

# Environment Act Licence Loi sur l'environnement Licence

Manitoba  
Conservation  
Conservation  
Manitoba



Licence No./Licence n° 2609 R  
Issue Date/Date de délivrance June 30, 2003

Revised: July 15, 2004

**IN ACCORDANCE WITH THE MANITOBA ENVIRONMENT ACT (C.C.S.M. c. E125)  
THIS LICENCE IS ISSUED PURSUANT TO SECTION 11(1) AND 14(2) TO:**

**AGASSIZ RESOURCE MANAGEMENT LIMITED;  
"the Licencee"**

for the construction and operation of the Development being two irrigation systems in the Rural Municipality of South Norfolk (WM Ventures and Northern Potato Irrigation Project), in accordance with the Proposal filed under The Environment Act dated April 25, 2003 and the alteration request dated May 7, 2004, and subject to the following specifications, limits, terms and conditions:

**GENERAL TERMS AND CONDITIONS**

This Section of the Licence contains requirements intended to provide guidance to the Licencee in implementing practices to ensure that the environment is maintained in such a manner as to sustain a high quality of life, including social and economic development, recreation and leisure for present and future Manitobans.

1. The Licencee shall collect and dispose of all used oil products and other regulated hazardous wastes generated by the machinery used in the construction and operation of the Development in accordance with applicable Manitoba Conservation and legislation requirements.
2. The Licencee shall revegetate areas disturbed by the construction of the Development with a mixture of native or introduced grasses or legumes. These areas shall be revegetated as quickly as possible following construction to prevent soil erosion and the establishment of noxious weeds. Native species shall be used to revegetate areas where native species existed prior to construction.

**\*\*A COPY OF THE LICENCE MUST BE KEPT ON SITE AT THE  
DEVELOPMENT AT ALL TIMES\*\***

3. The Licencee shall:
  - a) prepare "As Constructed" drawings for the Development and shall label the drawings "As Constructed"; and
  - b) provide to the Director, within three months of the completion of construction of the Development, two sets of "As Constructed" drawings.

### SPECIFICATIONS, LIMITS, TERMS AND CONDITIONS

#### Project Scope

4. The Licencee shall, unless otherwise approved by the Director in writing, construct the water diversion and management works and irrigate the lands as described on Figure 1, attached to this Licence. The following fields or portions of fields are excluded from the project unless specifically approved by the Director in writing:
  - (a) Field WM-1E in NE 1-9-9W;
  - (b) Field WM-23 in NW 36-8-9W;
  - (c) The southern half of Field WM-24 in NE 36-8-9W;
  - (d) Field WM-25 in NE 28-8-9W;
  - (e) Field NP-1 in NW 35-8-9W; and
  - (f) Fields NP-2, NP-3, NP-9 and NP-10 in 34-8-9W

Proposed amendments to the project must be submitted to the Director for approval with an accompanying discussion of the nature and purpose of the amendments.

#### Construction

5. The Licencee shall provide notification to the Environment Officer responsible for the administration of this Licence not less than two weeks prior to beginning construction of the Development of the intended starting date of construction and the name of the contractor responsible for the construction.
6. The Licencee shall establish any fuel storage areas required for the construction of the Development:
  - (a) a minimum distance of 100 metres from any waterbody; and
  - (b) in compliance with the requirements of *Manitoba Regulation 188/2001*, or any future amendment thereof, respecting *Storage and Handling of Petroleum Products and Allied Products*.
7. The Licencee shall, during construction of the Development, immediately report fuel spills in excess of 100 litres to an Environment Officer.
8. The Licencee shall not undertake instream construction activities in connection with the Development between April 1 and June 15 of any year.
9. The Licencee shall not undertake instream construction activities in connection with the Development during periods of high streamflow.

10. The Licencee shall, during construction of water intake works in connection with the Development, minimize the extent of clearing of riparian vegetation adjacent to the Assiniboine River.
11. The Licencee shall install buried pipelines on cultivated land or land in its natural state in accordance with the methodology illustrated in Figures 2 to 4, attached to this Licence. These procedures do not apply when a plough or a continuous trencher is used to install a pipeline.

**Operation – Matters Respecting Water Management and Water Quality Protection**

12. The Licencee shall screen pump intakes associated with the Development in accordance with the Department of Fisheries and Oceans publication "Freshwater Intake End-of-Pipe Fish Screen Guideline" (March, 1995). Final screen designs shall be approved by the Department of Fisheries and Oceans prior to the operation of the Development. Alterations in screen design required by any future changes in the pumping period shall also be approved by the Department of Fisheries and Oceans prior to any changes in the operation of the Development.
13. The Licencee shall maintain a minimum instream flow below all diversion points of the Development at all times while water is being diverted into the Development. The minimum instream flow at each diversion point shall be as determined by Manitoba Water Stewardship and specified in a Water Rights Licence issued for the Development.
14. The Licencee shall immediately cease diverting water from the Assiniboine River or reduce the diversion rate if the minimum instream flow provided for in Clause 13 of this Licence is not equalled or exceeded.
15. The Licencee shall, on a daily basis while irrigation is occurring from the Development, record volumes of water pumped, and durations of pumping for each intake location. A report on this information shall be provided, by March 1 of the following year, to the Environment Officer responsible for the administration of this Licence, the Environmental Approvals Branch, and the Water Branch of Manitoba Water Stewardship. The report shall be provided in the format shown in Table 1, attached to this Licence. Pumping rates at the two diversion points of the Development shall not exceed 328 litres per second at Pumpsite A, and 41 litres per second at Pumpsite B.
16. The Licencee shall install backflow prevention devices and maintain them in operational condition at all times if fertilizer or crop protection products are applied through the irrigation systems of the Development.
17. The Licencee shall, if fertilizer or crop protection products are applied through the irrigation systems of the Development, not allow irrigation water containing these materials to be applied to or drain to surface water bodies.



**Operation – Matters Respecting Land Management and Soil Quality Protection**

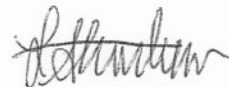
18. The Licencee shall not, with water diverted by the Development, irrigate any land parcel other than a land parcel identified in Figure 1 attached to this Licence. The area irrigated in any year by the Development shall not exceed approximately 450 hectares (285 ha for WM Ventures and 165 ha for Northern Potato). Deviations from these limits by more than 10% shall not occur without the previous written authorization of the Director. In particular, the use of water diverted by the Development to irrigate land in the project areas more frequently than one year in three with lesser amounts of water shall not occur.
19. The Licencee shall implement agronomic practices described in the following documents:
  - (a) Sections 3.4.2 and 3.5.1 of the Environment Act Proposal report concerning soil conservation, and nutrient and pesticide management, respectively;
  - (b) "WM Ventures Irrigation Project Land-Use and Agronomic Assessment" prepared by Tone Ag Consulting and dated January, 2003;
  - (c) "Northern Potato Irrigation Project Land-Use and Agronomic Assessment" prepared by Tone Ag Consulting and dated March, 2003;
  - (d) Sections 3.5 and 3.6 of the report "WM Ventures Project Addenda to Environmental Act Licence No. 2609" concerning soil management, and crop input management and groundwater protection, respectively; and
  - (e) "Draft Best Management Practices Manual 1999" by the Central Manitoba Irrigators Association and Central Manitoba Resource Management Ltd., concerning general agronomic practices.

**Monitoring**

20. The Licencee shall, upon the request of the Director:
  - a) sample, monitor, analyze or investigate specific areas of concern regarding groundwater, surface water and soil for such duration and at such frequencies as may be specified;
  - b) determine the environmental impact associated with the specific areas of concern; and
  - c) provide the Director, within such time as may be specified, with such reports, drawings, specifications, analytical data, descriptions of sampling and analytical procedures being used, and such other information as may from time to time be requested.
21. The Licencee shall, prior to the commencement of operation of the Development, meet with the Environment Officer responsible for the administration of this Licence and the contact person for the Environmental Approvals Branch of Manitoba Conservation to review the monitoring and reporting requirements of this Licence.

**REVIEW AND REVOCATION**

- A. Environment Act Licence No. 2609 is hereby rescinded.
- B. If, in the opinion of the Director, the Licencee has exceeded or is exceeding or has or is failing to meet the specifications, limits, terms, or conditions set out in this Licence, the Director may, temporarily or permanently, revoke this Licence.
- C. If construction of the development has not commenced within three years of the date of this Licence, the Licence is revoked.
- D. If, in the opinion of the Director, new evidence warrants a change in the specifications, limits, terms or conditions of this Licence, the Director may require the filing of a new proposal pursuant to Section 11 of The Environment Act.



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**Larry Strachan, P. Eng.**  
**Director**  
**Environment Act**

**Client File: 4941.00**

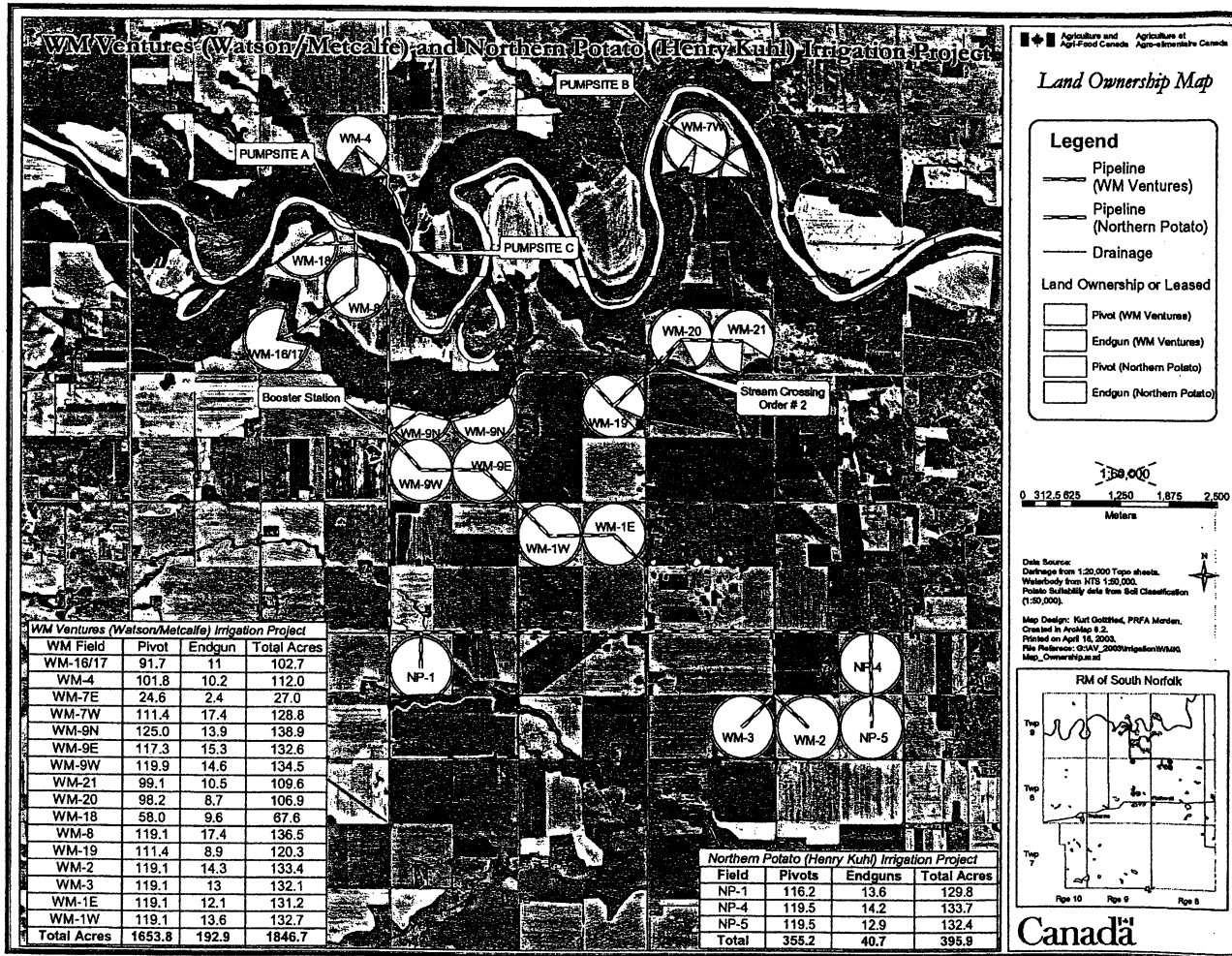
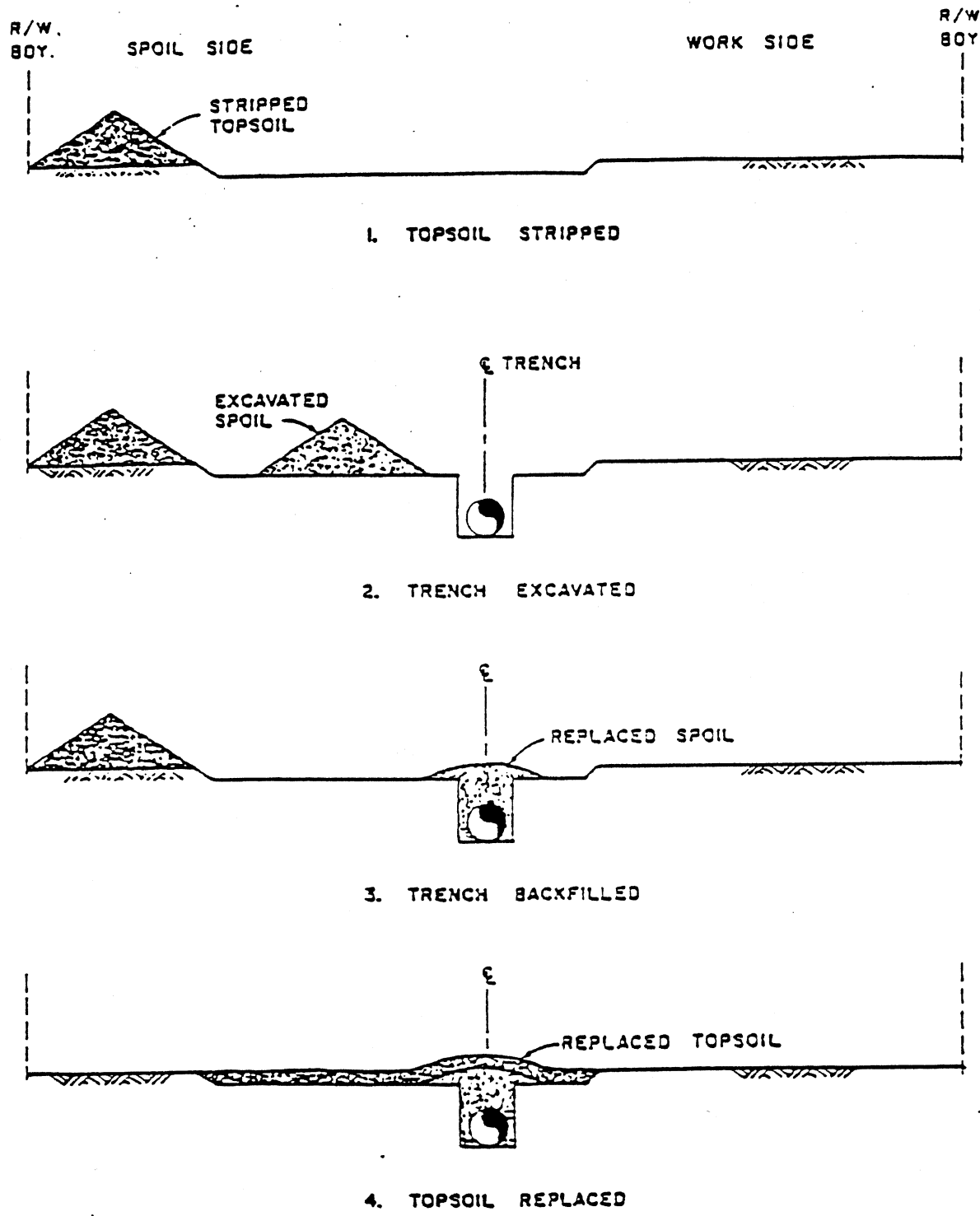
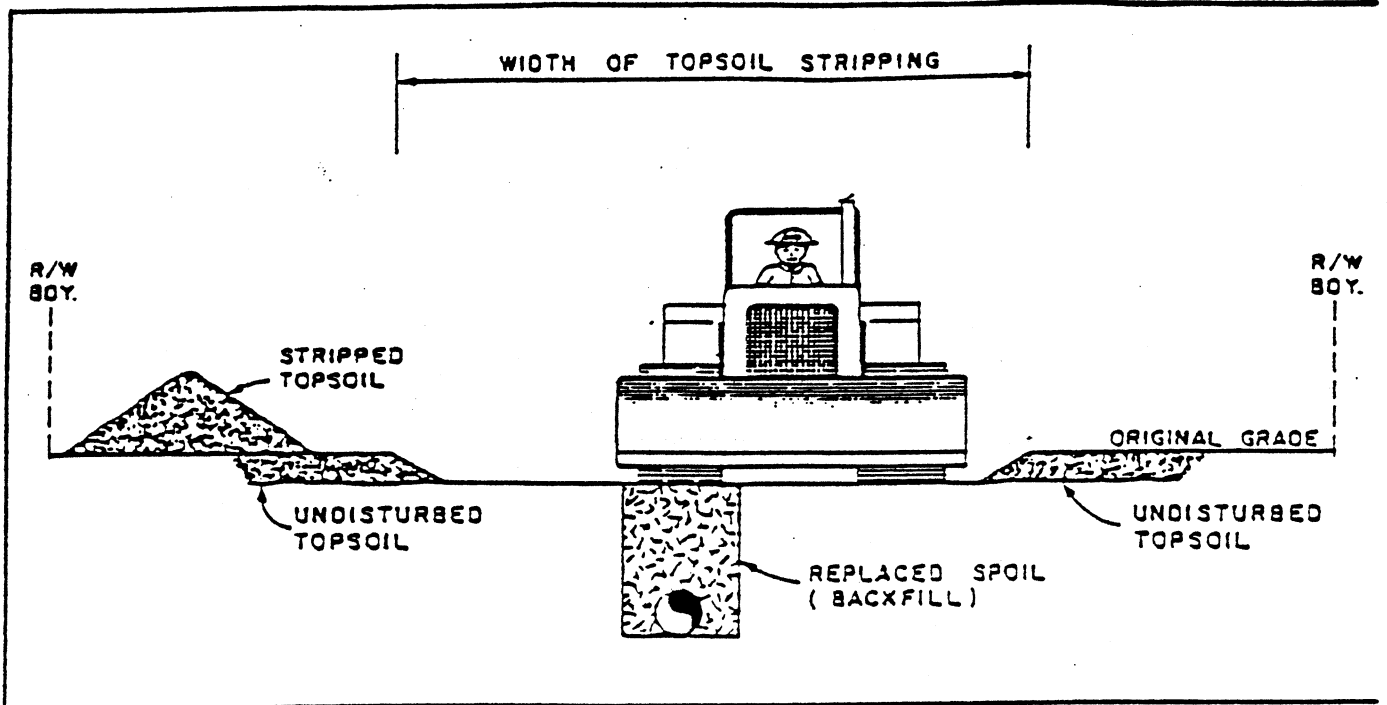


Figure 1  
To Environment Act Licence No. 2609



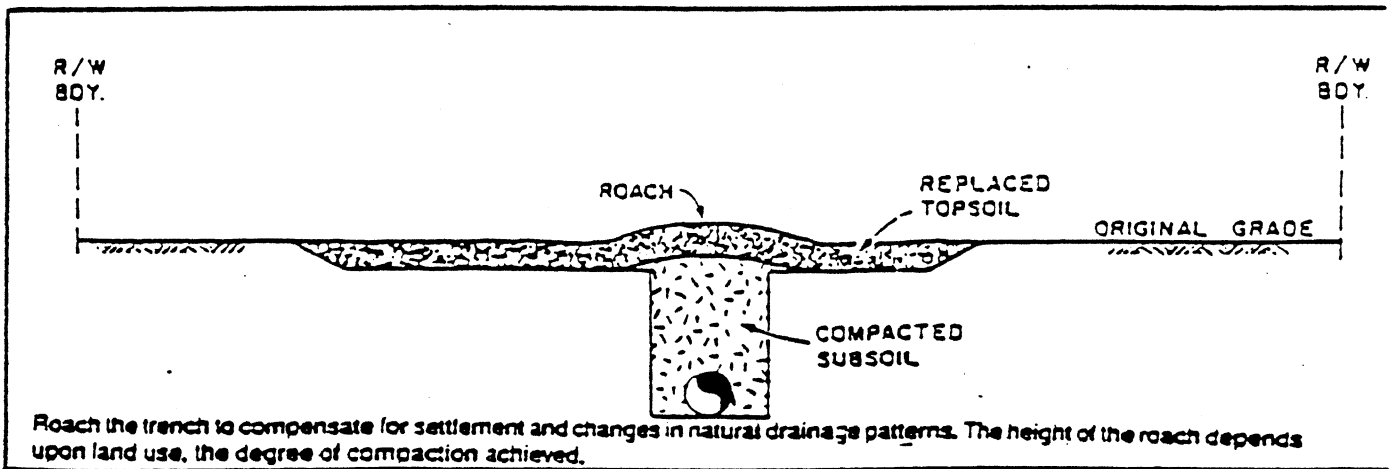
SEQUENCE OF TOPSOIL HANDLING

Figure 2



COMPACTION OF BACKFILL

Figure 3



ROACHING THE TRENCH

Figure 4



**Table 1**  
**To Environment Act Licence No. 2609**

**Central Manitoba Resource Management Limited**

**WM Ventures / Northern Potato Irrigation Project**  
**Annual Water Use Report**

Intake Location: \_\_\_\_\_ Year: \_\_\_\_\_

Pump Capacity: \_\_\_\_\_ m<sup>3</sup>/s or cfs

**Conversions:** 1 acre (ac.) = 0.405 hectares (ha.) 1 ha. = 2.471 ac.  
 1 acre-foot (ac.-ft.) = 1.233 cubic decametres (dam<sup>3</sup>) 1 dam<sup>3</sup> = 0.811 ac.-ft.  
 1 cubic foot per second (cfs) = 0.0283 cubic metres per second (m<sup>3</sup>/s)  
 1 m<sup>3</sup>/s = 35.31 cfs  
 1 imperial gallon per minute (IGPM) = 0.000076 m<sup>3</sup>/s  
 1 US gallon per minute (USGPM) = 0.000063 m<sup>3</sup>/s

<b>Date</b>	<b>Pumping Rate</b>	<b>Duration hours</b>	<b>Volume Pumped dam<sup>3</sup></b>	<b>Parcel(s) Irrigated</b>
<b>TOTAL</b>		<b>sum</b>	<b>sum</b>	