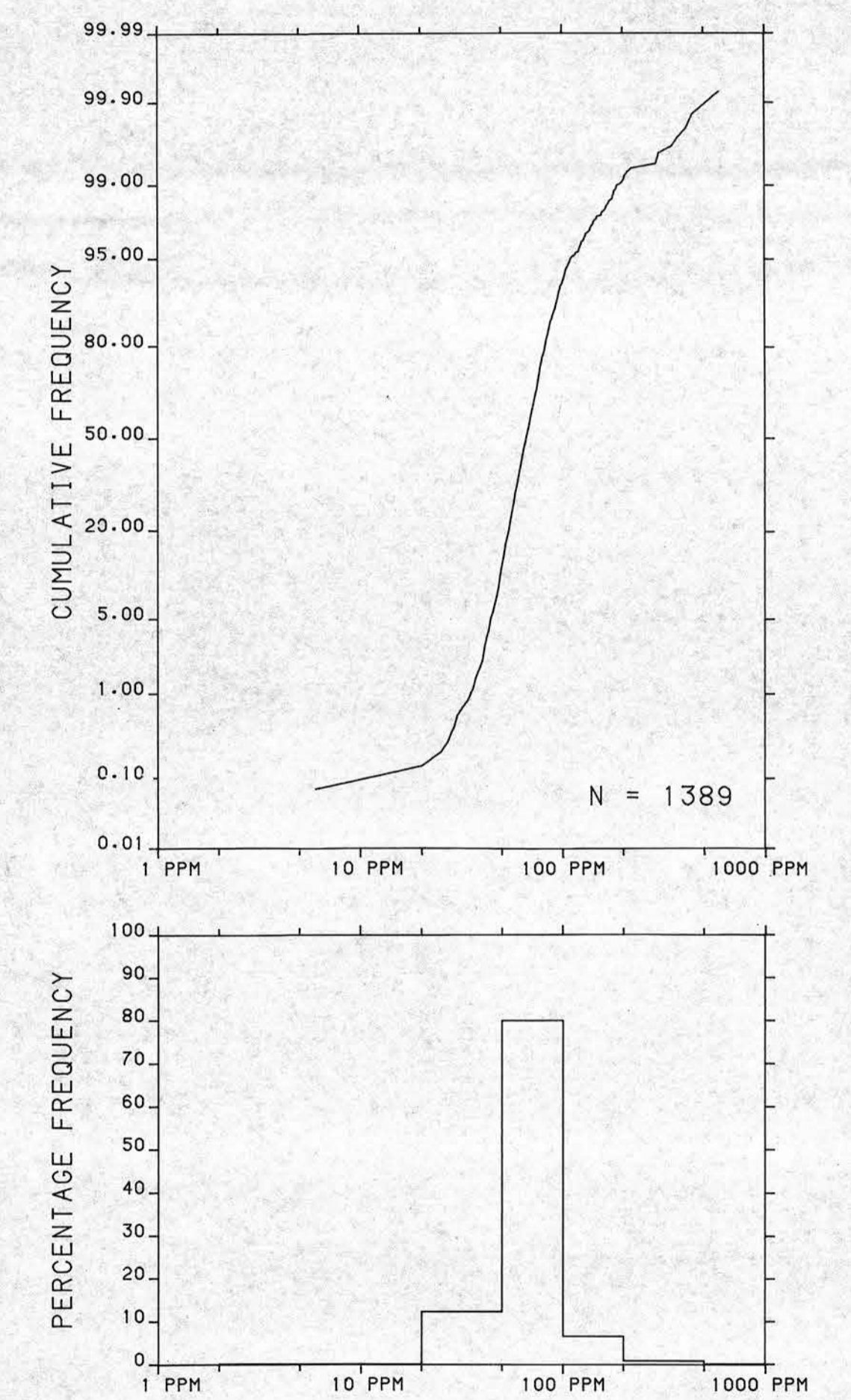
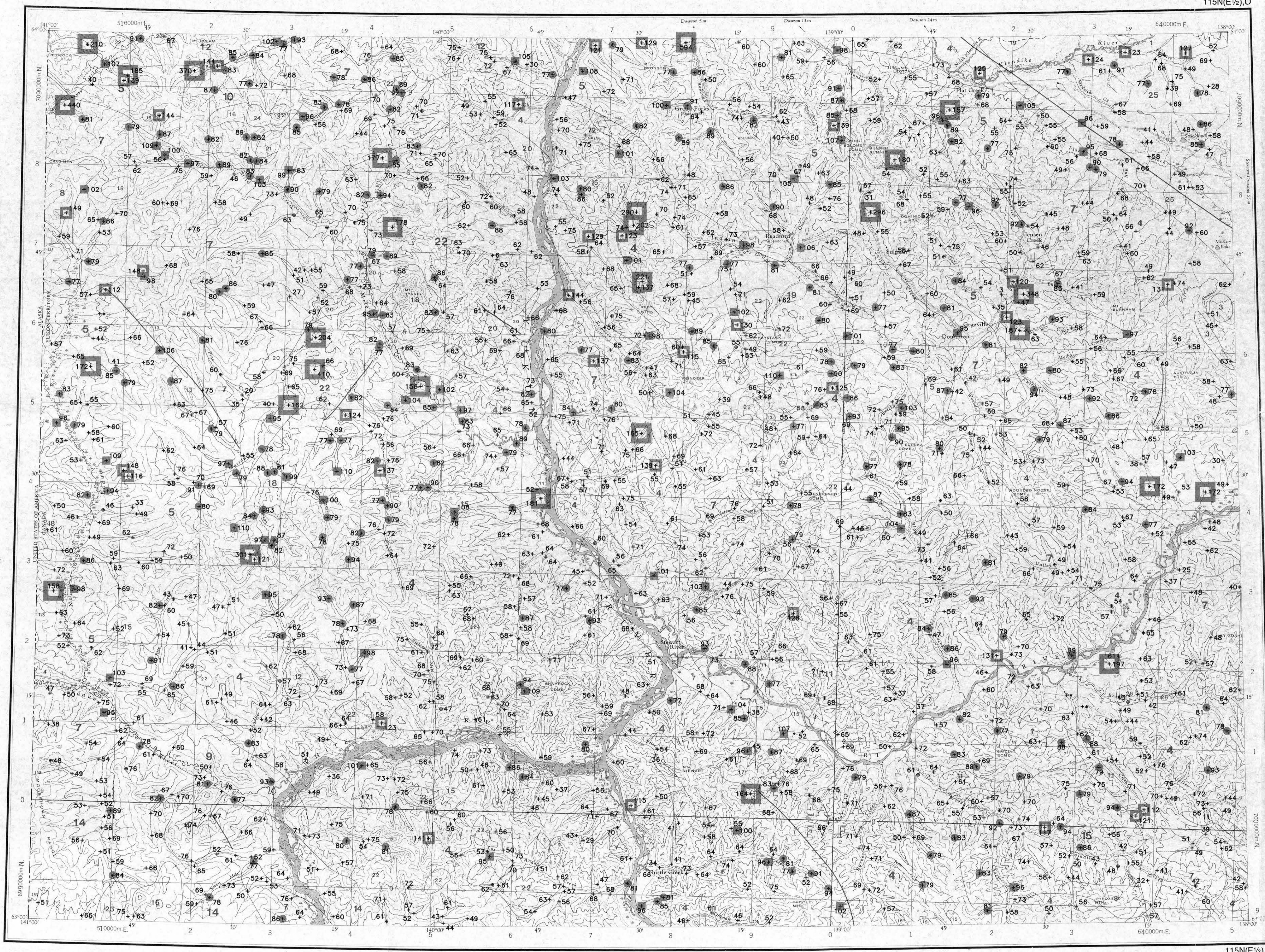


The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function (1/d<sup>2</sup>) to filter out minor irregularities and emphasize broad-scale regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically enriched, or large metallic deposits undergoing weathering would be expected to produce identifiable anomalies.



| CONCENTRATION | FREQUENCY | N = | %       |
|---------------|-----------|-----|---------|
| 150 to 594    | +         | 28  | (2.0%)  |
| 111 to 149    | +         | 39  | (2.8%)  |
| 95 to 110     | +         | 72  | (5.2%)  |
| 77 to 94      | +         | 252 | (18.1%) |
| 3 to 76       | +         | 998 | (71.9%) |



- LEGEND**
- QUATERNARY**
- RECENT
- SELKIRK GROUP
  - 26 RS 64\* Basalt, andesite flows, breccia, tuff
- PLEISTOCENE AND RECENT
- 25 QS 64 Glacial and surficial deposits
- TERTIARY**
- 24 TD1 57 Diorite
- OLIGOCENE AND MIOCENE**
- 23 OMA 61 AMPHITHEATRE: Sandstone, conglomerate, shale, coal
- CARMACKS GROUP**
- 22 OMCV 61 Andesite, basalt, breccia
  - 21 OMD 61 DONJEK: Tuff, breccia
- OLIGOCENE**
- CARMACKS GROUP
  - 20 OCS 60 Conglomerate, sandstone, shale
- LOWER TERTIARY**
- 19 ITS 58 Conglomerate, sandstone, shale
  - 18 TVR 58 Rhyolite, quartz feldspar porphyry
- EARLY TERTIARY**
- ETF 57 Granite and syenite porphyry, rhyolite
- CRETACEOUS**
- 16 KY 52 Syenite, monzonite
  - 15 KQM 52 Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite
- TRIASSIC**
- 14 TGMN 42 Foliated hornblende granodiorite, quartz
- PALEOZOIC AND MESOZOIC UNDIVIDED**
- 13 PMUB 40 Ultramafic rocks
- PALEOZOIC UNDIVIDED**
- 12 PN 09 NASINA: Graphitic quartzite, schist
  - PC 09 Limestone
  - 10 PTV 09 Chert, volcanic rocks, slate
  - 9 PV 09 Greenstone, amphibolite
  - 8 PQMN 09 Foliated muscovite quartz monzonite
  - 7 PGDN 09 PELY GNEISS: Foliated to gneissic granodiorite
- PERMIAN**
- SKOLAI GROUP
  - 6 PS 36 Andesite, basalt, ultramafics, pyroclastics, phyllite, chert, limestone, conglomerate
- CARBONIFEROUS AND PERMIAN**
- 5 CPS 35 Quartz - muscovite schist
  - 4 CPSN 35 Schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX
  - 3 CPUB 35 Serpentinite, diorite, pyroxenite, peridotite
- DEVONIAN**
- 2 DC 25 Limestone, marble
- ORDOVICIAN, SILURIAN AND LOWER DEVONIAN**
- 1 OSOR 19 ROAD RIVER: Black graptolitic shale, chert

**SURFICIAL GEOLOGY**

No comprehensive surficial or geomorphological data exists for the map area up to the release of this geochemical open file. A detailed geomorphology and surficial materials map, compiled by G.W. Morrison of Indian Affairs and Northern Development, Whitehorse, is forthcoming.

Geological Survey of Canada  
 Mineral Resources Division  
 Exploration Geochemistry Subdivision

**CONTRACTORS**

Sample collection by Monaghan Delph Miller Limited, Don Mills, Ontario  
 Sample preparation by Golder Associates, Ottawa

Sediment chemical analyses by Bondar Clegg and Company Ltd., Ottawa, Ontario

Au analyses by Chemex Labs Limited, Vancouver  
 Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

Copies of map material and listings of field observations, analytical data and methods, from which the open file was prepared, are available from:

K.G. Campbell Corporation  
 880 Wellington St.  
 Bay 238  
 Ottawa, Ontario  
 K1R 6K7

Digital data are available on IBM-PC compatible diskette from:

Geological Survey of Canada  
 Publications Distribution  
 601 Booth St.  
 Ottawa, Ontario K1A 0E8  
 Tel.: (613)995-4342

**ZINC (ppm)**  
**STREAM SEDIMENTS**  
 GSC OPEN FILE 1364  
 REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 100-1986  
 CANADA - YUKON  
 SUBSIDIARY AGREEMENT ON MINERAL RESOURCES (1985-1989)  
 STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY  
 WESTERN YUKON, 1986

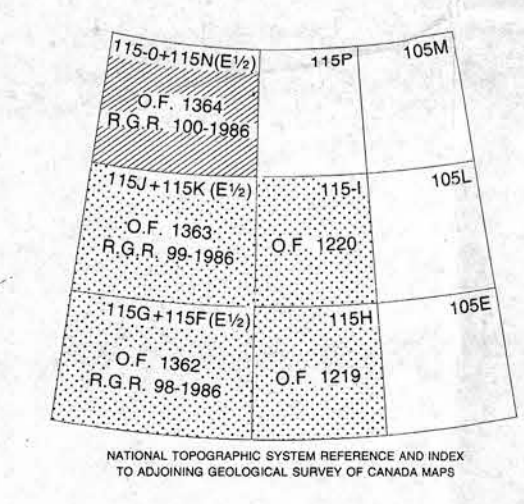
Elevation in feet above mean sea level

Base map at the same scale published by the Surveys and Mapping Branch in 1963

Mean magnetic declination 1987, 30°25' East, decreasing 13.5' annually. Readings vary from 30°25' E in the SE corner to 30°20' E in the NW corner of the map area

Scale 1:250 000 - Échelle 1:250 000

Universal Transverse Mercator Projection  
 Projection transversale universelle de Mercator  
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Geological boundary . . . . .  
 Fault . . . . .  
 No analytical result . . . . .  
 Field duplicate sample sites . . . . .

Geological base and legend are derived from: Gabrielse, H., Tempelman-Kluit, D.J., Blusson, S.L. and Campbell, R.B. (1980) Map 1398A, MacMillan River, Yukon - District of Mackenzie - Alaska, NTS Sheet 105, 115, Geological Survey of Canada, Energy, Mines and Resources Canada. 1:1 000 000 Scale.