FIG. 3

LEGEND

| | Mapping Unit | Gross Area (1000 Acres) | Major Characteristics of Dominant Soil | Irrigation Suitability |
|---|---|---|---|---|
| 1 | Sandy Alluvial Soil Association | 4·3 | Fine sandy loam overlying a friable light clay. | Suitable for spray or furrow irrigation only. |
| 2 | Deep Sands Association | 6·2 | Deep undifferentiated sand or loamy sand. | Could only be utilised by spray irrigation of certain crops such as citrus. |
| 3 | Sandy Solodized-Solonetz. Association | 2·2 | Sand or loamy sand overlying a tough dense clay. | Generally unsuitable because of undesirable physical properties of sub soil. |
| 4 | Weakly Solodized-Solonetz Association | 28·6 | Unstable clay loam surface overlying a tough dense clay. | Undesirable irrigation soil because of adverse physical properties |
| 5 | Shallow Phase Red-Brown Earth Association. | 16·5 | Loam or sandy clay loam overlying red-brown clay. | Fairly suitable for pastures or cereal crops. |
| 6 | Red-Brown Earth Association | 5·6 | Deeper loam or sandy clay loam overlying a brown clay. | Fairly suitable, but water requirements for pastures may be rather high. |
| 7 | Grey and Grey-Brown Clay Association | 61·5 | Deep grey or grey-brown calcareous heavy clays. | Suitable for pastures lucerne and cereal crops. |
| 8 | Gilgaied Grey Clay Association | 14·7 | Deep heavy clays with moderate gilgai micro relief. | Suitable subject to adequate land grading. |
| 9 | Hydromorphic Grey Clay Association | 2·1 | Deep dark grey, badly drained, heavy clays. | Unlikely to be considered as most occurrences are in swamps or drainage lines. |
| 10 | Lateritic Red-Earth Association | 7·9 | Brown or reddish brown clay loams with a variable development of ironstone nodules. | Unsuitable irrigation soils; much of the area not commandable. |
| 11 | Scalded | | | |

Note: Soils of Existing Irrigation Area after G.H. Allen B.of I.-1952 (Adapted by F. Chippendale D.P.I.-1966)

Other soils after R.F. Isbell B.of I.-1957 (Revised by A.A.Webb D.P.I.-1966)

Existing Irrigation Area shown thus ——

Proposed Extension Area " " - - -

SCALE OF MILES

2 1 0 2 4 6

QUEENSLAND

IRRIGATION AND WATER SUPPLY COMMISSION

BALONNE RIVER

ST. GEORGE IRRIGATION PROJECT-PROPOSED EXTENSION

SOIL ASSOCIATION

LEVELS DATUM : STATE

SG 1

M 23203

| Proj_ code | Poly_mapc ode | Description | Major Characteristics of Dominant Soil | Irrigation Suitability | Gross Area (1000 acres) |
|---|---|---|---|---|---|
| **SGI** | **1** | **Sandy Alluvial Soil Association** | Fine sandy loam overlaying a friable light clay. | Suitable for spray or furrow irrigation only. | 4.3 |
| **SGI** | **2** | **Deep Sands Association** | Deep undifferentiated sand or loamy sand. | Could only be utilised by spray irrigation of certain crops such as citrus. | 6.2 |
| **SGI** | **3** | **Sandy Solodized-Solonetz Association** | Sand or loamy sand overlying a tough dense clay. | Generally unsuitable because of undesirable physical properties of sub soil. | 2.2 |
| **SGI** | **4** | **Weakly Solodized-Solonetz Association** | Unstable clay loam surface overlying a tough dense clay. | Undesirable irrigation soil because of adverse physical properties. | 28.6 |
| **SGI** | **5** | **Shallow Phase Red-Brown Earth Association** | Loam or sandy clay loam overlying red-brown clay. | Fairly suitable for pastures or cereal crops. | 16.5 |
| **SGI** | **6** | **Red-Brown Earth Association** | Deeper loam or sandy clay loam overlying a brown clay. | Fairly suitable, but water requirements for pastures may be rather high. | 5.6 |
| **SGI** | **7** | **Grey and Grey-Brown Clay Association** | Deep grey or grey-brown calcareous heavy clays. | Suitable for pastures lucerne and cereal crops. | 61.5 |
| **SGI** | **8** | **Gilgaied Grey Clay Association** | Deep heavy clays with moderate gilgai micro relief. | Suitable subject to adequate land grading. | 14.7 |
| **SGI** | **9** | **Hydromorphic Grey Clay Association** | Deep dark grey, badly drained, heavy clays. | Unlikely to be considered as most occurrences are in swamps or drainage lines. | 2.1 |
| **SGI** | **10** | **Lateritic Red-Earth Association** | Brown or reddish brown clay loams with a variable development of ironstone nodules. | Unsuitable irrigation soils; much of the area not commandable. | 7.9 |
| **SGI** | **11** | **Scalded** | | | |
| **SGI** | **12** | **Deep Sands Association/Sandy Solodized-Solonetz Association** | A combination of the above descriptions | A combination of the above descriptions | |
| **SGI** | **13** | **Weakly Solodized-Solonetz Association/Shallow Phase Red-BrownEarth Association** | A combination of the above descriptions | A combination of the above descriptions | |
| **SGI** | **14** | **Water** | | | |
| **SGI** | **15** | **Weakly Solodized-Solonetz Association/Grey and Grey-Brown Clay Association** | A combination of the above descriptions | A combination of the above descriptions | |
| | | | | | |