



**TIGRAY
EDUCATION
BUREAU**

SUMMARY REPORT OF
**HUMAN &
MATERIAL
DAMAGE**
ON TIGRAY'S EDUCATION

**DECEMBER 2021
MEKELLE**

SUMMARY REPORT OF
**HUMAN &
MATERIAL
DAMAGE**
ON TIGRAY'S EDUCATION

Prepared by Communication Affairs and Information
Communication Technology Directorate, Bureau of Education

NB:

This damage assessment report on Tigray's education is a first
draft and shall not be taken as final.



FOREWORD

SHISHAY AMARE (PhD)
Head, Tigray Education Bureau

As a matter of fact, fascists and invaders left no stone unturned during the course of their attempts to abase and rule the people of Tigray at different historical times for which they failed to succeed. Taking lessons from their persisted failures, they decided and planned to commit genocide on our people. It has been more than a year since they declared and practice the genocidal war.

The war is setting off multi-faceted atrocities on the people of Tigray. So far, many lost their lives, disabled, brutally raped, mentally traumatized, various materials, properties and infrastructures damaged and looted.

As main targets of the genocide, education system of Tigray, members of Tigray's education community and Tigray's education infrastructure are other facets of the damage and loss happened on our people.

Despite the multidimensional atrocities being perpetrated, our people will undoubtedly clear the enemies and ensure sustainable peace and development. Good days on which no Tigrayan child being denied protection and education will come as a result.

To bring this to reality and meet the foreseeable recovery demands of Tigray and Tigray's education, cooperated hands and minds of Tegararu living all over the world, stakeholders that advocate humanity and access to education and concerned global institutions are critically needed.

SHISHAY AMARE (PhD)
Head, Tigray Education Bureau

ACKNOWLEDGEMENT

Bureau of Education is thankful to all participants of the damage assessment process on Tigray's education (volunteered Tegarush scholars, NGOs which are members of the education cluster under ECC, Tigray Teachers Association and other contributors) for their exciting dedications.

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TIGRAY EDUCATION BUREAU

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I. INTRODUCTION

The fascist and invading forces (Abiy Ahmed led Ethiopian forces, Esayas Afewerki led Eritrean forces and the chauvinist led Amhara forces, meaning the Amhara militia, Amhara special forces and Amhara fano) have committed genocidal war, rape and violence on girls and women and multi-faceted atrocities on the people of Tigray.

The genocidal war victimized students, supportive staffs and teachers. Female teachers and students were victims of rape and brutal sexual violence. Many lost their lives.

The invading forces also damaged school buildings and infrastructure, looted supplies and burned and destroyed school materials which they were not able to transport.

Tigray bureau of education in collaboration with charity/humanitarian organizations, Tigrayan scholars, and Teachers' Association of Tigray conducted damage assessment on Tigray's education to see the scale of damage and destruction in the educational system. The draft summary has been presented as follows.

2. METHODOLOGY

The methodology used to conduct the damage assessment was survey. To collect primary data checklist was prepared to be filled by observing the school, interviewing the school principals and video recording and taking pictures of the damaged school facilities was made.

The damage assessment is conducted at all accessible zones (except western), woredas and schools and the detail data is organized in the data base of the education bureau.

3. LIMITATION OF THE STUDY

This damage assessment report is based on the data collected till September 2021 and the result of the damage assessment do not show the situation after September. however, the war is going on, bombardment is happening and damage is continuing, and it needs further assessment to include the recent casualties.

4. SCOPE OF THE ASSESSMENT

4.1. COVERED AREAS/ ACCESSIBLE AREAS

The assessment covers Southern, South Eastern, Mekelle, Eastern, Central and North Western zones of Tigray. These are:

- Zones 06
- Woredas 84
- Schools 2054 /91.33 % /

4.2. AREAS NOT COVERED / INACCESSIBLE

- Western zone which has 9 woredas and 243 schools are not included.
- Schools in the border areas with Eritrea in the North Western, Central and Eastern were not included due to security threat as well.
- Schools covered in the assessment but did not submit reports are not included.

5. SITUATION OF EDUCATION IN TIGRAY BEFORE CRISIS

Number of Government & Private schools in Tigray



2,221

Primary schools



271

High schools



2

Colleges of teacher education



1,464,385

Number of students



46,598

Number of teachers and school leaders



Elementary schools' status before the damage



Secondary schools' status before the damage

6. DAMAGE AT COLLEGE OF TEACHER EDUCATION AND EDUCATIONAL LEADERSHIP

After the downfall of the Dergu regime in 1991 Adwa and Abyi Adi Colleges of Teacher Education and Educational Leadership were established. The two colleges were playing a pivotal role in providing professional teachers to Tigray pre-primary and primary schools. However, due to the war Abiy Adi college of Teachers Education is totally damaged. The dormitories, lecture rooms, cafeterias, administration blocks, ICT center, Laboratory rooms and other service providing buildings are fully damaged by drone strike and other means.

7. HUMAN LOSS FROM THE EDUCATION SECTOR

Due to the conflict the education sector suffered from trauma, physical injuries, psychological disorder and looting of possessions. For the last 8 months no salary was paid and no access to banking service which worsen the life of school community and impacted the effort of school reopening and the right of children to access quality education. The loss of life due to the war looks as below in the table.



Killed members of school community	Male	Female	Total
School principals	10	0	10
Vice school principal	2	0	2
Teachers	98	79	177
Support staff	35	4	39
Students	198	1,713	1,911
Woreda education leaders	0	1	1
Experts	3	1	4
Supervisors	2	0	2
Total	348	1,798	2,146

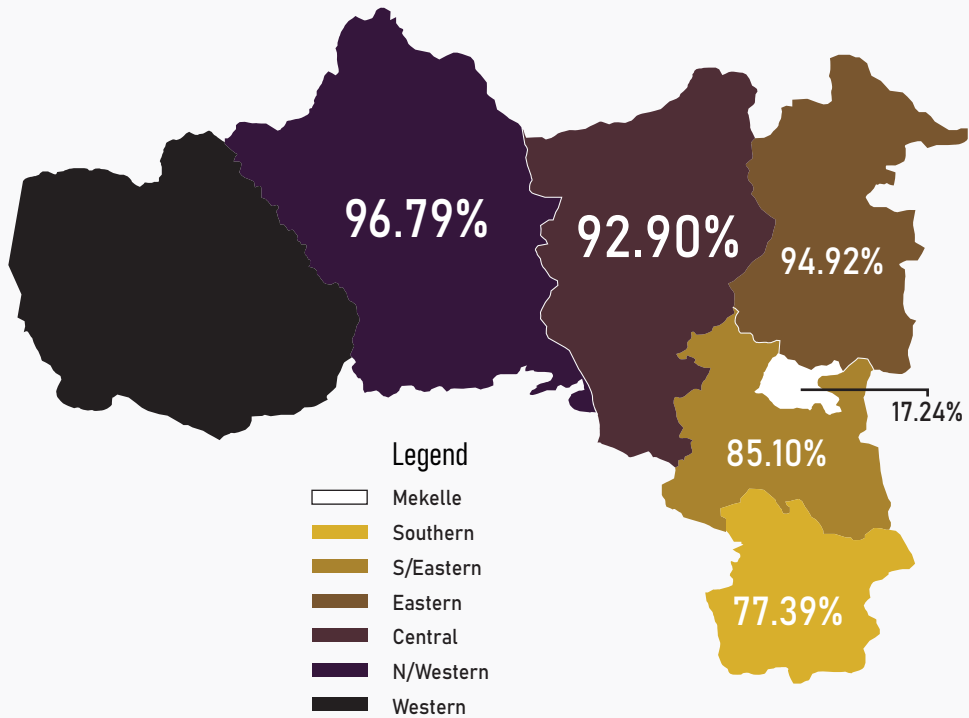
Loss of life from the education sector

8. DAMAGE OF BUILDINGS AND SUPPLIES

8.1. DAMAGE OF CLASSROOMS PER ZONE

Zone	No of schools assessed	Damage type		Total damage	Percentage of damage
		Partial	Complete		
Mekelle	58	7	3	10	17.24
Eastern	433	279	132	411	94.92
S/Eastern	255	159	58	217	85.10
Southern	345	189	78	267	77.39
Central	620	381	195	576	92.90
N/Western	343	223	109	332	96.79
Total	2,054	1,238	575	1,813	88.27%

Damage of classrooms per zone





Class room Hatsey Kaleb Sec. Sch (Axum)



Alula Abanega Sec. Sch (Abiyi Adi)



Chinke elem, Sch. (kolla Tembien)

8.2. DAMAGE OF COMBINED DESKS PER ZONE

Zone	No of schools assessed	Damage type		Total damage	Percentage of damage
		Partial	Complete		
Mekelle	58	47	1	48	82.76
Eastern	433	323	90	413	95.38
S/Eastern	255	205	39	244	95.69
Southern	345	295	40	335	97.10
Central	620	446	163	609	98.23
N/Western	343	223	109	332	96.79
Total	2,054	1,539	442	1,981	96.45%



Class room & Desks, Hagere selam elem Sch
(Hagere selam)



Hadush Tesfa elem, Sch (Gulomekeda)

8.3. DAMAGE OF BLACK BOARD PER ZONE

Zone	No of schools assessed	Damage type		Total damage	Percentage of damage
		Partial	Complete		
Mekelle	58	23	13	36	62.07
Eastern	433	278	142	420	97.00
S/Eastern	255	178	71	249	97.65
Southern	345	238	73	311	90.14
Central	620	371	247	618	99.68
N/Western	343	163	172	335	97.67
Total	2,054	1,251	718	1,969	95.86%



Black board Hiwane elem. Sch.

8.4. DAMAGE OF ADMINISTRATIVE BLOCKS

Zone	No of schools assessed	Damage type		Total damage	Percentage of damage
		Partial	Complete		
Mekelle	58	1	12	13	22.41
Eastern	433	9	143	152	35.10
S/Eastern	255	3	72	75	29.41
Southern	345	3	76	79	22.90
Central	620	5	189	194	31.29
N/Western	343	5	132	137	39.94
Total	2,054	26	624	650	31.65%

9. DAMAGE OF BOOKS PER ZONE

9.1. DAMAGE OF TEXT BOOKS

Zone	No of schools assessed	Damage type		Total damage	Percentage of damage
		Partial	Complete		
Mekelle	58	8	5	13	22.41
Eastern	433	188	79	267	61.66
S/Eastern	255	83	42	125	49.02
Southern	345	109	45	154	44.64
Central	620	293	184	477	76.94
N/Western	343	124	144	268	78.13
Total	2,054	805	499	1,304	63.49%



Administrative block, Menelik First elem. Sch. (Axum)



Text books, Sihul Michael elem. Sch. (Naeder)

9.2. DAMAGE OF TEACHER'S GUIDE

Zone	No of schools assessed	Damage type		Total damage	Percentage of damage
		Partial	Complete		
Mekelle	58	1	5	6	10.34
Eastern	433	138	100	238	54.97
S/Eastern	255	58	53	111	43.53
Southern	345	83	55	138	40.00
Central	620	205	241	446	71.94
N/Western	343	88	178	266	77.55
Total	2,054	573	632	1,205	58.67%



Text books & Chalk, Sihul Michael elem. Sch (Naedier)

9.3. DAMAGE OF LIBRARY BOOKS

Zone	No of schools assessed	Damage type		Total damage	Percentage of damage
		Partial	Complete		
Mekelle	58	6	3	9	15.52
Eastern	433	110	101	211	48.73
S/Eastern	255	69	50	119	46.67
Southern	345	86	44	130	37.68
Central	620	184	196	380	61.29
N/Western	343	94	154	248	72.30
Total	2,054	549	548	1,097	53.40%



Library, Sihul Michael elem. Sch. (Naedier)



Library, Alula Abanega sec. sch. (Abiyi Adi)

DETAILS OF DAMAGED BOOKS

Student textbooks



Before crisis

10,083,001

Damaged textbooks

5,449,427

(54.05%)

Teachers guide



Before crisis

407,211

Damaged textbooks

229,219

(56.3%)

Library reference books



Before crisis

1,141,676

Damaged textbooks

862,795

(75.6%)

10. DAMAGE OF SCHOOL WASH FACILITIES PER ZONE

10.1. DAMAGE OF GIRLS' TOILET

Zone	No of schools assessed	No of toilet before crisis	Damage type		Total damage	Percentage of damage
			Partial	Complete		
Mekelle	58	47	0	12	12	25.53
Eastern	433	328	4	143	147	44.82
S/Eastern	255	194	1	80	81	41.75
Southern	345	225	6	85	91	40.44
Central	620	443	2	213	215	48.53
N/Western	343	256	5	154	159	62.11
Total	2,054	1,493	18	687	705	47.22%

10.2. DAMAGE OF BOYS' TOILET

Zone	No of schools assessed	No of toilet before crisis	Damage type		Total damage	Percentage of damage
			Partial	Complete		
Mekelle	58	35	0	11	11	31.43
Eastern	433	272	3	117	120	44.12
S/Eastern	255	146	1	68	69	47.26
Southern	345	164	4	63	67	40.85
Central	620	365	1	185	186	50.96
N/Western	343	211	3	125	128	60.66
Total	2,054	1,193	12	569	581	48.70%

10.3. DAMAGE OF STAFF TOILET

Zone	No of schools assessed	No of toilet before crisis	Damage type		Total damage	Percentage of damage
			Partial	Complete		
Mekelle	58	24	0	7	7	29.17
Eastern	433	147	3	87	90	61.22
S/Eastern	255	83	0	34	34	40.96
Southern	345	113	1	42	43	38.05
Central	620	245	0	117	117	47.76
N/Western	343	132	1	84	85	64.39
Total	2,054	744	5	371	376	50.54%



Latrine /Toilet, Melbe elem. Sch. (Enderta)

10.4. DAMAGE OF HAND WASHING FACILITY

Zone	No of schools assessed	No of hand washing facilities before crisis	Damage type		Total damage	Percentage of damage
			Partial	Complete		
Mekelle	58	37	5	9	14	37.84
Eastern	433	213	12	127	139	65.26
S/Eastern	255	112	12	75	87	77.68
Southern	345	202	9	74	83	41.09
Central	620	324	23	236	259	79.94
N/Western	343	164	5	137	142	86.59
Total	2,054	1,052	66	658	724	68.82%

10.5. DAMAGE OF WATER TANKER

Zone	No of schools assessed	No of water tankers before crisis	Damage type		Total damage	Percentage of damage
			Partial	Complete		
Mekelle	58	32	4	9	13	40.63
Eastern	433	254	16	145	161	65.71
S/Eastern	255	109	7	66	73	66.97
Southern	345	94	6	48	54	57.45
Central	620	274	16	173	189	68.98
N/Western	343	129	4	96	100	77.52
Total	2,054	883	53	537	590	66.82%



Bazien elem. Sch. (Hawzien), Hand wash facility



Abiyi Dera elem. Sch. (Atsbi), water tanker

11. DAMAGE OF ELECTRONIC DEVICES PER ZONE

11.1. DAMAGE OF COMPUTERS IN SECONDARY SCHOOLS

Zone	No of high schools assessed	Damage type		Total damage	Percentage of damage
		Partial	Complete		
Mekelle	15	6	6	12	80
Eastern	47	13	29	42	89.36
S/Eastern	21	9	7	16	76.19
Southern	30	15	12	27	90
Central	61	12	37	49	80.33
N/Western	34	8	23	31	91.18
Total	208	63	114	117	85.10%



Fatsi Sec. Sch. (Gulo Mekeda)



Daero Hafash elem. Sch. (Naedier)

11.2. DAMAGE OF PLASMA TELEVISION IN SERVICE

Zone	No of high schools assessed	No of plasma TV before crisis	Damage type		Total damage	Percentage of damage
			Partial	Complete		
Mekelle	15	12	4	5	9	75.00
Eastern	47	35	7	22	29	82.86
S/Eastern	21	15	5	8	13	86.67
Southern	30	27	5	12	17	62.96
Central	61	50	7	34	41	82.00
N/Western	34	25	7	15	22	88.00
Total	208	164	35	96	131	79.88%

11.3. DAMAGE OF PLASMA TV IN SCHOOLS' STORES

Zone	No of high schools assessed	No of plasma TV in store before crisis	Damage type		Total damage	Percentage of damage
			Partial	Complete		
Mekelle	15	9	2	6	8	88.89
Eastern	47	29	4	22	26	89.66
S/Eastern	21	8	2	6	8	100
Southern	30	13	1	6	7	53.85
Central	61	36	3	30	33	91.67
N/Western	34	20	2	16	18	90.00
Total	208	115	14	86	100	86.96%

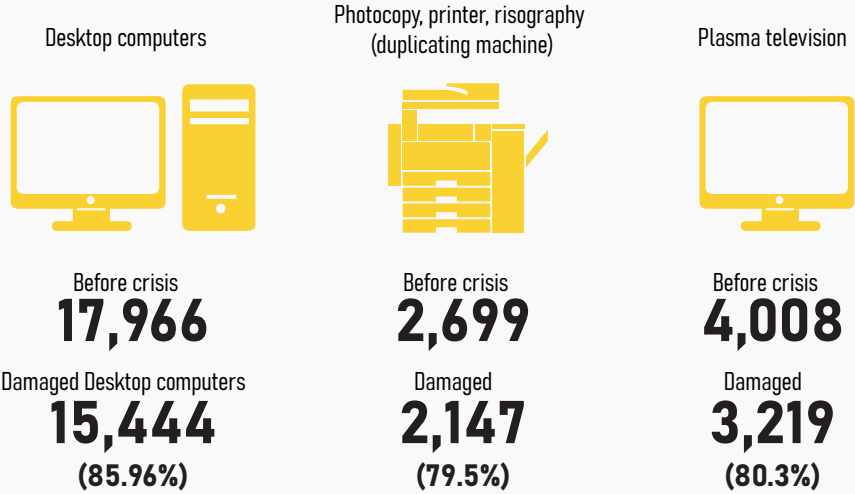


Plasma, in store of Sihul michael elem, sch. (



Plasma, Hatsey Yohannes Sec. Sch (Mekelle

DETAILS OF ELECTRONIC DEVICES DAMAGE



12. DAMAGE OF LABORATORY MATERIALS BY ZONE

12.1. DAMAGE OF LABORATORY EQUIPMENT

Zone	No of schools assessed	No of laboratory rooms before crisis	Damage type		Total damage	Percentage of damage
			Partial	Complete		
Mekelle	58	16	1	11	12	75.00
Eastern	433	213	25	146	171	80.28
S/Eastern	255	62	9	38	47	75.81
Southern	345	115	21	60	81	70.43
Central	620	230	24	190	214	93.04
N/Western	343	131	15	108	123	93.89
Total	2,054	767	95	553	648	84.49%

12.2. DAMAGE OF MICROSCOPE

Zone	No of schools assessed	No of microscopes before crisis	Damage type		Total damage	Percentage of damage
			Partial	Complete		
Mekelle	58	35	2	16	18	75.00
Eastern	433	188	10	120	130	80.28
S/Eastern	255	44	2	33	47	75.81
Southern	345	100	5	55	81	70.43
Central	620	200	6	136	214	93.04
N/Western	343	87	3	75	123	93.89
Total	2,054	654	28	435	648	84.49%

DETAILS OF LABORATORY EQUIPMENT

Microscope



Before crisis

2,028

Damaged

1,569

(77.4%)

Laboratory kit



Before crisis

88,515

Damaged

76,631

(86.6%)

Laboratory models



Before crisis

55,677

Damaged

51,372

(92.3%)

Laboratory science kit



Before crisis

6,903

Damaged

5,675

(82.2%)

Laboratory room chairs



Before crisis

27,579

Damaged

17,779

(64.5%)

Pedagogical center facilities



Before crisis

99,209

Damaged

91,736

(92.5%)

Special needs education facilities



Before crisis

6,778

Damaged

5,633

(83%)

Chalk in packet



Before crisis

175,275

Damaged

142,414

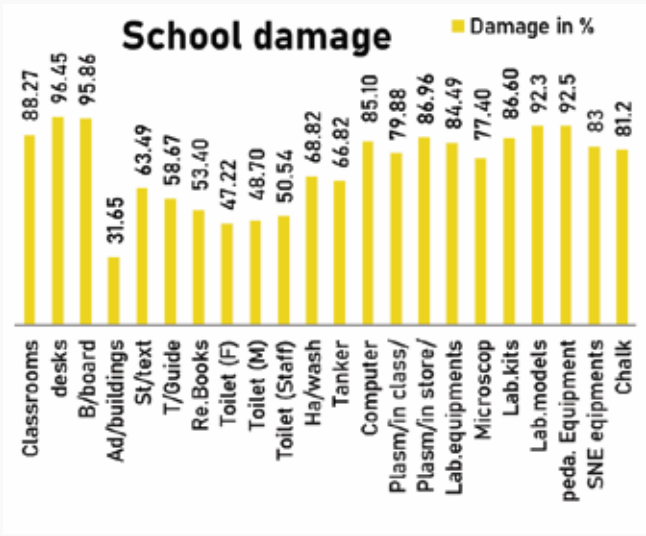
(81.2%)

13. SUMMARY

The school damage is summarized as follows

A. DAMAGE OF SCHOOL FACILITIES

- 88.27% of classrooms
- 96.45% of combined desks
- 95.86% of black boards
- 31.65% Administrative buildings
- 63.49% of textbooks
- 58.67% of teachers' guide
- 53.40% of reference books
- 47.22% of girls' toilet, 48.70% of boys' toilet
- 50.54% of staff toilet
- 68.82% of hand washing units
- 66.82% of water tankers
- Damaged electronics 85.10% Computers, 79.88% of plasma television from classrooms, 86.96% of plasma television form the store.
- Laboratory; 84.49% laboratory equipment's, 77.40% microscopes, 86.60% laboratory kits and 92.3% Models.
- 92.5% of pedagogical center equipment
- 83% of special need education resources
- 81.2% of chalks



The impact of school damage can't be represented by mere figures and numbers, it is not a matter of assessing the physical damage and putting it in percentages. Hence, the overall socio-economic impact of the damage requires the involvement of professionals and further investigations and analysis.

B. HUMAN LOSS

Due to the war 1,911 students, 235 teachers, principals and supportive staffs totally 2146 members of education community lost their lives.

C. COLLEGE OF TEACHER EDUCATION AND EDUCATIONAL LEADERSHIP

Out of the two colleges, Abiy Adi is fully damaged and the service delivery buildings & facilities become out of use.



Laboratory, Abiy Adi College



Library, Abiy Adi College

14. PRE / POST CRISIS EDUCATION STATUS: INDICATORS

Indicators	Status in 2020	Current status 2021	Remark
Radius /Walking distance to primary schools/	2.506 Km	7.316 Km	Declined back to 1992 position
Radius /Walking distance to secondary schools/	7.06 Km	17 Km	Declined back to 2005 position
Primary schools section to students Ratio	1:39	1:434	Despite of the 2020 status which was 39 students in each class, currently, if we take 50 students per classroom we can only accommodate 11.52% of the total students in class. This implies that 88.48% of our primary school students cannot be accommodated in class rooms currently .
Secondary schools section to students Ratio	1:43	1:365	The standard for secondary school section to students ratio is 40 per class. However, if we consider the 2020 situation which was 43 students per class, currently, 88.22% of the total secondary school students cannot be accommodated in class rooms currently.
Primary school Gross Enrollment Rate	85.45%	20.80 %	Though attempts made to manage teaching children of grades 1-6, students are terminating and schools are being closed back because of the famine and bombardments continued.
Textbook to students ratio	1:2	1:9	Textbooks of some subjects might not completely be available in some schools. Majority of the books were saved by the fact that there were in the hands of student.

15. RECOMMENDATIONS

- The damage assessment focused on school infrastructure and human loss. So, the impact of the damage on social, economic, psychological and other aspects should be further studied by concerned institutions, professionals and scholars so as to contribute for the rehabilitation and restoration of Tigray and its education system.
- The Global Society of Tigrayan scholars (GSTS), local scholars associations, Tigrayan diaspora and well-off Tigrayans shall respond to address the school damage and its impact on Tigray education and Tigray people.
- UN agencies, International and local NGOs and civic societies should respond and mobilize resources to address the school damage in their emergency response and/or long term rehabilitation and reconstruction endeavors.

APPENDIX

Pictorial showcases of systematic and planned devastations on Tigray's
education:







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