611</u>
	Non-living houses		
Totally destroyed	1,690	536,747,000	
Half destroyed	1,484	243,865,000	
Slightly destroyed	2,337	71,236,000	
<u>Total</u>	<u>5,511</u>	<u>851,848,000</u>	
<u>Grand total</u>	<u>11,831</u>	<u>2,241,467,000</u>	<u>29,611</u>

Note: Names of the towns and villages damaged;

Kamitsuga-gun

Imaichi-machi, Itaga-mura, Ochiai-mura,
Nishi-Oashi-mura, Okorogawa-mura and Nikko-machi

Kanuma-shiKAWACHI-GUN

Toyooka-mura, Shinoi-mura and Osawa-mura

Shioya-gun

Funyu-mura

(2) Public facilities

(1) Under the supervision of the Prefecture.

Prefectural schools	:	¥ 1,450,000
Health centers	:	¥ 2,000,000
Livestock health centers:	¥	30,050,000
Board drying plant	:	¥ 3,070,000
<u>Total</u>	:	<u>¥ 6,550,000</u>

(2) Under the supervision of towns and villages.

Schools under the supervision of
towns and villages:

	¥	12,093,000
Town and village offices:	¥	30,264,000
Agricultural Cooperative Associations:	¥	1,911,000
Total	¥	44,268,000
<u>Grand total</u>		<u>¥ 50,818,000</u>

Estimated Damages on Lives,
Living Houses and Non-living Houses.

As of 5 January 1950

Towns & Villages Description	Kawatsuge-gun							Kawachi-gun		Shiroya-gun		Total
	Imaichi- machi	Itaga- mura	Ochiai- mura	Nishioashi- mura	Okorogawa- mura	Nikko- machi	Kanuma- shi	Toyooka- mura	Osawa- mura	Shinoi- mura	Funyu- mura	
Classification of damages												
Human damages												
Killed	5		1	1							1	8
Missing						1		1				2
Injured												
Severely	1		2								1	4
Slightly	153		3								3	159
Total	159		6	1		1		1			5	173
Damages on living houses												
Totally destroyed												
Doors	235		49	4	16	18		10	1		1	334
Worth of yen	352,500		19,600	200	7,950	5,400		3,120	110		50	388,930
Heads	1,175		227	23	88	92		54	5		4	1,668
Half destroyed												
Doors	2,865	8	56	6	6	53		62	10	2	1	3,069
Worth of yen	716,250	1,200	8,400	960	780	11,130		3,925	1,210	300	30	744,185
Heads	14,295	45	285	32	32	265		328	54	6	10	15,352
Slightly destroyed												
Doors	506	164	732	450	180	226		99	548	2	10	2,917
Worth of yen	75,900	3,280	14,640	63,200	1,600	20,300		1,117	76,300	40	127	256,504
Heads	2,530	825	3,486	225	720	1,140		632	2,967	6	60	12,591
Total												
Doors	3,606	172	837	460	202	297		171	559	4	12	6,320
Worth of yen	1,144,650	8,480	42,660	64,360	10,330	36,830		8,162	77,620	340	207	1,389,619
Heads	18,000	870	3,998	280	840	1,499		1,014	3,026	12	74	29,611

	247-75	45	209	32	32	285	328	34	6	10	15,352	
<u>Slightly destroyed</u>												
Doors	506	164	732	450	180	226		99	548	2	10	2,917
Worth of												
yen	75,900	3,280	14,640	63,200	1,600	20,300		1,117	76,300	40	127	256,504
Heads	2,530	825	3,486	225	720	1,140		632	2,967	6	60	12,591
<u>Total</u>												
Doors	3,606	172	837	460	202	297		171	559	4	12	6,320
Worth of												
yen	1,144,650	8,480	42,660	64,360	10,330	36,830		8,162	77,620	340	207	1,389,619
Heads	18,000	870	3,998	280	840	1,499		1,014	3,026	12	74	29,611

Damages on non-living houses

<u>Totally destroyed</u>												
Doors	1,040	28	126	13	5	32		32	395	2	17	1,690
Worth of												
yen	416,000	5,600	25,200	293	750	5,120		6,440	76,600	400	344	536,747
<u>Half destroyed</u>												
Doors	918	51	57	20	25	110	11	125	130	8	29	1,484
Worth of												
yen	186,000	4,080	4,560	750	3,400	11,000	220	11,341	21,000	640	874	243,865
<u>Slightly destroyed</u>												
Doors	362	189	537	132	185	224	78	260	297	12	61	2,337
Worth of												
yen	36,200	9,450	2,685	4,950	1,500	8,960	16	1,189	5,300	60	426	71,236
<u>Total</u>												
Doors	2,320	286	720	165	215	366	89	417	822	22	101	5,511
Worth of												
yen	638,200	19,130	32,445	5,993	5,650	25,080	236	19,470	102,900	1,100	1,644	851,848
<u>Protection needy among sufferers</u>												
Doors	16				5							21
Heads	64				26							90

Remarks: Number of doors stands on the basis of a family
 Yen figures stand on the unit of ¥ 1,000.
 Figures of sufferers are on the unit of head.

3. Damages on civil engineering

(1) Under direct supervision of the Prefecture

(a) Roads	85 places damaged	Worth of ¥ 54,758,500
(b) Bridges	14 "	¥ 3,153,000
(c) Rivers	10 "	¥ 19,300,000
(d) Miscellaneous		¥ 4,107,000
<u>Total</u>		<u>¥ 81,315,500</u>

(2) Under supervision of towns and villages.

(a) Roads

<u>Town or village</u>	<u>Places damaged</u>	<u>Total extention (kms.)</u>	<u>Estimated worth of Yen</u>
Imaichi-machi	2	450	¥ 677,000
Nikko-machi	6	1,900	1,480,000
Itaga-mura	7	250	120,000
Ochisi-mura	33	440	192,000
Toyooka-mura	5	125	1,211,000
Osawa-mura	5	164	300,000
Shinoi-mura	-	-	-
Nishi-Oashi-mura	5	130	800,000
Okorogawa-mura	6	250	850,000
<u>Total</u>	<u>69</u>	<u>3,709</u>	<u>5,830,000</u>

(b) Bridges

<u>Town and village</u>	<u>Places damaged</u>	<u>Total extention (kms.)</u>	<u>Worth of Yen</u>
Nishi-Oashi-mura	3	170	¥ 509,000
Itaga-mura	4	29	980,000
Ochisi-mura	2	27	490,000
Imaichi-machi	4	57	742,000
Toyooka-mura	6	48	1,645,000
Ogawa-kura	4	15	400,000
<u>Total</u>	<u>23</u>	<u>346</u>	<u>4,766,000</u>

Damages on growing land

	<u>Kawachi-gun</u>			<u>Kamitsuga-gun</u>			
	<u>Osawa-mura</u>	<u>Shinoi-mura</u>	<u>Toyooka-mura</u>	<u>Imaichi-machi</u>	<u>Nikko-machi</u>	<u>Itage-mura</u>	<u>Ochi</u>
<u>Agricultural land</u>							
Acreage (ten)	926	36	267	560	29	5	
Worth of yen	3,563,800	282,000	1,535,000	5,176,000	2,990,000	50,000	9,07
<u>Agricultural paths</u>							
Acreage (ken)	1,437	-	184	1,502	1,594	-	
Worth of yen	685,000	-	23,600	315,500	1,080,000	-	
<u>Irrigation routes</u>							
Acreage (ken)	2,802	-	922	-	890	-	
Worth of yen	3,862,000	-	1,548,000	-	870,000	-	6,91
<u>Dykes EXTENSION</u>							
Acreage (ken)	317	-	50	1,790	-	209	
Worth of yen	464,600	-	167,000	3,912,200	-	390,000	
<u>Tunnels EXTENSION</u>							
Acreage (ken)	1,585	24	-	1,570	-	350	
Worth of yen	5,114,000	120,000	-	4,605,000	-	2,500,000	2,00
<u>Wells and adjusting valves</u>							
Acreage (each)	6	1	1	15	-	-	
Worth of yen	740,000	200,000	250,000	1,865,000	-	-	500
<u>(Agricultural paths)</u>							
<u>Agricultural bridges</u>							
Acreage (each)	7	-	8	26	-	1	
Worth of yen	443,000	1,490,000	1,490,000	1,068,000	-	200,000	450
<u>Conduit pipes</u>							
Acreage (each)	-	1	-	-	-	1	
Worth of yen	-	500,000	-	-	-	30,000	
<u>Syphons</u>							
Acreage (each)	-	-	-	-	1	-	
Worth of yen	-	-	-	-	800,000	-	
<u>Gate of conduit pipes</u>							
Acreage (each)	-	-	1	-	-	-	
Worth of yen	-	-	170,000	-	-	-	
<u>Drainage</u>							
Acreage (each)	-	-	-	-	-	-	
Worth of yen	-	-	-	-	-	-	20,
<u>Reservoir</u>							
Acreage (each)	-	-	-	-	-	-	
Worth of yen	-	-	-	-	-	-	
<u>TOTAL</u>							

Damages on growing land

Tochigi Prefecture
(As of 4 January, 1950)

Kamitsuga-gun

<u>Nikko-machi</u>	<u>Itage-mura</u>	<u>Ochiai-mura</u>	<u>Okorogawa-mura</u>	<u>Nishioashi-mura</u>	<u>Higashiashi-mura</u>	<u>Shiroya-gun Funyu-mura</u>	<u>Total</u>
29 2,900,000	5 50,000	1,030 9,070,000	20 35,000	90 382,880	280 1,424,700	-	3,243 22,449,380
1,594 1,080,000	-	-	-	-	87 207,000	-	3,804 2,311,100
890 870,000	-	1,540 6,910,000	675 966,250	165 300,000	406 369,000	55 300,000	6,855 15,125,250
-	209 390,000	-	-	-	-	-	2,366 4,933,800
-	350 2,500,000	275 2,000,000	-	-	-	100 1,000,000	3,908,904 15,339,000
-	-	1 500,000	-	-	-	-	24 3,555,000
-	1 200,000	2 450,000	-	-	2 200,000	-	46 3,851,000
-	1 30,000	-	-	-	-	-	2 80,000
1 100,000	-	-	-	-	-	-	1 800,000
-	-	-	-	-	-	-	1 170,000
-	-	1 20,000	-	-	1 50,000	-	2 70,000
-	-	-	-	1 35,000	-	-	1 35,000

	<u>Kawachi-gun</u>					<u>Kamitsuga-</u>
	<u>Osawa-mura</u>	<u>Shinai-mura</u>	<u>Toyooka-mura</u>	<u>Inaichi-machi</u>	<u>Nikko-machi</u>	<u>Itaga-mura</u>
TOTAL						
Acreage (ten)	926	36	267	560	2929	5
(each)	13	2	10	41	1	2
(ken)	5,541	24	1,156	4,862	1,484	559
Worth of yen	14,872,400	652,000	5,183,600	16,941,700	5,650,000	3,170,000

Kamitsuga-gun						Shioya-gun		Total
Utsunomiya-machi	Itaga-mura	Ochiai-mura	Okorogawa-mura	Nishioashi-mura	Higashioashi-mura	Funyu-mura		
2929	5	1,030	20	90	280		3,243	
1	2	4	675	1	3		77	
1,484	559	1,815		165	493	15555	16,929	
50,000	3,170,000	18,950,000	1,001,250	717,880	2,250,700	1,300,000	70,689,530	

5. Damages on forestries.

Towns and Villages Description	Kamitsuga-gun						Ka
	Inaichi-machi	Ochiai-mura	Nishioashi- mura	Higashioashi- mura	Itaga-mura	Okorogawa- mura	
Forestry products							
Board							
Timber (koku)							
(yen)							
Lumber (koku)							
(yen)							
Bamboo (bundle)							
(yen)							
Charcoal (kg)							
(yen)							
Firewood (bundle)							
(yen)							
Firewood (kg.)							
for gas making							
(yen)							
Total (yen)							
Productive facilities							
Charcoal (each)	10	15	6	2	11	10	
furnace (yen)	80,000	120,000	47,000	16,000	88,000	80,000	240
Make-shift (each)							
charcoal (yen)							
store							
Lumber (each)							
mill (yen)							
Carry-out (m.)	9,600	112,000	7,900		4,700	17,500	
route (yen)	182,000	211,500	143,000		83,500	334,000	
Equipments and (ea)							
machinery (yen)							
Forestry (m.)	2,000	4,530	1,200		1,400	4,420	
paths (yen)	844,000	2,100,000	553,000		458,000	1,501,000	
Total (yen)	1,106,000	2,431,500	644,000	16,000	629,500	1,915,000	40
Growing trees (koku)	16,000	4,000	100			50	
(yen)	2,850,000	750,000	15,000			7,500	
Devastated forestry land							
Newly formed (cho)	462.0	210.0	80.0		22.0	115.0	
land (yen)	209,600,000	108,000,000	32,000,000		11,600,000	44,000,000	
Former land (cho)							
(yen)							
Total (yen)	209,600,000	108,000,000	32,000,000		11,600,000	44,000,000	
Grand total (yen)	213,556,000	111,181,500	32,659,000	16,000	12,229,500	45,922,500	40

on forestries.

taga-mura	Okorogawa-	Kase-mura	Nikko-machi	Kawachi-gun		Shioya-gun		Total
	mura			Osawa-mura	Shinoi-mura	Toyooka-mura	Funyu-mura	
					450	975		1,425
					4,500	9,750		14,250
					4,500	9,750		14,250
11	10	5	25	25	8	7		131
8,000	80,000	240,000	250,000	200,000	54,000	51,000	56,000	1,083,000
						1		1
						20,000		20,000
				2	2	2		6
4,700	17,500			32,000	25,000	2,900,000		2,957,000
3,500	334,000		22,100	420,000				73,000
								1,374,000
1,400	4,420		3,170	1,170	900	1,150		19,950
8,000	1,501,000		2,463,000	412,000	300,000	409,000		9,000,000
2,500	1,915,000	40,000	3,133,000	644,000	439,000	3,380,000	56,000	14,434,000
	50		30,000					50,150
	7,500		5,250,000					8,872,500
22.0	115.0		52.4					941.4
0,000	44,000,000		33,920,000					439,120,000
0,000	44,000,000		33,920,000					439,120,000
500	45,922,500	40,000	42,303,000	644,000	443,500	3,389,750	56,000	462,440,750

6. Damages on city water facilities
(Utsunomiya city)

<u>Description</u>	<u>Damages worth of Yen</u>	<u>Remarks</u>
Filter beds	3,600,000	Bed No.1, 2, and 3
Settling mains	3,800,000	Main No.1 and 2
Rebuilding work for conduit pipes	2,220,000	
Restoration work for water conduit	1,412,000	
Restoration work for conduit well and valves	38,000	
Stone gate	180,000	
Remodelling work for office	350,000	
Connection wells	400,000	2 places
<u>Total</u>	<u>10,000,000</u>	

7. Damages on railroads (Worth of ¥ 26,260,000)

<u>Description</u>	<u>Damages worth of yen</u>	
	<u>Nikko Line, Government Railroad</u>	<u>Nikko Line, Tobu Tramcar Roads</u>
Railroad maintenance	10,000,000	5,000,000
Building facilities	6,800,000	3,500,000
Electric facilities	500,000	
Communications facilities	400,000	
Signal facilities	60,000	
<u>Total</u>	<u>17,760,000</u>	<u>8,500,000</u>

8. Damages on communications facilities.

<u>Description</u>	<u>Each</u>	<u>Worth of yen</u>
Telegraph poles	732	1,500,000
Electric wire	69	1,500,000
Switchboards	2	180,000
Telephones	220	480,000
<u>Total</u>		<u>2,260,000</u>

9. Damages on electric facilities

<u>Description</u>	<u>Each</u>	<u>Worth of yen</u>
Power houses	3	5,000,000
High power wire	3,815 ms.	} 1,500,000
Electric poles	80	
Transformers	77	
<u>Total</u>		<u>6,500,000</u>

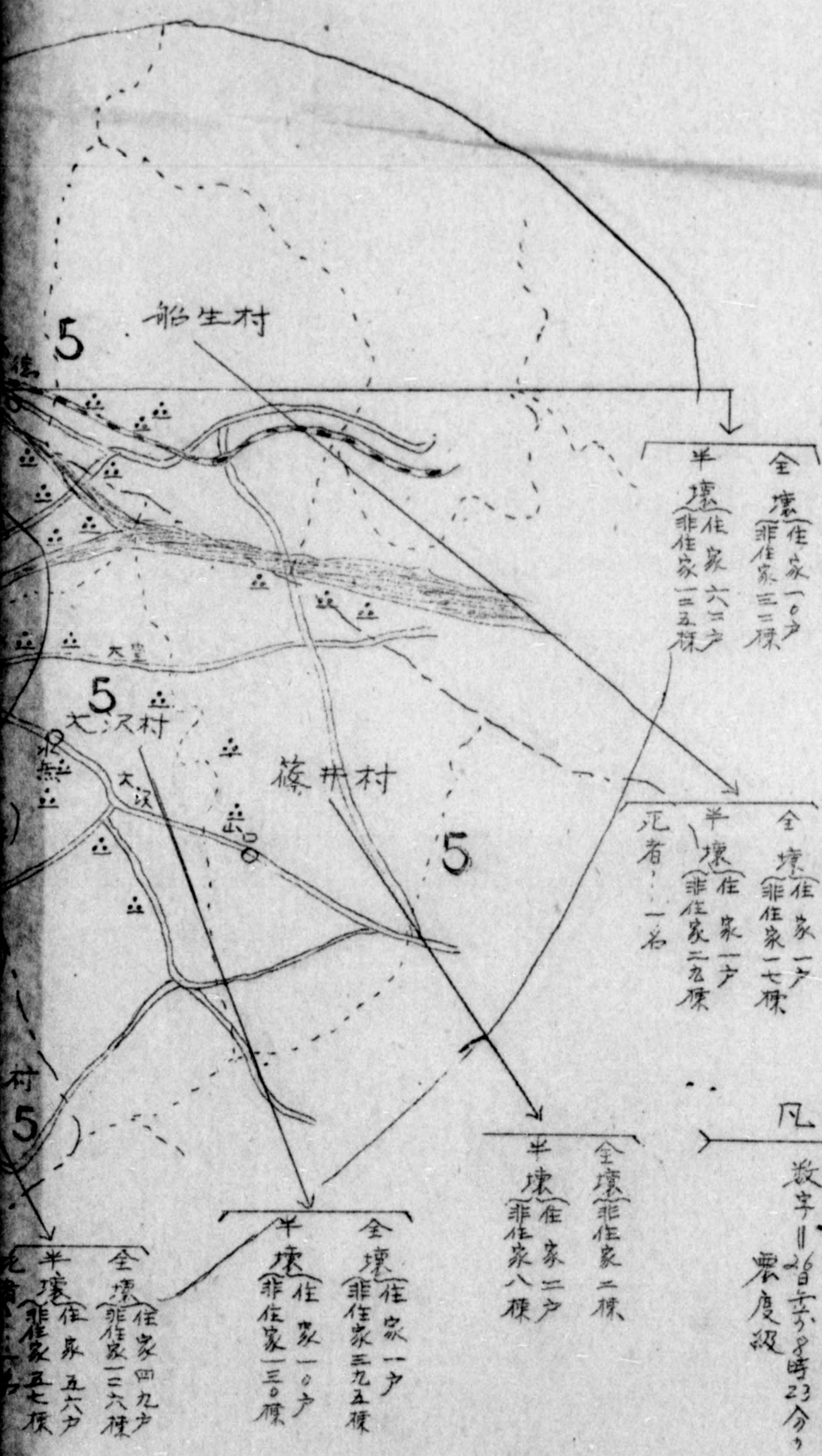
10. Damages on the national treasures

<u>Description</u>	<u>Worth of yen</u>
Toshogu shrine	4,000,000
Futarasan shrine	500,000
Rinnoji temple	2,000,000
<u>Total</u>	<u>6,500,000</u>

11. Combined table on the damages.

<u>Description</u>	<u>Worth of year</u>
Buildings	2,292,285,000
Civil engineering	91,911,500
Growing land	70,689,530
Forestries	462,440,750
City water	10,000,000
<u>Total</u>	<u>2,927,326,780</u>
Railroads	26,260,000
Communications facilities	2,252,260,000
Electric facilities	6,500,000
National treasures	6,500,000
Total	41,520,000
<u>Grand total</u>	<u>2,968,846,780</u>

柿木震災被害概況圖



全壞 住家一〇戸
 (非住家三棟)
 半壞 住家六二戸
 (非住家一三五棟)

全壞 住家一戸
 (非住家一七棟)
 半壞 住家一戸
 (非住家二九棟)
 死者 一名

全壞 非住家二棟
 半壞 住家二戸
 (非住家八棟)

全壞 住家一戸
 (非住家三九五棟)
 半壞 住家一〇戸
 (非住家三〇棟)

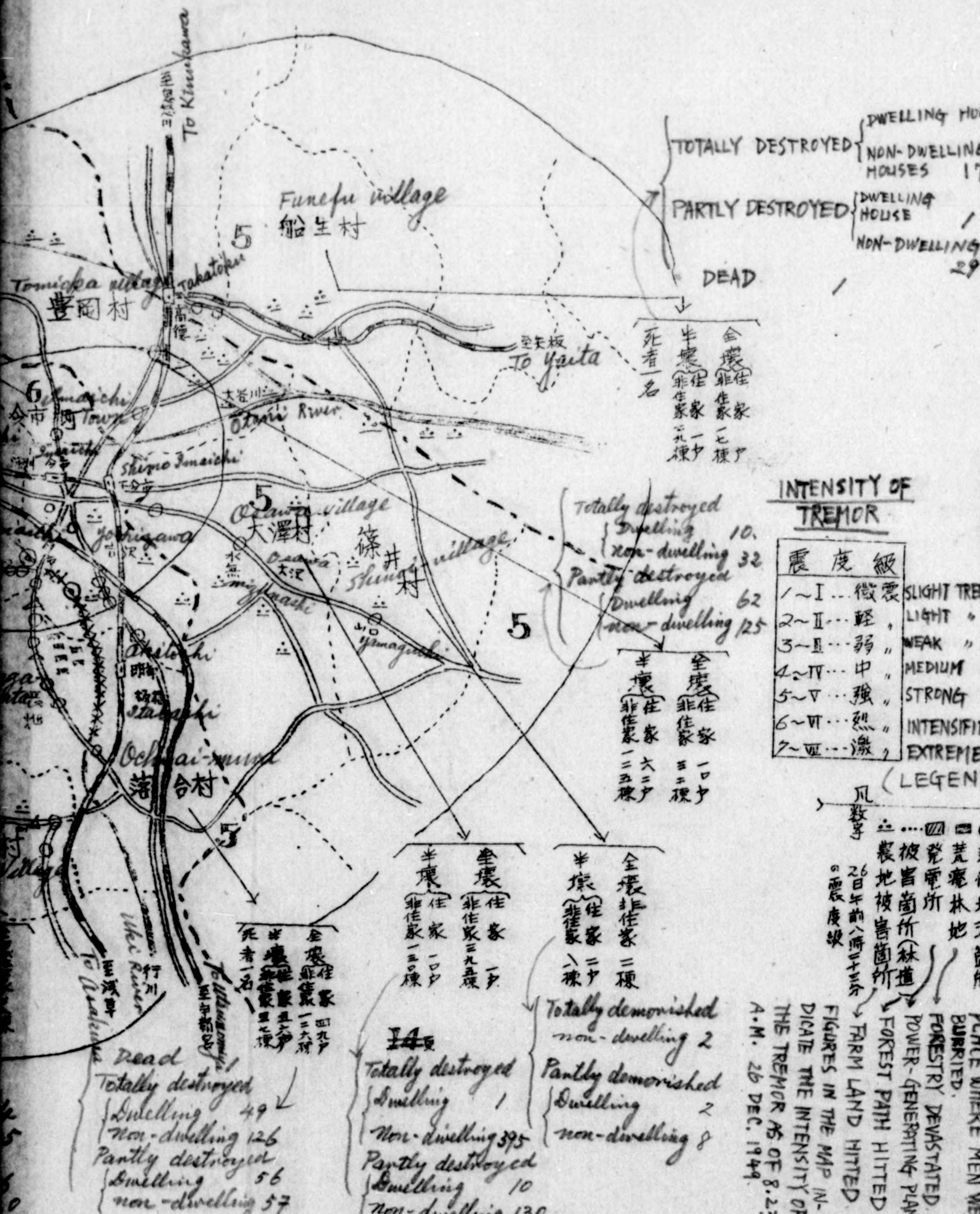
全壞 住家四九戸
 (非住家二二六棟)
 半壞 住家五六戸
 (非住家五七棟)

震度級	
1~I	微震
2~II	輕
3~III	弱
4~IV	中
5~V	強
6~VI	烈
7~VII	激

- 例
- 道路被害所
 - △ 橋梁
 - × 河川
 - ◎ 死体埋没所
 - ⊗ 荒廢林地
 - ⊠ 発電所
 - ⊡ 被害林道
 - ▲ 農地被害所 (農地、農道、水路)
 - ▲ 農地被害所 (農地、農道、水路)
- 数字 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
- 震度級

MAP INDICATING THE STATUS OF DAMAGE CAUSED BY TOCHIGI EARTHQUAKE

栃木震災被害概況圖



INTENSITY OF TREMOR

震度級	例	震度級	例
1~I	微震	SLIGHT TREMOR	○ 道路被害箇所
2~II	軽	LIGHT "	△ 橋梁
3~III	弱	WEAK "	× 河川
4~IV	中	MEDIUM "	○ 死体埋没箇所
5~V	強	STRONG "	○ 荒廃林地
6~VI	烈	INTENSIFIED "	○ 被官箇所 (林地)
7~VII	激	EXTREMELY STRONG "	○ 農地被害箇所

(LEGEND)

- 道路被害箇所
- △ 橋梁
- × 河川
- 死体埋没箇所
- 荒廃林地
- 被官箇所 (林地)
- 農地被害箇所
- 26日午前8時33分 震度級
- 道路被害箇所
- 橋梁
- 河川
- 死体埋没箇所
- 荒廃林地
- 被官箇所 (林地)
- 農地被害箇所
- 26日午前8時33分 震度級
- 道路被害箇所
- 橋梁
- 河川
- 死体埋没箇所
- 荒廃林地
- 被官箇所 (林地)
- 農地被害箇所
- 26日午前8時33分 震度級

FIGURES IN THE MAP INDICATE THE INTENSITY OF THE TREMOR AS OF 8.23 A.M. 26 DEC. 1949.

TOCHIGI PREFECTURAL OFFICE
OF
~~IMPERIAL~~ JAPANESE GOVERNMENT
UTSUNOMIYA CITY, TOCHIGI PREF.

Ref. No. 2,124.

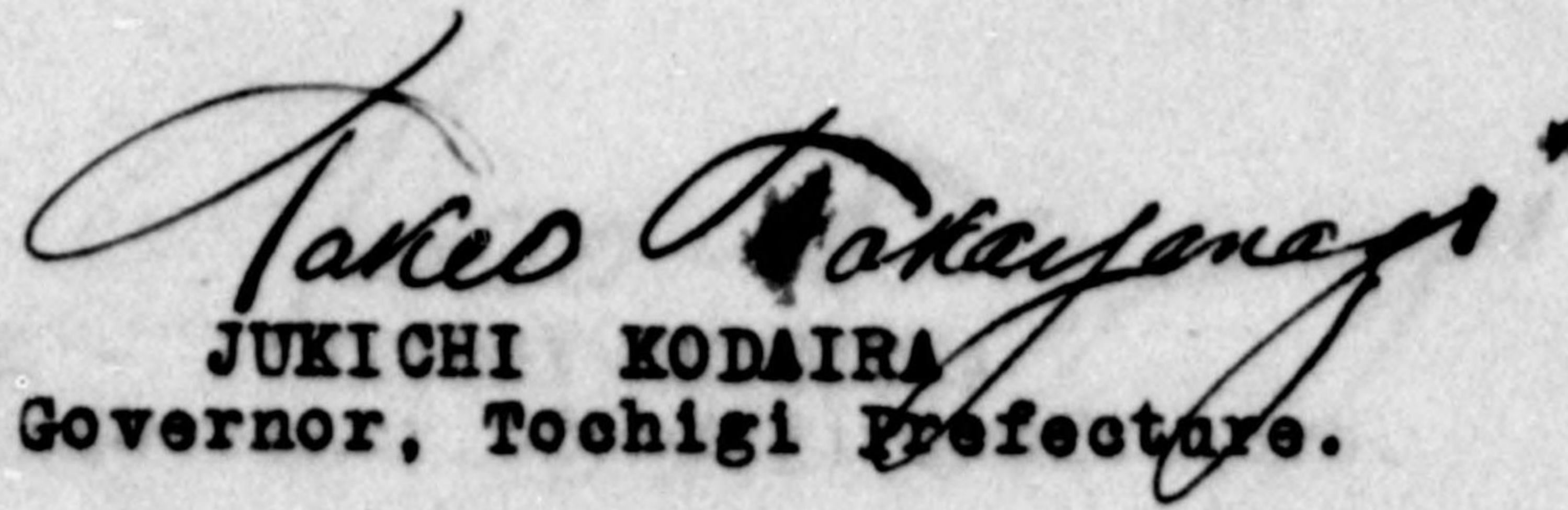
28 December, 1949.

SUBJECT: Earthquake disaster in whole area of
Tochigi Prefecture.

TO: ✓ Headquarters Kanto Civil Affairs Region.
C. I. C., Tochigi Area.

Enclosed herewith is the report on the earthquake damages done by the shake on the early morning of 26 this month in the whole area of Tochigi Prefecture in which Imaichi town near Nikko was the seismic center.

It was lucky amidst the misfortune that no other portions of this prefecture except Imaichi and its neighboring several villages sustained almost no damage.

702 
JUKICHI KODAIRA
Governor, Tochigi Prefecture.

JK/Shogai-ka/TT

Summary of Earthquake Damages in Tohigi Pref.

Beginning Dec. 26 at 6:43 a.m. earthquakes broke out covering whole area of Kanto district, and the 3rd shock at 8:23 a.m. was the most severe, having its seismic center around Imaichi-machi, this prefecture and has caused a considerably heavy damage to the same town and neighboring towns and villages. Due to the after-shocks coming upon without ceasing, the town dwellers of Imaichi-machi were driven out of the houses to the road, for the all night, and the danger is not over yet. But the people's mind, under such danger, is very calm and secured. The earth-quake was the biggest one among those which ever had seismic center in this Prefecture since 1683 when a big earthquake broke out in Nikko-machi; but quite fortunately the fire did not happen so the damage on the human, domestic animals and houses was a small one.

The total loss revealed by now amounts ¥ 1,345,970,000 of which the details are shown in the attached sheets. The prefectural authorities are taking the prudential measures for the relief of the sufferers and restoration of the damages; in addition to the prompt relief measures to distribute relief goods and to dispatch the relief-men of Japan Red Cross, the prefecture held a conference of all members of Pref. Assembly on 28th to render the complete relief measures.



SHOCK FELT AT
Utsunomiya Meteorological Observatory

Note: 1 ----- slight shock 4 ----- medium shock
 2 ----- minor shock 5 ----- severe shock
 3 ----- faint shock 6 ----- violent shock
 (degrees of figure represent the severeness of shock)

25 December

26 December

Time
19:26

Shock
2

Time
6:43
8:17
8:23

Shock

2
3
6 (at Imaichi area)
4 (at Utsunomiya area)

8:26	2
8:31	2
8:34	1
8:37	2
8:47	1
8:55	1
9:02	1
9:43	1
9:49	1
9:52	1
10:01	1
10:02	1
10:02	2
10:12	2
10:51	1
11:59	0
13:03	1
14:13	1
15:23	1
17:27	1
17:40	1
19:16	2
19:39	1
21:56	1

Danages to Utsunomiya City Water Works

1. Damaged facilities

- | | | |
|---|--|-------------|
| 1) Water leading pipe; | Inlet (in Imaichi-machi) through water storing well, 3 spots | ¥ 100,000 |
| 2) Water storing well; | Cracked | ¥ 500,000 |
| 3) Settling pond | : Cracked and stone-works of upper part collapsed at two faces | ¥ 2,850,000 |
| 4) Filtering well; | Cracked (includes Joint well) three faces | ¥ 600,000 |
| 5) Office building and stone-fence collapsed and others | | ¥ 600,000 |
| 6) Joint well for water-leading pipe; | Roof collapsed, No.1 and No. 2 | ¥ 800,000 |

Measures taken and the present situation;

a. Under way of emergency restoration work to prevent the stoppage of water current.

b. Stoppage of water current by this time

28 Dec.	1:00 to 4:00 p.m.
" "	7:00 p.m. -----
29 Dec.	5:00 a.m.
" "	To be restored since 5 p.m.

c. Serilization

Under way of sterilization by chlorination to the extreme extent.
No polluting perceived. It was such extent that the water was colored red due to iron stain caused by quaking iron pipe.

Investigation for the damage done by
the earthquakes in Tochigi Pref.

As of 27 December, 21:00
Tochigi Pref.

1. Buildings, totally or partially collapsed:	¥ 916,400,000.00 (Detailed in the attached sheet)
2. Forests collapsed: (300 Cho-bu)	¥ 300,000,000.00
3. Forest-road broken down:	9,000,000.00
4. Trees damaged:	3,500,000.00
5. Pref. Lumber Drying Plant:	3,070,000.00
6. Road broken down: (60 places)	70,000,000.00
7. River damaged: (20 places)	30,000,000.00
8. Water-works damaged:	5,000,000.00
9. Charcoal-range damaged: (30 units)	3,000,000.00
10. Road where charcoals are transported broke down:	1,000,000.00
11. Farm land damaged:	5,000,000.00
Total	¥ 1,345,970,000.00

Remarks: There may be other greater damages but are now under investigation: the damages are expected to a larger extent.

Relief Goods Sent to the Suffered Area

26th Dec.	Rope	4,800 pieces
	Medical articles and medicine	300 sets
27th "	Bone fide money to severely suffered families	600,000 Yen (2,000 Yen for each family)
	Same for the dead	3,000 Yen per capita
28th "	LARA Goods Received 13 packs and under way of distributing in the suffered areas.	

JH

Kanto Liaison & Coordination Office
Japanese Government

KLO No. 238

27 December 1949

TO : Chief, Kanto Civil Affairs Region

FROM : Kanto Liaison & Coordination Office

SUBJECT : Earthquake in Tochigi Prefecture on 26th December, 1949

The following two reports on the subject matter was submitted from this office to duty officer yesterday afternoon.

1. Report received from the Tochigi Prefectural Government at 1.35 P.M.

According to the announcement of Utsunomiya Observatory at 10 A.M. on 26th December, the earthquake occurred at 8.23 A.M. and the maximum was 5 and classified as "middle degree". The seismic center was near Imaichi-machi.

The damage

The damage center around Imaichi-machi as follows:

Most of the stone buildings and old style Japanese warehouses (so-called "dozo") collapsed.

Considerable damage was done to dwelling houses.

One family of five members was buried under ground by a landslide.

Kanto Liaison & Coordination Office

Japanese Government

KLO No. 238

Many persons are feared to have sustained injuries.

Water main near Imaichi-machi broke and supply of drinking water is suspended.

Government Railway line from Utsunomiya to Nikko was damaged and the traffic is suspended between Nikko and Kanuma-city. The Tobu Electric Railway Co. line is also suspended, the railway track between Kikusawa and Ninosawa having been twisted, however, an early resumption of traffic is expected.

An electric transformer station at Imaichi-machi was damaged and it may take about 10 days to repair.

The Electric Power generating plant at Takatoku had broken water-pipes.

In general, the survey of damage is in progress.

2. The National Rural Police Headquarters announced as follows at 3 PM.

Imaichi-machi

20 houses collapsed.

60 houses partly collapsed

3 persons missing

Kanto Liaison & Coordination Office
Japanese Government

KLO No. 238

Osawa-mura

50 warehouses made of stone collapsed

Shiroi-mura

10 warehouses made of stone collapsed

Ochiai-mura

2 houses collapsed

1 person missing

Toyooka-mura

1 warehouse collapsed

Nishi-Oashi-mura

1 person died

Funau-mura

4 houses collapsed

2 persons injured

Itani-mura

5 houses partly collapsed

It is further reported that according to the National Rural Police Headquarters at Tokyo this morning, the damage done to water main near Imaichi-machi rather slight, was i. e. of the three water-pipes one was slightly damaged and the supply of water is being made without interruption. The same authorities had no additional damage report for

Kanto Liaison & Coordination Office
Japanese Government

KLO No. 238

release this morning.



KANTO
Liaison & Coordination Office

N. Imajo for Director
I. Kawasaki



1000, 27 December 1949

SUBJECT: Report on Earthquake Disaster in Tochigi Prefecture.
FROM : Tochigi Prefectural NRP.

The following is the report on disaster at Imaichi-machi and its vicinity caused by the earthquake on 26 December 1949.

(As of 1900, 27 December 1949)

Dead	8
Seriously injured	1
Missing	1
Homes destroyed	24
Homes damaged	229
Buildings destroyed	84
Buildings damaged	145
Suffered families	447
Victims	1,879

Imaichi RR Station, Imaichi Town Office and Imaichi Police Station were damaged.

Govt RR damaged but repaired immediately.
RR Bridge for Tobu RR destroyed. Tobu line is out between Nikko and Shin-Kanuma.

Police phone damaged but repaired immediately.
Commercial phone in Nikko and Imaichi are out.

Five (5) power plants destroyed or damaged. Nikko Copper Works Co is sending electricity to Imaichi and Nikko. Electric lines will be repaired within three days.

Some wells damaged. Water is not clear.

Rescue group, thirty doctors and nurses, sent to Imaichi-machi at 1100 26 December by Prefectural Disaster Section.